

INDUSTRIAL
GRADE ADVANCED
COMPUTING SOLUTIONS

EMBEDDED SOLUTIONS

INDUSTRIAL PANEL PC
EMBEDDED COMPUTING
INDUSTRIAL DISPLAY
MARKET READY SOLUTION



EMBEDDED SOLUTIONS





TABLE OF CONTENTS

Introduction

- 1 Introduction
 - 9 Industries
 - 11 Product Highlights
-

Industrial Panel PC

- 17 Multi-Touch HMI
 - 63 x86 Panel PC
 - 77 Arm Panel PC
 - 80 Application-Ready Panel PC
-

Embedded Computing

- 109 AI Edge Computing
 - 117 IoT Gateway
 - 119 Embedded Systems
 - 138 Boards & Modules
-

Industrial Display

- 147 Standard Industrial Display
 - 169 Featured Industrial Display
-

Market Ready Solution

- 221 ATEX
 - 231 Healthcare
 - 239 Marine
 - 257 Military
 - 281 Smart Retail
-

Introduction

About Winmate

Winnate Inc. is a rugged computing and embedded solutions provider for industries operating in some of the most challenging environments. Founded in 1996 in Taipei, Taiwan where its headquarters, research and development facility, and production lines are located, today the company has offices and service centers worldwide.

Winnate develops rugged industrial-grade computing solutions that advance the edge AI system, and Industrial Internet-of-Things (IIOT). Industrial display and panel PC, HMI, embedded systems, IIOT gateways to rugged tablets and handheld devices for industries ranging from transportation and logistics to marine and military, railway, oil and gas, smart grid, healthcare, and field services. Winnate also provides professional services in customizing products and project management create a unique solution for specific customer's needs.

Industry Solutions

Winnate offers rugged computing solutions for vertical markets, including mobile solutions, embedded applications, industrial systems, vehicle-mounted computers, digital signage and medical solutions. Such huge range of solutions in various sectors indicates that Winnate comes equipped with the know-how and competitive capabilities to outshine the market.

We also deliver pre- and after-sales services across the world at the same strict, high quality level, that is, you can count on us to get your back up always, wherever you are!



Rugged Computing Solutions Tailored for Industrial Applications

Global Reach

Winnate is at the forefront of technological innovation with its best in-class service offerings available around the globe. Service offices in the USA, Canada, Germany, China and Taiwan have made Winnate be able to offer responsive, reliable and quick support on all of our products.



The Winmate Difference

Innovation and Ruggedness

Blending innovations and ruggedness, our products are designed to meet the requirements of vertical markets' environmental standards.

Engineering Intelligence

We are committed to maintaining the highest standards in engineering excellence to ensure our products deliver reliability, durability, and optimized performance.

Quality Commitment

Quality assurance and entire engineering processes are under go in-house. This is why we invested significantly in our state-of-the-art testing facility and offer global support.

“ **INNOVATIVE
TECHNOLOGY FOR
OPERATIONAL
EXCELLENCE.** ”

Efficiency

Our team is committed to efficiency and maintaining the shortest possible development cycles. From design to testing the whole development process undergoes in-house to achieve the market advantage in speed and quality.

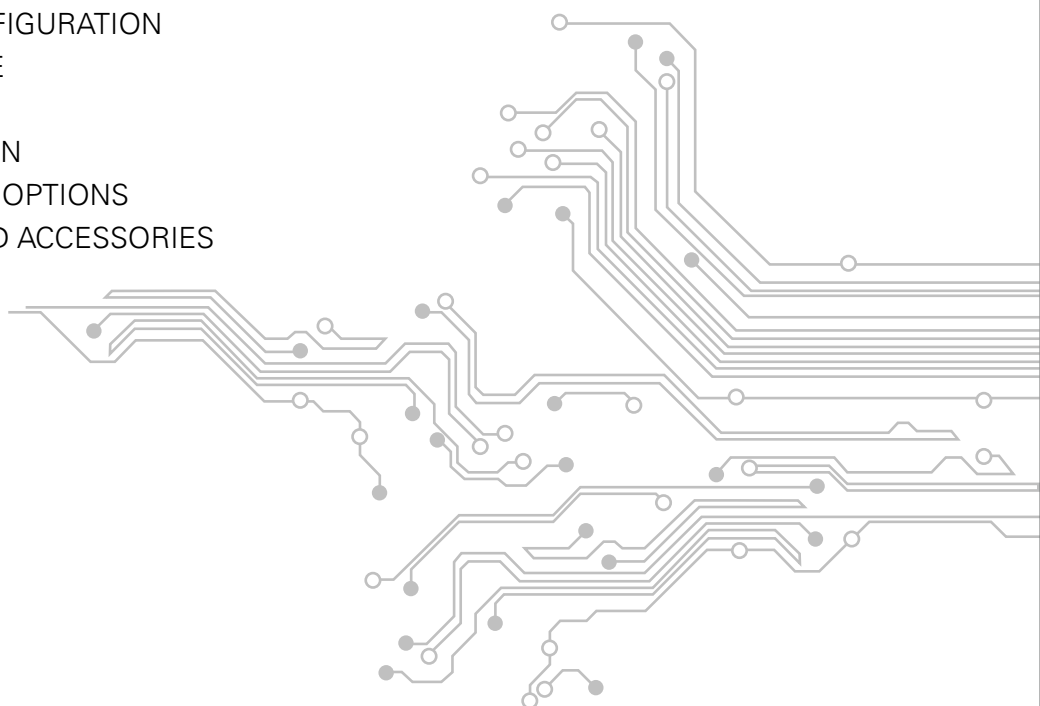
Reliability

Reliability, service and support are part of our foundation. Every product undergoes the scrutiny of industrial standards testing to verify electrical, mechanical, thermal, and firmware design performance.

Customized Solutions

Years of experience allow Winmate to offer customized solutions for different applications. From product design to accessories, our engineering team designs and support the system integration process.

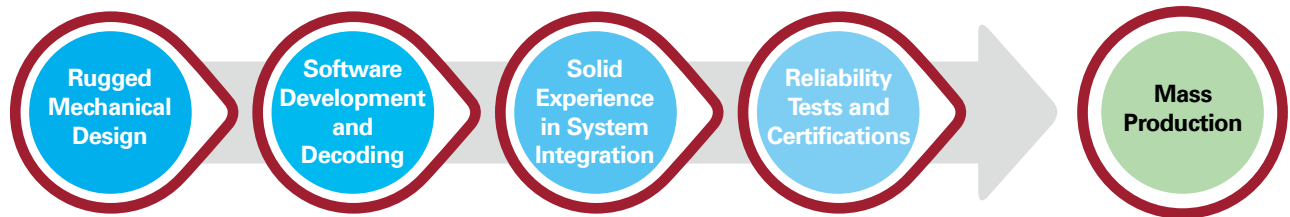
- CUSTOMIZED CONFIGURATION
- CUSTOM OS IMAGE
- CUSTOM BIOS
- ENCLOSURE DESIGN
- PERIPHERALS AND OPTIONS
- CUSTOM-DESIGNED ACCESSORIES



Introduction

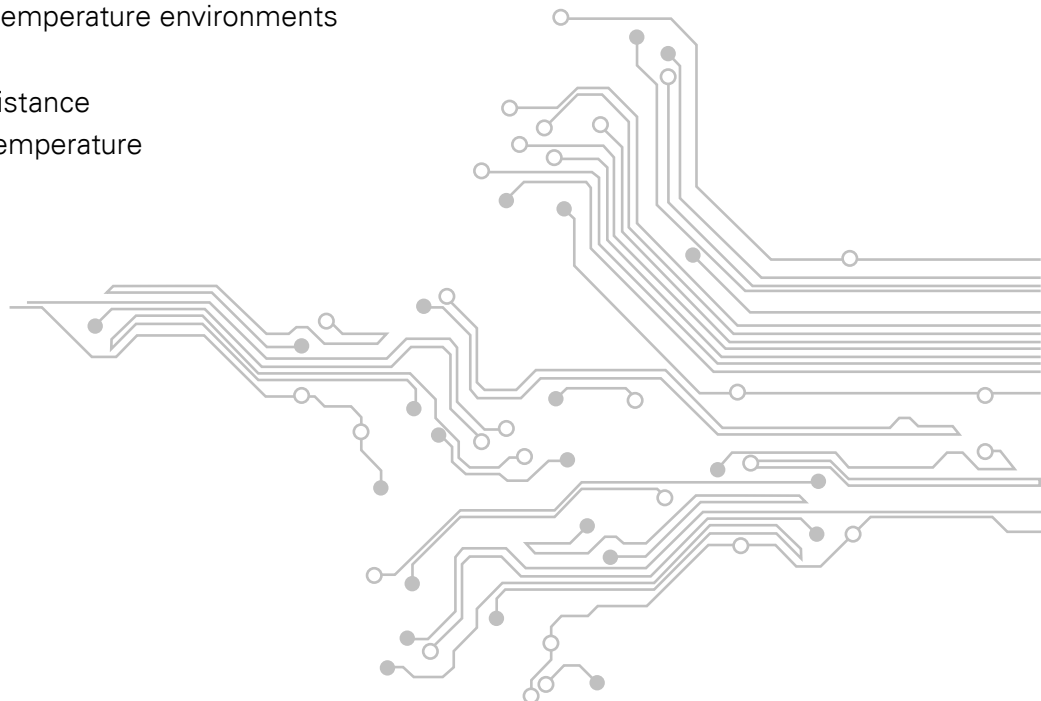
Technical Know-How

We understand that, for enterprises operating in rugged or potentially hazardous environments, the access to the cutting-edge solutions purpose-built for their applications is imperative. As a result, Winmate locates its resources from project research and design, software development and customization, product verification and validation, to testing all in house in order to gain maximized freedom to research and implement the latest technologies available.



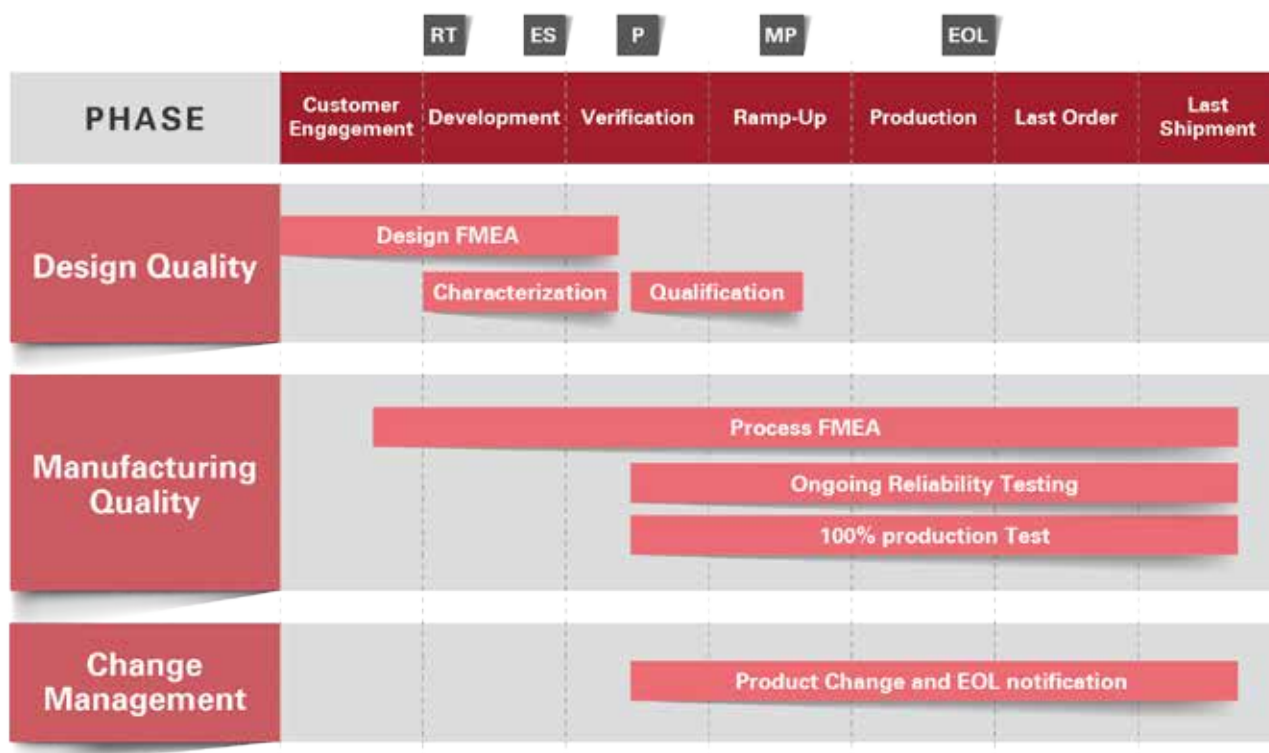
The latest technologies we deploy for our rugged products:

- Dry and wet optical bonding
- Panel enhancement for sunlight readability
- Anti-reflection (AR) and anti-glare (AG) glass protection coating
- Light sensor
- Hyper dimming
- Electronic potting
- Touch screen integration: projected capacitive, resistive or SAW touch
- Waterproof enclosure
- Military EMI and mesh coating
- Wireless capabilities
- Data capture devices integration
- Defroster for ultra-low temperature environments
- 316 Stainless steel
- Shock and vibration resistance
- Wide-range operation temperature



Product Development Life Cycle

Winmate has total knowledge and control of the product's life cycle, from its conception and production in our factories to distribution:



Strategic Partnership

For enterprises operating in difficult or potentially hazardous environments, access to the latest technology, built specifically for these demanding industries, is imperative. The engineering process and in-depth knowledge of electrical, mechanical, thermal and firmware design ensure optimized performance, durability and reliability with every rugged product we create. Our technologies undergo a battery of tests at our in-house, state-of-the-art testing facility to verify this performance.

We have also forged strategic partnerships with leading technology companies in order to provide you with the cutting-edge, industrial-grade communication tools to maximize your operational efficiency, safety, asset tracking and data management. With partners such as Microsoft, Intel, Qualcomm and AWS, we have the advantage of gaining early access to the latest developments, which means we can provide our customers with cutting-edge technology and software.



Introduction

Reliability Test Facilities

Winmate provides consulting and testing services to ensure products are in compliance with the latest global industrial standards and regulations. By working closely with the regulatory agencies Winmate guarantees that the product time to market is minimized. The results are documented and provided to regulatory agencies for certification.

In-house testing lab allows Winmate to achieve high standards of product reliability and ruggedness with the shortest possible product development cycle. Rather than outsourcing critical reliability test, Winmate is able to perform vibration, drop, thermal and dry heat, and EMC and EMI tests, as well as radio emission and susceptibility, giving us the market advantage in speed and quality.

Winmate also offers a wide range of customer support services and has implemented an extensive environmental protection policy to meet the standards of the electronics industry. To learn more, visit our website at www.winmate.com.

In-House Testing Lab:



Quality Assurance

Winmate promotes standardization of material, facilities, and engineering practices to improve industrial safety standards and regulations, while reducing the total cost of ownership and acquisition cycle time. Our materials, tools, facilities, engineering, and testing practices are designed to ensure reliability and durability.

At Winmate we developed and implemented a quality management system based on a process management approach. This allows us to maintain consistency in product service and support, and meet all applicable regulatory requirements, while remaining nimble and flexible enough to evolve with technology and industry need. The quality system complies with the international standard ISO 9001:2015 and the standards which apply to related industries.

Quality Information Summary

Certification	Registration Date	Expiration Date	Certifying Agency
Quality Management Systems (QMS)			
ISO 9001:2015 Registered	2019/8/22	2022/8/22	SGS
ISO 14001:2015 Registered	2019/8/22	2022/8/22	SGS
Other registrations, certifications and special process capabilities			
IECQ QC 080000: 2017	2019/9/5	2022/9/4	SGS
ISO 13485: 2016	2018/12/19	2021/12/19	SGS
IEC80079-34: 2011	2015/6/20	2021/6/29	CSA

Product Certification

Tailored for industrial applications, Winmate's products go through serious product testing to comply with international industry standards and regulations. Product certifications verify how components perform under real-world conditions. It is an independent evidence for the product quality, reliability and safety. Our products have proved themselves in numerous projects right around the globe in hazardous locations, marine, transportation, healthcare, military and other industrial environments.

Introduction

Environmental Protection & Responsibility

Winmate Inc. acknowledges a responsibility to the environment, and expresses our commitment towards implementing practices which will promote environmental sustainability. The following policy governs the management of the environmental aspects of our company, with specific focus on the conservation of resources and the reduction of waste. This policy relates to how all operations in our company will be continually reviewed and improved, so that we will truly be able to integrate environmental and social considerations into our everyday practices. Winmate will consistently strive to raise awareness in the community, encourage participation and train employees in environmental matters.

Green Manufacturing

Winmate Inc. assimilates green management into every stage of product design and development and implements continuous improvement projects in the areas of climate change, energy management, water management, waste management and air pollution control. We follow Green Product Design principles and consider the environmental impacts of raw material procurement, manufacturing, transportation and distribution, consumer use, and recycling. Winmate's goal is to facilitate coexistence and mutual prosperity between our business and the environment.



Environmental Protection & Responsibility

EU RoHS Declaration of Conformity

The RoHS Directive is a CE marking Directive. This means that equipment within its scope must carry a CE marking if it is offered for sale or placed on the market in the EU. The CE marking is applied by the manufacturer (or Authorized Representative, if mandated) on the product.

Winmate Inc. hereby certify that any substances used in homogeneous materials, parts, semi-finished products, manufacturing process, and products meet the regulatory compliance of RoHS Directive.

Besides, our lead-free production line and process, including solder paste, solder bar and process control parameters, has been developed and standardized in our manufacturing system.

Conflict Free Minerals Policy

As Reported by EICC (Electronic Industry Citizenship Coalition) and GeSI (Global e-Sustainability initiative), that the origin of these minerals has become the Democratic Republic of Congo's Main revenue sources of armed rebel groups, to deal in arms, continued its bloody conflict between government forces, devastated the local civilian population, thus triggering international disputes.

Winmate Inc. as the global citizen, we declare and commit to refuse the application of metals from fighting region; meanwhile, we request Winmate supply chain to obey and guarantee the things below:

Our sourcing policy for Conflict Free Minerals:

- Conduct your operation in a way of social and environmental responsibility
- Not use the conflict minerals originated from the Democratic Republic of the Congo (DRC) and its adjoining countries
- Make the same requirements to your upstream suppliers

Industries

Winmate understands the need for ruggedness and uninterrupted productivity when it comes to operating in challenging environments. We provide application-ready computing solutions for marine and military, oil and gas, warehouse and logistics, factory automation, healthcare and other industrial vertical markets.



Oil & Gas

ATEX and Class 1 Division 2 (C1D2) certified solutions for collecting data in remote rig and pipeline locations.



Marine

IEC 60945 compliance and DNV (Det Norske Veritas) certified solutions for maritime applications in a vessel or bridge.



Military

Rugged military products that comply with MIL-STD-810G environmental and MIL-STD-461F EMC standards.



Healthcare

Certified for healthcare applications, our computing devices are made for safe operations and collecting sensitive data in a hospital environment.



Food & Beverage Industry

Waterproof IP69K, IP67 and IP65 panel PC and display meet high hygiene standards, resist moisture and chemical cleaning.



Factory Automation

Wide range of advanced technologies for factory automation from data collection to operator control and remote device management.



Warehouse & Logistics

Vehicle mounted computers for inventory management whether in inventory delivery, port logistics or warehousing.



Field Service

Rugged mobile computers for data collection needs of workshops, field surveys, delivery services.



Public Safety

Compact and rugged data capture devices for public safety applications.



Transportation

Track and optimize routes with our vehicle mounted computers or rugged tablets with vehicle docking.



Vehicle Diagnostics

Rugged technology for your vehicle servicing solution and car repair workshop applications.



Utilities

Embedded systems and gateways for data collection and transfer in remote locations. Connect everything, control everywhere!

Product Highlights

Highlights indicate our recommended and most popular products, to help you determine which product to choose from our extensive portfolio.

Embedded Systems

Fanless Embedded
Automation Computer

IWAI-AA



p.109

- 8th Gen. Intel® Core™ i7/i5/i3

Fanless Embedded
Automation Computer

IWAI-SHA



p.111

- 8th Gen. Intel® Core™ i7/i5/i3

Fanless Embedded
Automation Computer

IWAI-TA



p.113

- Intel® Celeron® N3350

Modular Embedded Box PC

IKMH100-AI



p.115

- Intel® Core™ i5-7200U

IoT Gateway

EACIL20



p.118

- Intel® Celeron® N3350

DIN Rail Box PC

IBDRW100-P



p.126

- Intel® Celeron® N4200

Panel PC and HMI

IP69K Stainless Panel PC

Push Button Series

10.1" / 15" / 19" / 21.5"



p.17

- Intel® Celeron® N2930

IP69K Stainless with Conduit Pipe

P Series Panel PC

15" / 19" / 21.5" / 23.8"



p.19

- Intel® Core™ i5-7200U

Display

Chassis Display

PT Series

15"/ 18"/ 32"



p.177

- Standard I/O
- Front IP65

G-WIN Display

GC Series

19"/ 21.5"/ 23.8"



p.193

- Standard I/O
- Front IP65

IP69K Stainless Display

P Series

15"/19"/ 21.5"/ 23.8"



p.179

- VESA/Yoke mount, panel mount
- With conduit pipe

IP69K Stainless Display

Push Button Series

10.1"/ 15"/ 19"/ 21.5"



p.185

- with Push Buttons

4K UHD Healthcare Display

12G-SDI Series

27"/ 32"



4K Ultra HD 12G-SDI

p.175

- 12G-SDI in
- 12G-SDI out

Healthcare Display

Multi-Touch Series

15.6"



p.237

- Chassis

Panel PC and HMI

Front IP65

PT Series HMI

15"/ 15.6"/ 32"



p.50

- Intel® Celeron® N2930
- Intel® Core™ i5-7200U

Front IP65

GC Series Panel PC

7~23.8"



p.85

- Intel® Core™ i5-7200U
- 7th Gen. Intel® Core™ i7/i5/i3
- Intel® Celeron® N2930



INDUSTRIAL PANEL PC

Industrial Panel PC

Overview 15

Product Overview..... 16

HMI

Stainless Series 17

E Series (x86) 31

E Series (Arm)..... 33

EL Series (Arm)..... 35

M Series (x86) 37

PO Series (x86)..... 42

PP Series (x86) 47

PT Series (x86) 50

PT Series (Arm)..... 52

S Series (x86) 55

S Series (Arm)..... 58

x86 Panel PC

Kaby Lake Series 63

Haswell Series 66

Bay Trail Series 69

Ivy Bridge Series 73

Arm Panel PC

Arm Series 77

Application- Ready Panel PC

PCI Slot Series 80

Rack Mount Series 82

G-WIN Series 85

Industrial Panel PC

Overview

As technology evolves and regulatory demands significantly increase, modern factories not only need a track of processes but a visualization of each production important step. Dozen of data collected throughout each shift requires a screen to display production status and a dashboard for better control and process optimization. Optimized processes facilitate reduced total cost of ownership, minimized time-to-market and enhanced quality.

Winmate provide a wide range of panel PC and human-machine interfaces for factory or building automation, machine control, point-of-information kiosks, hospitality, or air traffic control.

Our industrial panel PC include:

- The latest Android™, Windows® or Linux operating system
- Various housing options: panel mount, open frame, chassis
- Durable design

Simply select the optimum display size for your application, choose processing power and interfaces to design the most suitable solution.



Operation control and processes
visualization

Stainless Series with Push-Buttons

Winmate develops the solutions using cutting-edge technologies that help overcome different automation challenges you may encounter in Food, Chemical, Pharmaceutical Industries.

Adjust 3 Touch Modes Easily by Turning the Knob Hand Mode

Thanks to the PCAP technology the series delivers excellent responsive performance by supporting multi-touch and allowing for anyone to operate it easily with fingers.

Rain Mode

The Rain Mode is not affected by the presence of water and allows users to continue working in wet environments and inclement weather.

Glove Mode

This mode works not only with thin gloves like some inferior devices, but also with heavy work-gloves.

Push-Button Front Panel

Push-buttons bring control and indication directly to the work area, eliminating wasted movement and increasing productivity. In addition, the physical buttons are especially needed for critical tasks like emergency shutdowns. When an emergency situation occurs, we don't want to waste time navigating through HMI screens but a simple and quick way to shut down the process.



Full IP65 Rated SUS316 Stainless Steel Enclosure

The device features a SUS316 Stainless Steel housing with full IP65 compliance to be water and dust proof, meaning it can withstand overall splashing conditions, suitable to be deployed in Food, Pharmaceutical Industries or harsh environments with strict hygiene demands.

Waterproof USB Type-A Connector on Front Panel

The device is pre-built with a handy and waterproof USB Type-A connector on the front panel to allow users to plug in peripherals in an easy way.



Product Guide-Featured Industrial Panel PC

Our product guide helps you to navigate and find the right product from our excessive product line.

x86 Panel PC and HMI

			
Stainless Series Panel PC	E Series HMI	M Series HMI	PO Series HMI
p.17	p.31	p.37	p.42
			
S Series HMI	Kaby Lake Series Panel PC	Bay Trail Series Panel PC	G-WIN Series Panel PC
p.55	p.63	p.69	p.85

Arm Panel PC and HMI

			
E Series HMI	EL Series HMI	PT Series HMI	S Series HMI
p.33	p.35	p.52	p.58
			
Arm Series Panel PC	G-WIN Series Panel PC		
p.77	p.91		

10.1"~21.5" x86 Stainless Panel PC Stainless Series with Push Buttons

NEW



“**SPEED UP RESPONSE TIME IN
EMERGENCY SITUATIONS.**”

- 10.1~21.5" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7, Ubuntu 16.04

SUS316 stainless steel

Waterproof connectors

4 GB DDR3 1600 MHz

64 GB mSATA SSD

USB 2.0, RJ45 for Ethernet, RS232

Flat push buttons (red, blue, green), emergency stop button

Supports VESA mount, yoke mount

IP65 waterproof and dustproof

Operating temperature 0°C to 45°C

Accessories

Standard

100~240V AC to DC adapter
with power cord

External USB+LAN cable

External COM cable

Waterproof caps

RJ45 female-female
converter

VESA screws

Driver CD & Manual

Custom configuration



Memory



Wide Power
Input



Bluetooth



Wi-Fi

Application



Factory Automation

“VANDAL RESISTANT,
STYLISH HMI
CONTROLS IN HARSH
ENVIRONMENTS.”

Winmate's all-new 17" panel PC with push buttons were installed inside machine-control terminals in the factory operating in the food and beverage industry. Push buttons on the HMI terminal provide excellent tactic feedback that is necessary in emergency situations.

x86 IP69K Stainless Series with Push Buttons

Intel® Celeron® N2930

NEW



NEW



NEW



NEW



Model Name	10.1" (16:9)	15"	19"	21.5" (16:9)
	W10IB3S-SPH1-B	R15IB3S-SPC3-B	R19IB3S-SPM1-B	W22IB3S-SPA3-B
Display				
Resolution	1024 x 600	1024 x 768	1280 x 1024	1920 x 1080
Panel Brightness	450 nits	250 nits	250 nits	250 nits
Contrast Ratio	800:1 (Typ.)	2000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Viewing Angle	-75~80(H);-80~80(V)	-88~88(H);-88~88(V)	-85~85(H);-85~85(V)	-89~89(H);-89~89(V)
Display Color	16.7M	16.2M	16.7M	16.7M
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	1 x SODIMM, Max 8GB DDR3 1600 MHz, default 4GB	1 x SODIMM, Max 8GB DDR3 1600 MHz, default 4GB	1 x SODIMM, Max 8GB DDR3 1600 MHz, default 4GB	1 x SODIMM, Max 8GB DDR3 1600 MHz, default 4GB
Storage	Default 1 x mSATA SSD 64GB	Default 1 x mSATA SSD 64GB	Default 1 x mSATA SSD 64GB	Default 1 x mSATA SSD 64GB
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Expansion	1 x mPCIe slot(for half size Wifi module)	1 x mPCIe slot(for half size Wifi module)	1 x mPCIe slot(for half size Wifi module)	1 x mPCIe slot(for half size Wifi module)
Network	2 x Intel® Ethernet Controller I210-AT	2 x Intel® Ethernet Controller I210-AT	2 x Intel® Ethernet Controller I210-AT	2 x Intel® Ethernet Controller I210-AT
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux Ubuntu 16.04 (Optional)	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux Ubuntu 16.04 (Optional)	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux Ubuntu 16.04 (Optional)	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux Ubuntu 16.04 (Optional)
Connectors				
Push-button	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension
Ethernet LAN	-	1 x waterproof Giga LAN RJ45 connector	1 x waterproof Giga LAN RJ45 connector	1 x waterproof Giga LAN RJ45 connector
COM	1 x M12 waterproof connector for RS232	1x M12 waterproof connector for RS232	1 x M12 waterproof connector for RS232	1x M12 waterproof connector for RS232
USB	1 x M12 waterproof connector for 1 x USB2.0 & Giga LAN RJ45	1 x M12 waterproof connector for 2 x USB2.0 1x USB type-A waterproof connector at front side	1 x M12 waterproof connector for 2 x USB2.0 1 x USB type-A waterproof connector at front side	1 x M12 waterproof connector for 2 x USB2.0 1 x USB type-A waterproof connector at front side
Power Input	1 x M12 waterproof connector for 12V DC	1 x M12 waterproof connector for 12V DC	1 x M12 waterproof connector for 12V DC	1 x M12 waterproof connector for 12V DC
Mechanical				
Housing	Stainless Housing	Stainless Housing	Stainless Housing	Stainless Housing
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (200 x 100 mm)
Environment				
Operating Temp.	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
IP Proof	IP65	IP65	IP65	IP65
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Custom configuration



Memory



Storage



AR Glass

Application



Drug Manufacturing Process

"ENABLES CHEMICAL MANUFACTURING DIGITIZATION."

Consists of SUS316 stainless steel, the housing is full IP69K-rated water, dust and corrosion-proof, with standing extensive wash downs with corrosion resistance against cleaning agents, especially against close-range high-pressure, high temperature wash downs.

15"~23.8" x86 Stainless Panel PC IP69K Stainless P Series with Conduit Pipe

NEW



BUILT FOR OPERATIONS IN HARSH ENVIRONMENTS WITH STRICT HYGIENE DEMANDS.

- 15"~23.8" PCAP touchscreen
- Intel® Core™ i5-7200U
- Windows 10 / Ubuntu 18.04

SUS316 stainless steel

Waterproof sealed conduit pipe

4GB DDR4 2133

64GB B-key M.2 2242

USB 3.0

RS232

RJ45 for Ethernet

Supports VESA mount, panel mount and Yoke mount

IP69K waterproof and dustproof

Operating temperature 0°C to 45°C

Accessories

Standard

Waterproof Conduit 1.5m

Elbow for connecting the conduit

AC to DC power adapter with power cord

Open wire cable for phoenix connector

Optional

Yoke mount stand kit

x86 IP69K Stainless P Series with Conduit Pipe

Intel® Core™ i5-7200U



Model Name	15"	19"	21.5" (16:9)	23.8" (16:9)
	R15IK3S-SPC369-P	R19IK3S-SPM169-P	W22IK3S-SPA369-P	W24IK3S-SPA269-P
Display				
Resolution	1024 x 768	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	2000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Viewing Angle	-88~88(H);-88~88(V)	-85~85(H);-80~80(V)	-89~89(H);-89~89(V)	-89~89(H);-89~89(V)
Display Color	16.2M	16.7M	16.7M	16.7M
System				
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	4GB DDR4 2133 (Optional up to 16GB)	4GB DDR4 2133 (Optional up to 16GB)	4GB DDR4 2133 (Optional up to 16GB)	4GB DDR4 2133 (Optional up to 16GB)
Ethernet Controller	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
Storage	64GB B-key M.2 2242 (Optional up to 512GB)	64GB B-key M.2 2242 (Optional up to 512GB)	64GB B-key M.2 2242 (Optional up to 512GB)	64GB B-key M.2 2242 (Optional up to 512GB)
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
OS	Windows 10 IoT Enterprise (Optional) Ubuntu 18.04 (Optional)	Windows 10 IoT Enterprise (Optional) Ubuntu 18.04 (Optional)	Windows 10 IoT Enterprise (Option) Ubuntu 18.04 (Option)	Windows 10 IoT Enterprise (Optional) Ubuntu 18.04 (Optional)
Connectors				
Serial	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI	1 x HDMI 1.4 output	1 x HDMI 1.4 output	1 x HDMI 1.4 output	1 x HDMI 1.4 output
Mechanical				
Dimension	356 x 280 x 56mm	445 x 370 x 56mm	531 x 322 x 56mm	600 x 369 x 56mm
Environment				
Operating Temp.	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
IP Proof	IP69K	IP69K	IP69K	IP69K
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Custom configuration



Memory



AR Glass



Glove Mode



Mini PCIe
SSD



Storage

Application



Production Line Machine Controller

"FAST PRODUCT
DEPLOYMENT IN THE
FACTORY:"

Sealed to IP69K Winmate's
15" stainless panel PC
was deployed as a machine
controller in the biscuit
production line.

10.4"~21.5" x86 Stainless Panel PC IP69K Stainless PCAP Chassis



**WITHSTANDS HIGH
PRESSURE WASHDOWNS.
EASY-TO-CLEAN.**

- 10.4"~21.5" PCAP touchscreen
- Intel® Celeron® N2930
- Intel® Core™ i5-7200U
- Windows 10/8/7

4GB DDR3L 1600

64GB mSATA SSD

USB A-Type

RS232

RJ45 for Ethernet

VESA mount, yoke mount

SUS316 stainless steel

Power input 12V DC, lockable power jack

IP69K waterproof and dustproof

Operating temperature 0°C to 45°C

Accessories

Standard

AC Adapter

Power Cable

Power Converter Cable

RS232 Cable

VESA Screws

Optional

USB Cable for Touch

x86 IP69K Stainless PCAP Chassis

Intel® Core™ i5-7200U



Model Name	15"	19"	21.5" (16:9)
	R15IK3S-SPC369	R19IK3S-SPM169	W22IK3S-SPA369
Display			
Resolution	1024 x 768	1280 x 1024	1920 x 1080
Panel Brightness	250 nits	250 nits	250 nits
Contrast Ratio	700 : 1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	304.1 x 228.1	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
System			
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
Memory	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB
Storage	64GB M.2 B Key SATA III SSD (Options up to 256GB)	64GB M.2 B Key SATA III SSD (Options up to 256GB)	64GB M.2 B Key SATA III SSD (Options up to 256GB)
Ethernet Controller	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors			
Serial Interface	1 x RS232	1 x RS232	1 x RS232
LAN	1 x LAN	1 x LAN	1 x LAN
USB	2 x USB	2 x USB	2 x USB
Power	1 x Locable Power Jack	1 x Locable Power Jack	1 x Locable Power Jack
Mechanical			
Dimensions	378 x 301 x 56.4 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Proof	Full IP69K, air venting valve	Full IP69K, air venting valve	Full IP69K, air venting valve
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	52W (Typ.)	56W (Typ.)	66W (Typ.)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 IP69K Stainless PCAP Chassis

Intel® Celeron® N2930



Model Name	10.4"	15"	19"	21.5" (16:9)
	R10IB3S-SPT269	R15IB3S-SPC3	R19IB3S-SPM1	W22IB3S-SPA3
Display				
Resolution	1024 x 768	1024 x 768	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	250 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	304.1 x 228.1	304.1 x 228.1	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88(H); -88~88(V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x SODIMM, DDR3L 1600 (Default 4GB)	1 x SODIMM, DDR3L 1600 (Default 4GB)	1 x SODIMM, DDR3L 1600 (Default 4GB)	1 x SODIMM, DDR3L 1600 (Default 4GB)
Storage	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB)	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB)	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB)	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB)
Ethernet Controller	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors				
Serial Interface	1 x RS232	1 x RS232	1 x RS232	1 x RS232
LAN	1 x LAN	1 x LAN,	1 x LAN	1 x LAN
USB	2 x USB	2 x USB	2 x USB	2 x USB
Power	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
Mechanical				
Dimension	289 x 246 x 49.9 mm	378 x 301 x 56.4 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Proof	Full IP69K, air venting valve	Full IP69K, air venting valve	Full IP69K, air venting valve	Full IP69K, air venting valve
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	33W (Typ.)	38W (Typ.)	45W (Typ.)	56W (Typ.)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.4"~19" x86 Stainless Panel PC

IP67 Resistive Chassis



“**SCRATCH RESISTANT TOUCH SCREEN.**”

- 10.4"~19" resistive touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

4GB DDR3L 1600

64GB mini PCIe SSD

USB Type-A

RS232

RJ45 for Ethernet

SUS316 stainless steel

VESA mount, yoke mount

Power input 12V DC, lockable power jack

IP67 waterproof and dustproof

Operating temperature 0°C to 45°C

Accessories

Standard

AC Adapter

Power Cable

RS232 Cable

Ethernet Cable

USB Cable

VESA Screws

Custom configuration



Memory



2.5" HDD



PCAP
Touchscreen

Application



Self-Order Kiosk

“SPEED UP ORDERS AND INCREASE CUSTOMER SATISFACTION.”

Sealed to IP67, Winmate's 19" panel PC now accept orders in a french fast food chain. After busy days, the operator uses water to clean the surface to meet the requirements of food safety authorities.

x86 IP67 Resistive Chassis

Intel® Celeron® N2930



Model Name	10.4" TFT	15"	19"
	R10IB3S-67T2ST	R15IB3S-67C3ST	R19IB3S-67A1ST
Display			
Resolution	1024 x 768	1280 x 768	1280 x 1024
Panel Brightness	350 nits	250 nits	400 nits
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	1000 : 1 (Typ.)
Active Area	210.4 x 157.8	304.1 x 228.1	376.32 x 301.056
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88(V)	-88~88 (H); -88~88 (V)
Display Color	16.2M	16.2M	16.7M
Touch	5 Wire Resistive touchscreen, AR Glass (Optional)	5 Wire Resistive touchscreen, AR Glass (Optional)	5 Wire Resistive touchscreen, AR Glass (Optional)
System			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB
Storage	Mini PCIe SATA II SSD (Default 64GB) max. 512GB	Mini PCIe SATA II SSD (Default 64GB) max. 512GB	Mini PCIe SATA II SSD (Default 64GB) max. 512GB
Ethernet Controller	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors			
Serial Interface	1 x RS232	1 x RS232	1 x RS232
LAN	1 x LAN	1 x LAN	1 x LAN
USB	2 x USB	2 x USB	2 x USB
Power	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
Mechanical			
Dimensions	311 x 257 x 46.4 mm	381.8 x 310 x 56.4 mm	457.4 x 370 x 61.9 mm
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
Net Weight	7.1 kg	7.3kg	10.2kg
IP Rating	Full IP67	Full IP67	Full IP67
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	33W (Typ.)	38W (Typ.)	45W (Typ.)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

10.4"~21.5" x86 Stainless Panel PC

IP65 Stainless PCAP Chassis



“**STAINLESS RUST
PROOF HOUSING.**”

- 10.4"~21.5" PCAP touchscreen
- Intel® Celeron® N2930
- Intel® Core™ i5-7200U
- Windows 10/8/7

4GB DDR3L 1600

64GB mini PCIe SSD

USB Type-A

RS232

RJ45 for Ethernet

SUS316 stainless steel

VESA mount, yoke mount

Power input 12V DC, lockable power jack

IP65 waterproof and dustproof

Operating temperature 0°C to 45°C

Accessories

Standard

AC Adapter

Power Cable

RS232 Cable

Ethernet Cable

USB Cable

VESA Screws

Custom configuration



Memory



PCAP
Touchscreen



AR Glass



Glove Mode

Application



Automatic Sorting Line

“MAKES SORTING FASTER
AND MORE ACCURATE.”

New fully automated parcel
sorting station now has
a waterproof IP65-rated
panel PC that helps operator
to visualize the status and
package distribution within the
sorting station.

x86 IP65 Stainless PCAP Chassis

Intel® Core™ i5-7200U



Model Name	15"	17"	19"	21.5" (16:9)
	R15IK3S-SPC3	R17IK3S-SPM1	R19IK3S-SPM1	W22IK3S-SPA3
Display				
Resolution	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	304.1 x 228.1	337.92 x 270.34	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-88~88 (H); -88~88(V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.7M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
System				
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
Memory	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB
Storage	2.5" HDD/M.2 SSD (Default 64GB) max. 512GB	2.5" HDD/M.2 SSD (Default 64GB) max. 512GB	2.5" HDD/M.2 SSD (Default 64GB) max. 512GB	2.5" HDD/M.2 SSD (Default 64GB) max. 512GB
Ethernet Controller	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors				
Serial Interface	1 x RS232	1 x RS232	1 x RS232	1 x RS232
LAN	1 x LAN	1 x LAN	1 x LAN	1 x LAN
USB	2 x USB	2 x USB	2 x USB	2 x USB
Power	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
Mechanical				
Dimensions	378 x 301 x 56.4 mm	412 x 344 x 61.3 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Rating	Full IP65	Full IP65	Full IP65	Full IP65
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	52W (Typ.)	56W (Typ.)	56W (Typ.)	66W (Typ.)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 IP65 Stainless PCAP Chassis

Intel® Celeron® N2930



Model Name	10.4"	15"	17"	19"	21.5" (16:9)
	R10IB3S-SPC3	R15IB3S-SPC3	R17IB3S-SPM1	R19IB3S-SPM1	W22IB3S-SPA3
Display					
Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	304.1 x 228.1	304.1 x 228.1	337.92 x 270.34	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88(H); -88~88(V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.7M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
System					
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB
Storage	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB
Ethernet Controller	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors					
Serial Interface	1 x RS232	1 x RS232	1 x RS232	1 x RS232	1 x RS232
LAN	1 x LAN	1 x LAN	1 x LAN	1 x LAN	1 x LAN
USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB
Power	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
Mechanical					
Dimensions	289 x 246 x 49.9 mm	378 x 301 x 56.4 mm	412 x 344 x 61.3 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Proof	Full IP65	Full IP65	Full IP65	Full IP65	Full IP65
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	33W (Typ.)	38W (Typ.)	43W (Typ.)	45W (Typ.)	56W (Typ.)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 IP65 Stainless Chassis

Intel® Celeron® N2930



Model Name	15"	15.5"	17"	19"	21.5" (16:9)
	R15IB3S-65A1FTP	R15IB3S-65C3	R17IB3S-65M1	R19IB3S-65M1	W22IB3S-65A3
Display					
Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	500 nits	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	2500:1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)
Active Area	304.1 x 228.1	304.1 x 228.1	337.9 x 270.4	376.3 x 301.1	476.7 x 268.1
Viewing Angle	-88~88 (H); -88~88 (V)	-70~70(H); -65~60(V)	-85~85(H); -80~80(V)	-85~85(H); -80~80(V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.7M	16.7M	16.7M
Touch	Projected Capacitive	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass
System					
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1x SO-DIMM DDR3L 1066/1333 MHz (Default 4GB, max. 8GB)	1 x SODIMM, DDR3L 1600 (Default 4GB, max. 8GB)	1 x SO-DIMM, DDR3L 1600 (Default 4GB, max. 8GB)	1 x SO-DIMM, DDR3L 1600 (Default 4GB, max. 8GB)	1 x SO-DIMM, DDR3L 1600 (Default 4GB, max. 8GB)
Storage	2.5" HDD/SSD (Default 64GB) max. 512GB	2.5" HDD/ Mini PCIe SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SSD (Default 64GB) max. 512GB	2.5" HDD/ Mini PCIe SSD (Default 64GB) max. 512GB
Ethernet Controller	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
Audio	Realtek HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors					
Serial Interface	1 x RS232 (Optional RS422/ RS485)	4 x RS232 (3 x RS232 internal)	4 x RS232 (3 x RS232 internal)	4 x RS232 (3 x RS232 internal)	4 x RS232 (3 x RS232 internal)
USB	2 x USB Type-A Receptacle	6 x USB2.0 (4 x USB internal)	6 x USB2.0 (4 x USB internal)	6 x USB2.0 (4 x USB internal)	6 x USB2.0 (4 x USB internal)
Mechanical					
Dimensions	396 x 310 x 49 mm	388 x 311 x 61 mm	416 x 350 x 61 mm	460 x 385 x 63 mm	550 x 340 x 65 mm
Operating Temp.	-20°C to 60°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Rating	Full IP65	Full IP65	Full IP65	Full IP65	Full IP65
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	25W (Typ.) (Max.backlight & high CPU load)	38W (Typ.) (Max.backlight & high CPU load)	43W (Typ.) (Max.backlight & high CPU load)	45W (Typ.) (Max.backlight & high CPU load)	56W (Typ.) (Max.backlight & high CPU load)
Certifications					
Safety	CE, FCC	CE, FCC,	CE, FCC	CE, FCC	CE, FCC

x86 IP65 Stainless Chassis

Intel® Core™ i5-7200U



Model Name	15"	17"	19"	21.5" (16:9)
	R15IK3S-65C3	R17IK3S-65M1	R19IK3S-65M1	W22IK3S-65A3
Display				
Resolution	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Brightness	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	700:1(Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)
Active Area	304.1 x 228.1	337.92 x 270.34	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.7M	16.7M	16.7M
Touch	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass
System				
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
Memory	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)
Storage	64GB M.2 B Key SATA III (Options up to 512GB)	64GB M.2 B Key SATA III (Options up to 512GB)	64GB M.2 B Key SATA III (Options up to 512GB)	64GB M.2 B Key SATA III (Options up to 512GB)
Ethernet Controller	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors				
Serial Interface	1 x RS232	1 x RS232	1 x RS232	1 x RS232
USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
Mechanical				
Dimensions	384 x 311 x 61 mm	416 x 350 x 61 mm	460 x 385 x 63 mm	550 x 340 x 65 mm
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Rating	Full IP65	Full IP65	Full IP65	Full IP65
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	52W (Typ.), max backlight & high CPU load	56W (Typ.), max backlight & high CPU load	56W (Typ.), max backlight & high CPU load	66W (Typ.), max backlight & high CPU load
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC,	CE, FCC

7"~15.6" x86 HMI E Series

Custom configuration



Memory



Application



Fruit Sorting and Packaging

"FAST SPEED AND STABLE PERFORMANCE."

The multi-touch panel PC offered advanced performance, an intuitive user interface. Being connected to the PLC through an Ethernet cable the operator panel ensures faster and more reliable operations.

“**ELEGANT DESIGN.**”

- 7"~15.6" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

Fanless cooling system

64GB mSATA SSD

USB 3.0, USB 2.0

RS232/422/485, two RJ45 for Ethernet, HDMI 1.4a

Panel mount, VESA mount

Front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

Mounting Clips and Screws

2pin Terminal Block

AC Adapter

Power Cord

Driver CD

x86 E Series HMI

Intel® Celeron® N2930



Model Name	7" (16:10)	10.1" (16:10)	15.1"	15.6" (16:9)
	W07IB3S-EHT1	W10IB3S-EHH2	R15IB3S-EHC3	W15IB3S-EHA2
Display				
Resolution	1024 x 600	1280 x 800	1024 x 768	1366 x 768
Panel Brightness	320 nits	350 nits	300 nits	400 nits
Contrast Ratio	1000 : 1 (Typ.)	800 : 1 (Typ.)	700:1 (Typ.)	500 : 1 (Typ.)
Viewing Angle	-70~75 (H); -75~75 (V)	-85~85 (H); -85~85 (V)	-80~80 (H); -80~80 (V)	-85~85 (H); -85~85 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	2GB DDR3L 1600 SO-DIMM (Optional 4GB)	2GB DDR3L 1600 SO-DIMM (Optional 4GB)	2GB DDR3L 1600 SO-DIMM (Optional 4GB)	2GB DDR3L 1600 SO-DIMM (Optional 4GB)
Storage	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD
Ethernet Controller	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE PoE	Intel® I210-AT GbE
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Security	Trusted platform module (TPM 1.2)	Trusted platform module (TPM 1.2)	Trusted platform module (TPM 1.2)	Trusted platform module (TPM 1.2)
Utility	Watchdog SDK	Watchdog SDK	Watchdog SDK	Watchdog SDK
Connectors				
Power	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI port	1 x HDMI1.4a	1 x HDMI1.4a	1 x HDMI 1.4a	1 x HDMI1.4a
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	17 W (Typ.)	19 W (Typ.)	23 W (Typ.)	23 W (Typ.)
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical				
Dimension	184.94 x 127.7 x 44.9 mm	267.42 x 182.14 x 57.6 mm	276.7 x 352.5 x 56.3 mm	421 x 260.6 x 65.5 mm
Mounting	VESA Mount (75 x 75 mm), Panel Mount with 4 Mounting Clips	Panel Mount with 8 Mounting Clips	Panel Mount with 10 Mounting Clips	Panel Mount with 10 Mounting Clips
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Environment				
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

7"~15.6" Arm HMI E Series

Custom configuration



PoE

Application



Energy Efficiency Systems

"EASE OF USE,
DURABILITY AND
ACCURATE CONTROLS."

Lower operational costs with
HMI operator panels installed
inside intelligent building to
control energy consumption.



**“ EASY TO INSTALL.
ERGONOMIC. COMPACT. ”**

- 7"~15.6" PCAP touchscreen
- Arm Cortex-A9
- Android 6.0, Ubuntu 16.04,
Linux Kernel 4.1.15, QT 5.5

Fanless cooling system

1GB LPDDR3, 16GB eMMC, Micro SD Card Slot

USB 2.0, USB OTG, micro USB for debug

RS232/422/485, RJ45 LAN Support PoE, CANBus, micro HDMI

Panel mount, VESA mount

Front IP65

Operating temperature 0°C to 50°C

For less I/O demanding applications

Accessories

Standard

Mounting Clips and Screws

2pin Terminal Block

AC Adapter

Power Cord

Driver CD

Arm E Series HMI

Arm Cortex-A9



Model Name	7" (17:10) W07FA3S-EHT1	10.1" (16:10) W10FA3S-EHH2	15.1 R15FA3S-EHC3	15.6" (16:9) W15FA3S-EHA4
Display				
Resolution	1024 x 600	1280 x 800	1024 x 768	1920 x 1080
Panel Brightness	320 nits	350 nits	300 nits	300 nits
Contrast Ratio	1000 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)	800 : 1 (Typ.)
Viewing Angle	-70~75 (H); -75~75 (V)	-85~85 (H); -85~85 (V)	-80~80 (H); -80~80 (V)	-85~85 (H); -85~85 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System				
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Linux Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Linux Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Linux Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Linux Ubuntu 16.04/18.04 (Optional)
Connectors				
Power	1 x 2pin terminal block	1 x 2pin terminal block	1 x 2pin terminal block	1 x 2pin terminal block
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG
Memory Card	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
CAN BUS	1 x CANBUS	1 x CANBUS	1 x CANBUS	1 x CANBUS
HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
Debug	1 x Mini USB to Debug	1 x Mini USB to Debug	1 x Mini USB to Debug	1 x Mini USB to Debug
Power				
Power Input	9~24V DC	12V DC	12V DC	12V DC
Power over Ethernet	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical				
Dimension	184.94 x 127.7 x 44.9 mm	267.42 x 182.14 x 57.6 mm	276.7 x 352.5 x 56.3 mm	421 x 260.6 x 65.5 mm
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Environment				
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65 Rear-IP22	Front-IP65 Rear-IP22	Front-IP65 Rear-IP22	Front-IP65 Rear-IP22
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

4.3"~15.6" Arm HMI

EL Series



Application



Utilities Control

"JUST THE RIGHT SIZE FOR OUR APPLICATION."

The ultra-compact HMI with 4.3" Multi-Touch screen makes this solution to be the right fit for machine control and data visualization in the factory floor.

“ **PANEL MOUNT.
FITS IN CONFINED SPACES.** ”

- 4.3"~15.6" PCAP touchscreen
- Arm Cortex-A9
- Android 6.0, Ubuntu 16.04

Fanless cooling system

1GB LPDDR3, 8GB eMMC

USB 2.0, USB OTG

RS485, RJ45 for Ethernet

Panel mount, VESA mount

Front IP65

Operating temperature -20°C to 50°C

Accessories

Standard

VESA Plate
VESA Desk Stand

VESA Mounting Screws
VESA Wall Mount Bracket

AC Adapter

Power Cord

Driver CD

Arm EL Series HMI

Arm Cortex-A9



Model Name	4.3" (16:9)	5" (16:9)	7" (16:9)	10.1" (16:10)	15.6" (16:9)
	W04FA3S-ELT1	W05FA3S-ELT1	W07FA3S-ELT1	W10FA3S-ELH2	W15FA3S-ELA4
Display					
Resolution	480 x 272	1024 x 600	1024 x 600	1280 x 800	1920 x 1080
Panel Brightness	400 nits	300 nits	320 nits	350 nits	300 nits
Contrast Ratio	1000 : 1 (Typ.)	400 : 1 (Typ.)	1000 : 1 (Typ.)	800 : 1 (Typ.)	800 : 1 (Typ.)
Viewing Angle	-75~50 (H); -75~75 (V)	-75~50 (H); -75~75 (V)	-70~75 (H); -75~75 (V)	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)
Display Color	16.7M	256k	16.7M	16.7M	262k
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System					
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3
Storage	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)
OS	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)
Connectors					
DC-Input	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin
USB Port	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG
Ethernet	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
COM Port	1 x RS485	1 x RS485	1 x RS485	1 x RS485	1 x RS485
Power					
Power Input	12~24V DC with isolation	12~24V DC with isolation	12~24V DC with isolation	12~24V DC with isolation	12~24V DC with isolation
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical					
Dimension	121 x 82 x 49 mm	158 x 116 x 51 mm	185 x 128 x 46 mm	267 x 182 x 47 mm	444 x 285 x 27.5 mm
Mounting	Panel Mount with 4 Mounting Clips	Panel Mount with 6 Mounting Clips	Panel Mount with 7 Mounting Clips	Panel Mount with 7 Mounting Clips	Panel Mount with 10 Mounting Clips
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
Environment					
Operating Temp.	-20°C to +50°C	0°C to +50°C	-20°C to +50°C	-20°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front IP65	Front IP65	Front IP65	Front IP65	Front IP65
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.4"~21.5" x86 HMI M Series

Custom configuration

Up to
16 GB

Memory

Up to
512 GB

Storage

Up to
256 GB

2nd Storage



Application



Outdoor Checkpoint

"BRIGHT SUNLIGHT
READABLE DISPLAY"

Total solution for access control with customized enclosure for track drivers to enter the territory without times losses even in extreme weather conditions and temperature changes.

“ **MODULAR DESIGN.
INCREASED FLEXIBILITY.** ”

- 10.4"~21.5" PCAP touchscreen
- Intel® Celeron® N2930
- Intel Atom® E3845
- Intel® Core™ i5-7200U
- Windows 10/8/7

Fanless cooling system

One PCIe x4 expansion slot

Two 2.5" SSD bay slots

Touchscreen supports glove mode

Four USB 3.0

HDMI, RS232, RS232/422/485, RJ45 for Ethernet

Wide range power input 12-24V DC

Wall mount, VESA mount

Front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

Mounting Clips

Mounting Screws

AC Adapter

Power Cord

Driver CD

x86 M Series HMI

Intel® Core™ i5-7200U



Model Name	12"	15"	17"
	R12IKWS-MHM2	R15IKWS-MHC3	R17IKWS-MHM1
Display			
Resolution	1024 x 768	1024 x 768	1280 x 1024
Panel Brightness	500 nits	250 nits	350 nits
Contrast Ratio	700 : 1 (Typ.)	2000 : 1 (Typ.)	1000 : 1 (Typ.)
Active Area	245.76 x 184.32	304.1 x 228.1	337.9 x 270.3
Viewing Angle	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)
Display Color	16.2M	16.2M	16.2M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Chipset	Intel® HD graphics 620	Intel® HD graphics 620	Intel® HD graphics 620
Memory	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Expansion Slot	1 x PCIe x4	1 x PCIe x4	1 x PCIe x4
Storage	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors			
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x Gigabit LAN	2 x Gigabit LAN	2 x Gigabit LAN
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB	4 x USB3.0	4 x USB3.0	4 x USB3.0
HDMI	1 x HDMI Output	1 x HDMI Output	1 x HDMI Output
VGA	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	Line-out, Line-in	Line-out, Line-in	Line-out, Line-in
User Controls			
Control Buttons	1 x Reset, 1 x Power	1 x Reset, 1 x Power	1 x Reset, 1 x Power
LED Indicators	2 x 2.5" SSD Indicators	2 x 2.5" SSD Indicators	2 x 2.5" SSD Indicators
Power			
Power Input	12V DC with protection Fuse	12V DC with protection Fuse	12V DC with protection Fuse
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	322 x 256 x 91 mm	367 x 291 x 80 mm	398.16 x 335.54 x 94.6 mm
Mounting	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 M Series HMI

Intel® Core™ i5-7200U



Model Name	19"	21.5" (16:9)
	R19IHWS-MHA1	W22IHWS-MHA3
Display		
Resolution	1280 x 1024	1920 x 1080
Panel Brightness	400 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Active Area	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive
System		
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Chipset	Intel® HD graphics 620	Intel® HD graphics 620
Memory	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
BIOS	Insyde BIOS	Insyde BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec
Expansion Slot	1 x PCIe x4	1 x PCIe x4
Storage	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors		
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x Gigabit LAN	2 x Gigabit LAN
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB	4 x USB3.0	4 x USB3.0
HDMI	1 x HDMI Output	1 x HDMI Output
VGA	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	Line-out, Line-in	Line-out, Line-in
User Controls		
Control Buttons	1 x Reset, 1 x Power	1 x Reset, 1 x Power
LED Indicators	2 x 2.5" SSD Indicators	2 x 2.5" SSD Indicators
Power		
Power Input	12~24V DC with protection Fuse	12~24V DC with protection Fuse
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical		
Dimension	445.72 x 370.46 x 94.6 mm	530.5 x 322 x 94.2 mm
Mounting	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)
Cooling System	Fanless	Fanless
Environment		
Operating Temp.	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C
Humidity	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20
Certifications		
Safety	CE, FCC	CE, FCC

x86 M Series HMI

Intel® Celeron® N2930

Intel Atom® E3845



Model Name	10.4"	12.1"	15"
	R10IBWS-MHT2	R12IBWS-MHM2	R15IBWS-MHC3
Display			
Resolution	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	350 nits	500 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	700 : 1 (Typ.)
Active Area	201.4 x 157.8	245.76 x 184.32	304.1 x 228.1
Viewing angle	-88~88 (H) ; -88~88 (V)	-80~80 (H) ; -70~70 (V)	-88~88 (H) ; -88~88 (V)
Display Color	16.2M	16.2M	16.2M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel Atom® E3845 (2M Cache, 1.91 GHz)	Intel Atom® E3845 (2M Cache, 1.91 GHz)
Memory	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)
Ethernet Controller	Dual Intel® 2210AT GbE LAN	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	Built-in 64GB mSATA SSD (Up to 512GB)	Main Storage : Default 2.5" 64GB SSD, optional for bigger capacity Second Storage (Optional): Internal mSATA 64GB~256GB SSD	Main Storage : Default 2.5" 64GB SSD, optional up to 128GB Second Storage (Optional): internal mSATA 64~256GB SSD
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors			
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x Gigabite LAN	2 x Gigabite LAN	2 x Gigabite LAN
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB2.0, 1 x USB3.0	4 x USB2.0	4 x USB2.0
HDMI	1 x HDMI Output	1 x HDMI Output	1 x HDMI Output
VGA	-	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	-	Line-out, Line-in	Line-out, Line-in
User Controls			
Control Buttons	1 x Reset, 1 x Power	1 x Reset, 1 x Power	1 x Reset, 1 x Power
LED Indicators	1 x storage Indicator	1 x 2.5" SSD Indicator	1 x 2.5" SSD Indicator
Power			
Power Input	12~24V DC with protection Fuse	12~24V DC with protection Fuse	12~24V DC with protection Fuse
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	269.5 x 226 x 65.3 mm	301.2 x 231.7 x 68.8 mm	367 x 291 x 80 mm
Mounting	Wall Mount, VESA Mount (75 x 75 mm)	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)
Cooling System	Fanless	Fanless	Fanless
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 M Series HMI

Intel Atom® E3845



Model Name	17"	19"	21.5" (16:9)
	R17IBWS-MHM1	R19IBWS-MHA1	W22IBWS-MHA3
Display			
Resolution	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	400 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Active Area	337.9 x 270.3	376.32 x 301.06	476.64 x 268.11
Viewing angle	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Intel Atom® E3845 (2M Cache, 1.91 GHz)	Intel Atom® E3845 (2M Cache, 1.91 GHz)	Intel Atom® E3845 (2M Cache, 1.91 GHz)
Memory	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	Main : default 2.5" 64GB SSD, optional up to 128GB/Second Storage (Optional): internal mSATA 64~256GB SSD	Main : default 2.5" 64GB SSD, optional up to 128GB/Second Storage (Optional): internal mSATA 64~256GB SSD	Main : default 2.5" 64GB SSD, optional up to 128GB/Second Storage (Optional): internal mSATA 64~256GB SSD
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors			
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x Gigabite LAN	2 x Gigabite LAN	2 x Gigabite LAN
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	4 x USB2.0	4 x USB2.0	4 x USB2.0
HDMI	1 x HDMI Output	1 x HDMI Output	1 x HDMI Output
VGA	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	Line-out, Line-in	Line-out, Line-in	Line-out, Line-in
User Controls			
Control Buttons	1 x Reset, 1 x Power	1 x Reset, 1 x Power	1 x Reset, 1 x Power
LED Indicators	1 x 2.5" SSD Indicator	1 x 2.5" SSD Indicator	1 x 2.5" SSD Indicator
Power			
Power Input	12~24V DC with protection Fuse	12~24V DC with protection Fuse	12~24V DC with protection Fuse
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	398.16 x 330.54 x 79.6 mm	445.72 x 370.46 x 79.6 mm	530.5 x 322 x 45.2 mm
Mounting	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	30%-95% at +40°C (Non-condensing, RH)	30%-95% at +40°C (Non-condensing, RH)	30%-95% at +40°C (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

7"~23.8" x86 HMI P0 Series



“ **OPEN FRAME.
BEST FOR KIOSK
APPLICATIONS.** ”

- 7"~23.8" PCAP touchscreen
- 7th Gen. Intel® Core™ i7/i5/i3
- Intel® Celeron® N2930
- Windows 10/8/7

Fanless cooling system

64GB mSATA SSD

2 x Mini PCIe (for Wi-Fi and 3G module)

USB 3.0, USB 2.0

RS232/422/485, two RJ45 for Ethernet, HDMI 1.4

Open frame

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

Custom configuration

Up to
32 GB

Memory

Up to
512 GB

Storage

Application



Self-Service Payment Kiosk

“THE SYSTEM MEETS
EMV BANKING SECURITY
STANDARD.”

Installed a self-service
payment kiosk Winmate's 15"
open frame HMI and data
reader components brings
automation to gas stations.

x86 PO Series HMI

7th Gen. Intel® Core™ i7/i5/i3



Model Name	15"	15.6" (16:9)	17"
	R15IK7T-POC3	W15IK7T-POA4	R17IK7T-POM1
Display			
Resolution	1024 x 768	1920 x 1080	1280 x 1024
Panel Brightness	300 nits	300 nits	350 nits
Contrast Ratio	2000 : 1 (Typ.)	800 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -85~85 (V)	-85~85 (H); -80~80 (V)
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
Chipset	Intel® H170	Intel® H170	Intel® H170
Memory	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)
Storage	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)
Ethernet Controller	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors			
Serial	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
Power Input	1 x DC-in Power Jack (+12V)	1 x DC-in Power Jack (+12V)	1 x DC-in Power Jack (+12V)
USB Port	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
DP	1 x DP 1.2	1 x DP 1.2	1 x DP 1.2
Power			
Power Input	12V DC	12V DC	12V DC
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	350 x 292 x 48 mm	392 x 268 x 65 mm	407 x 338 x 69 mm
Mounting	Open Frame	Open Frame	Open Frame
Cooling System	Fanless	Fanless	Fanless
Environment			
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 PO Series HMI

7th Gen. Intel® Core™ i7/i5/i3



Model Name	19"	21.5" (16:9)	23.8" (16:9)
	R19IK7T-POM1	W22IK7T-POA3	W24IK7T-POA2
Display			
Resolution	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
Chipset	Intel® H170	Intel® H170	Intel® H170
Memory	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)
Storage	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)
Ethernet Controller	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors			
Serial	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
Power Input	1 x DC-in Power Jack (+12V)	1 x DC-in Power Jack (+12V)	1 x DC-in Power Jack (+12V)
USB Port	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
DP	1 x DP 1.2	1 x DP 1.2	1 x DP 1.2
Power			
Power Input	12V DC	12V DC	12V DC
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	457 x 382 x 62 mm	525 x 316 x 63 mm	615 x 385 x 66 mm
Mounting	Open Frame	Open Frame	Open Frame
Cooling System	Fanless	Fanless	Fanless
Environment			
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 PO Series HMI

Intel® Celeron® N2930



Model Name	7" (16:9) W07IB3S-POT1	10.1" (16:10) W10IB3S-POA1	15" R15IB7T-POC3	15.6" (16:9) W15IB7T-POA4
Display				
Resolution	1024 x 600	1920 x 1200	1024 x 768	1920 x 1080
Panel Brightness	320 nits	700 nits	300 nits	300 nits
Contrast Ratio	500 : 1 (Typ.)	800 : 1 (Typ.)	2000 : 1 (Typ.)	800 : 1 (Typ.)
Viewing Angle	-75~75 (H); -75~70 (V)	-89~89 (H); -89~89 (V)	-88~88(H);-88~88(V)	-85~85(H);-85~85(V)
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB
Storage	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)
Ethernet Controller	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE
OS	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System
Connectors				
Serial	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
Power Input	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack
USB Port	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI	1 x HDMI	1 x HDMI	-	-
VGA	-	-	1 x VGA (female)	1 x VGA (female)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical				
Dimension	208 x 126 x 46 mm	250 x 187 x 48 mm	360 x 272 x 72 mm	392 x 268 x 74 mm
Mounting	Open Frame Mount	Open Frame Mount	Open Frame Mount	Open Frame Mount
Cooling System	Fanless	Fanless	Fanless	Fanless
Environment				
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 PO Series HMI

Intel® Celeron® N2930



Model Name	17"	19"	21.5" (16:9)	23.8" (16:9)
	R17IB7T-POM1	R19IB7T-POM1	W22IB7T-POA3	W24IB7T-POA2
Display				
Resolution	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	350 nits	250 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-85~85(H);-80~80(V)	-85~85(H);-80~80(V)	-89~89(H);-89~89(V)	-89~89(H);-89~89(V)
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB
Storage	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)
Ethernet Controller	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors				
Serial	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
Power Input	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack
USB Port	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI	-	-	-	-
VGA	1 x VGA (female)	1 x VGA (female)	1 x VGA (female)	1 x VGA (female)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical				
Dimension	407 x 338 x 78 mm	457 x 382 x 71 mm	525 x 316 x 72 mm	615 x 385 x 75 mm
Mounting	Open Frame Mount	Open Frame Mount	Open Frame Mount	Open Frame Mount
Cooling System	Fanless	Fanless	Fanless	Fanless
Environment				
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.4"~21.5" x86 HMI PP Series

Custom configuration



Memory



Storage



Application



Operator Control & Monitoring

"VIVID GRAPHICS
AND USER-FRIENDLY
CONTROLS."

Accurate machine control and monitoring with vivid images depicted on a 21.5" screen with crystal clear resolution for more complex graphics inside smart factory.

“ **HIGH COMPUTING
PERFORMANCE.
PANEL MOUNT.** ”

- 10.4"~21.5" PCAP touchscreen
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

Fanless cooling system

Panel Brightness adjustment knob

Two USB 3.0

RS232, RS232/422/485, two RJ45 for Ethernet, HDMI 1.4

Panel mount, VESA mount

Front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

x86 PP Series HMI

Intel® Celeron® N2930



Model Name	10.4"	15"	15.6" (16:9)	19"	21.5" (16:9)
	R10IB3S-PPT2	R15IB7T-PPC3	W15IB7T-PPA4	R19IB7T-PPM1	W22IB7T-PPA3
Display					
Resolution	1024 x 768	1024 x 768	1920 x 1080	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	300 nits	300 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	2000 : 1 (Typ.)	800 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -85~85 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.9M	16.7M	16.9M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System					
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB
Ethernet Controller	Intel I210-AT GbE LAN x 2	Intel I210-AT GbE LAN x 2	Intel I210-AT GbE LAN x 2	Intel I210-AT GbE LAN x 2	Intel I210-AT GbE LAN x 2
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	mSATA SSD 64GB, Up to 512GB	mSATA SSD 64GB, Up to 512GB	mSATA SSD 64GB, Up to 512GB	mSATA SSD 64GB, Up to 512GB	mSATA SSD 64GB, Up to 512GB
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors					
Back Panel I/O Port	1 x DC-in Power Jack 1 x USB 3.0, 1 x USB 2.0 2 x RJ45 10/100/1000 1 x RS232, 1 x RS232/422/485 (Default RS232) 1 x HDMI	1 x DC-in Power Jack 1 x USB 3.0, 3 x USB 2.0 2 x RJ45 10/100/1000 2 x RS232, 1 x RS232/422/485 (Default RS232) 2 x PS/2 1 x VGA (Female) Line-out, Line-in, Mic in	1 x DC-in Power Jack 1 x USB 3.0, 3 x USB 2.0 2 x RJ45 10/100/1000 2 x RS232, 1 x RS232/422/485 (Default RS232) 2 x PS/2 1 x VGA (Female) Line-out, Line-in, Mic in	1 x DC-in Power Jack 1 x USB 3.0, 3 x USB 2.0 2 x RJ45 10/100/1000 2x RS232, 1 x RS232/422/485 (Default RS232) 2 x PS/2 1 x VGA (Female) Line-out, Line-in, Mic in	1 x DC-in Power Jack 1 x USB 3.0, 3 x USB 2.0 2 x RJ45 10/100/1000 2 x RS232, 1 x RS232/422/485 (Default RS232) 2 x PS/2 1 x VGA (Female) Line-out, Line-in, Mic in
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	35W	38W	58W	60W	60W
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical					
Dimension	284 x 252 x 55 mm	420 x 320 x 77 mm	415 x 275 x 79 mm	474 x 384 x 86.5 mm	550 x 360 x 80 mm
Environment					
Temperature	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 PP Series HMI

Intel® Core™ i5-7200U



Model Name	10.4"	15"	15.6" (16:9)	19"	21.5" (16:9)
	R10IK3S-PPT2	R15IK3S-PPC3	W15IK3S-PPA4	R19IK3S-PPM1	W22IK3S-PPA3
Display					
Resolution	1024 x 768	1024 x 768	1920 x 1080	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	300 nits	300 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	2000 : 1 (Typ.)	800 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -85~85 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.9M	16.7M	16.9M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System					
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	4GB DDR4 2133 SO-DIMM Max 16GB	4GB DDR4 2133 SO-DIMM Max 16GB	4GB DDR4 2133 SO-DIMM Max 16GB	4GB DDR4 2133 SO-DIMM Max 16GB	4GB DDR4 2133 SO-DIMM Max 16GB
Ethernet Controller	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	64GB M.2 SSD, Up to 512GB	64GB M.2 SSD, Up to 512GB	64GB M.2 SSD, Up to 512GB	64GB M.2 SSD, Up to 512GB	64GB M.2 SSD, Up to 512GB
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors					
Back Side	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	80W	80W	80W	80W	80W
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical					
Dimension	284 x 255 x 69 mm	420 x 320 x 67 mm	415 x 275 x 69 mm	474 x 384 x 77 mm	550 x 360 x 70 mm
Environment					
Temperature	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

15"~32" x86 HMI PT Series



“ **STANDALONE.
FOR YOUR POINT-OF-SALE
APPLICATION.** ”

- 15"~32" PCAP touchscreen
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

Fanless cooling system

RS232/422/485

RJ45 for Ethernet

Chassis mount, VESA mount, standalone

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

Custom configuration



AR Glass



PoE

Application



Retail Point-of-Sales Display

“DURABLE, VERSATILE
AND EASY TO USE.”

User-friendly interface of chassis HMI now serves as countertop cash register in the retail shop.

x86 PT Series HMI

Intel® Celeron® N2930

Intel® Core™ i5-7200U



NEW



Model Name	15"	15.6" (16:9)	32" (16:9)
	R15IB3S-PTC3	W15IB3S-PTA3	W32IK3S-PTA2
Display			
Resolution	1024 x 768	1920 x 1080	1920 x 1080
Panel Brightness	300 nits	300 nits	400 nits
Contrast Ratio	700 : 1 (Typ.)	800 : 1 (Typ.)	4000 : 1 (Typ.)
Viewing Angle	-80~80 (H) ; -80~80 (V)	-85~85 (H) ; -85~85 (V)	-89~89 (H);-89~89 (V)
Display Color	16.2M	16.2M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
System			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz) Intel® Core™ i7-7500U (4M Cache, up to 3.50 GHz), optional
Memory	2GB DDR3L-1600 SODIMM (max 8GB)	2GB DDR3L-1600 SODIMM (max 8GB)	4GB DDR4-2133 SO-DIMM (Max 16GB)
Ethernet Controller	Dual Intel® I210-AT GbE	Dual Intel® I210-AT GbE	Dual Intel® I211AT GbE
Storage	64GB M.2 SSD	64GB M.2 SSD	64GB M.2 B Key SATA III (Options up to 512GB)
Security Support	TPM 1.2	TPM 1.2	TPM 1.2
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors			
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
DC-Input	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack
Ethernet	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 (Optional PoE function)	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 (Optional PoE function)	2 x RJ45 10/100/1000
USB Port	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	2 x USB 3.0
Speaker	2 x 1 Watt Speaker	2 x 1 Watt Speaker	2 x 5 Watt Speaker
HDMI	-	-	1 x HDMI 1.4a
Power			
Power Consumption	21 W	21 W	53 W
Power Input	12V DC	12V DC	12V DC (Optional 9~36V DC)
Power over Ethernet (PoE)	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input	-
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	352.5 x 276.7 x 45 mm	388 x 233 x 40 mm	799 x 5027 x 63.7 mm
Mounting	VESA Mount (100 x 100, 75 x 75 mm)	VESA Mount (100 x 100, 75 x 75 mm)	VESA Mount (100 x 100, 75 x 75 mm)
Cooling System	Fanless	Fanless	Fanless
Environment			
IP Rating	Front IP65	Front IP65	Front IP65
Operating Temp.	0°C to +40°C	0°C to +40°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

15"~15.6 Arm HMI PT Series



“ **A HIGH PERFORMANCE HMI IN
A SLIM, SLEEK DESIGN.** ”

- 15"~15.6" PCAP touchscreen
- Arm Cortex-A9
- Arm Cortex-A72 + Arm Cortex-A53
- Android

Fanless cooling system

RS232/422/485

RJ45 for Ethernet

Chassis mount, VESA mount, standalone

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

Custom configuration



AR Glass



PoE

Application



Interactive POS/Kiosk

“SUITS YOUR SMART
RETAIL NEEDS ON
ANDROID PLATFORMS.”

PT Series HMI with a
user-friendly touch experience
serves as the
self-service kiosk in the retail
shop.

Arm PT Series HMI

Arm Cortex-A9



Model Name	15"	15.6" (16:9)
	R15FA3S-PTC3	W15FA3S-PTA3
Display		
Resolution	1024 x 768	1920 x 1080
Panel Brightness	300 nits	300 nits
Contrast Ratio	700 : 1 (Typ.)	700 : 1 (Typ.)
Viewing Angle	-80~80 (H) ; -80~80 (V)	-85~85 (H) ; -85~85 (V)
Display Color	16.2M	16.2M
Touch	Projected Capacitive	Projected Capacitive
System		
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3	1GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Ubuntu 16.04 (Optional)
Connectors		
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
DC-Input	1 x DC Input Phoenix type Terminal Block	1 x DC Input Phoenix type Terminal Block
Ethernet	1 x RJ45 10/100/1000 (Optional PoE function)	1 x RJ45 10/100/1000 (Optional PoE function)
Speaker	2 x 1 Watt Speaker	2 x 1 Watt Speaker
USB Port	1 x USB 2.0 1 x USB OTG 1 x Mini USB	1 x USB 2.0 1 x USB OTG, 1 x Mini USB
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
CANBus	1 x CANBus (DB9)	1 x CANBus (DB9)
Power		
Power Consumption	13 W	13 W
Power Input	12V DC	12V DC
Power over Ethernet (PoE)	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical		
Dimension	352.5 x 276.7 x 45 mm	388 x 233 x 40 mm
Mounting	VESA Mount (100 x 100, 75 x 75 mm)	VESA Mount (100 x 100, 75 x 75 mm)
Cooling System	Fanless	Fanless
Environment		
IP Rating	Front IP65	Front IP65
Operating Temp.	0°C to +40°C	0°C to +40°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Certifications		
Safety	CE, FCC	CE, FCC

Arm PT Series HMI

Arm Cortex-A72 + Arm Cortex-A53



Model Name	15"	15.6" (16:9)
	R15RK3S-PTC3	W15RK3S-PTA3
Display		
Resolution	1024 x 768	1920 x 1080
Panel Brightness	300 nits	300 nits
Contrast Ratio	700 : 1 (Typ.)	800 : 1 (Typ.)
Viewing Angle	-80~80 (H) ; -80~80 (V)	-85~85 (H) ; -85~85 (V)
Display Color	16.2M	262K
Touch	Projected Capacitive	Projected Capacitive
System		
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3	2GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (default)	Android 7.1 (default)
Connectors		
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
DC-Input	1 x DC Input Phoenix type Terminal Block	1 x DC Input Phoenix type Terminal Block
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Speaker	2 x 1 Watt Speaker	2 x 1 Watt Speaker
USB Port	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Power		
Power Consumption	13 W	13 W
Power Input	12V DC	12V DC
Power over Ethernet (PoE)	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input
Power Adapter	AC 110~240 V, Universal, $\pm 10\%$	AC 110~240 V, Universal, $\pm 10\%$
Mechanical		
Dimension	352.5 x 276.7 x 45.45 mm	388 x 233 x 40 mm
Mounting	VESA Mount (100 x 100, 75 x 75 mm)	VESA Mount (100 x 100, 75 x 75 mm)
Cooling System	Fanless	Fanless
Environment		
IP Rating	Front IP65	Front IP65
Operating Temp.	0°C to +40°C	0°C to +40°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Certifications		
Safety	CE, FCC	CE, FCC

7"~15" x86 HMI S Series

Custom configuration



Memory



Status Light Bar



2MP Webcam



HR RFID Reader



Application



Machine Controller

"EASY TO MAINTAIN & COST EFFECTIVE."

Installed in a packaging zone of a food processing manufacturer S-Series operator panel brings automation to packaging line.

“ SMART SOLUTION FOR AUTIMATED PACKAGING. ”

- 7"~15" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

Fanless cooling system

64GB M.2 SSD

Power over Ethernet (PoE)

USB 3.0, USB 2.0

RS232/422/485, RJ45 for Ethernet

1W Speaker

Panel mount, VESA mount, standalone

Front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

VESA Plate

VESA Screws

AC Adapter

Power Cord

Driver CD

VESA Desk Stand

VESA Wall Mount Bracket

x86 S Series HMI

Intel® Celeron® N2930



NEW



Model Name	7" (16:9)	7" (16:9)	10.1" (16:10)
	W07IB3S-PCO1-PoE	W07IB3S-PCO1AC-PoE	W10IB3S-PCH2LB
Display			
Resolution	1024 x 600	1024 x 600	1280 x 800
Panel Brightness	1000 nits	1000 nits	350 nits
Contrast Ratio	700 : 1 (Typ.)	700 : 1 (Typ.)	800 : 1 (Typ.)
Active Area	153.6 x 90.0	153.6 x 90.0	216.96 x 135.6
Viewing Angle	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	-85~85 (H); -85~85 (V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projective Capacitive
System			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	1 x SODIMM DDR3L 1600 MHz (Default 2GB, Max 8GB)	1 x SODIMM DDR3L 1600 MHz (Default 2GB, Max 8GB)	2GB DDR3L 1600 SODIMM (Optional 8GB)
Ethernet Controller	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Storage	64GB M.2 SSD	64GB M.2 SSD	64GB M.2 SSD
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors			
Power	1 x 3pin Terminal Block (Phoenix Type)	1 x 3pin Terminal Block (Phoenix Type)	1 x 3pin Terminal Block (Phoenix Type)
Ethernet	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
Audio	1 x 1 Watt speaker	1 x 1 Watt speaker	1 x 1 Watt Speaker
User Controls			
LED Light Bar	-	1 x LED Light Bar	Built-in All-Around RGB LED Light Bar
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	19W	19W	19W
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	189.4 x 145.4 x 37.7 mm	189.4 x 145.4 x 37.7 mm	263.28 x 171 x 35.7 mm
Mounting	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount
Cooling System	Fanless design	Fanless design	Fanless design
Data Capture			
RFID Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP Front Camera (Optional)	2MP Front Camera (Optional)	NA
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 S Series HMI

Intel® Celeron® N2930



Model Name	10.1" (16:10)	10.1" (16:10)	15"
	W10IB3S-PCH2AC-PoE	W10IB3S-PCH2-PoE	R15IB3S-PCC3-PoE
Display			
Resolution	1280 x 800	1280 x 800	1024 x 768
Panel Brightness	350 nits	350 nits	250 nits
Contrast Ratio	800 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)
Active Area	216.96 x 135.6	216.96 x 135.6	304.1 x 228.1
Viewing Angle	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.2M
Touch	Projective Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	1 x SODIMM DDR3L 1600 MHz (default 2GB, max. 8GB)	1 x SODIMM DDR3L 1600 MHz (default 2GB, max. 8GB)	1 x SODIMM DDR3L 1600 MHz (default 2GB, max. 8GB)
Ethernet Controller	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Storage	64GB M.2 SSD	64GB M.2 SSD	64GB M.2 SSD
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors			
Power	1 x 3pin Terminal Block (Phoenix Type)	1 x 3pin Terminal Block (Phoenix Type)	1 x 3pin Terminal Block (Phoenix Type)
Ethernet	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
Audio	1 x 1 Watt Speaker	1 x 1 Watt Speaker	2 x 2W Speaker
User Controls			
LED Light Bar	1 x LED Light Bar	-	-
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	-10°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	19W	19W	23W
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	263.28 x 171 x 35.7 mm	263.28 x 171 x 35.7 mm	363.4 x 277.8 x 44.5 mm
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)
Cooling System	Fanless design	Fanless design	Fanless design
Data Capture			
RFID Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP Front Camera (Optional)	2MP Front Camera (Optional)	2MP Front Camera (Optional)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

5"~15" Arm HMI S Series



“ **KNOW-HOW IN POE AND TOUCH TECHNOLOGY.** ”

- 5"~15" PCAP touchscreen
- Arm Cortex-A9
- Android 6.0, Ubuntu 16.04, Yocto project 2.0 (QT5.5 Wayland)

Fanless cooling system

16GB eMMC, Micro SD Card Slot

Power over Ethernet (PoE)

USB 2.0, USB OTG

RS232/422/485, RJ45 LAN Support PoE, CANBus

1W Speaker

Panel mount, VESA mount

Front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

VESA Plate	VESA Screws	AC Adapter	Power Cord	Driver CD
VESA Desk Stand	VESA Wall Mount Bracket			

Custom configuration



Memory



Status Light Bar



2MP Webcam



HR RFID Reader

Application



Meeting Room Booking System

“OPTIMIZE MEETING ROOM UTILIZATION.”

Installed at the entrance of the meeting room, 10.4" S-Series HMI with HF RFID reader helps to control the access to the meeting room, book schedule and check status from afar.

Arm S Series HMI

Arm Cortex-A9



Model Name	7" (16:9)	7" (16:9)	10.1" (16:10)
	W07FA3S-PCO1AC-POE	W07FA3S-PCO1-POE	W10FA3S-PCH2LB
Display			
Resolution	1024 x 600	1024 x 600	1280 x 800
Panel Brightness	1000 nits	1000 nits	350 nits
Contrast Ratio	700 : 1 (Typ.)	700 : 1 (Typ.)	800:1 (Typ.)
Active Area	153.6 x 90.0	153.6 x 90.0	216.96 x 135.6
Viewing Angle	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	85~85(H);-85~85(V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5
Connectors			
Power	1 x Phoenix type Power Jack	1 x Phoenix type Power Jack	1 x Phoenix type Power Jack
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG
SD Card	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Audio	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
CANBus	1 x CANBus	1 x CANBus	1 x CANBus
LED Light Bar	1 x Built-in RGB LED light bar	-	All-around RGB LED status light bar
Power			
Power Input	9~24V DC	9~24V DC	12V DC
Power Consumption	10W	10 W	12 W
Power over Ethernet	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	189.4 x 145.4 x 36.1 mm	189.4 x 145.4 x 36.1 mm	263.28 x 171 x 35.7 mm
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front -IP65, Full-IP22
Options			
RFID/NFC Reader	HF RFID Reader 13.56MHz (Optional)	HF RFID Reader 13.56MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP front camera (Optional)	2MP front camera (Optional)	NA
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Arm S Series HMI

Arm Cortex-A9



Model Name	10.1" (16:10)	10.1" (16:10)	15"
	W10FA3S-PCH2AC-PoE	W10FA3S-PCH2-POE	R15FA3S-PCC3-PoE
Display			
Resolution	1280 x 800	1280 x 800	1024 x 768
Panel Brightness	350 nits	350 nits	250 nits
Contrast Ratio	800 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)
Active Area	216.96 x 125.6	216.96 x 135.6	304.1 x 228.1
Viewing Angle	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)	-80~80 (H); -70~70 (V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5
Connectors			
Power	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG
SD Card	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Audio	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
CANBus	1 x CANBus	1 x CANBus	1 x CANBus
LED Light Bar	1 x Built-in RGB LED light bar	-	-
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	12W	12W	19W
Power over Ethernet	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	263.28 x 171 x 35.7 mm	263.28 x 171 x 35.7 mm	363.40 x 277.86 x 44.50 mm
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
Options			
RFID/NFC Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP front camera (Optional)	2MP front camera (Optional)	2MP front camera (Optional)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Arm S Series HMI

Arm Cortex-A72 + Arm Cortex-A53



Model Name	7" (16:9) W07RK3S-PCO1AC-PoE	7" (16:9) W07RK3S- PCO1-POE	10.1" (16:10) W10RK3S-PCH2LB
Display			
Resolution	1024 x 600	1024 x 600	1280 x 800
Panel Brightness	1000 nits	1000 nits	350 nits
Contrast Ratio	700 : 1 (Typ.)	700 : 1 (Typ.)	800 : 1 (Typ.)
Active Area	153.6 x 90.0	153.6 x 90.0	216.96 x 135.6
Viewing Angle	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	-85~85(H);-85~85(V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)	2GB LPDDR3L 1600 (Optional 4 GB LPDDR3L)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (Default) / Debian 9.0	Android 7.1 (Default) / Debian 9.0	Android 7.1 (Default) / Debian 9.0
Connectors			
Power	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	2 x USB 3.0, 1 x USB OTG	2 x USB 3.0, 1 x USB OTG	2 x USB 3.0, 1 x USB OTG
HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
SD Card	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Audio	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
LED Light Bar	1 x Built-in RGB LED light bar	-	Built-in All-Around RGB LED Status Light Bar
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	12W	12W	12W
Power over Ethernet	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	189.4 x 145.4 x 36.1 mm	189.4 x 145.4 x 36.1 mm	263.28 x 171 x 35.7 mm
Mounting	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
Options			
RFID/NFC Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP front camera (Optional)	2MP front camera (Optional)	-
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Arm S Series HMI

Arm Cortex-A72 + Arm Cortex-A53



Model Name	10.1" (16:10) W10RK3S-PCH2AC-PoE	10.1" (16:10) W10RK3S-PCH2-POE	15" R15RK3S-PCC3-PoE
Display			
Resolution	1280 x 800	1280 x 800	1024 x 768
Panel Brightness	350 nits	350 nits	250 nits
Contrast Ratio	800 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)
Active Area	220.416 x 129.15	220.416 x 129.15	304.1 x 228.1
Viewing Angle	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (Default) Debian 9.0	Android 7.1 (Default) Debian 9.0	Android 7.1 (Default) Debian 9.0
Connectors			
Power	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	2 x USB 3.0, 1 x USB OTG	2 x USB 3.0, 1 x USB OTG	2 x USB 3.0, 1 x USB OTG
HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
SD Card	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Audio	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
LED Light Bar	1 x Built-in RGB LED light bar	-	-
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	12W	12W	19W
Power over Ethernet	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension	263.28 x 171 x 35.7 mm	263.28 x 171 x 35.7 mm	363.40 x 277.86 x 44.50 mm
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
Options			
RFID/NFC Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP front camera (Optional)	2MP front camera (Optional)	2MP front camera (Optional)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

15"~24" x86 Panel PC

Kaby Lake Series

Custom configuration



Memory



Storage



High Panel
Brightness



AR Glass



Housing



Wide Power



Application



Forklift Operator Terminal

"FLEXIBLE FOR
CUSTOMIZATION."

Winmate's 6 and 10.1" open frame panel PC with anti-vibration design and lockable connectors for forklift solution.

“ VARIOUS MOUNTING SOLUTIONS. ”

- 15"~24" screen with resistive touchscreen
- 7th Gen. Intel® Core™ i7/i5/i3
- Windows 10

Fanless cooling system

Intel® H170 chipset

2.5" HDD500GB

Two M.2 (1 for Wi-Fi, 1 for SSD), PCIe x16

Four USB 3.0

Two RS232/422/485, two RJ45 for Ethernet, HDMI 1.4, DP 1.2

Lockable power connector

Open frame, panel mount, chassis, PCAP chassis, front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

x86 Kaby Lake Panel PC

7th Gen. Intel® Core™ i7/i5/i3



		15"	17"	18.5" (16:9)	19"
Model Name	Open Frame	R15IK7T-OFC3	R17IK7T-OFM1	W18IK7T-OFA2	R19IK7T-OFA1
	Panel Mount	R15IK7T-PMC3	R17IK7T-PMM1	W18IK7T-PMA2	R19IK7T-PMA1
	IP65	R15IK7T-IPC3	R17IK7T-IPM1	W18IK7T-IPA2	R19IK7T-IPA1
	Chassis	R15IK7T-CHC3	R17IK7T-CHM1	W18IK7T-CHA2	R19IK7T-CHA1
Display					
Resolution		1024 x 768	1280 x 1024	1366 x 768	1280 x 1024
Panel Brightness		300 nits	350 nits	250 nits	400 nits
Contrast Ratio		2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle		-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Display Color		16.2M	16.2M	16.7M	16.7M
Touch		5-Wire Resistive touchscreen (Default) AR Glass (Optional)	5-Wire Resistive touchscreen (Default) AR Glass (Optional)	5-Wire Resistive touchscreen (Default) AR Glass (Optional)	5-Wire Resistive touchscreen (Default) AR Glass (Optional)
System					
Processor		Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
Chipset		Intel® H170	Intel® H170	Intel® H170	Intel® H170
Memory		1 x SODIMM, Max. 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB
Ethernet Controller		Intel® I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® 11-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I219-LM
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)
Expansion Slots		2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16
Security Support		TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
OS		Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors					
USB		4 x USB 3.0	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
COM Port		1 x RS232 2 x RS232/422/485 (Default RS232)	1 x RS232 2 x RS232/422/485 (Default RS232)	1 x RS232 2 x RS232/422/485 (Default RS232)	1 x RS232 2 x RS232/422/485 (Default RS232)
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI Port		1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
Display Port		1 x DP 1.2	1 x DP 1.2	1 x DP 1.2	1 x DP 1.2
Audio		Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
DVD Optional		Optional	Optional	Optional	Optional
User Controls					
Control Buttons		Clear CMOS	Clear CMOS	Clear CMOS	Clear CMOS
LED Indicators		Power, HDD	Power, HDD	Power, HDD	Power, HDD
Power					
Power Input		12V DC	12V DC	12V DC	12V DC
Power Consumption		58W	93W	88W	85W
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment					
Operating Temp.		0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications					
Safety		CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 Kaby Lake Panel PC

7th Gen. Intel® Core™ i7/i5/i3



		21.5" (16:9)	23.8" (16:9)	32"
Model Name	Open Frame	W22IK7T-OFA3	W24IK7T-OFA2	
	Panel Mount	W22IK7T-PMA3	W24IK7T-PMA2	
	IP65	W22IK7T-IPA3	W24IK7T-IPA2	
	Chassis	W22IK7T-CHA3	W24IK7T-CHA2	W32IK7T-PCA3
Display				
Resolution		1920 x 1080	1920 x 1080	1920 x 1080
Panel Brightness		250 nits	250 nits	400 nits
Contrast Ratio		3000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle		-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color		16.7M	16.7M	16.7M
Touch		5-Wire Resistive touchscreen (Default), AR Glass (Optional)	5-Wire Resistive touchscreen (Default), AR Glass (Optional)	Projective capacitive
System				
Processor		Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
Chipset		Intel® H170	Intel® H170	Intel® H170
Memory		1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, max. 32GB DDR4 2133 MHz, default 4GB	1 x SODIMM, max. 32GB DDR4 2133 MHz, default 4GB
Ethernet Controller		Intel® 211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® 211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I219-LM
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)
Expansion Slots		2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16
Security Support		TPM 2.0	TPM 2.0	TPM 2.0
OS		Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors				
USB		4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
COM Port		1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI Port		1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
Display Port		1 x DP 1.2	1 x DP 1.2	1 x DP 1.2
Audio		Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
DVD Optional		Yes (Optional)	Yes (Optional)	Yes (Optional)
User Controls				
Control Buttons		Clear CMOS	Clear CMOS	Clear CMOS
LED Indicators		Power, HDD	Power, HDD	Power, HDD
Power				
Power Input		12V DC	12V DC	12V DC
Power Consumption		60W	93W	100W
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment				
Operating Temp.		0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications				
Safety		CE, FCC	CE, FCC	CE, FCC

15"~21.5" x86 Panel PC Haswell Series



“**EFFICIENT SOLUTION.**”

- 15"~21.5" screen
- Intel® Core™ i5-4200M
- Windows 10

Thermal solution with fan

Intel® QM87 chipset

Two mini PCIe (1 for Wi-Fi, 1 for SSD), PCIe x16

Four USB 3.0

Two RS232, RS232/422/485, two RJ45 for Ethernet, VGA, two PS/2

Lockable power connector

Open frame, panel mount, chassis, front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

Custom configuration



Memory



Storage



High Panel
Brightness



AR Glass



Housing

Application



Military Simulation

“FAST AND EFFICIENT
CUSTOMIZATION
SERVICE.”

With several custom modifications Winmate's 8.4" front IP65 panel PC now helps military personnel to get familiar with command tasks and simulate real field environment.

x86 Haswell Panel PC

Intel® Core™ i5-4200M



		15"	15.6" (16:9)	17"
Model Name	Open Frame	R15IH7T-OFC3	W15IH7T-OFA2	R17IH7T-OFM1
	Panel Mount	R15IH7T-PMC3	W15IH7T-PMA2	R17IH7T-PMM1
	IP65	R15IH7T-IPC3	W15IH7T-IPA2	R17IH7T-IPM1
	Chassis	R15IH7T-CHC3	W15IH7T-CHA2	R17IH7T-CHM1
Display				
Resolution		1024 x 768	1366 x 768	1280 x 1024
Panel Brightness		300 nits	400 nits	350 nits
Contrast Ratio		2000 : 1 (Typ.)	500 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle		-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Display Color		16.2M	16.7M	16.2M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
Processor		Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)
Chipset		Intel® QM87	Intel® QM87	Intel® QM87
Memory		1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB
Ethernet Controller		Intel® I211-AT + Intel® Gigabit Ethernet PHY I218-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I218-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I218-LM
BIOS		AMI BIOS	AMI BIOS	AMI BIOS
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		2.5" SSD , 2.5" HDD, mSATA SSD	2.5" SSD, 2.5" HDD, mSATA SSD	2.5" SSD, 2.5" HDD, mSATA SSD
OS		Windows 10 IoT Enterprise Linux	Windows 10 IoT Enterprise Linux	Windows 10 IoT Enterprise Linux
Connectors				
Power		Lockable DC In Power Jack	Lockable DC In Power Jack	Lockable DC In Power Jack
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface		2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB		4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
VGA		1 x VGA	1 x VGA	1 x VGA
Audio		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Keyboard/Mouse		2 x PS/2	2 x PS/2	2 x PS/2
DVD		Yes (Optional)	Yes (Optional)	Yes (Optional)
Power				
Power Input		12V DC	12V DC	12V DC
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment				
Operating Temp.		0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications				
Safety		CE, FCC	CE, FCC	CE, FCC

x86 Haswell Panel PC

Intel® Core™ i5-4200M



		19"	21.5" (16:9)
Model Name	Open Frame	R19IH7T-OFA1	W22IH7T-OFA3
	Panel Mount	R19IH7T-PMA1	W22IH7T-PMA3
	IP65	R19IH7T-IPA1	W22IH7T-IPA3
	Chassis	R19IH7T-CHA1	W22IH7T-CHA3
Display			
Resolution		1280 x 1024	1920 x 1080
Panel Brightness		400 nits	250 nits
Contrast Ratio		1000 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle		-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color		16.7M	16.7M
Touch		Resistive touchscreen	Resistive touchscreen
System			
Processor		Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)
Chipset		Intel® QM87	Intel® QM87
Memory		1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB
Ethernet Controller		Intel® 211-AT + Intel® Gigabit Ethernet PHY I218-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I218-LM
BIOS		AMI BIOS	AMI BIOS
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		2.5" SSD/2.5" HDD/mSATA SSD	2.5" SSD/2.5" HDD/mSATA SSD
OS		Windows 10 IoT Enterprise Linux	Windows 10 IoT Enterprise Linux
Connectors			
Power		Lockable DC In Power Jack	Lockable DC In Power Jack
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface		2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB		4 x USB 3.0	4 x USB 3.0
VGA		1 x VGA	1 x VGA
Audio		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Keyboard/Mouse		2 x PS/2	2 x PS/2
DVD		Yes (Optional)	Yes (Optional)
Power			
Power Input		12V DC	12V DC
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment			
Operating Temp.		0°C to +50°C	0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications			
Safety		CE, FCC	CE, FCC

8.4"~21.5" x86 Fanless Panel PC Bay Trail Series

Custom configuration



Memory



Storage



PCAP
Touchscreen



AR Glass



Housing



Application



Logistics Hub Information Terminal

"WINMATE - FAST
AND EFFICIENT
CUSTOMIZATION
SERVICE."

Winmate's 17" chassis panel
PC and flexibility allow user to
customize their own.

**“ INDUSTRIAL DESIGN.
POWER EFFICIENT CPU. ”**

- 8.4"~21.5" screen
- Intel® Celeron® N2930
- Windows 10/8/7

Fanless cooling system

USB 3.0, USB 2.0

RS232, RS232/422/485, two RJ45 for Ethernet, HDMI 1.4

Open frame, panel mount, chassis, front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

x86 Fanless Panel PC

Intel® Celeron® N2930



		6.5"	7" (16:9)	8.4"	10.1" (16:9)	10.4"
Model Name	Open Frame	R06IB3S-OFA1	W07IB3S-OFT1	R08IB3S-OFU1	W10IB3S-OFH1	R10IB3S-OFT2
	Panel Mount	R06IB3S-CHA1	W07IB3S-PMT1	R08IB3S-PMU1	W10IB3S-PMH1	R10IB3S-PMT2
	IP65	R06IB3S-IPA1	W07IB3S-IPT1	R08IB3S-IPU1	W10IB3S-IPH1	R10IB3S-IPT2
	Chassis	R06IB3S-PMA1	W07IB3S-CHT1	R08IB3S-CHU1	W10IB3S-CHH1	R10IB3S-CHT2
Display						
Resolution		640 x 480	1024 x 600	800 x 600	1024 x 600	1024 x 768
Panel Brightness		700 nits	320 nits	600 nits	450 nits	350 nits
Contrast Ratio		600 : 1 (Typ.)	500: 1 (Typ.)	600: 1 (Typ.)	800: 1 (Typ.)	1000:1 (Typ.)
Viewing Angle		-80~80 (H); -70~70 (V)	-75~75 (H); -75~70 (V)	-75~75 (H); -60~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)
Display Color		16.2M	16.7M	16.2M	16.7M	16.2M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System						
Processor		Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory		SO-DIMM, max. 8GB DDR3L 1600	SO-DIMM, max. 8GB DDR3L 1600	SO-DIMM, max. 8GB DDR3L	SO-DIMM, max. 8GB DDR3L	SO-DIMM, max. 8GB DDR3L
Ethernet Controller		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
BIOS		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
OS		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux
Connectors						
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface		1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB		1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
HDMI		1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Power						
Power Input		12V DC	12V DC	12V DC	12V DC	12V DC
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment						
Operating Temp.		0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications						
Safety		CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 Fanless Panel PC

Intel® Celeron® N2930



Model Name		10.4"	12.1"	15"	15.6" (16:9)	17"
	Open Frame	R10IB3S-OFPP1	R12IB3S-OFM2	R15IB7T-OFM3	W15IB7T-OFM2	R17IB7T-OFM1
	Panel Mount	R10IB3S-PMP1	R12IB3S-PMM2	R15IB7T-PMC3	W15IB7T-PMA2	R17IB7T-PMM1
	IP65	R10IB3S-IPP1	R12IB3S-IPM2	R15IB7T-IPC3	W15IB7T-IPA2	R17IB7T-IPM1
	Chassis	R10IB3S-CHP1	R12IB3S-IPM2	R15IB7T-IPC3	W15IB7T-IPA2	R17IB7T-IPM1
Display						
Resolution		800 x 600	1024 x 768	1024 x 768	1366 x 768	1280 x 1024
Panel Brightness		600 nits	500 nits	300 nits	400 nits	350 nits
Contrast Ratio		400 : 1 (Typ.)	700 : 1 (Typ.)	2000 : 1 (Typ.)	500 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle		-70~70 (H); -70~60 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Display Color		16.2M	16.2M	16.2M	16.7M	16.2M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System						
Processor		Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory		SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM, max. 8GB DDR3L	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB
Ethernet Controller		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
BIOS		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
OS		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux
Connectors						
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface		2 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB		1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
HDMI		1 x HDMI	1 x HDMI	-	-	-
VGA		-	-	1 x VGA	1 x VGA	1 x VGA
Audio		-	-	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Keyboard/Mouse		-	-	2 x PS/2	2 x PS/2	2 x PS/2
Power						
Power Input		12V DC	12V DC	12V DC	12V DC	12V DC
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment						
Operating Temp.		0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications						
Safety		CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 Fanless Panel PC

Intel® Celeron® N2930



		18.5" (16:9)	19"	19"	21.5" (16:9)	23.8" (16:9)
Model Name	Open Frame	W18IB7T-OFA2	R19IB7T-OFM1	R19IB7T-OFA1	W22IB7T-OFA3	W24IB7T-OFA2
	Panel Mount	W18IB7T-PMA2	R19IB7T-PMM1	R19IB7T-PMA1	W22IB7T-PMA3	W24IB7T-PMA2
	IP65	W18IB7T-IPA2	R19IB7T-IPM1	R19IB7T-IPA1	W22IB7T-IPA3	W24IB7T-IPA2
	Chassis	W18IB7T-CHA2	R19IB7T-CHM1	R19IB7T-CHA1	W22IB7T-CHA3	W24IB7T-CHA2
Display						
Resolution		1366 x 768	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness		250 nits	250 nits	400 nits	250 nits	250 nits
Contrast Ratio		1000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle		-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color		16.7M	16.7M	16.7M	16.7M	16.7M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System						
Processor		Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory		SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB
Ethernet Controller		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
BIOS		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		2.5" HDD, mSATA SSD	2.5" HDD, mSATA SSD	2.5" HDD, mSATA SSD	2.5" HDD, mSATA SSD	2.5" HDD, mSATA SSD
OS		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux
Connectors						
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface		1 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB		1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
VGA		1 x VGA	1 x VGA	1 x VGA	1 x VGA	1 x VGA
Audio		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Keyboard/Mouse		2 x PS/2	2 x PS/2	2 x PS/2	2 x PS/2	2 x PS/2
Power						
Power Input		12V DC	12V DC	12V DC	12V DC	12V DC
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment						
Operating Temp.		0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity		10% to 95% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications						
Safety		CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.4"~23.8" x86 Panel PC Ivy Bridge Series

Custom configuration



Memory



Storage



Housing



AR Glass



PCAP
Touchscreen



Application



Payment Machine

"NEW SOLUTION
THROUGH
COLLABORATION."

Self-service solution evolves through collaboration with Winmate, 12" open frame panel PC with touchscreen now serves as a payment terminal.

"DURABLE AND RELIABLE."

- 10.4"~23.8" screen
- 3rd Gen. Intel® Core™ i5
- Windows 10

Thermal solution with fan

Intel® HM76 chipset

Two mini PCIe (1 for Wi-Fi, 1 for SSD), PCIe x16, PCIe x4

Four USB 3.0

Two RS232, RS232/422/485, two RJ45 for Ethernet, VGA, two PS/2

Lockable power connector

Open frame, panel mount, chassis, front IP65

operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

x86 Ivy Bridge Panel PC

3rd Gen. Intel® Core™ i5



		10.4"	12.1"	12.1"
Model Name	Open Frame	R10IV7T-OFT2	R12IV7T-OFL1	R12IV7T-OFM2
	Panel Mount	R10IV7T-PMT2	R12IV7T-PML1	R12IV7T-PMM2
	IP65	R10IV7T-IPT2	R12IV7T-IPL1	R12IV7T-IPM2
	Chassis	R10IV7T-CHT2	R12IV7T-CHL1	R12IV7T-CHM2
Display				
Resolution		1024 x 768	800 x 600	1024 x 768
Panel Brightness		350 nits	450 nits	500 nits
Contrast Ratio		1000 : 1 (Typ.)	700 : 1 (Typ.)	700 : 1 (Typ.)
Viewing Angle		-88~88 (H); -88~88 (V)	-80~80 (H); -75~65 (V)	-80~80 (H); -70~70 (V)
Display Color		16.2M	16.2M	16.2M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
Processor		Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
Chipset		Intel® HM76	Intel® HM76	Intel® HM76
Memory		1 x DDR3L 1333/1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1333/1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1333/1600MHz SO-DIMM, max. 8GB
Ethernet Controller		Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE
BIOS		AMI BIOS	AMI BIOS	AMI BIOS
I/O Chipset		Winbond W83628UHG	Winbond W83628UHG	Winbond W83628UHG
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		2.5" HDD / 2.5" SSD/mSATA SSD	2.5" HDD / 2.5" SSD/mSATA SSD	2.5" HDD / 2.5" SSD/mSATA SSD
OS		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux
Connectors				
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface		2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB		4 x USB3.0	4 x USB 3.0	4 x USB3.0
VGA		1 x VGA	1 x VGA	1 x VGA
Audio		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Keyboard/Mouse		2 x PS/2	2 x PS/2	2 x PS/2
Other		1 x VR knob	1 x VR knob	1 x VR knob
Power				
Power Input		12V DC	12V DC	12V DC
Power Adaptor		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment				
Operating Temp.		0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications				
Safety		CE, FCC	CE, FCC	CE, FCC

x86 Ivy Bridge Panel PC

3rd Gen. Intel® Core™ i5



		15"	17"	19"
Model Name	Open Frame	R15IV7T-OFC3	R17IV7T-OFM1	R19IV7T-OFM1
	Panel Mount	R15IV7T-PMC3	R17IV7T-PMM1	R19IV7T-PMM1
	IP65	R15IV7T-IPC3	R17IV7T-IPM1	R19IV7T-IPM1
	Chassis	R15IV7T-CHC3	R17IV7T-CHM1	R19IV7T-CHM1
Display				
Resolution		1024 x 768	1280 x 1024	1280 x 1024
Panel Brightness		300 nits	350 nits	250 nits
Contrast Ratio		2000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)
Viewing Angle		-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Display Color		16.2M	16.2M	16.7M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
Processor		Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
Chipset		Intel® HM76	Intel® HM76	Intel® HM76
Memory		1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB
Ethernet Controller		Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE
BIOS		AMI BIOS	AMI BIOS	AMI BIOS
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		2.5" HDD/2.5" SSD/mSATA SSD	2.5" HDD/2.5" SSD/mSATA SSD	2.5" HDD/2.5" SSD/mSATA SSD
OS		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux
Connectors				
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface		2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB		4 x USB3.0	4 x USB3.0	4 x USB3.0
VGA		1 x VGA	1 x VGA	1 x VGA
Audio		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Keyboard/Mouse		2 x PS/2	2 x PS/2	2 x PS/2
VR Knob		1 x VR knob	1 x VR knob	1 x VR knob
DVD		Yes (Optional)	Yes (Optional)	Yes (Optional)
Power				
Power Input		12V DC	12V DC	12V DC
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment				
Operating Temp.		0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications				
Safety		CE, FCC	CE, FCC	CE, FCC

x86 Ivy Bridge Panel PC

3rd Gen. Intel® Core™ i5



		19"	21.5" (16:9)	24" (16:9)
Model Name	Open Frame	R19IV7T-OFA1	W22IV7T-OFA3	W24IV7T-OFA2
	Panel Mount	R19IV7T-PMA1	W22IV7T-PMA3	
	IP65	R19IV7T-IPA1	W22IV7T-IPA3	W24IV7T-IPA2
	Chassis	R19IV7T-CHA1	W22IV7T-CHA3	
Display				
Resolution		1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness		400 nits	250 nits	250 nits
Contrast Ratio		1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle		-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color		16.7M	16.7M	16.7M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
Processor		Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
Chipset		Intel® HM76	Intel® HM76	Intel® HM76
Memory		1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB
Ethernet Controller		Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE
BIOS		AMI BIOS	AMI BIOS	AMI BIOS
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		2.5" HDD/2.5" SSD/mSATA SSD	2.5" HDD/2.5" SSD/mSATA SSD	2.5" HDD/2.5" SSD/mSATA SSD
OS		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux
Connectors				
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface		2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB		4 x USB3.0	4 x USB3.0	4 x USB3.0
VGA		1 x VGA	1 x VGA	1 x VGA
Audio		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Keyboard/Mouse		2 x PS/2	2 x PS/2	2 x PS/2
VR Knob		1 x VR knob	1 x VR knob	1 x VR knob
DVD		Yes (Optional)	Yes (Optional)	Yes (Optional)
Power				
Power Input		12V DC	12V DC	12V DC
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment				
Operating Temp.		0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications				
Safety		CE, FCC	CE, FCC	CE, FCC

5.7"~19" Arm Panel PC

Arm Series

Custom configuration



Memory



CPU



PoE



Housing



Application



Machine Controller

"LINUX OS FOR DEMANDING CUSTOM APPLICATIONS."

When the application requires a unique software solution, HMI with open Linux system is the choice of developers.

“CUSTOM OS IMAGE.”

- 5.7"~19" screen with resistive touchscreen
- Arm Cortex-A9
- Android 6.0
- Linux 4.1.15, QT 5.5
- Ubuntu 16.04

Fanless cooling system

16GB eMMC, micro SD card slot

USB 2.0, USB OTG

RS232/422/485, RJ45 for Ethernet, CANBus, micro HDMI

Lockable power connector

Open frame, front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

Arm Panel PC

Arm Cortex-A9



		5.7"	7" (16:9)	10.1" (16:9)
Model Name	IP65	R05FA3S-IPD1HM(HB)	W07FA3S-IPA3HM	W10FA3S-IPH1HM
	Open Frame	R05FA3S-OFD1HM(HB)	W07FA3S-OFA3HM	W10FA3S-OFH1HM
Display				
Resolution		640 x 480	1024 x 600	1024 x 600
Panel Brightness		900 nits	250 nits	200 nits
Contrast Ratio		300 : 1 (Typ.)	700 : 1 (Typ.)	500 : 1 (Typ.)
Active Area		115.2 x 86.4	153.6 x 90.0	220.4 x 129.1
Viewing Angle		-70~70 (H); -40~60 (V)	-75~75 (H); -75~70 (V)	-70~70 (H); -50~60 (V)
Display Color		262K	262K	262K
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
Processor		Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Storage		Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
Memory		1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
OS		Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)	Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)	Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)
Connectors				
Serial Interface		1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)
USB		1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
SD Card Slot		1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
HDMI		1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
Micro USB		1 x USB OTG	1 x USB OTG	1 x USB OTG
Power		Phoenix type 1 x 2pin Terminal Block	Phoenix type 1 x 2pin Terminal Block	Phoenix type 1 x 2pin Terminal Block
Ethernet		1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Power				
Power Input		12V DC	12V DC	12V DC
Power Consumption		15W	15W	16W
Power over Ethernet (PoE)		PoE require IEEE 802.3at 25W	PoE require IEEE 802.3at 25W	PoE require IEEE 802.3at 25W
Mechanical				
Dimension		160 x 129.6 x 54 mm	218 x 164.6 x 60.8 mm	286 x 182 x 49.5 mm
Cooling System		Fanless	Fanless	Fanless
Environment				
Operating Temp.		-0°C to +50°C	-0°C to +50°C	-0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating		Front IP65	Front IP65	Front IP65
Certifications				
Safety		CE, FCC	CE, FCC	CE, FCC

Arm Panel PC

Arm Cortex-A9



		15"	19"
Model Name	IP65	R15FA3S-IPC3HM	R19FA3S-IPM1HM
	Open Frame	R15FA3S-OFC3HM	R19FA3S-OFM1HM
Display			
Resolution		1024 x 768	1280 x 1024
Panel Brightness		250 nits	250 nits
Contrast Ratio		700 : 1 (Typ.)	1000 : 1 (Typ.)
Active Area		304.1 x 228.1	376.3 x 301.0
Viewing Angle		-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)
Display Color		1 6.2M	16.7M
Touch		Resistive touchscreen	Resistive touchscreen
System			
Processor		Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Storage		Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
Memory		1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
OS		Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)	Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)
Connectors			
Serial Interface		1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)
USB		1 x USB 2.0	1 x USB 2.0
SD Card Slot		1 x Micro SD Card Slot	1 x Micro SD Card Slot
HDMI		1 x Micro HDMI	1 x Micro HDMI
Micro USB		1 x USB OTG	1 x USB OTG
Power		1 x 2pin Terminal Block	1 x 2pin Terminal Block
Ethernet		1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
Power			
Power Input		12V DC	12V DC
Power Consumption		18W	20W
Power over Ethernet (PoE)		12V DC PoE require IEEE 802.3at 25W	12V DC PoE require IEEE 802.3at 25W
Power Adapter AC		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension		400 x 320 x 59 mm	474 x 383.9 x 71.4 mm
Cooling System		Fanless	Fanless
Environment			
Operating Temp.		0°C to +50°C	0°C to +50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating		Front IP65	Front IP65
Certifications			
Safety		CE, FCC	CE, FCC

15"~21.5" x86 Application-Ready Panel PC

PCI Slot Series



“ **CONNECTION TO CUSTOM
PERIPHERALS WITH PCI SLOT.** ”

- 15"~21.5" screen with resistive touchscreen
- Intel® Core™ i5
- Windows 10

Thermal solution with fan

Intel® HM76 chipset

Expansion slot PCI

Four USB 3.0

Two RS232, RS232/422/485, Two RJ45 for Ethernet, VGA, Two RS/2

Lockable power connector

Open frame, panel mount

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

Custom configuration



Memory



Storage



Housing



PCIe



AR Glass



PCAP
Touchscreen

Application



Assembly Line

“BRING EFFICIENCY TO
PRODUCTION.”

Panel PC with PCI slot allow
sprovide an uncomplicated
connection to a number of
custom peripherals on the
factory floor.

x86 PCI Slot Application-Ready Panel PC

3rd Gen. Intel® Core™ i5



		15"	17"	19"	21.5" (16:9)
Model Name	Panel Mount	R15IV7T-PMC3PS	R17IV7T-PMM1PS	R19IV7T-PMM1PS	W22IV7T-PMA3PS
	Open Frame	R15IV7T-OFC3PS	R17IV7T-OFM1PS	R19IV7T-OFM1PS	W22IV7T-OFA3PS
Display					
Resolution		1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness		300 nits	350 nits	250 nits	250 nits
Contrast Ratio		2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle		-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color		16.2M	16.2M	16.7M	16.7M
System					
Processor		Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
Chipset		Intel® HM76	Intel® HM76	Intel® HM76	Intel® HM76
Memory		1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB
Ethernet Controller		Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE
Storage		2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
BIOS		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
OS		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7
Connectors					
Audio		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Serial		2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
VGA		1 x VGA	1 x VGA	1 x VGA	1 x VGA
USB		4 x USB3.0	4 x USB3.0	4 x USB3.0	4 x USB3.0
LAN		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Keyboard/Mouse		2 x PS/2	2 x PS/2	2 x PS/2	2 x PS/2
Environment					
Operating Temp.		0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications					
Safety		CE, FCC	CE, FCC	CE, FCC	CE, FCC

15"~19" x86 Application-Ready Panel PC

Rack Mount Series



“ **DESIGNED FOR
RACK MOUNT CABINETS.** ”

- 15"~19" screen
- Intel® Core™ i5
- Intel® Celeron® N2930
- Windows 10
- Linux

Thermal solution with fan

Intel® HM76 chipset

Panel Brightness adjustment knob

Four USB 3.0

Two RS232, RS232/422/485, Two RJ45 for Ethernet, VGA, Two PS/2

Rack mount

Operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

Custom configuration



Memory



Storage



DVD



PCAP
Touchscreen



AR Glass

Application



Server Room

“LARGE SCREEN TO
MONITOR AND CONTROL
SERVER CABINET.”

19" rack mount panel PC in a
rack mount housing fits in to a
server cabinets.

x86 Rack Mount Application-Ready Panel PC

3rd Gen. Intel® Core™ i5



Model Name	15"	17"	19"
	R15IV7T-RKC3	R17IV7T-RKM1	R19IV7T-RKM1
Display			
Resolution	1024 x 768	1280 x 1024	1280 x 1024
Panel Brightness	300 nits	350 nits	250 nits
Contrast Ratio	2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Display Color	16.2M	16.2M	16.7M
Touch	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System			
Processor	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
Chipset	Intel® HM76	Intel® HM76	Intel® HM76
Memory	1 x DDR3L 1333/1600MHz SO-DIMM, max.8GB	1 x DDR3L 1333/1600MHz SO-DIMM, max.8GB	1 x DDR3L 1333/1600MHz SO-DIMM, max.8GB
Ethernet Controller	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux
Connectors			
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
VGA	1 x VGA (Female)	1 x VGA (Female)	1 x VGA (Female)
Audio	Line-out, Line-in, Mic-in	Line-out, Line-in, Mic-in	Line-out, Line-in, Mic-in
Keyboard/Mouse	2 x PS/2	2 x PS/2	2 x PS/2
DVD	Optional	Optional	Optional
Power			
Power Input	12V DC	12V DC	12V DC
Power Adaptor	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Mechanical			
Dimension	482 x 310 x 75.8 mm	482.6 x 399 x 92 mm	482 x 399 x 90 mm
Environment			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 Rack Mount Application-Ready Panel PC

Intel® Celeron® N2930



Model Name	15"	17"	19"
	R15IB7T-RKC3	R17IB7T-RKM1	R19IB7T-RKM1
Display			
Resolution	1024 x 768	1280 x 1024	1280 x 1024
Panel Brightness	300 nits	350 nits	250 nits
Contrast Ratio	2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Display Color	16.2M	16.2M	16.7M
Touch	5 Wire Resistive touchscreen (Optional)	5 Wire Resistive touchscreen (Optional)	5 Wire Resistive touchscreen (Optional)
System			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB
Ethernet Controller	Intel I210-AT GbE LAN	Intel I210-AT GbE LAN	Intel I210-AT GbE LAN
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
SATA	2 x SATA	2 x SATA	2 x SATA
Storage	2.5" HDD/2.5" SSD/mSATA	2.5" HDD/2.5" SSD/mSATA	2.5" HDD/2.5" SSD/mSATA
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Other	2 x Mini PCIe (1 for WiFi, 1 for 3G Module)	2 x Mini PCIe (1 for WiFi, 1 for 3G Module)	2 x Mini PCIe (1 for WiFi, 1 for 3G Module)
Connectors			
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
VGA	1 x VGA (Female)	1 x VGA (Female)	1 x VGA (Female)
Audio	Line-out, Line-in, Mic-in	Line-out, Line-in, Mic-in	Line-out, Line-in, Mic-in
Keyboard/Mouse	2 x PS/2	2 x PS/2	2 x PS/2
DVD	Optional	Optional	Optional
Power			
Power Input	12V DC	12V DC	12V DC
Power Adaptor	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Mechanical			
Dimension	482 x 310 x 75.8 mm	482.6 x 399 x 92 mm	482 x 399 x 90 mm
Environment			
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

7"~23.8" x86 G-WIN Panel PC

G-WIN GC Series

NEW



Custom configuration



Wide Power

Application



Soybeans Harvester

"ULTIMATE IMAGES.
COMPACT FORM-
FACTOR."

Winmate 7" GC Series Display combines with customer's box computer helps to monitor field status and show optimal harvesting route to the farmer.

“SEMI-RUGGED SOLUTION.”

- 7"~23.8" PCAP touchscreen
- 7th Gen. Intel® Core™ i7/i5/i3
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

True flat, easy-to-clean front surface with edge-to-edge design

Fanless cooling system

Ultra low power consumption

Panel mount, VESA mount, standalone

Front IP65 waterproof and dustproof

Accessories

RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

x86 G-WIN GC Series Panel PC

Intel® Core™ i5-7200U



Model Name	12.1"	15"	19"
	R12IK3S-GCM2	R15IK3S-GCC3	R19IK3S-GCM1
Display			
Resolution	1024 x 768	1024 x 768	1280 x 1024
Panel Brightness	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)	250 nits
Contrast Ratio	1000:1 (Typ.)	700:1 (Typ.)	1000 : 1 (typ.)
Viewing Angle	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)	-85~85(H);-80~80(V)
Display Color	16.2M	16.2M	16.7M
System			
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	2GB DDR4-2133 SODIMM	2GB DDR4-2133 SODIMM	4GB DDR4-2133 (Max to 16GB)
Storage	64GB M.2 SSD (up to 256GB)	64GB M.2 SSD (up to 256GB)	64GB M.2 SSD (up to 256GB)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors			
USB Port	2 x USB3.0	2 x USB3.0	2 x USB3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485(Default RS232)
HDMI	1 x HDMI 1.4a	1 x HDMI 1.4a	1 x HDMI 1.4a
Audio			
Speaker	1 x 2 Watt Speaker	1 x 2 Watt Speaker	-
Mechanical			
Dimensions	296.2 x 226.7 x 45.5 mm	254.2 x 198 x 36.4 mm	444 x 368 x 51 mm
Cooling System	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (100 x 100 mm)
Operating Temp.	-15°C to 55°C	-15°C to 55°C	0°C to 55°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Power			
Power Input	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 G-WIN GC Series Panel PC

Intel® Core™ i5-7200U
7th Gen. Intel® Core™ i7/i5/i3

NEW



NEW



NEW



NEW



Model Name	21.5" (16:9) W22IK3S-GCA3	21.5" (16:9) W22IK7T-GCA3	23.8" (16:9) W24IK3S-GCA2	23.8" (16:9) W24IK7T-GCA2
Display				
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	250 nits	250 nits	250 nits
Contrast Ratio	3000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
System				
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
Memory	4GB DDR4-2133 (Max to 16GB)	1 x SO-DIMM, Max 16Gb DDR4 2400 MHz (default 4G)	4GB DDR4-2133 (Max to 16GB)	1 x SO-DIMM, Max 16Gb DDR4 2400 MHz (default 4G)
Storage	64GB M.2 SSD (up to 256GB)	1 x M.2 SSD, Max 256GB 1 x 2.5" 500GB HDD (default)	64GB M.2 SSD (up to 256GB)	1 x M.2 SSD, Max 256GB 1 x 2.5" 500GB HDD (default)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors				
USB Port	2 x USB3.0	4 x USB 3.0	2 x USB3.0	4 x USB 3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
HDMI	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
Mechanical				
Dimensions	529 x 320.4 x 50 mm	529 x 322 x 71 mm	587 x 356 x 55 mm	587 x 356 x 75 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (100 x 100 mm), Panel Mount	VESA Mount (75 x 75, 100 x 100mm), Panel Mount	VESA Mount (100 x 100mm), Panel Mount	VESA Mount (100 x 100mm), Panel Mount
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Power				
Power Input	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 G-WIN GC Series Panel PC

Intel® Celeron® N2930



Model Name	7" (16:9)	10.1" (16:9)	10.4"	12.1"	15"
	W07IB3S-GCO1	W10IB3S-GCH1	R10IB3S-GCT2	R12IB3S-GCM2	R15IB3S-GCC3
Display					
Resolution	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
Contrast Ratio	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	153.6 x 90.0	222.72 x 125.28	210.4 x 157.8	245.76 x 184.32	304.1 x 228.1
Viewing Angle	-75~75(H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
Display Color	16.2M	16.7M	16.2M	16.2M	16.2M
System					
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	2GB DDR3L-1600 SODIMM max 8GB	2GB DDR3L-1600 SODIMM max 8GB	2GB DDR3L-1600 SODIMM max 8GB	2GB DDR3L-1600 SODIMM max 8GB	2GB DDR3L-1600 SODIMM max 8GB
Storage	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors					
USB Port	1 x USB3.0, 1 x USB2.0	1 x USB3.0, 1 x USB2.0	1 x USB3.0, 1 x USB2.0	1 x USB3.0, 1 x USB2.0	1 x USB3.0, 1 x USB2.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 2 Watt Speaker	1 x 2 Watt Speaker
Mechanical					
Dimensions	189.4 x 145.4 x 39.8 mm	263.28 x 172 x 40.2 mm	252.4 x 198 x 36.4 mm	296.2 x 226.7 x 45.5 mm	363.4 x 227.8 x 44.5 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75mm), Panel Mount	VESA Mount (75 x 75mm), Panel Mount	VESA Mount (100 x 100 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75mm), Panel Mount
Power					
Power Input	12V DC	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 G-WIN GC Series Panel PC

Intel® Celeron® N2930



Model Name	19"	19"	21.5" (16:9)	21.5" (16:9)
	R19IB3S-GCM1	R19IB7T-GCM1	W22IB3S-GCA3	W22IB7T-GCA3
Display				
Resolution	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	250 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-85~85 (H);-80~80 (V)	-85~85 (H);-80~80 (V)	-89~89 (H);-89~89 (V)	-89~89 (H);-89~89 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	4GB DDR3L-1600 GHz max 8GB	SO-DIMM DDR3L 1600, max. 8GB	4GB DDR3L-1600 GHz max 8GB	SO-DIMM DDR3L 1600, max. 8GB
Storage	64GB M.2 SSD	mSATA SSD 64GB (Default)	64GB M.2 SSD	mSATA SSD 64GB (Default)
OS	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System
Connectors				
USB Port	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM Port	1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
HDMI	1 x HDMI (HDMI 1.4)	-	1 x HDMI (HDMI 1.4)	-
VGA	-	1 x VGA (female)	-	1 x VGA (female)
Audio	-	Line-out, Line-in, Mic-in	-	Line-out, Line-in, Mic-in
Mechanical				
Dimensions	444 x 368 x 51 mm	444 x 368 x 71 mm	529 x 320.4 x 50 mm	529 x 320.4 x 71 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (75 x75, 100 x 100 mm)	VESA Mount (100 x 100mm), Panel Mount	VESA Mount (75 x75, 100 x 100 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 G-WIN GC Series Panel PC

Intel® Celeron® N2930



Model Name	23.8" (16:9)	23.8" (16:9)
	W24IB3S-GCA2	W24IB7T-GCA2
Display		
Resolution	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	250 nits
Contrast Ratio	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M
System		
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	4GB DDR3L-1600 GHz max 8GB	SODIMM DDR3L 1600, max. 8GB
Storage	64GB M.2 SSD	mSATA SSD 64GB (Default)
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors		
USB Port	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
HDMI	1 x HDMI (HDMI 1.4)	1 x HDMI (HDMI 1.4)
Mechanical		
Dimensions	587 x 356 x 55 mm	587 x 356 x 55 mm
Cooling System	Fanless design	Fanless design
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)
Operating Temp.	0 °C to 50 °C	0 °C to 50 °C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Power		
Power Input	12V DC	12V DC
Certifications		
Safety	CE, FCC	CE, FCC

Custom configuration



Wide Power

Application



Harvesting Equipment

"HIGH PERFORMANCE
IN A COMPACT FORM
FACTOR."

The GC series comes with brilliant true-flat screens for superior readability and high computing performance for helping the driver to monitor field status and show optimal harvesting route.

7~15" Arm G-WIN Panel PC G-WIN GC Series

NEW



“ELEGANT, YET TOUGH.”

- 7~15" PCAP touchscreen
- Arm Cortex-A9
- Arm Cortex-A72 + Arm Cortex-A53
- Android 6.0

True flat, easy-to-clean front surface with edge-to-edge design

Fanless cooling system

Ultra low power consumption

Front IP65 waterproof and dustproof

Accessories

RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

Arm G-WIN GC Series Panel PC

Arm Cortex-A9



Model Name	7" (16:9)	10.1" (16:9)	10.4"	12.1"	15"
	W07FA3S-GCO1	W10FA3S-GCH1	R10FA3S-GCT2	R12FA3S-GCM2	R15FA3S-GCC3
Display					
Resolution	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
Contrast Ratio	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	153.6x 90.0	222.72x 125.28	210.4 x 157.8	245.76 x 184.32	210.4 x 157.8
Viewing Angle	-75~75 (H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.2M	16.2M	16.2M
System					
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0	Android 6.0	Android 6.0	Android 6.0	Android 6.0
Connectors					
USB Port	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)
Ethernet	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
COM Port	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 2 Watt Speaker	1 x 2 Watt Speaker
Mechanical					
Dimensions	189.4 x 145.4 x 39.8 mm	263.48 x 172 x 40.2 mm	252.4 x 198 x 36.4 mm	296.2 x 226.7 x 45.5 mm	363.4 x 277.8 x 44.5 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Power					
Power Input	9~24V DC	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Arm G-WIN GC Series Panel PC

Arm Cortex-A72 + Arm Cortex-A53



Model Name	7" (16:9)	7" (16:9)	10.1" (16:9)	10.4"
	W07RK3S-GCT1	W07RK3S-GCO1	W10RK3S-GCH1	R10RK3S-GCT2
Display				
Resolution	1024 x 600	1024 x 600	1024 x 600	1024 x 768
Panel Brightness	320 nits	1000 nits	450 nits	300 nits
Contrast Ratio	500:1 (Typ.)	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)
Viewing Angle	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.7M	16.2M
System				
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3	2GB LPDDR3	2GB LPDDR3	2GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (Default)	Android 7.1 (Default)	Android 7.1 (Default)	Android 7.1 (Default)
Connectors				
USB Port	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE functio	1 x RJ45 10/100/1000 LAN Support PoE functio	1 x RJ45 10/100/1000 LAN Support PoE functio	1 x RJ45 10/100/1000 LAN Support PoE functio
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
Mechanical				
Dimensions	189.4 x 145.4 x 39.8 mm	189.4 x 145.4 x 39.8 mm	263.28 x 172 x 40.2 mm	252.4 x 198 x 36.4 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Power				
Power Input	9~24V DC	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Arm G-WIN GC Series Panel PC

Arm Cortex-A72 + Arm Cortex-A53



Model Name	12.1"	15"
	R12RK3S-GCM2	R15RK3S-GCC3
Display		
Resolution	1024 x 768	1024 x 768
Panel Brightness	500 nits	1000 nits
Contrast Ratio	700:1 (Typ.)	2000:1 (Typ.)
Viewing Angle	-80~80 (H);-70~70 (V)	-88~88 (H);-88~88 (V)
Display Color	16.2M	16.2M
System		
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3	2GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (default)	Android 7.1 (default)
Connectors		
USB Port	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE functio	1 x RJ45 10/100/1000 LAN Support PoE functio
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
HDMI	1 x Micro HDMI	1 x Micro HDMI
Mechanical		
Dimensions	296.2 x 226.7 x 45.5 mm	363.4 x 277.8 x 44.5 mm
Cooling System	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Power		
Power Input	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications		
Safety	CE, FCC	CE, FCC

Custom configuration



Wide Power

Application



Wood Harvester

"FOR DEMANDING LOGGING CONDITIONS."

Winmate 10.4" GS Series Panel PC was installed inside a wood harvester. G-WIN panel PC designed for demanding conditions survives both water drops and temperature changes.

10.1"~15" x86 G-WIN Panel PC G-WIN GS Series



**“TOUGH. RUGGED.
HEAVY DUTY.”**

- 10.1"~15" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

M12 waterproof connectors

Tested MIL-STD 810-G, MIL-STD 461-F

Mounting solution for vehicle applications

Power ignition control

Full IP65 waterproof and dust proof

Wide operating temperature

Accessories

RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

x86 G-WIN GS Series Panel PC

Intel® Celeron® N2930



Model Name	10.1" (16:9)	10.4"	12.1"	15"
	W10IB3S-GSH1	R10IB3S-GST2	R12IB3S-GSM2	R15IB3S-GSC3
Display				
Resolution	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (optional 1000 nits)	250 nits (optional 1000 nits)
Contrast Ratio	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	222.72x 125.28	210.4 x 157.8	245.16 x 184.32	304.1 x 228.1
Viewing Angle	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.2M	16.2M	16.2M
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)
Storage	64GB mSATA SSD max. 512GB	64GB mSATA SSD max. 512GB	64GB mSATA SSD max. 512GB	mSATA SSD 64GB max. 512GB
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors				
USB	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)
Ethernet	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)
COM	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)
Power	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)
Audio				
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
Mechanical				
Dimensions	263.28 x 172 x 35.7 mm	252.4 x 198 x 43 mm	296.2 x 226.7 x 45.5 mm	363.40 x 277.81 x 45.2 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Power				
Power Input	9~36V DC (M12 type)	9~36V DC (M12 type)	9~36V DC (M12 type)	9~36V DC (M12 type)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Arm G-WIN Panel PC

G-WIN GS Series

Custom configuration



Wide Power



Application



Straw Collector

"INTERACTIVE AND
SMART TERMINAL FOR
HEAVY-DUTY VEHICLE
USE"

Tailored for those who are in demand of excellent in-vehicle computing systems operated in rugged environments that experience shock and vibration.

“ **SATISFY YOUR
HEAVY-DUTY NEEDS.** ”

- 7"~15" PCAP touchscreen
- Arm Cortex-A9
- Android

M12 waterproof connectors

Tested MIL-STD-810G, MIL-STD-461F

Mounting solution for vehicle applications

Power ignition control

Full IP65 waterproof and dust proof

Wide operating temperature

Accessories

RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

Arm G-WIN GS Series Panel PC

Arm Cortex-A9



Model Name	7" (16:9) W07FA3S-GSO1	10.1" (16:9) W10FA3S-GSH1	10.4" R10FA3S-GST2	12.1" R12FA3S-GSM2	15" R15FA3S-GSC3
Display					
Resolution	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
Contrast Ratio	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	153.6 x 90.0	222.72 x 125.28	210.4 x 157.8	245.16 x 184.32	304.1 x 228.1
Viewing Angle	-75~75 (H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.2M	16.2M	16.2M
System					
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)
Connectors					
USB	1 X USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On Bottom)
Ethernet	1 x 10/100/1000 LAN (M12 type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 Mbps (LAN)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)
COM	1 x RS232 (M12 type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Power	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)
Audio					
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
Mechanical					
Dimensions	189.4 x 145.4 x 39.8 mm	263.28 x 171 x 35.7 mm	252.4 x 198 x 43 mm	296.2 x 226.7 x 45.5 mm	363.4 x 277.8 x 45.2 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (100 x 100 mm), Panel Mount
Operating Temp	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Power					
Power Input	9~24V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

8.4"~19" x86 G-WIN Panel PC

G-WIN VM Series

Custom configuration



Wide Power



Application



Firefighter Truck

"DURABLE IN-VEHICLE
COMPUTER."

Winmate 15" panel
PC was installed inside a
firefighter truck for navigation
purposes.

**“TOUGH. RUGGED.
HEAVY DUTY.”**

- 8.4"~19" screen
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

Tested MIL-STD-810G, MIL-STD-461F

Compliance with EN50155

Mounting solution for vehicle applications

Power ignition control

Wide operating temperature

Accessories

RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

x86 G-WIN VM Series Panel PC

Intel® Core™ i5-7200U



Model Name	10.4"	15"
	R10IK3S-VMT2	R15IK3S-VMC3(HB)
Display		
Resolution	1024 x 768	1024 x 768
Brightness	350 nits	300 nits (Optional 1000 nits High Brightness)
Contrast Ratio	1000 :1 (Typ.)	2000:1 (Typ.)
Active Area	201.4 x 157.8	304.128 x 228.096
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)
Display Color	16.2M	16.2M
System		
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS	Insyde BIOS
Memory	1 x DDR4 2133 MHz SO-DIMM (Default 4GB, max. 16GB)	1 x DDR4 2133 MHz SO-DIMM (Default 4GB, max. 16GB)
Storage	M.2 SSD (Default 64GB, max.512GB)	M.2 SSD (Default 64GB, max.512GB)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors		
Serial Interface	1 x RS232, 1 x RS232/422/485 (Default RS232)	1 x RS232, 1 x RS232 (Optional) 1 x RS232/422/485 (Default RS232)
USB	2 x USB 3.0	2 x USB 3.0
LAN	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Power	1 x DC-in Jack (Phoenix type)	1 x Terminal Block
HDMI	1 x HDMI	1 x HDMI
CANBus	-	1 x CANBus (Optional)
Digital I/O	-	1 x Digital I/O (Optional)
Antenna	WLAN antenna SMA in top (Optional)	WLAN antenna SMA in top (Optional)
Power		
Power Input	9~36V DC (Phoenix type) with Isolation Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) with Isolation Optional 6~60V DC, with Ignition On/Off delay
Certifications		
Safety	CE, FCC	CE, FCC

x86 G-WIN VM Series Panel PC

Intel® Celeron® N2930



Model Name	8.4"	10.4"	10.4"	10.4"
	R08IB3S-VMU1	R10IB3S-VMP1	R10IB3S-VMP3	R10IB3S-VMT2
Display				
Resolution	800 x 600	800 x 600	640 x 480	1024 x 768
Brightness	600 nits	600 nits	400 nits	350 nits
Contrast Ratio	600:1 (Typ.)	400:1 (Typ.)	700:1 (Typ.)	1000:1 (Typ.)
Active Area	170.4 x 127.8	211.2 x 158.4	211.2 x 158.4	201.4 x 157.8
Viewing Angle	-75~75 (H); -70~60 (V)	-70~70 (H); -70~60 (V)	-80~80 (H); -60~80 (V)	-88~88 (H); -88~88 (V)
Display Color	262K	16.2M	16.2M	16.2M
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x DDR3L 1600 MHz SO-DIMM max. 8GB	1 x DDR3L 1600 MHz SO-DIMM max. 8GB	1 x DDR3L 1600 MHz SO-DIMM max. 8GB	1 x DDR3L 1600 MHz SO-DIMM max. 8GB
Ethernet	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN
Storage	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB
Expansion Slot	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors				
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Power	1 x DC-in Jack (Phoenix type)	1 x DC-in Jack (Phoenix type)	1 x DC-in Jack (Phoenix type)	1 x DC-in Jack (Phoenix type)
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Antenna	1 x WLAN antenna SMA on top (Optional)	1 x WLAN antenna SMA on top (Optional)	1 x WLAN antenna SMA on top (Optional)	1 x WLAN antenna SMA on top (Optional)
Power				
Power Input	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 G-WIN VM Series Panel PC

Intel® Celeron® N2930



Model Name	12.1" (16:10)	15"
	W12IB3S-VMM9	R15IB3S-VMC3(HB)
Display		
Resolution	1280 x 800	1024 x 768
Brightness	400 nits	300 nits (Optional 1000 nits High Brightness)
Contrast Ratio	1000:1 (Typ.)	2000:1 (Typ.)
Active Area	261.12 x 163.2	304.1 x 228.1
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)
Display Color	262K	16.2M
System		
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS
Memory	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB
Storage	mSATA SSD default 64GB (Max. 512GB)	mSATA SSD default 64GB (Max. 512GB)
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors		
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232, 1 x RS232 (Optional), 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 (10/100/1000 Mbps)	2 x RJ45 (10/100/1000 Mbps)
Power	1 x Terminal Block	1 x Terminal Block
HDMI	1 x HDMI	1 x HDMI
CANBus	-	1 x CANBus (Optional)
Digital I/O	-	1 x Digital I/O (Optional)
Antenna	1 x WLAN or 4G Antenna in top (Optional)	1 x WLAN or 4G Antenna in top (Optional)
Power		
Power Input	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications		
Safety	CE, FCC	CE, FCC

15"/19" x86 G-WIN Panel PC

G-WIN IP67 Series

Custom configuration



High
Brightness



Wide Power



Application



Mining Crane Automation

"WITHSTAND EXTREME
COLD TEMPERATURES."

Winmate 19" panel
PC R19IB3S-67FTP with high
brightness screen and heater
was installed inside a
mining crane for monitoring
precise pick-up and drop-off
location.

“WATER AND DUST PROOF.”

- 15"/19" screen
- Intel® Core™ i5-7200U
- Windows 10

Tested MIL-STD-810G, MIL-STD-461F

Magnesium alloy housing with anti-corrosion

Mounting solution for vehicle applications

Power ignition control

IP67 waterproof and dustproof

Wide operating temperature

Accessories

RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

x86 G-WIN IP67 Series Panel PC

Intel® Core™ i5-7200U



Model Name	15" (IP67)	19" (IP67)	15" (IP67)	19" (IP67)
	R15IK3S-67C3(HB)	R19IK3S-67FTP(HB)	R15IB3S-67C3(HB)	R19IB3S-67FTP(HB)
Display				
Resolution	1024 x 768	1280 x 1024	1024 x 768	1280 x 1024
Panel Brightness	300 nits (Optional 1000 nits High Brightness)	400 nits (Optional 1000 nits High Brightness)	300 nits (Optional 1000 nits High Brightness)	400 nits (Optional 1000 nits High Brightness)
Contrast Ratio	2000:1 (Typ.)	1000 : 1 (Typ.)	2000:1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)
Display Color	16.2M	16.7M	16.2M	16.7M
Touch	5 Wire Resistive touchscreen	PCAP touchscreen	5 Wire Resistive touchscreen	PCAP touchscreen
System				
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	1 x DDR4 2133 MHz SO-DIMM, 4GB default, max. 16GB	1 x DDR4 2133 MHz SO-DIMM, 4GB default, max. 16GB	1 x DDR3L 1600 MHz SO-DIMM (Default 4GB, max. 8GB)	1 x DDR3L 1600 MHz SO-DIMM (Default 4GB, max. 8GB)
BIOS	Insyde BIOS	Insyde BIOS	AMI BIOS	AMI BIOS
Storage	M.2 SATA III SSD, default 64GB, max. 512GB	M.2 SATA III SSD 64GB default, max. 512GB	mSATA SSD default 64GB (Max. 512GB)	mSATA SSD default 64GB (Max. 512GB)
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors				
USB	2 x USB 2.0 (Waterproof, IP67 grade)	1 x IP67 USB A Type connector with cover	2 x USB 2.0 (waterproof, IP67 grade)	1 x IP67 USB A Type connector with cover
LAN	1 x RJ45 10/100/1000 (Waterproof, IP67 grade)	1 x RJ45 10/100/1000 (Waterproof, IP67 grade)	1 x RJ45 10/100/1000 (Waterproof, IP67 grade)	1 x RJ45 10/100/1000 (Waterproof, IP67 grade)
Power	1 x DC-in (Waterproof, IP67 grade)	1 x DC-in (Waterproof, IP67 grade)	1 x DC-in (Waterproof, IP67 grade)	1 x DC-in (Waterproof, IP67 grade)
Serial Interface	1 x RS232 (Waterproof, IP67 grade)	1x RS232 (Waterproof, IP67 grade)	1 x RS232 (Waterproof, IP67 grade)	1x RS232 (Waterproof, IP67 grade)
Mechanical				
Dimensions	398 x 308 x 58 mm	474 x 410 x 143.5 mm	398 x 308 x 58 mm	474 x 410 x 143.5 mm
Operating Temp.	-10°C to 55°C	-10°C to 60°C (Optional built-in Intelligent Heater to avoid moisture)	-10°C to 55°C	-10°C to 60°C (Optional built-in Intelligent Heater to avoid moisture)
Humidity	10% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Power				
Power Input	9~36V DC with Isolation Optional 6~60V DC, with Ignition On/Off delay	9~36V DC with Isolation	9~36V DC with Isolation Optional 6~60V DC, with Ignition On/Off delay	9~36V DC with Isolation
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications				
Safety	CE, FCC	CE, FCC, UL508, UL60950-1, CSA C22.2 No. 60950-1-07, EN60950-1, IEC60950-1	CE, FCC Class B, MIL-STD-810F/G	UL60950-1, CSA C22.2 No. 60950-1-07, EN60950-1, IEC60950-1, MIL-STD-810G Method 516.6, CE, FCC, UL508



EMBEDDED COMPUTING

Embedded Computing

Overview	107
Technology	107
Product Guide.....	108

AI Edge Computing

IWAI-AA	109
IWAI-SHA	111
IWAI-TA.....	113
IKMH100-AI	115

IoT Gateway

EAC Mini.....	117
---------------	-----

Embedded Systems

EAC Pro Box PC	119
M Series Box PC	121
EAC Box PC	123
DIN Rail Box PC	125
Arm Series	127
Fanless Box PC.....	129
Standard Box PC.....	131
Full IP65 Box PC.....	134
2U Rack Server.....	136

Boards & Modules

3.5" Form Factor SBC	138
Mini-ITX SBC	140
Arm Series SBC	143

AI Edge Computing

Overview

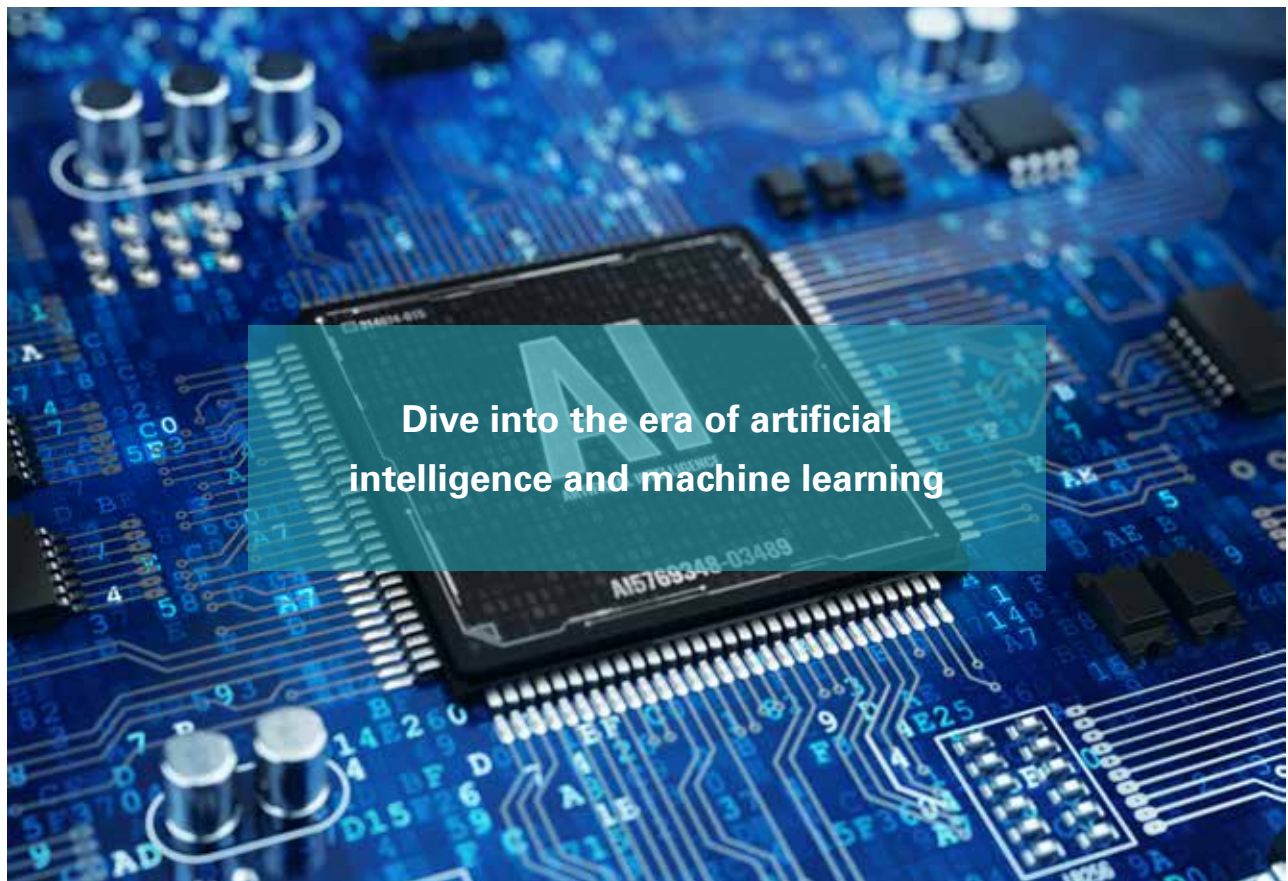
Winmate provides a full range of embedded platforms for you to build unique solutions for Industrial embedded systems. Our embedded computing solutions are designed to give developers the freedom to build fast and convenient solutions for industrial applications such as factory automation, machine control, transportation, IoT gateways and edge computing.

Our embedded computing solutions include:

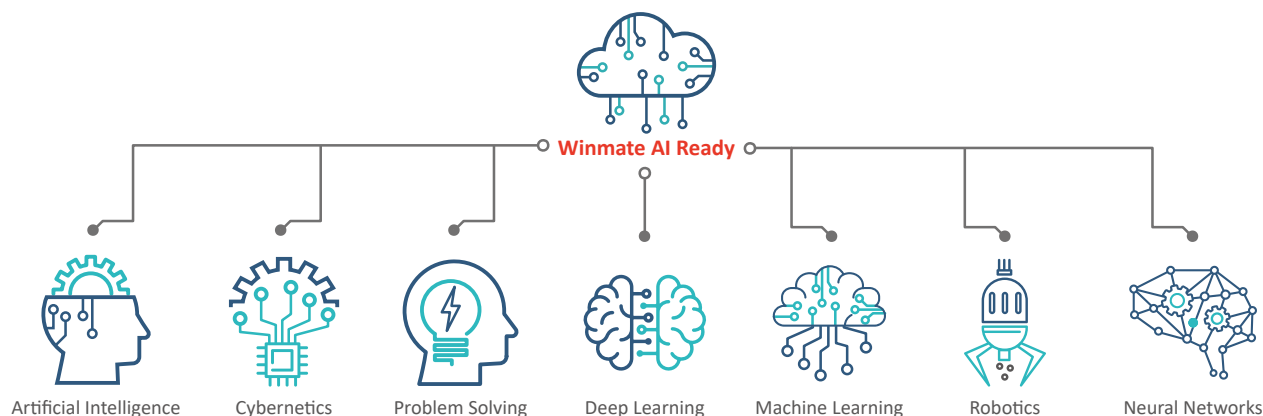
- AI-ready embedded hardware, IoT gateways, embedded box PCs, industrial servers and Single Board Computers
- The latest Android™, Windows® and Linux operating system
- Board development and production purpose-built for your needs

Technology

AI-ready solution- Winmate IWAI series is AI hardware ready system ideal for deep learning inference computing to help users gain faster, deeper insights into their business. Containing 8th Gen. Intel® Processor and Intel® Movidius Video Processing Unit (VPU), the IWAI series are AI ready solutions that meet the high computation and low-latency requirements of deep learning on edge devices. With the Intel® OpenVINO™ toolkit, the series can help deploy your solutions faster than ever in factory automation, transportation, surveillance scenarios and more.



Technology



The OpenVINO™ toolkit quickly deploys applications and solutions that emulate human vision. Based on Convolutional Neural Networks (CNN), the toolkit extends computer vision (CV) workloads across Intel® hardware, maximizing performance. The OpenVINO™ toolkit includes the Deep Learning Deployment Toolkit (DLDT).

The OpenVINO™ toolkit:

1. Enables CNN-based deep learning inference on the edge.
2. Speeds time-to-market via an easy-to-use library of computer vision functions and pre-optimized kernels.
3. Includes optimized calls for computer vision standards, including OpenCV*, OpenCL™, and OpenVX*.

Product Guide- Featured Embedded Computing Device

Our product guide helps you to navigate and find the right product from our excessive product line.

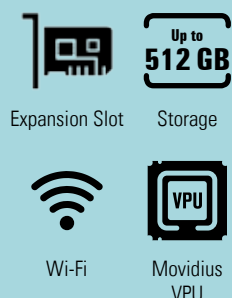
AI Edge Embedded Computing

Fanless Embedded Automation Computer	Fanless Embedded Surveillance Computer	Fanless Embedded In-Vehicle Computer	Modular Embedded Box PC
			
IWAI-AA	IWAI-SHA	IWAI-TA	IKMH100-AI
p.109	p.111	p.113	p.115

Edge Embedded Computing

IoT Gateway	EAC Pro Box PC	Standard Box PC	Embedded Computing
			
EAC Mini	EAC Pro Box PC	Standard Box PC	2U Rack Server
p.117	p.119	p.131	p.136

Custom configuration



Application



Predictive Maintenance System

“ BRIDGING THE GAP BETWEEN IT AND OT ”

Most predictive maintenance systems rely on machine learning to form late predictions. The advantages are numerous and can significantly reduce costs while eliminating the need for planned downtime in many cases.

Fanless Embedded Automation Computer

IWAI-AA

NEW



“ ARTIFICIAL INTELLIGENCE - THE DRIVING FORCE OF INDUSTRY 4.0 ”

- CE, FCC
- 8th Gen. Intel® Core™ i7/i5/i3
- Intel® Movidius VPU Card
- Windows 10 IoT Enterprise / Linux

Fanless cooling system

Wi-Fi, WWAN

USB 3.0

COM Port

HDMI

4 x PoE (PSE) sharing 60W

Wide range DC 9~36V power input with Isolation and Ignition

Support 4 in/ 4 out DI/DO Isolated

Accessories

Standard

Male Terminal Block(5 pin) for DIO

Driver CD

Open Wire for Power

Wifi Antenna

Male Terminal Block(5 pin) for Power

Fanless Embedded Automation Computer

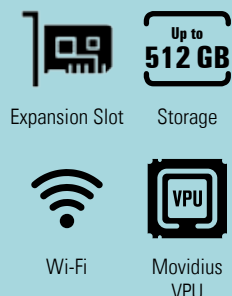
8th Gen. Intel® Core™ i7/i5/i3

NEW



Model Name	IWAI-AA
System	
Processor	Intel® Core™ i7-8665UE (8M Cache, up to 4.40 GHz) Intel® Core™ i5-8265U (6M Cache, up to 3.90 GHz)(Default) Intel® Core™ i3-8145UE (4M Cache, up to 3.90 GHz)
BIOS	Insyde H20 BIOS
Memory	260 pin DDR4-2400 Non-ECC/ECC SO-DIMM RAM(up to 32 GB)
Graphic Interface	Graphic resolution:HDMI Mode: 4096x2160@30/24Hz
Audio	Realtek HD Audio Codec
TPM	TPM2.0
GPS	NEO M8N
OVP/OCF	Support
Ethernet Controller	PHY I219LM, 1000 Base-Tx Gigabit Ethernet Compatible
POE Ethernet	4 ports, sharing 60W of power budget for every four PoE (PSE) ports
Expansion Slot	PCIE by 4 (Default AI Core XM VPU x 4) (Optional VPU x 1, VPU x 2)
Storage	Internal M.2 SSD (Up to 512GB) x1, Removable 2.5" SATA HDD (1TB) or 2.5" SSD (Optional)
Power	
Power Input	DC 9-36 In with Isolation and Ignition
Connectors	
Front Side I/O	1 x Power Button with LED 1 x RJ45 10/100/1000 1 x Software LED 1 x headset jack(Line Out & Mic in) 1 x HDMI output 4 x USB 3.0 (Front*4) 4 x PoE (PSE) sharing 60W 2 x 5 pin two layer terminal block for 8-bit DIDO(4xDI, 4xDO) 1 x 5pin terminal block for DC input 2 x D-Sub9 with RS232/422/485 (Optional)
Rear Side	SMA connectors for WLAN, WWAN (Optional) 1 x Micro SIM Card Slot (Optional) 1 x Removable 2.5" HDD/ 2.5" SSD (Optional)
Mechanical	
Dimensions	85 x 215 x 192 mm
Environment	
Operating Temp.	-20°C to 70°C
Humidity	10% to 95% RH@40°C (Non-condensing, RH)
Storage Temperature	-20°C to 70°C
Vibration	MIL-STD-810G Method 516.6 Procedure I
Shock	MIL-STD-810G Method 516.6 Procedure I
Wireless Communication	
WLAN	Intel AC9260 802.11 a/b/g/n/ac (Optional)
Bluetooth	5.0 (Optional)
Certifications	
Certification	CE, FCC

Custom configuration



Application



Smart Surveillance

“MORE INTELLIGENT,
MORE SECURE”

Surveillance is not simply video keeping track of people's movements. It's a lot more than that – it's about tracking, trends and transitions and using artificial intelligence (AI) to make smart, informed decisions.

Fanless Embedded Surveillance Computer

IWAI-SHA

NEW



“ AI-based security solutions ”

- CE, FCC
- 8th Gen. Intel® Core™ i7/i5/i3
- Intel® Movidius VPU Card
- Windows 10 IoT Enterprise / Linux

Fanless cooling system

Wi-Fi

USB 3.0

COM Port

Compatible with Edge AI module: Intel Movidius VPU Card

4 x PoE (PSE) sharing 60W

Wide range DC 9~36V power input with Isolation and Ignition

Support 4 in/ 4 out DI/DO Isolated

Accessories

Standard

Male Terminal Block(5 pin) for DIO	Driver CD	Open Wire for Power	Wifi Antenna
Male Terminal Block(5 pin) for Power	Wifi Antenna	WWAN Antenna	

Fanless Embedded Surveillance Computer

8th Gen. Intel® Core™ i7/i5/i3

NEW



Model Name	IWAI-SHA
System	
Processor	Intel® Core™ i7-8665UE (8M Cache, up to 4.40 GHz) Intel® Core™ i5-8265U (6M Cache, up to 3.90 GHz) (Default) Intel® Core™ i3-8145UE (4M Cache, up to 3.90 GHz)
BIOS	Insyde H20 BIOS
Memory	260 pin DDR4-2400 Non-ECC/ECC SO-DIMM RAM(up to 32 GB)
Graphic Interface	Graphic resolution:HDMI Mode: 4096x2160@30/24Hz
Audio	Realtek HD Audio Codec
TPM	TPM2.0
GPS	NEO M8N
OVP/OCP	Support
Ethernet Controller	PHY I219LM, 1000 Base-Tx Gigabit Ethernet Compatible
POE Ethernet	4 ports, sharing 60W of power budget for every four PoE (PSE) ports
Expansion Slot	PCIE by 4 (Default AI Core XM VPU x 4) (Optional VPU x 1, VPU x 2)
Storage	Internal M.2 SSD (Up to 512GB) x1, Removable 2.5" SATA HDD (1TB) or 2.5" SSD (Optional)
Power	
Power Input	DC 9-36 In with Isolation and Ignition
Connectors	
Front Side I/O	1 x Power Button with LED 1 x RJ45 10/100/1000 1 x Software LED 1 x headset jack(Line Out & Mic in) 1 x HDMI output 4 x USB 3.0 (Front*4) 4 x PoE (PSE) sharing 60W 2 x 5 pin two layer terminal block for 8-bit DIDO(4xDI, 4xDO) 1 x 5pin terminal block for DC input 2 x RS232/422/485 (Default RS232)
Rear Side	SMA connectors for WLAN, WWAN (Optional) 1 x Micro SIM Card Slot (Optional) 1 x Removable 2.5" HDD/ 2.5" SSD (Optional)
Mechanical	
Dimensions	85 x 215 x 192 mm
Environment	
Operating Temp.	-20°C to 70°C
Humidity	10% to 95% RH@40°C (Non-condensing, RH)
Storage Temperature	-20°C to 70°C
Wireless Communication	
WLAN	Intel AC9260 802.11 a/b/g/n/ac (Optional)
Bluetooth	5.0 (Optional)
Certifications	
Certification	CE, FCC

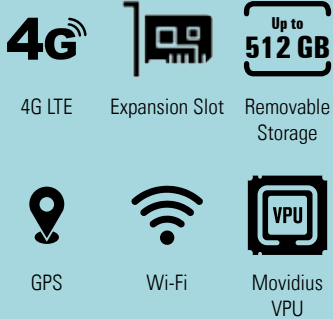
Fanless Embedded In-Vehicle Computer

IWAI-TA

NEW



Custom configuration



Application



Traffic Management System

"COMPATIBLE WITH UPCOMING TECHNOLOGIES"

Assures safe and fluent traffic conditions for all travelers, manage traffic and incidents in line with legal regulations and contractual obligations, and reduce and eliminate congestions and increase safety on the roads.

“ SMART TRANSPORTATION REDEFINED ”

- E-Mark, CE, FCC
- 8th Gen. Intel® Core™ i7/i5/i3
- Intel® Movidius VPU Card
- Windows 10 IoT Enterprise / Linux

Fanless cooling system

Wi-Fi, GPS, GLONASS, WWAN

USB 3.0

CAN Bus, COM Port

HDMI

4 x PoE (PSE) sharing 60W

Wide range DC 9~36V power input with Isolation and Ignition

Support 4 in/ 4 out DI/DO Isolated

Accessories

Standard

Male Terminal Block(5 pin) for DIO

Driver CD

Open Wire for Power

GPS Antenna

Male Terminal Block(5 pin) for Power

Fanless Embedded In-Vehicle Computer

8th Gen. Intel® Core™ i7/i5/i3

NEW



Model Name	IWAI-TA
System	
Processor	Intel® Core™ i7-8665UE (8M Cache, up to 4.40 GHz) Intel® Core™ i5-8265U (6M Cache, up to 3.90 GHz)(Default) Intel® Core™ i3-8145UE (4M Cache, up to 3.90 GHz)
BIOS	Insyde H20 BIOS
Memory	260 pin DDR4-2400 Non-ECC/ECC SO-DIMM RAM(up to 32 GB)
Graphic Interface	Graphic resolution:HDMI Mode: 4096x2160@30/24Hz
Audio	Realtek HD Audio Codec
TPM	TPM2.0
GPS	NEO M8N
OVP/OCF	Support
Ethernet Controller	PHY I219LM, 1000 Base-Tx Gigabit Ethernet Compatible
POE Ethernet	4 ports, sharing 60W of power budget for every four PoE (PSE) ports
Expansion Slot	PCIE by 4 (Default AI Core XM VPU x 4) (Optional VPU x 1, VPU x 2)
Storage	Internal M.2 SSD (Up to 512GB) x1, Removable 2.5" SATA HDD (1TB) or 2.5" SSD (Optional)
Power	
Power Input	DC 9-36 In with Isolation and Ignition
Connectors	
Front Side I/O	1 x Power Button with LED 1 x RJ45 10/100/1000 1 x Software LED 1 x headset jack(Line Out & Mic in) 1 x HDMI output 4 x USB 3.0 (Front*4) 4 x PoE (PSE) sharing 60W 2 x 5 pin two layer terminal block for 8-bit DIDO(4xDI, 4xDO) 1 x 5pin terminal block for DC input 2 x D-Sub9 with RS232/422/485 (Optional) 1 x D-Sub9 with CAN BUS (Optional)
Rear Side	SMA connectors for WLAN, WWAN & GPS (Optional) 1 x Micro SIM Card Slot (Optional) 1 x Removable 2.5" HDD/ 2.5" SSD (Optional)
Mechanical	
Dimensions	85 x 215 x 192 mm
Environment	
Operating Temp.	-20°C to 70°C
Humidity	10% to 95% RH@40°C (Non-condensing, RH)
Storage Temperature	-20°C to 70°C
Vibration	MIL-STD-810G Method 516.6 Procedure I
Shock	MIL-STD-810G Method 516.6 Procedure I
Wireless Communication	
WLAN	Intel AC9260 802.11 a/b/g/n/ac (Optional)
Bluetooth	5.0 (Optional)
GPS	GPS, GLONASS
WWAN	4G/LTE (Optional)
Certifications	
Certification	CE, FCC, E-Mark

Modular Embedded Box PC

IKMH100-AI

NEW

Custom configuration

Up to
16 GB

Memory

Up to
512 GB

Storage



DI/DO

Up to
512 GB

Optional 2nd
Storage



Optional Front
Display



Movidius
VPU



Application



Production Line Control

“ENABLING AN EFFICIENT,
SMOOTH OPERATION.”

By preempting a failure with a machine learning algorithm, systems can continue to function without unnecessary interruptions.

“ FIT AI INTO MANUFACTURING ”

- Intel® Core™ i5-7200U
- Intel® Movidius X VPU Card
- Windows 10/Linux

Modular design

HDMI output

Four USB 3.0

Two RJ45 for Ethernet

PCIe x 4, DI/DO x 8 (4 in/4 out)

Desktop, wall mount

Operating temperature -10°C to 50°C

Accessories

Standard

Male Terminal Block(5 pin) for DIO

Driver CD

Open Wire for Power

GPS Antenna

Male Terminal Block(5 pin) for Power

Fanless Embedded In-Vehicle Computer

Intel® Core™ i5-7200U

NEW



Model Name	IKMH100-AI
System	
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS
Memory	DDR4-2133 SO-DIMM (Max 16GB)
Ethernet	1000 Base-Tx Gigabit Ethernet Compatible
Audio	Realtek ALC283 HD Audio Codec
USB	4 x USB 3.0
Serial Port	1 x RS232/422/485 (Default RS232)
Expansion Slot	1 x PCIe4
Main Storage	2.5" 64GB SSD (Optional up to 512GB)
Second Storage (Optional)	mSATA 64GB (Options up to 512GB)
Module	2 x Intel Movidius X VPU (Up to 4 VPU)
OS	Windows 10 IoT Enterprise, Linux
Power	
Power Input	9~29V DC with protection Fuse
Power Adapter	110~240AC to 12V DC out 80W power Adapter
Connectors	
I/O Connectors	1 x 9-24V Isolation DC in (Terminal Block 3pin) 2 x RJ45 10/100/1000 4 x USB3.0 1 x HDMI Output 1 x D-Sub15 (VGA) Output 1 x RS232/422/485 (Default RS232) 1 x Audio in Jack 1 x Audio out Jack 1 x Reset key 1 x Power Button 1 x 2.5" SSD indicators 8 x Isolation DIDO, In/4 Out (Optional)
Mechanical	
Dimensions	276 x 207 x 60 mm
Mounting	Desktop/Wall Mount (Optional Panel Mount with Front Display)
Construction	Aluminum housing
Environment	
Operating Temp.	-10°C to 60°C
Humidity	30%-95% at 40 (Non-condensing, RH)
Storage Temperature	-20°C to 70°C
Vibration	MIL-STD-810G Method 516.6 Procedure I
Shock	MIL-STD-810G Method 516.6 Procedure I
Certifications	
Certification	CE, FCC

IoT Gateway

EAC Mini

Custom configuration



Memory



Storage

4G

4G LTE



mSATA
Expansion



WiFi



DIN RAIL
VESA
Mounting
Options

Application



Renewable Energy Power Converter

"THE RIGHT AMOUNT OF
I/O AND CONNECTIVITY"

Dual Layer EAC Mini IoT
Gateway was used as the
main system for an energy
converter.



**“ CONNECT EVERYTHING,
CONTROL EVERYWHERE. ”**

- Compact design
- Intel® Celeron® N3350
- Arm Cortex-A9
- Windows 10, Android, Linux 4.1.15 (QT 5.5), Ubuntu

Fanless cooling system

Expansion module for additional interfaces

Compact size

HDMI

USB 2.0, USB 3.0 or USB Type-C

Two RJ45 for Ethernet

Desk, wall, VESA, DIN-Rail

IP30 or IP67-rated water and dustproof

Accessories

Standard

Terminal Block 2 pin to 2.5Ø
Female Adapter Cable

Driver CD

Quick Start Guide

Mounting Kits

EAC Mini IoT Gateway

Intel® Celeron® N3350
Arm® Cortex® -A9



Model Name	EACIL20	EACFA20	EACIL21	EACIL67
System				
Processor	Intel® Celeron® N3350 (2M Cache, up to 2.4 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Intel® Celeron® N3350 (2M Cache, up to 2.4 GHz)	Intel® Celeron® N3350 (2M Cache, up to 2.4 GHz)
BIOS	Insyde BIOS	-	Insyde UEFI	Insyde UEFI
Graphic Interface	Intel® HD Graphics	-	Intel® HD Graphics	Intel® HD Graphics
Expansion Slot	mPCIe:1 x Full-size mPCIe slot USB Wafer:2 x USB Wafer	mPCIe:1 x Full-size mPCIe slot USB Wafer:2 x USB Wafer	mPCIe:1 x Full-size mPCIe slot	mPCIe:1 x Full-size mPCIe slot
Watchdog Timer	Programmable 256 levels, timer interval 1 to 255 sec.	-	Programmable 256 levels, timer interval 1 to 255 sec.	Programmable 256 levels, timer interval 1 to 255 sec.
Storage	eMMC: Onboard 32GB (Default) mSATA: up to 1TGB (Option)	eMMC: Onboard 16GB (Default)	eMMC: Onboard 64GB (Default), mSATA: up to 1TGB (Option)	eMMC: Onboard 64GB (Default), mSATA: up to 1TGB (Option)
OS	Windows® 10 IoT Enterprise/ Linux 4.1.15 (QT 5.5)/Ubuntu	Android 6.0/ Linux 4.1.15 (QT 5.5)/Ubuntu	Windows® 10 IoT Enterprise/Linux 4.1.15 (QT 5.5)/Ubuntu	Windows® 10 IoT Enterprise/Linux 4.1.15 (QT 5.5)/Ubuntu
Expansion Module	• EACWSLT-222 WWAN Expansion Board (Single SIM Slot) • EACWSLT-231 3-port RS232/422/485 w/ isolation • EACWSLT-232 16-Channel Digital I/O w/ isolation • EACWSLT-233 2-port CANBUS w/ isolation • EACWLST-234 3 -port USB 2.0 • EACWLST-235 2-port RS232/422/485 w/ isolation • EACWLST-236 2-port Giga-LAN • EACWLST-237 WWAN Expansion Board (Dual SIM Slot)	• EACWSLT-222 WWAN Expansion Board (Single SIM Slot) • EACWSLT-231 3-port RS232/422/485 w/ isolation • EACWSLT-232 16-Channel Digital I/O w/ isolation • EACWSLT-233 2-port CANBUS w/ isolation • EACWLST-234 3-port USB 2.0 • EACWLST-235 2-port RS232/422/485 w/ isolation	-	-
Power				
Power Input	9~36V DC	9~36V DC	9~36V DC	9~36V DC
Grounding Protection	Chassis Grounding	Chassis Grounding	Chassis Grounding	-
Connectors				
USB	2 x USB3.0	2 x USB2.0	2 x USB 2.0	1 x USB2.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Video	1 x HDMI, 1920 x 1080@60 Hz	1 x HDMI, 1920 x 1080@60 Hz	USB Type-C (Alt Mode)	USB Type-C (Alt Mode)
User Controls				
LED Indicator	1 x Power	1 x Power	1 x Power	1 x Power
Buttons	1 x Power Button, 1 x Reset Button	1 x Power Button, 1 x Reset Button	1 x Power Button, 1 x Reset Button	-
Mechanical				
Dimensions	100 x 70 x 31mm (One layer), 100 x 70 x 61mm (Double layer)	100 x 70 x 31mm (One layer), 100 x 70 x 61mm (Double layer)	100 x 115 x 31 mm (One layer)	100 x 115 x 31 mm (One layer)
Housing	Metal	Metal	Metal	Metal
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Net Weight	0.4 kg (One layer), 0.5 kg (Double layer)	0.4 kg (One layer), 0.5 kg (Double layer)	0.8 kg	1 kg
Mounting	Desk Mount (Default), Wall Mount (Default), VESA Mount (Optional), DIN-Rail Mount (Optional)	Desk Mount (Default), Wall Mount (Default), VESA Mount (Optional), DIN-Rail Mount (Optional)	Desk Mount (Default), Wall Mounting (Default), VESA Mount (Optional)	Desk Mount (Default), Wall Mount (Default), VESA Mount (Optional)
Environment				
Operating Temp.	0°C to 55°C	0°C to 55°C	0°C to 55°C	-20°C to 60°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Vibration	Operating, IEC 60068-2-64	Operating, IEC 60068-2-64	Operating, IEC 60068-2-64	Operating, IEC 60068-2-64
Shock	Operating, IEC 60068-2-27	Operating, IEC 60068-2-27	Operating, IEC 60068-2-27	Operating, IEC 60068-2-27
IP Rating	IP30	IP30	IP30	IP67
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC
IoT	Microsoft Azure IoT AWS IoT Greengrass	Microsoft Azure IoT AWS IoT Greengrass	-	-

Embedded Computing

EAC Pro Box PC

Custom configuration



Memory



Storage

Application



Factory Control Room

“POWERFUL CENTRAL CONTROL COMPUTER”

The rich I/O capacity and powerful computing of the EAC Pro allows it to act as the central computer for a factory control center.

“ ABUNDANT I/O CONNECTIVITY ”

- Flexibility, rich I/O capacity and multi-expansion
- Intel® Xeon® E3-1268L V5, 7th Gen. Intel® Core™ i7/i5/i3
- Windows 10 IoT Enterprise

Fanless cooling system

64GB mSATA SSD

USB 3.0, USB 2.0

RS232/422/485, two RJ45 for Ethernet, HDMI 1.4a

HD 4K resolution

4U height design

Panel mount, VESA mount

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Standard

Mounting Clips and Screws

2 pin Terminal Block

AC Adapter

Power Cord

Driver CD

EAC Pro Box PC

Intel® Xeon® E3-1268L V5
7th Gen. Intel® Core™ i7/i5/i3



Model Name	EAC PRO - IK90
System	
Processor	Intel® Xeon® E3-1268L V5 (8M Cache, 2.4 GHz up to 3.40 GHz) Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
BIOS	Insyde BIOS
Chipset	Intel® C236 PCH
Memory	2 x DDR4 2133/2400 MHz with ECC, UP to 32GB or 2 x DDR4 2133/2400 MHz without ECC, UP to 32GB
Expansion Slot	SKU 1: 1 PCIe x 16, 1 PCIe x 4, 1 PCI SKU 2: 2 PCIe x 8, 1 PCIe x 4, 1 PCI Window: Expansion I/O module
Ethernet Controller	2 x Intel® I210 and 1 x I219 PHY, Intel® iAMT 11.0, Wake On LAN
Watchdog Timer	Supported
Mechanical	
Dimensions	195 x 177 x 225 mm
Net Weight	5.54 kg
Mounting	Panel Mount, Table Mount, Rack Mount
Audio Specification	
Audio Codec	Realtek Audio Codec
Audio Connectors	Line Out, Mic in (3.5mm Jack)
Environment	
Operating Temp.	0° to 40°C (32° to 104°F) (With HDD), 0° to 50°C (32° to 122°F) (With SSD/CFast), -15° to 55°C (-5° to 131°F) (w/Industrial SSD)
Vibration	IEC60068-2-64
Shock	EC60068-2-278
Storage Temp.	-20°C to 60°C (-4°F to 140°F)
Power Management	
Power Input	9V~36V DC-in (4-pin Terminal Block) or Din 4P DC Jack External 12V /200W AC Adaptor for External PCI express cards (Option) Max : 220W (Either one)
Power Consumption	Max : 50W (Without external I/O and PCI/PCIe Cards)
Power Adapter	AC 110~240V, Universal, ±10%
Video Output	
VGA	1 x VGA, 1080P at 60 Hz D-Sub 15pin
DP	2 x Display Ports 1.2, up to 4096 x 2304@60Hz, female connector with lock
Active Three Display	VGA + DP + DP
Connectors	
USB	6 x USB3.0, USB 2.0 (1A/5W)
Serial Port	2 x COM ports (RS232/422/485) w/Isolation D-Sub 9, switch by SW (RS232/422/485)
Ethernet	3 x RJ45 10/100/1000
Digital Input	8ch dry contact DI0~DI7, 1.5kV Isolation Logic 1 : Open ; Logic 0 : close to GND
Digital Output	8ch DO0~DO7, 1.5kV Isolation 20mA max/channel by internal com 12V or 5V
Physical Button & Indicators	
LED Indicator	4 x HDD, 1 x Wifi/3G (LTE)
Button	1 x Power Button w/LED, 1 x Clean CMOS Button, 1 x Reset Button
Certifications	
Safety	CE, FCC

Embedded Computing

M Series Box PC

Custom configuration



Memory



Storage



DI/DO



Optional 2nd
Storage



Optional Front
Display



Application



Assembly Line Controller

“EFFICIENT AND SMOOTH
OPERATION.”

The M-Series Box PC with the optional Front modular Display was used as an assembly line controller for a plastic bottle production facility.

“**MODULAR DESIGN.**”

- Intel Atom® E3845
- Intel® Core™ i5-7200U
- Windows 10

Fanless cooling system

Modular design

HDMI output

Four USB 3.0

Two RJ45 for Ethernet

PCIe x 4, DI/DO x 8 (4 in/4 out)

Desktop, wall mount

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Standard

2 pin Terminal Block

AC Adapter

Power Cord

Driver CD

M Series Box PC

Intel Atom® E3845 Processor

Intel® Core™ i5-7200U Processor



Model Name	IBM H100	IKM H100
System		
Processor	Intel Atom® E3845 (2M Cache, 1.91 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	AMI BIOS	Insyde BIOS
Memory	SODIMM DDR3L-1600 4GB (Optional up to 8GB with 2 slots)	SODIMM DDR4-2133 4GB, (Optional up to 32GB with 2 slots)
Storage	Main Storage : Default 2.5" 64GB SSD Second Storage (Optional) : mSATA SSD, up to 512GB	Main Storage : Default 2.5" 64GB SSD Second Storage (Optional) : mSATA SSD, up to 512GB
Expansion Slot	N/A	1 x PCIe x4
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
Audio Codec	Realtek Audio Codec	Realtek Audio Codec
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors		
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)(isolation)
USB	4 x USB 2.0	4 x USB 3.0
HDMI	1 x HDMI Output	1 x HDMI Output
VGA	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	1 x Audio In Jack 1 x Audio Out Jack	1 x Audio In Jack 1 x Audio Out Jack
Control Buttons	1 x Reset Key 1 x Power Button	1 x Reset Key 1 x Power Button
LED Indicators	1 x 2.5" SSD Indicator	1 x 2.5" SSD Indicator
Power		
Power Input	12~24V DC with protection fuse	9~29V DC with protection fuse
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Mechanical		
Dimensions	276.18 x 228.8 x 45.20 mm	274.66 x 206.8 x 60.2 mm
Mounting	Desktop, Wall Mount, Panel Mount with front display (Optional)	Desktop, Wall Mount, Panel Mount with front display (Optional)
Color	Black	Black
Construction	Aluminum	Aluminum
Environment		
Operating Temp.	0°C to 50°C	0°C to 50°C
Humidity	30% to 95% at 40°C (Non-condensing, RH)	30% to 95% at 40°C (Non-condensing, RH)
Certifications		
Safety	CE, FCC	CE, FCC

Embedded Computing

EAC Box PC

Custom configuration



Memory



Storage



NMEA 0183



DI/DO



Application



Ship Bridge Embedded System

"WITHSTANDS ALL THAT
THE SEAS GIVE."

The Marine EAC Box PC was used as the embedded system for the bridge on a ship. Withstands all the roughness at sea while controlling the ship's systems.

**" MARINE CERTIFIED.
FOR HEAVY DUTY APPLICATIONS "**

- Marine certified IEC 60945, DNV
- Intel® Core™ i5-7200U
- Intel Atom® D2550
- Windows 10

Fanless cooling system

Four USB 3.0

RS232/422/485, two RJ45 for Ethernet

HDMI, VGA

Shock, vibration resistant

Aluminum housing

VESA mount, wall mount, Desktop

Accessories

Standard

AC Adapter

Power Cord

Driver CD

EAC Box PC

Intel® Core™ i5-7200U

Intel Atom® D2550



Model Name	I330EAC-IKW	I330EAC-IK3	I330EAC-ID3
System			
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel Atom® D2550 (1M Cache, 1.86 GHz)
BIOS	Insyde BIOS	Insyde BIOS	AMI BIOS
Chipset	Intel® SoC Integrated	Intel® SoC Integrated	Intel® NM10
Memory	1 x SODIMM DDR4L-2133 4GB (Max up to 16GB)	1 x SODIMM DDR4L-2133 4GB (Max up to 16GB)	1 x SODIMM, Max 4GB DDR3L 1600 (2GB Default)
Storage	1 x mSATA SSD 64GB (Default) 2 x 2.5" Removable SSD/HDD	1 x 64GB M.2 B Key SATA III (Options up to 512GB)	1 x mSATA SSD 32G (Default) 1 x 2.5" SATA HDD (Optional)
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible	Intel® I211 + I219LM Gigabit-LAN PHY	1000 Base-Tx Gigabit Ethernet Compatible
Connectors			
Power	1 x 3 pin Terminal Block	1 x 3 pin Terminal Block	1 x 3 pin Terminal Block
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232) 3 x RS422/485 (isolation)	1 x RS232/422/485 (Default RS232) 3 x RS422/485 (isolation)
USB	4 x USB 3.0	2 x USB 3.0	2 x USB
GPIO	8 x Isolated DI/DO, 4 In/4out (Optional)	8 Channel GPIO by Phoenix type Terminal Block 5V/12mA	1 x GPIO 8 in/out by Phoenix type Terminal Block
NMEA 0183 Port	8 x NMEA 0183 (Optional)	-	-
Display output	1 x HDMI 1 x VGA 1 x DVI	1 x HDMI 1 x VGA	1 x VGA
Audio	1 x Audio in Jack 1 x Audio out Jack	1 x Audio in Jack 1 x Audio out Jack 1 x Mic in	1 x Mic in, Line out Line in Jack
User Interfaces	1 x Power Button 1 x Reset Button	1 x Power Button 1 x Reset Button	1 x Power Button 1 x Reset Button
Power			
Power Input	24V DC In with 1.5KV DC Isolation Resistance (9~36V DC Input Acceptable)	24V DC In with 1.5KV DC Isolation Resistance (9~36V DC Input Acceptable)	24V DC In with 1.5KV DC Isolation Resistance (9~36V DC Input Acceptable)
Power Consumption	50 W (Typ.)	45 W (Typ.)	40 W (Typ.)
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Mechanical			
Dimensions	316.44 x 206.8 x 62.1 mm	296 x 169 x 66 mm	296 x 169 x 66 mm
Mounting	VESA Mount (100 x 100 mm), Wall Mount, Desktop	VESA Mount (100 x 100 mm), Wall Mount, Desktop	VESA Mount (100 x 100 mm), Wall Mount, Desktop
Color	Black	Silver	Silver
Housing	Aluminum	Aluminum	Aluminum
Environment			
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	0.7g@DNVGL CG-0339 (Class A)	0.7g@DNVGL CG-0339 (Class A)	0.7g@DNVGL CG-0339 (Class A)
Shock	15G, 11ms	15G, 11ms	15G, 11ms
Certifications			
Marine	IEC 60945 4 th Edition (Test Report Available)	-	IEC60945, DNV GL-CG-0339, IACS-E10
Safety	CE, FCC	CE, FCC	CE, FCC

Embedded Computing

DIN Rail Box PC

Custom configuration

Up to 8 GB	Up to 512 GB	Up to 215 GB
Memory	Storage	2nd Storage



Application



Factory Automation

"STABLE PERFORMANCE
IN A COMPACT RUGGED
DESIGN."

This DIN Rail Box PC was
integrated as the system
controller for a beverage
production line.



**“ COMPACT.
POWERFUL.
VERSATILE. ”**

- DIN Rail mounting for industrial automation
- Intel® Celeron® N2930
- Intel® Pentium® N4200
- Windows 10/8/7

Fanless cooling system

64GB mSATA /M.2 SSD

One USB 3.0, three USB 2.0

RS232/422/485, VGA

Four RJ45 for Ethernet

20 Pin DI/DO

9~36V DC power input with isolation

Operating temperature -20°C to 60°C

Accessories

Standard

Open Wire Power Cable	10 pin Terminal Block female connector for DI/DO	3 Pin Terminal Block to 2.5 female adapter	Power Cord	Driver CD
Cable Holder Clip	DIN Rail Mounting Clip			

DIN Rail Box PC

Intel® Celeron® N2930
Intel® Pentium® N4200



NEW



Model Name	IBDRW100	IBDRW100-P
System		
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
Chipset	Bay Trail SoC	Intel® SoC Integrated
Memory	1 x DDR3L 1333MHz SO-DIMM (Default 4GB, up to 8GB)	1 x DDR3L 1333MHz SO-DIMM (Default 4GB, up to 8GB)
Storage	Main Storage : Default : 64GB mSATA SSD, up to 512GB Optional Second Storage : 2.5" SSD 64GB to 512GB	Main Storage : Default : 64GB M.2 SSD, up to 512GB Optional Second Storage : 2.5" SSD 64GB to 512GB
Ethernet Controller	Intel® I210-AT GbE LAN	Intel® I210-AT Gigabit-LAN Controller
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise
Connectors		
Power	1 x 3 Pin Terminal Block	1 x 3pin Terminal Block
Ethernet	4 x RJ45 10/100/1000 (LAN3 disabled if WLAN Module is added)	4 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232) 1 x RS422 (Default RS485)(isolation)	1 x RS232/422/485 (Default RS232) 1 x RS422/485 (isolation)
USB	1 x USB3.0, 3 x USB2.0	3 x USB 3.0, 1 x USB 2.0
VGA	1 x VGA	1 x VGA
DI/DO	1 x 20 pins terminal block DI/DO (9in/9out)	1 x 20 pins terminal block DI/DO (9in / 9out)
Audio	1 x Line Out, Line In, Mic In	1 x Line Out, Line In, Mic In
Power		
Power Input	9~36V DC with isolation	9~36V DC with isolation
Power Consumption	25W	25W
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Mechanical		
Dimensions	139 x 65 x 152 mm	139 x 65 x 152 mm
Mounting	DIN Rail	DIN Rail
Color	Dark Silver	Dark Silver
Housing	Aluminum	Aluminum
Cooling System	Fanless design	Fanless design
Environment		
Operating Temp.	-20°C to 60°C	-20°C to 60°C
Storage Temp.	-40°C to 80°C	-40°C to 80°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz / 1Grms/3 Axis
Shock	15G, 11ms duration	15G, 11ms duration
Certifications		
Safety	CE, FCC, AWS, IoT Greengrass	CE, FCC
HazLoc	-	-

Embedded Computing Arm Series

Custom configuration



Memory



PoE



Micro SD



DI/DO



RS232



CPU

Application



Ticketing Machine Kiosk

"LOW POWER
CONSUMPTION ARM
SOLUTION."

A public transportation operator needed an Arm-based solution for their automatic ticketing kiosks. The fanless Arm Box PC with RS232 and DI/DO ports was provided as a low power solution.



“**ARM BASED PC SOLUTION.**”

- Aluminum housing
- Arm Cortex-A9
- Arm Cortex-A72 + Arm Cortex-A53
- Android 6.0/ Linux 4.1.15 (QT 5.5)/ Ubuntu 16.04

Fanless cooling system

16GB eMMC

USB 2.0, USB OTG

RS232/422/485, RJ45 for Ethernet

Micro SD/SDHC card slot

Aluminum profile with fin housing

Desktop, wall mounting

Operating temperature -20°C to 60°C

Accessories

Standard

2 pin Terminal Block

AC Adapter

Power Cord

Driver CD

Arm Series

Arm Cortex-A9

Arm Cortex-A72 + Arm Cortex-A53



NEW



Model Name	FA30SB3-210	RK30SBS-100
System		
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	eMMC 16GB 1GB LPDDR3 (Max 2GB)	eMMC 16GB 2GB LPDDR3 (Max 4GB)
Serial	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (COM1), HW select
USB	1 x USB 2.0	2 x USB 3.0 1 x USB 2.0 OTG 1 x RS232/422/485 (Default RS232)
Expansion Slot	Micro SD/SDHC card slot	MicroSD/SDHC card slot
OS	Android 6.0 Ubuntu 16.04	Android 7.1 Debian 9.0
Connectors		
Front Side Connectors	1 x RS232/422/485 (Default RS232) 1 x USB 2.0 1 x RJ45 10/100/1000 LAN Support PoE function 1 x Micro SD/SDHC Card Slot 1 x CANBus 1 x USB OTG 1 x Micro HDMI	1 x RJ45 LAN 1 x RJ45 10/100/1000 LAN Support PoE function 2 x USB 3.0 1 x USB 2.0 OTG 1 x RS232/422/485 (Default RS232) 1 x 12V DC Terminal Block
Mechanical		
Dimensions	224 x 47 x 127 mm	224 x 47 x 127 mm
Color	Gray	Gray
Construction	Aluminum profile with fin housing	Aluminum profile with fin housing
Power		
Power Input	9~24V DC	12V DC Terminal Block/PoE 48V DC
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Environment		
Operating Temp.	-20°C to 60°C	-20°C to 60°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 95% @30°C (Non-condensing, RH)
Mounting	Desktop, Wall Mount	Desktop, Wall Mount
Certifications		
Safety	CE, FCC	CE, FCC

Embedded Computing Fanless Series

Custom configuration



Memory



WiFi



3G/4G LTE



DI/DO



DVI



“ **WITHSTANDS HARSH
ENVIRONMENTS. FANLESS.**

”

- Intel® Celeron® N2930
- Windows 10/8/7

Fanless cooling system

2.5" HDD, Mini PCIe SSD

USB 3.0, five USB 2.0

Two RS232, one RS232/422/485 (Default RS232)

Two RJ45 for Ethernet

DVI, VGA, HDMI

Desktop, wall mount

Operating temperature 0°C to 50°C

Accessories

Standard

Wall Mount Kit

Driver CD

Application



Assembly Line Machine Controller

“STABLE INDUSTRIAL
COMPUTING IN A SEALED
BOX”

This fanless Box PC was used as part of an industrial assembly line that needed a solution that was low maintenance and reliable as the assembly line needed constant uptime.

Fanless Box PC

Intel® Celeron® N2930



Model Name	IB70SB7-101
System	
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	Dual DDR3L 1600 MHz SO-DIMM Slot, Max. 8GB
Expansion Slot	2 x Mini PCIe (1 for WiFi, 1 for WWAN Module)
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible
Audio Codec	Realtek Audio Codec
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors	
Power	1 x Power Jack
Ethernet	2 x RJ45 10/100/1000
Serial Interface	2 x RS232
	1 x RS232/422/485 (Default RS232)
	1 x RS232 (Optional)
USB	1 x USB 3.0, 3 x USB 2.0, 2 x USB 2.0
VGA	1 x VGA
DVI	1 x DVI (Optional)
HDMI	1 x HDMI (Optional)
Keyboard/Mouse	2 x PS/2
Audio	
Audio	1 x Mic In/Line In/Line Out
User Controls	
LED Indicator	1 x Power/HDD LED
Control Buttons	1 x Power Reset Button
	1 x Power on Button
Power	
Power Input	12V DC
Power Consumption	40 W (Typ.)
Power Adapter	AC 110V~240V, Universal, ±10%
Mechanical	
Dimensions	298 x 192 x 60 mm
Mounting	Desktop, Wall Mount
Color	Silver
Construction	Aluminum
Environment	
Operating Temp.	0°C to 50°C
Humidity	10% to 90% (Non-condensing, RH)
Certifications	
Safety	CE, FCC

Embedded Computing

Standard Box PC

Custom configuration



Memory



Storage



WiFi

Application



Control Room Server PC

"FAST SPEED AND STABLE
PERFORMANCE."

The box PC was configured to
be a control room embedded
computer as a server PC.

“ **VERSATILE COMPUTING
FOR ANY NEEDS.** ”

- Thermal solution with system fan
- 7th Gen. Intel® Core™ i7/i5/i3
- Windows 10

M.2 SSD, Mini PCIe SSD, 2.5" HDD

Intel® chipset

Four USB 3.0, two USB 2.0

RS232, two RJ45 for Ethernet

HDMI 1.4, DP 1.2

Desktop, wall mount

Operating temperature 0°C to 50°C

Accessories

AC Adapter

Power Cord

Driver CD

Standard Box PC

7th Gen. Intel® Core™ i7/i5/i3

4th Gen. Intel® Core™ i5

3rd Gen. Intel® Core™ i5



Model Name	IK70SB7-111	IH70SB7-111	IV70SB7-111
System			
Processor	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
BIOS	Insyde BIOS	AMI BIOS	AMI BIOS
Chipset	Intel® H170	Intel® 8 series (QM87)	Intel® 7 series (HM76)
Memory	1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, Max 8GB DDR3L 1600 MHz	1 x SODIMM, Max 8GB DDR3L 1600 MHz
Storage	2 x SATA III	2 x SATA III	1 x SATA III, 1 x SATA II
SSD Interface	1 x M.2 SSD slot (B Key), Max 512GB	1 x mSATA SSD slot Max 512GB	1 x mSATA SSD slot
Expansion Slot	1 x M.2 slot for Wi-Fi (E key)	2 x Mini PCIe (1 for WiFi, 1 for 3G Module), 1 x Mini PCIe Slot (for mSATA SSD), 1 x PCIe (x16)	2 x Mini PCIe (1 for WiFi, 1 for 3G Module), 1 x Mini PCIe Slot (for mSATA SSD), 1 x PCIe (x4) 1 x PCIe (x16)
Ethernet Controller	Intel® I211IT Gigabit + I219LM Gigabit-LAN PHY	Intel® I210IT Gigabit + I218LM Gigabit-LAN PHY	Dual Broadcom BCM57780 GbE
Audio	Realtek Audio Codec	Realtek Audio Codec	Realtek Audio Codec
Connectors			
Power	1 x Power Jack (Lockable)	1 x Power Jack (Lockable)	1 x Power Jack (Lockable)
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232) 1 x RS232	3 x RS232 (Optional) 1 x RS232/422/485 (Default RS232)	3 x RS232 (Optional) 1 x RS232/422/485 (Default RS232)
USB	4 x USB 3.0	4 x USB 3.0, 2 x USB 2.0	4 x USB 3.0, 2 x USB 2.0
VGA	-	1 x VGA (male)	1 x VGA (male)
DVI	-	1 x DVI (Optional)	1 x DVI (Optional)
HDMI	1 x HDMI 1.4a	-	-
DP 1.2	1 x DP 1.2	-	-
Keyboard/Mouse	-	2 x PS/2	2 x PS/2
User Controls			
LED Indicators	1 x Power/HDD LED	1 x Power/HDD LED	1 x Power/HDD LED
Control Buttons	1 x Power Reset Button 1 x Power on Button	1 x Power Reset Button 1 x Power on Button	1 x Power Reset Button 1 x Power on Button
Audio			
Audio	1 x Line out, Mic in	1 x Line in, Line out, Mic in	1 x Line in, Line out, Mic in
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	80W (Typ.)	80W (Typ.)	80W (Typ.)
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Mechanical			
Dimensions	301 x 192 x 58 mm	298 x 192 x 60 mm	298 x 192 x 60 mm
Mounting	Desktop, Wall Mount	Desktop, Wall Mount	Desktop, Wall Mount
Color	Silver	Silver	Silver
Housing	Aluminum	Aluminum	Aluminum
Environment			
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Standard Box PC

Intel® Pentium® N4200
9th Gen. Intel® Core™ i7/i5/i3

NEW



NEW



Model Name	IP70	IF70
System		
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)	Intel® Core™ i7-9700TE (12M Cache, up to 3.80 GHz) Intel® Core™ i5-9500TE (9M Cache, up to 3.60 GHz) Intel® Core™ i3-9100TE (6M Cache, up to 3.20 GHz)
BIOS	Insyde BIOS	Insyde BIOS
Chipset	Intel® SoC Integrated	Intel® H310
Memory	2 x SO-DIMM socket DDR3L-1866, Max. 8GB	2 x SO-DIMM socket DDR4-2666, max 64GB
Storage		
SSD Interface	Default 1 x 2.5" HDD 500GB 1 x M.2 2242 B-key SSD slot 2 x SATA III, up to 512GB (SATA2 support is only available when M.2 SATA is not in use.)	Default 1 x 2.5" HDD 500GB 1 x M.2 2242 B-key SSD slot 2 x SATA III support RAID 0,1
Expansion Slot	1 x M.2 2242 B-key Slot (for SSD) 1 x M.2 2232 E-Key Slot (for half size Wifi module) 1 x PCIe Gen2 (x1) slot (Optional)	1 x M.2 2242 B-key Slot (for SSD) 1 x M.2 2232 E-Key Slot (for half size Wifi module) 1 x mini PCIe(PCle x 1 + USB2.0) 1 x PCIe Gen3 (x16) slot (Optional)
Ethernet Controller	Intel® I210-AT Gigabit-LAN Controller	Intel® I210-IT Gigabit-LAN Controller
Audio	Realtek Audio Codec	Realtek Audio Codec
Connectors		
Power	1 x 12V DC, Din4 pin connector	1 x 12V DC, Din4 pin connector
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232) 1 x RS232	1 x RS232/422/485 (Default RS232) 1 x RS232
USB	4 x USB 3.0	4 x USB 3.0
VGA	1 x VGA	1 x VGA
DVI	N/A	N/A
HDMI	1 x HDMI 1.4b	1 x HDMI 1.4b
DP 1.2	1 x DP 1.2	1 x DP 1.2
Keyboard/Mouse	N/A	N/A
User Controls		
LED Indicators	1 x LED Indicator for power 1 x LED Indicator for storage	1 x LED Indicator for power 1 x LED Indicator for storage
Control Buttons	1 x Power Button 1 x Reset Button	1 x Power Button 1 x Reset Button
Audio		
Audio	1 x Audio Jack (Mic-in, Line-out)	1 x Audio Jack (Mic-in, Line-out)
Power		
Power Input	12V DC input	12V DC input
Power Consumption	12W (Typ.)	50W (Typ.)
Power Adapter	100~240V AC to DC Adapter	100~240V AC to DC Adapter
Mechanical		
Dimensions	264 x 192 x 57 mm (W/O Deskmount Bracket) 298 x 192 x 57 mm (W/I Deskmount Bracket)	283.2 x 192 x 58.6 mm (W/O Deskmount Bracket) 301.2 x 192 x 58.6 mm (W/I Deskmount Bracket)
Mounting	Desk Mount	Desk Mount
Color	Silver	Silver
Housing	Alumium	Alumium
Environment		
Operating Temp.	0~50°C	0~50°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
Certifications		
Safety	CE, FCC	CE, FCC

Embedded Computing

Full IP65 Box PC



“ **WATERPROOF FOR HARSH ENVIRONMENTS.** ”

- Full IP65 enclosure
- Intel® Core™ i5-7200U
- Intel® Core™ i7-3517UE
- Windows 10

Intel® chipset
Three USB 2.0
RS232
Two RJ45 for Ethernet
VGA
9~36V DC power input with isolation
Vibration, shock resistance
Desktop, wall mount
Operating temperature 0°C to 50°C

Accessories

Standard				
Mounting Clips and Screws	Power Cable with Adapter	DC Power Cable	Serial Cable	USB Cable
VGA Cable	LAN Cable	Driver CD		

Custom configuration

Up to
16 GB

Memory

Up to
1 TB

Storage

Expansion Slot

1 x Optional

RS232

Wide Temp.
-20~60°C

Application



Beverage Bottling Plant

“ABLE TO WITHSTAND ANY ENVIRONMENTS.”

The Full IP65 Box PC was configured to be a machine controller in a beverage bottling line. The operator wanted to ensure constant uptime, and required waterproof interface for protection against spills.

Full IP65 Box PC

Intel® Core™ i5-7200U

Intel® Core™ i7-3517UE



Model Name	F65EAC-1K32	F65EAC-1V32
System		
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i7-3517UE (4M Cache, up to 2.80 GHz)
BIOS	Insyde BIOS	AMI BIOS
Watchdog Timer		
Chipset	Intel® SoC Integrated	Intel® Express Chipset HM76
Memory	DDR4-2133 SO-DIMM (Max. 16GB)	SO-DIMM DDR3 1600 (Max. 8GB)
Expansion Slot		
Ethernet	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® 82579-LM GbE PHY + Intel® WG82574L GbE LAN
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System
Connectors		
USB	1 x USB 2.0 Type-A Female	1 x USB 2.0 Type-A Female
Audio	1 x Line in/Line out (Optional)	1 x Line in/Line out (Optional)
Power	1 x Power Input (9~36V DC)	1 x Power Input (9~36V DC)
Ethernet	2 x LAN	2 x LAN
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)(Optional)	1 x RS232 1 x RS232/422/485 (Default RS232) (Optional)
USB	2 x USB2.0	2 x USB2.0
Video putout	1 x VGA 1 x HDMI (Optional)	1 x VGA 1 x DVI (Optional)
Other	1 x Micro SD Card Slot (Optional) 1 x SIM card socket (Optional) 1 x 8 Channels GPIO/CAN Bus (Optional)	1 x Micro SD Card Slot (Optional) 1 x SIM card socket (Optional) 1 x 8 Channels GPIO/CAN Bus (Optional)
User Controls		
Control Buttons	1 x Power Button	1 x Power Button
Power		
Power Input	9~36V DC with isolation	9~36V DC with isolation
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Mechanical		
Dimensions	260.4 x 168 x 50 mm	260.4 x 168 x 50 mm
Mounting	Wall Mount, Desktop	Wall Mount, Desktop
Color	Silver	Silver
Housing	Aluminum	Aluminum
Environment		
Operating Temp.	0°C to 50°C (Default), -20°C to 60°C (Optional)	0°C to 50°C (Default), -20°C to 60°C (Optional)
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz/1Grms/3 Axis
Shock	15G, 11ms duration	15G, 11ms duration
Certifications		
Safety	CE, FCC	CE, FCC

Embedded Computing 2U Rack Server



“**SERVER ROOM
COMPUTING.**”

- Intel® Core™ i7-7700T
- Fanless, custom cooling system
- Windows 10

Supports Intel® Active Management Technology II

Two 2.5" SSD/HDD, m.2 SSD

Four USB 3.0, two USB 2.0, three serial ports, two RJ45

HDMI 1.4, display port

Rack mount

IEC 61850-3, IEC60068-2-64, IEC 60068-2-2, CE, FCC compliant

Electroplated steel housing

Operating temperature -10°C to 60°C

Accessories

Standard

1 x 3 Pin Acrylic protect connector

AC Adapter

Power Cord

Driver CD

Custom configuration



Memory



Storage



PCI Slot



GPS Antenna

Application



Electrical Substation Server Room

“FAST SPEED AND STABLE
PERFORMANCE.”

The Rack PC was placed in the substation server room for a smart grid network. Allowed for data to be collected and transmitted on smart grid information.

2U Rack Server

Intel® Core™ i7-7700T



Model Name	IK7T-RK2U
System	
Processor	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz)
BIOS	Insyde BIOS
Chipset	Intel® C236
Memory	Support Two 204-pin DDR4-2400 SO-DIMM RAM Up to 64GB
Storage	Max. 4 x 2.5" SATAIII HDD (Up to 1TB), Max. 4 x 2.5" SATAIII SSD (Up to 512GB) 1 x M.2 Key B SSD 128GB (Up to 512GB)
Watchdog Timer	10 level
Ethernet Controller	Intel® I211IT Gigabit + I219LM Gigabit-LAN PHY
OS	Windows 10 IoT Enterprise
Connectors	
Power	1 x 3 Pin Acrylic Protected Connector
Ethernet	2 x RJ45 10/100/1000
Serial Interface	2 x R-232 1 x RS232/422/485 (Default RS232)
USB	4 x USB 3.0, 2 x USB 2.0
Audio	1 x Mic in, Line out
GPS Antenna	Optional
PCI Slot	2 x PCI Slot (Optional)
HDD Slot	1 x Dual HDD Slot
User Control	
Control Buttons	1 x Power On/Off 1 x Reset Button
Power	
Power Input	110~240V DC/AC Input with ±20% range
Mechanical	
Dimensions	482.6 x 88 x 356 mm
Mounting	19" rack with 2U height
Color	Black
Cooling System	Fanless design
Housing	Electroplated steel
Environment	
Operating Temp.	-10°C to 60°C
Humidity	10% to 90% (Non-condensing, RH)
Certifications	
Safety	IEC 61850-3, IEC60068-2-64, IEC 60068-2-2, CE, FCC

Embedded Computing

3.5" Form Factor SBC



“ **SMALL, EFFICIENT,
POWERFUL** ”

- Fully integrated small-sized single board computer
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Intel® Core™ i7-3517UE
- Intel® Pentium® N4200
- Windows 10

3.5" Form Factor (146 mm x 102 mm)

Fanless cooling system

SATA III

Up to three RS232

USB 3.0, USB 2.0

Two RJ45 for Ethernet, VGA, HDMI

Operating temperature -20°C to 60°C

Accessories

Standard

User Manual

Driver CD

Custom configuration



Memory



Storage



Expansion Slot

Application



Embedded Industrial Automation

“SMALL BUT POWERFUL
AND EFFICIENT”

The 3.5" Embedded boards are suited for fanless applications where the computing device will be embedded in a range of challenging scenarios.

3.5" SBC

Intel® Core™ i5-7200U

Intel® Celeron® N2930

Intel® Core™ i75-3517UE

Intel® Pentium® N4200



Model Name	IK32	IB32	IV32	IP32S
System				
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Core™ i7-3517UE (4M Cache, up to 2.80 GHz)	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
BIOS	Insyde BIOS	AMI BIOS	AMI BIOS	Insyde BIOS
Chipset	Intel® SoC Integrated	Intel® SoC Integrated	Intel® Express Chipset HM76	Intel® SoC Integrated
Memory	260 pin DDR4-2133, Non-ECC SO-DIMM RAM (max to 16GB)	1 x SODIMM DDR3L 1600, max. 8GB	1 x SODIMM DDR3L 1600, max. 8GB	1 x SODIMM DDR3L 1600/1866 MHz, Max. 8GB
Expansion Slot	1 x M.2 E Key for Wifi 1 x M.2 B Key for SATAIII SSD	1 x Mini PCIe for Wifi 1 x Mini PCIe for SATA SSD	1 x Mini PCIe for Wifi 1 x Mini PCIe for SATA SSD	1 x M.2 E Key for Wifi 1 x M.2 B Key for SATAIII SSD
Ethernet Controller	Integrated Intel® I210 I219 GbE LAN	Integrated Intel® I210 GbE LAN	Integrated Intel® 82579-LM + WG82574L	Integrated Intel® I210 GbE LAN
Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
SATA	2 x SATA III	1 x SATA II	1 x SATA II, 1 x SATA III	1 x SATA III
Connectors				
Power	1 x Power Jack	1 x Power Jack	1 x Power Jack	1 x Power Jack
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	2 x USB 3.0	1 x USB3.0, 1 x USB2.0	2 x USB3.0	2 x USB3.0
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x Micro HDMI
DVI	N/A	N/A	1 x DVI or HDMI	N/A
LVDS	1 x LVDS	1 x LVDS	1 x LVDS	1 x LVDS
Digital I/O	1 x Digital I/O	1 x Digital I/O	1 x Digital I/O	1 x Digital I/O
VGA	1 x VGA	1 x VGA	1 x VGA	1 x VGA
Audio				
Audio	1 x Audio (Mic in/Line in/Line out)	1 x Audio (Mic in/Line in/Line out)	1 x Audio (Mic in/Line in/Line out)	1 x Audio (Line-in/Line-out/analog Mic in/digital Mic in)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Mechanical				
Dimensions	146 x 102 mm	146 x 102 mm	146 x 102 mm	146 x 102 mm
Environment				
Operating Temp.	-10°C to 50°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Storage Temp.	-20°C to 60°C	-30°C to 70°C	-30°C to 70°C	-30°C to 70°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Embedded Computing

Mini-ITX SBC

NEW



“ **POWERFUL COMPUTING.** ”

- Fully integrated Mini-ITX single board computer
- Intel® Celeron® N2930
- Intel® Pentium® N4200
- 7th Gen. Intel® Core™ i7/i5/i3
- 9th Gen. Intel® Core™ i7/i5/i3
- Windows 10

Mini-ITX form factor (170mm x 170mm)

Intel® chipset and integrated HD graphics

SATA III, COM, USB 3.0, USB 2.0

Two RJ45 for Ethernet, video input, RS232/422/485

Digital I/O

Expansion slot capabilities

12V DC power input

Operating temperature -20°C to 60°C

Accessories

Standard

User Manual

Driver CD

Custom configuration

Up to
16 GB

Memory

Up to
512 GB

Storage



Expansion Slot

Application



Industrial Automation

“POWERFUL INTEL
CORE PROCESSING IN A
COMPACT EMBEDDED
BOARD”

The Mini-ITX embedded boards are perfectly suited for powerful industrial automation applications with multiple interface.

Mini-ITX SBC

Intel® Celeron® N2930
7th Gen. Intel® Core™ i7/i5/i3
4th Gen. Intel® Core™ i5
3rd Gen. Intel® Core™ i5



Model Name	IB70	IK70	IH70	IV70
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
BIOS	AMI BIOS	Insyde BIOS	AMI BIOS	AMI BIOS
Chipset	Intel® SoC Integrated	Intel® H170	Intel® QM87	Intel® HM76
Memory	2 x SODIMM DDR3L 1600, max. 8GB	1 x SODIMM DDR4 2400 max. 32GB	2 x SODIMM DDR3L 1600 max 16GB	2 x SODIMM DDR3L 1600 max 16GB
Expansion Slot	2 x Mini PCIe (1 for WiFi, 1 for 3G Module) 1 x Mini PCIe Slot (for mSATA SSD)	1 x M.2 Slot (for SSD) 1 x M.2 Slot (for half size Wifi)	2 x Mini PCIe (1 for WiFi, 1 for 3G Module) 1 x Mini PCIe Slot (for mSATA SSD) 1 x PCIe (x4) or 1 x PCIe (x16)	2 x Mini PCIe (1 for WiFi, 1 for 3G Module) 1 x Mini PCIe Slot (for mSATA SSD) 1 x PCIe (x4) or 1 x PCIe (x16)
Ethernet Controller	Intel® I210IT	Intel® I211IT + I219LM	Intel® I210IT Gigabit-LAN Controller+ I218LM Gigabit-LAN PHY	Broadcom BCM57780
Audio	Realtek Audio Codec	Realtek Audio Codec	Realtek Audio Codec	Realtek Audio Codec
SATA	1 x SATA II	2 x SATA III	2 x SATA III	1 x SATA III, 1 x SATA II
Connectors				
Power	1 x Power Jack	1 x Power Jack	1 x Power Jack	1 x Power Jack
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	2 x RS232 1 x RS232/422/485 (Default RS232)	4 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0 3 x USB 2.0	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
Display output	1 x VGA	1 x HDMI, 1 x DP	1 x VGA	1 x VGA
Keyboard/Mouse	2 x PS/2	-	2 x PS/2	2 x PS/2
Audio	1 x Audio Jack (Mic in/Line in/Line Out) (Optional)	1 x Audio Jack (Mic in/Line in/Line Out)	1 x Audio Jack (Mic in/Line in/Line Out) (Optional)	1 x Audio Jack (Mic in/Line in/Line Out) (Optional)
HDMI	1 x HDMI by FFC connector	1 x HDMI	1 x DVI or HDMI	1 x DVI or HDMI
DVI	1 x DVI by FFC connector	N/A	1 x DVI or HDMI	1 x DVI or HDMI
LVDS	1 x LVDS	1 x LVDS	1 x LVDS	1 x LVDS
Other	1 x eDP, 1 x LPT 1 x Digital I/O	1 x eDP 1 x Digital I/O 1 x Clear CMOS + Reset Button	1 x eDP, 1 x LPT 1 x Digital I/O	1 x Digital I/O
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Mechanical				
Dimensions	170 x 170 mm	170 x 170 mm	170 x 170 mm	170 x 170 mm
Environment				
Operating Temp.	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Storage Temp.	-30°C to 70°C	-30°C to 70°C	-30°C to 70°C	-30°C to 70°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Mini-ITX SBC

Intel® Pentium® N4200
9th Gen. Intel® Core™ i7/i5/i3

NEW



NEW



Model Name	IP70	IF70
System		
Processor	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)	Intel® Core™ i7-9700TE (12M Cache, up to 3.80 GHz) Intel® Core™ i5-9500TE (9M Cache, up to 3.60 GHz) Intel® Core™ i3-9100TE (6M Cache, up to 3.20 GHz)
BIOS	Insyde BIOS	Insyde BIOS
Chipset	Intel® SoC Integrated	Intel® H310
Memory	2 x SODIMM DDR3L-1866, max. 8GB	2 x SODIMM DDR4-2666, max 64GB
Expansion Slot		
Ethernet Controller	Intel® I210-IT Gigabit-LAN Controller	Intel® I210-IT Gigabit-LAN Controller
Audio	Realtek Audio Codec	Realtek Audio Codec
SATA	2 x SATA III (SATA2 support is only available when M.2 SATA is not in use.)	2 x SATA III
Connectors		
Power	1 x (12V) Power Input Din 4pin connector	1 x (12V) Power Input Din 4pin connector
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
USB	4 x USB 3.0	4 x USB 3.0
Display output	1 x DP 1.2	1 x DP 1.2
Audio	1 x Audio Jack (Mic-in, Line-out)	1 x Audio Jack (Mic-in, Line-out)
HDMI	1 x HDMI 1.4	1 x HDMI 1.4
LVDS	LVDS wafer	LVDS wafer
Other	1 x eDP 1 x Digital I/O 1 x Clear CMOS + Reset Button	1 x eDP 1 x Digital I/O 1 x Clear CMOS + Reset Button
Power		
Power Input	12V DC	12V DC
Mechanical		
Dimensions	170 x 170 mm	170 x 170 mm
Environment		
Operating Temp.	-20°C ~ 60°C	-20°C ~ 60°C
Storage Temp.	-40°C ~ 70°C	-40°C ~ 70°C
Humidity	10% ~ 95% (Non-condensing, RH)	10% ~ 95% (Non-condensing, RH)
Certifications		
Safety	CE, FCC,	CE, FCC

Embedded Computing

Arm Series SBC

Custom configuration



Memory



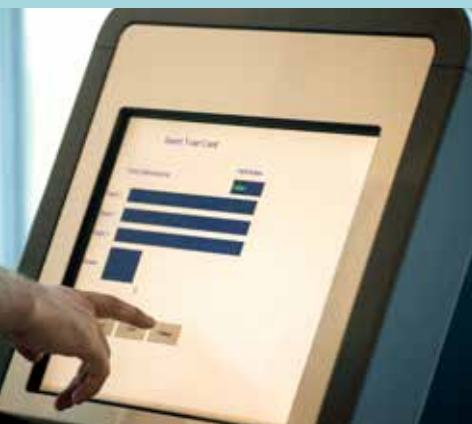
Micro SD Card
Slot



PoE



Application



Self-Service Kiosks

"EASY INTEGRATION"

An interactive Kiosk manufacturer was looking for an Android based solution for their smart kiosks. Winmate provided Arm Box PC with Android 6.0 with multiple interface.

“ **ENDLESS SOFTWARE
DEVELOPMENT
POSSIBILITIES.**

”

- Fully integrated small-sized Arm SBC
- Arm Cortex-A9
- Arm Cortex-A72 + Arm Cortex-A53
- Android/Ubuntu/Linux 4.1.15 (QT 5.5)

3.5" form factor

Onboard 16GB eMMC/mSATA

USB 3.0, USB OTG

RJ45 for Ethernet

Micro HDMI

RS232/422/485, CANBus

9~24V DC power input

Operating temperature -20°C to 60°C

Accessories

Standard

User Manual

Driver CD

Arm Series SBC

Arm Cortex-A9

Arm Cortex-A72 + Arm Cortex-A53

MS-01 SoM (SDA660 designed by USI)



Q2, 2020

Model Name	FA30	RK30	QM30
System			
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	MS-01 SoM (SDA660 designed by USI)
Memory	1GB DDR3	LPDDR3 2GB	3GB LPDDR4 (Optional 4GB)
Expansion Slot	Micro SD/SDHC card slot	Micro SD/SDHC card slot	Micro SD/SDHC card slot
Ethernet Controller	IEEE 802.3/802.3u 10/100 Base-T	IEEE 802.3/802.3u 10/100 Base-T	IEEE 802.3/502.3u010/100 Base-T
OS	Android 6.0 (Default) Linux Ubuntu 16.04 (Optional) Linux 4.1.15 QT 5.5 (Optional)	Android 7.1 Debian 9	Android 9.0
Storage	Onboard 16GB eMMC	Onboard 16GB eMMC	32GB MLC (Optional 64GB)
Connectors			
Power	1 x Terminal Block 2-pin (DC In)	1 x Terminal Block 3-pin (DC In)	1 x Terminal Block 3-pin (CD In)
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 2.0 1 x Mini USB for Debug 1 x USB OTG 4 x USB by 2 pin-header (4 pin)	2 x USB 3.0 1 x USB 2.0 OTG	2 x USB 2.0 1 x USB Type-C
HDMI	1 x Micro HDMI	1 x Micro HDMI	-
Micro SD Card Slot	1 x Micro SD/ SDHC card slot	1 x Micro SD/ SDHC card slot	1 x Micro SD Card Slot
CANBus	1 x CANBus	-	-
I2C Touch	1 x I2C Touch by pin-header	1 x Touch Connector/1x6-pin (CN7 for 7") 1 x Touch Connector/1x6-pin (CN8 for 10.1")	1 x USB Touch by pin header
LVDS	1 x LVDS by pin-header	1 x LVDS Connector (CON4 for 10.1" 1920 x 1200) 1 x LVDS Connector (CON3 for 7") 1x LVDS Connector (LVDS1 for 10.1" and 15")	1 x LVDS Connectors
Digital I/O	1 x Digital I/O with 3.3V (6-pin GPIO)	1 x Digital I/O/2x7-pin (DI/DO1)	1 x Digital I/O/2x7-pin
Power			
Power Input	9~24V DC	12V DC Terminal Block/ PoE 48V DC in	12V DC Terminal Block
Mechanical			
Dimensions	146 x 91.6 mm	146 x 102 mm	-
Environment			
Operating Tempe.	-20°C to 60°C	-20° to 60°C	-20 to 60
Storage Temp.	-40°C to 70°C	-40° to 70°C	-40 to 70
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% @30°C (Non-condensing, RH)	10% to 95% @30C (Non-condensing, RH)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC



LINE A

LINE B



START STOP

START STOP

INDUSTRIAL DISPLAY

Standard Industrial Display

Overview	147
Product Overview	148
Technology	149
Product Guide	150
Panel Mount	151
Open Frame	153
Chassis	155
Rear Mount	157
Front IP65	159
Rack Mount	161
Multi-Touch Series	163
1U Console Drawer	165
LCD Kit	167

Featured Industrial Display

Overview	169
Product Offering	170
Technology	170
Product Guide	172
12G-SDI Series	173
4K UHD	175
PT Series	177
IP69K Stainless P Series	179
IP69K Stainless	181
IP67 Stainless	183
Stainless Series with Push Buttons	185
IP65 Stainless PCAP	187
IP65 Stainless Resistive	189
Front IP65 Stainless	191
G-WIN GC Series	193
G-WIN GS Series	195
G-WIN VM Series	197
IP67 Aluminum	199
USB Type-C	201
PoE Series	205
SDI Series	207
High Brightness	209
Transflective	213
Wide Temperature	215



Standard Industrial Display

Overview

Winmate designs, develops and manufactures display systems for industrial applications, including factory automation, marine, military, oil and gas, healthcare and other vertical markets. Our rich experience in LCD technology allows delivering a wide range of digital displays, including bar-type, stainless, or special sizes to meet the requirements of the industrial applications.

Winmate's industrial display solutions include:

- Various housing options: chassis, open frame, panel mount, rack mount, front IP65
- Touch capabilities: resistive, projected capacitive or SAW touch screen
- Touch and panel optical bonding

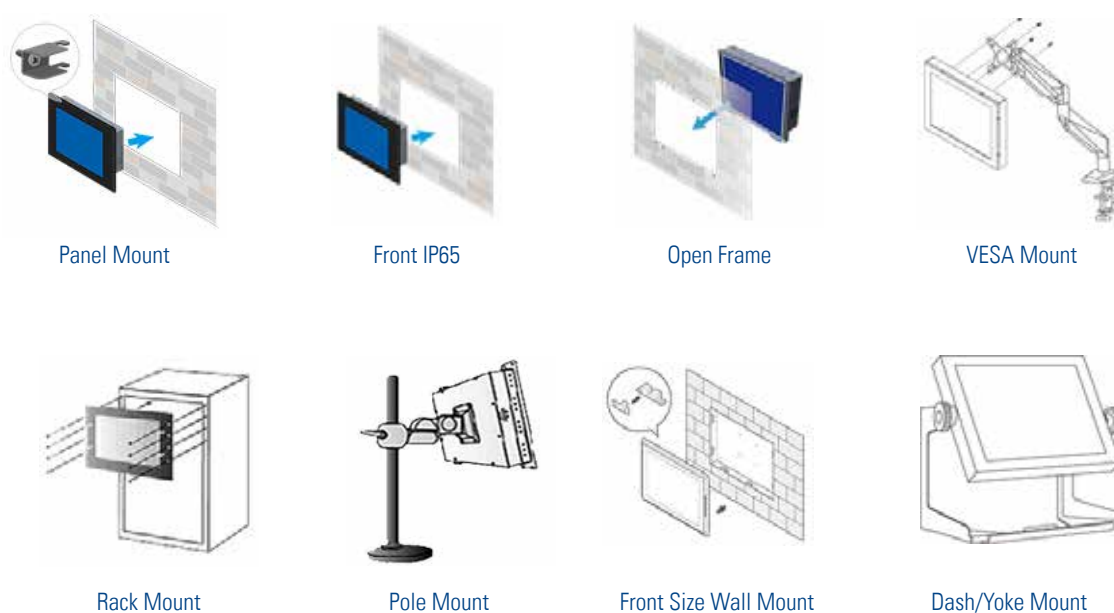


Product Overview

Winmate industrial displays also provide several kinds of mounting solutions for your unique application and environment, such as chassis, panel mount, open frame, rear mount, rack mount, bar-type and others.

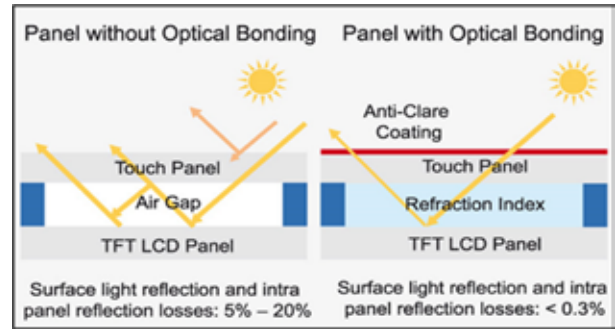


Various Mounting Options



In-house Direct Optical Bonding

Winmate has in-house facilities for direct optical bonding. The advantages of optical bonding is minimizing the reflection from inner-surface of the glass, improved ruggedness, condensation prevention and increased anti-shock and vibration capabilities.

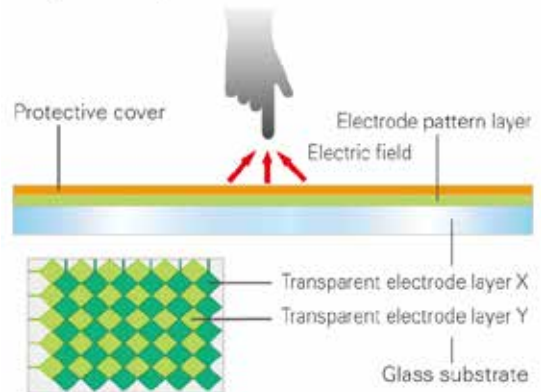


Ultimate Touch Experience

Projected Capacitive Multi-Touch

A projected capacitive is composed of a sheet of glass with embedded transparent electrode films and an IC chip, which creates a three dimensional electrostatic field. When a finger comes into contact with the screen, the ratios of the electrical currents change and the display is able to detect the touch points. In addition to bare fingers, PCAP touch screen supports working with gloves.

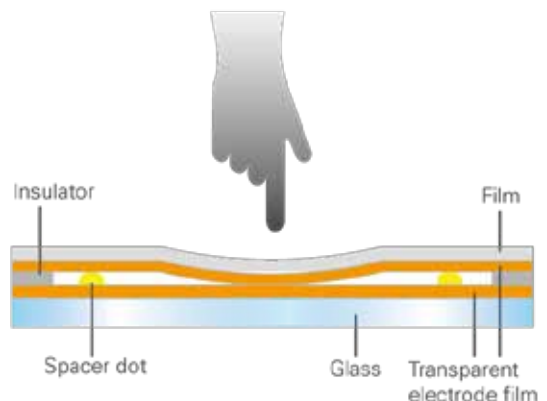
Projected Capacitive



Resistive Touch

A resistive touchscreen is a touch-sensitive display composed of two flexible sheets coated with a resistive material and separated by an air gap or microdots. Resistive touchscreens typically have high resolution, providing accurate touch control. Because the touchscreen responds to pressure on its surface, contact can be made with a finger or any other pointing device.

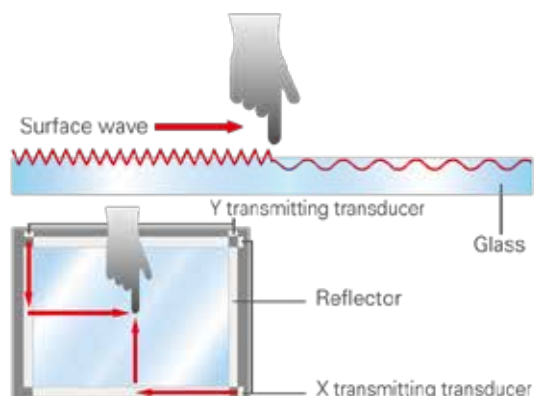
Resistive Touch



Surface Acoustic Wave (SAW) Touch

Flat-screen SecureTouch products are made of extra-tough glass substrates that resist vandalism. These touchscreens incorporate the solid-glass and coating-free construction of Elo's proven IntelliTouch® products. SAW monitors offer easy use and high visibility.

Surface Acoustic Wave (SAW)



Product Guide – Standard Industrial Display

Our product guide helps you to navigate and find the right product from our excessive product line.

Panel Mount Display	Open Frame Display
	
5.7"~32"	5.7"~55"
p.151	p.153
Chassis Display	Rear Mount Display
	
6.5"~55"	8.4"~24"
p.155	p.157
Front IP65	Rack Mount
	
5.7"~27"	15"~20.1"
p.159	p.161
Multi-Touch Series Display	LCD Kit
	
7"~43"	5.7"~32"
p.163	p.167

5.7"~32" Industrial Display Panel Mount

Custom configuration



Audio and
Speaker



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video



Composite



Application



Machine Control

"VISUALIZE VALUABLE
INFORMATION."

Control panel on manufacture
of pharmaceutical and
chemical industry.

**“ RELIABLE DESIGN FOR
FACTORY FLOOR. ”**

- 5.7"~32" screen
- Panel mount, VESA mount

VGA, HDMI video input

Touch interface USB or RS232

OSD control 5 keys

VESA mount

Operating temperature 0°C to 50°C

Accessories

Power Cord

AC Adapter

Touch Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Industrial Display

Panel Mount Display



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
5.7"	R05T100-PMD1(HB)	115.2 x 86.4	640 x 480	300:1 (Typ.)	900 nits	-70~70 (H); -40~60 (V)	No	12V DC	15 W (Typ.)	*
6.5"	R06L200-PMA1	132.48 x 99.36	640 x 480	600:1 (Typ.)	700 nits	-80~80 (H); -70~70 (V)	No	12V DC	15 W (Typ.)	*
8.4"	R08L200-PMU1	170.4 x 127.8	800 x 600	600:1 (Typ.)	600 nits	-75~75 (H); -60~70 (V)	Yes	12V DC	15 W (Typ.)	*
10.1" (16:10)	W10L100-PMH1	222.72 x 125.28	1024 x 600	800:1 (Typ.)	450 nits	-80~80 (H); -80~75 (V)	Yes	12V DC	10 W (Typ.)	*
10.4"	R10L600-PMP1	211.2 x 158.4	800 x 600	400:1 (Typ.)	600 nits	-70~70 (H); -70~60 (V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L100-PMT2	210.4 x 157.8	1024 x 768	1200:1 (Typ.)	350 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L100-PMP3	211.2x158.4	640 x 480	700:1 (Typ.)	450 nits	-80~80 (H); -60~80 (V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12L600-PMM2	245.76 x 184.32	1024 x 768	700:1 (Typ.)	500 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	20 W (Typ.)	*
12.1"	R12T600-PML1	246.0 x 184.5	800 x 600	700:1 (Typ.)	450 nits	-80~80 (H); -75~65 (V)	Yes	12V DC	16 W (Typ.)	*
15"	R15L100-PMA1	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	550 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L600-PMC3	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15 W (Typ.)	*
17"	S17L500-PMM1	337.92 x 270.336	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	36 W (Typ.)	*
19"	R19L300-PMM2	376.3 x 301.1	1280 x 1024	1300:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	54 W (Typ.)	*
19"	R19L300-PMM1	376.3 x 301.1	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27 W (Typ.)	*
20.1"	R20L100-PMA2	408.0 x 306.0	1600 x 1200	1400:1 (Typ.)	330 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	60 W (Typ.)	*
21.5" (16:9)	W22L100-PMA3	476.64 x 268.11	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
22" (16:10)	W22L100-PMM1	473.76 x 296.1	1680 x 1050	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	25 W (Typ.)	*
23.8" (16:9)	W24L100-PMA2	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
24" (16:10)	W24L100-PMS1	518.41 x 324.0	1920 x 1200	1000:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
32" (16:9)	W32L300-PMA3	698.4 x 392.85	1920 x 1080	3000:1 (Typ.)	400 nits	-89~89 (H); -89~89 (V)	Yes	24V DC	75 W (Typ.)	*

5.7"~55" Industrial Display

Open Frame

Custom configuration



Audio and
Speaker



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video



Composite



“

**SLEEK & SLIM OPEN
FRONT FRAME.**

”

- 5.7"~55" screen
- Rear mount, VESA mount
- Optional touch or glass

VGA, HDMI video input

Touch interface USB or RS232

OSD control 5 keys

VESA mount

Operating temperature 0°C to 50°C

Application



Vending Machine

“SPEEDS UP PASSENGER
TRAFFIC.”

Winmate open frame display
with touch screen is a part
of a railway ticket vending
machine.

Accessories

Power Cord

AC Adapter

Touch Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Industrial Display

Open Frame Display



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR≥10)	Optional DVI Input	Power Input	Power Consumption	Resistive
5.7"	R05T100-OFD1(HB)	115.2 x 86.4	640 x 480	300:1 (Typ.)	900 nits	-70~70 (H); -40~60 (V)	No	12V DC	15 W (Typ.)	*
6.5"	R06L200-OFA1	132.48 x 99.36	640 x 480	600:1 (Typ.)	700 nits	-80~80 (H); -70~70 (V)	No	12V DC	15 W (Typ.)	*
7" (16:10)	W07T700-OFA4	152.40 x 91.44	800 x 480	1000:1(Typ.)	400 nits	-80~80 (H); -80~80 (V)	Yes	12V DC	10 W (Typ.)	*
8"	R08T100-OFA1	162.0 x 121.5	800 x 600	400:1 (Typ.)	250 nits	-70~70 (H); -70~50 (V)	Yes	12V DC	10 W (Typ.)	*
8.4"	R08L200-OFU1	170.4 x 127.8	800 x 600	600:1 (Typ.)	600 nits	-75~75 (H); -60~70 (V)	Yes	12V DC	15 W (Typ.)	*
10.1" (16:10)	W10L100-OFH1	222.72 x 125.28	1024 x 600	800:1 (Typ.)	450 nits	-80~80 (H); -80~75 (V)	Yes	12V DC	10 W (Typ.)	*
10.4"	R10L100-OFD3	211.2 x 158.4	640 x 480	700:1 (Typ.)	450 nits	-80~80 (H) ; -60~80 (V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L600-OFD1	211.2 x 158.4	800 x 600	400:1 (Typ.)	600 nits	-70~70 (H); -70~60 (V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L100-OFT2	210.4 x 157.8	1024 x 768	1200:1 (Typ.)	350 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12L600-OFM2	245.76 x 184.32	1024 x 768	700:1 (Typ.)	500 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	20 W (Typ.)	*
12.1"	R12T600-OFL1	246.0 x 184.5	800 x 600	700:1 (Typ.)	450 nits	-80~80 (H); -75~65 (V)	Yes	12V DC	16 W (Typ.)	*
12.1" (16:10)	W12L100-OFM9	261.12 x 163.2	1280 x 800	1000:1 (Typ.)	400 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L600-OFD3	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15 W (Typ.)	*
15"	R15L100-OFA3	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	500 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	17 W (Typ.)	*
15"	R15L100-OFA1	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	550 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	20 W (Typ.)	*
15.6" (16:9)	W15L100-OFA2	344.2 x 195.5	1366 x 768	500:1 (Typ.)	400 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	25 W (Typ.)	*
17"	S17L500-OFM1	337.92 x 270.336	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	36 W (Typ.)	*
18.5" (16:9)	W18L100-OFA2	409.8 x 230.4	1366 x 768	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	19 W (Typ.)	*
19"	R19L300-OFM2	376.3 x 301.1	1280 x 1024	1300:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	54 W (Typ.)	*
19"	R19L300-OFM1	376.3 x 301.1	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27 W (Typ.)	*
19"	R19L300-OFA1	376.3 x 301.1	1280 x 1024	500:1 (Typ.)	400 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	54 W (Typ.)	*
20.1"	R20L100-OFA2	408.0 x 306.0	1600 x 1200	1400:1 (Typ.)	330 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	60 W (Typ.)	*
21.5" (16:9)	W22L100-OFA3	476.64 x 268.11	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
22" (16:10)	W22L100-OFM1	473.76 x 296.1	1680 x 1050	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	25 W (Typ.)	*
23.1"	R23L100-OFS1	470.4 x 352.8	1600 x 1200	600:1 (Typ.)	500 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	80 W (Typ.)	*
23.8" (16:9)	W24L100-OFA2	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
24" (16:10)	W24L100-OFS1	518.4 x 324	1920 x 1200	1000:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
27" (16:9)	W27L100-OFA1	596.7 x 336.15	1920 x 1080	3000:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
32" (16:9)	W32L300-OFA3	698.4 x 392.85	1920 x 1080	4000:1 (Typ.)	400 nits	-89~89 (H); -89~89 (V)	Yes	24V DC	75 W (Typ.)	*
42" (16:9)	W42L300-OFA3	930.24 x 523.26	1920 x 1080	2500:1 (Typ.)	500 nits	-89~89 (H); -89~89 (V)	Yes	24V DC	100 W (Typ.)	*
55" (16:9)	W55L100-OFL2	1209.6 x 680.4	1920 x 1080	4000:1 (Typ.)	500 nits	-89~89 (H); -89~89 (V)	Yes	100~240V AC	145W (Typ.)	*

6.5"~55" Industrial Display Chassis

Custom configuration



Housing



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video



Composite



Audio and
Speaker



Application



Pharmacy Information Display

"VERSATILE MOUNTING SOLUTION."

Chassis LCD installed on the VESA arm displays order information in the pharmacy back-end.

" FIT SEAMLESSLY INTO SPACE CONSTRICTED APPLICATIONS. "

- 6.5"~55" screen
- Panel mount, VESA mount

VGA, HDMI video input

Touch interface USB or RS232

OSD control 5 keys

VESA mount

Operating temperature 0°C to 50°C

Accessories

Power Cord

AC Adapter

Touch Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Industrial Display

Chassis



Size	Model Name	Active Display Area (mm)	Number of Pixels	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Power Input	Optional DVI Input	Resistive
6.5"	R06L200-CHA1	132.48 x 99.36	640 x 480	600:1(Typ.)	700 nits	-80~80 (H); -70~70 (V)	12V DC	No	*
8"	R08T100-CHA1	162.0 x 121.5	800 x 600	400:1(Typ.)	250 nits	-70~70 (H), -70~50 (V)	12V DC	Yes	*
8.4"	R08L200-CHU1	170.4 x 127.8	800 x 600	600:1(Typ.)	600 nits	-75~75 (H); -60~70 (V)	12V DC	Yes	*
10.1"(16:10)	W10L100-CHH1	222.72 x 125.28	1024 x 600	800:1(Typ.)	450 nits	-80~80 (H); -80~75 (V)	12V DC	Yes	*
10.1"(16:10)	W10L100-CHA1	216.81 x 135.50	1920 x 1200	800:1(Typ.)	700 nits	-89~89 (H); -89~89 (V)	12V DC	Yes	*
10.4"	R10L600-CHP1	211.2 x 158.4	800 x 600	400:1(Typ.)	600 nits	-70~70 (H); -70~60 (V)	12V DC	Yes	*
10.4"	R10L100-CHT2	210.4 x 157.8	1024 x 768	1200:1(Typ.)	350 nits	-88~88 (H); -88~88 (V)	12V DC	Yes	*
12.1"	R12T600-CHL1	246.0 x 184.5	800 x 600	700:1(Typ.)	450 nits	-80~80 (H); -75~65 (V)	12V DC	Yes	*
12.1"	R12L600-CHM2	245.76 x 184.32	1024 x 768	700:1(Typ.)	500 nits	-89~89 (H); -89~89 (V)	12V DC	Yes	*
12.1"(16:10)	W12L100-CHM9	261.12 x 163.2	1280 x 800	1000:1(Typ.)	400 nits	-88~88 (H); -88~88 (V)	12V DC	Yes	*
15"	R15L600-CHC3	304.1 x 228.1	1024 x 768	2000:1(Typ.)	250 nits	-88~88 (H); -88~88 (V)	12V DC	Yes	*
15"	R15L100-CHA1	304.1 x 228.1	1024 x 768	2000:1(Typ.)	550 nits	-88~88 (H); -88~88 (V)	12V DC	Yes	*
15"	R15L100-CHA3	304.1 x 228.1	1024 x 768	2500:1(Typ.)	500 nits	-88~88 (H); -88~88 (V)	12V DC	Yes	*
15.6"(16:9)	W15L100-CHA2	344.2 x 195.5	1366 x 768	500:1(Typ.)	400 nits	-85~85 (H); -80~80 (V)	12V DC	Yes	*
17"	R17L500-CHM1	337.92 x 270.336	1280 x 1024	1000:1(Typ.)	350 nits	-85~85 (H); -80~80 (V)	12V DC	Yes	*
19"	R19L300-CHM1	376.3 x 301.1	1280 x 1024	1000:1(Typ.)	250 nits	-85~85 (H); -80~80 (V)	12V DC	Yes	*
19"	R19L300-CHA1	376.3 x 301.1	1280 x 1024	500:1(Typ.)	400 nits	-85~85 (H); -80~80 (V)	12V DC	Yes	*
19"	R19L300-CHM2	376.3 x 301.1	1280 x 1024	1300:1(Typ.)	300 nits	-89~89 (H); -89~89 (V)	12V DC	Yes	*
20.1"	R20L100-CHA2	408 x 306	1600 x 1200	1400:1(Typ.)	330 nits	-85~85 (H); -85~85 (V)	12V DC	Yes	*
21.5"(16:9)	W22L100-CHA3	476.64 x 268.11	1920 x 1080	3000:1(Typ.)	250 nits	-89~89 (H); -89~89 (V)	12V DC	Yes	*
22"(16:10)	W22L100-CHM1	473.76 x 296.1	1680 x 1050	1000:1(Typ.)	250 nits	-85~85 (H); -80~80 (V)	12V DC	Yes	*
23.1"	R23L100-CHS1	470.4 x 352.8	1600 x 1200	600:1(Typ.)	500 nits	-85~85 (H); -85~85 (V)	12V DC	Yes	
23.8"(16:9)	W24L100-CHA2	527.04 x 296.46	1920 x 1080	3000:1(Typ.)	250 nits	-89~89 (H); -89~89 (V)	12V DC	Yes	*
24"(16:10)	W24L100-CHS1	518.4 x 324	1920 x 1200	1000:1(Typ.)	300 nits	-89~89 (H); -89~89 (V)	12V DC	Yes	
27"(16:9)	W27L100-CHA1	597.6 x 336.15	1920 x 1080	2000:1(Typ.)	300 nits	-89~89 (H); -89~89 (V)	12V DC	Yes	
30"(16:10)	W30L100-CHL1	641.28 x 400.8	2560 x 1600	1000:1(Typ.)	350 nits	-89~89 (H); -89~89 (V)	12V DC	Yes	
32"(16:9)	W32L300-CHA3	698.40 x 392.85	1920 x 1080	3000:1(Typ.)	400 nits	-89~89 (H); -89~89 (V)	24V DC	Yes	
42"(16:9)	W42L100-OML2	930.24 x 523.26	1920 x 1080	4000:1(Typ.)	450 nits	-89~89 (H); -89~89 (V)	100~ 240V AC	Yes	
55"(16:9)	W55L100-OML2	1209.6 x 680.4	1920 x 1080	4000:1(Typ.)	500 nits	-89~89 (H); -89~89 (V)	100~ 240V AC	Yes	

8.4"~24" Industrial Display

Rear Mount

Custom configuration



Housing



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video



Composite



Audio and
Speaker

Application



ATM Machine

"RELIABLE AND SECURE
PAYMENTS."

Rear mount LCD is secured
from the back and leaves on
sides of the panel outside.



“

**WHERE SAFETY IS A
PRIORITY.**

”

- 8.4"~20.1" screen
- Rear mount

VGA, HDMI video input

Touch interface USB or RS232

OSD control 5 keys

VESA mount

Operating temperature 0°C to 50°C

Accessories

Power Cord

AC Adapter

Touch Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Industrial Display

Rear Mount



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR≥10)	Optional DVI Input	Power Input	Power Consumption	Resistive
8.4"	R08L200-RMU1	170.4 x 127.8	800 x 600	600:1 (Typ.)	600 nits	-75~75 (H); -60~70 (V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L600-RMP1	211.2 x 158.4	800 x 600	400:1 (Typ.)	600 nits	-70~70 (H); -70~60 (V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12T600-RML1	246.0 x 184.5	800 x 600	700:1 (Typ.)	450 nits	-80~80 (H); -75~65 (V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12L600-RMM2	245.76 x 184.32	1024 x 768	700:1 (Typ.)	500 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L600-RMA1	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	550 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L600-RMC3	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15 W (Typ.)	*
17"	S17L500-RMM1	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	36 W (Typ.)	*
19"	R19L300-RMM2	376.3 x 301.1	1280 x 1024	1300:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	54 W (Typ.)	*
19"	R19L300-RMM1	376.3 x 301.1	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27 W (Typ.)	*
20.1"	R20L100-RMA2	408.0 x 306.0	1600 x 1200	1400:1 (Typ.)	330 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	60 W (Typ.)	*
21.5"	W22L100-RMA3	476.64 x 268.11	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	63 W (Typ.)	*
24"	W24L100-RMA2	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	65 W (Typ.)	*

5.7"~27" Industrial Display

Front IP65

Custom configuration



Audio and
Speaker



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video



Composite

Application



Beautician cabinet

"WATERPROOF FRONT
PANEL."

Designed to be rugged,
front IP65- displays are ideal
for use in wet and dusty
environments.



“

**FOR WET AND DUSTY
ENVIRONMENTS.**

”

- 5.7"~32" screen
- Panel mount, VESA mount

VGA, HDMI video input

Touch interface USB or RS232

OSD control 5 key

VESA mount

Operating temperature 0°C to 50°C

Accessories

Power Cord

AC Adapter

Touch Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Industrial Display

Front IP65



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR≥10)	Optional DVI Input	Power Input	Power Consumption	Resistive
5.7"	R05T100-IPD1(HB)	115.2 x 86.4	640 x 480	300:1 (Typ.)	900 nits	-70~70 (H); -40~60 (V)	No	12V DC	15 W (Typ.)	*
6.5"	R06L200-IPA1	132.48 x 99.36	640 x 480	600:1 (Typ.)	700 nits	-80~80 (H); -70~70 (V)	No	12V DC	10 W (Typ.)	*
8.4"	R08L200-IPU1	170.4 x 127.8	800 x 600	600:1 (Typ.)	600 nits	-75~75 (H); -60~70 (V)	No	12V DC	15 W (Typ.)	*
10.1"(16:10)	W10L100-IPH1	222.72 x 125.28	1024 x 600	800:1 (Typ.)	450 nits	-80~80 (H); -80~75 (V)	No	12V DC	10 W (Typ.)	*
10.4"	R10L600-IPP1	211.2 x 158.4	800 x 600	400:1 (Typ.)	600 nits	-70~70 (H); -70~60 (V)	No	12V DC	15 W (Typ.)	*
10.4"	R10L100-IPT2	210.4 x 157.8	1024 x 768	1200:1 (Typ.)	350 nits	-88~88 (H); -88~88 (V)	No	12V DC	15 W (Typ.)	*
12.1"	R12L600-IPM2	245.76 x 184.32	1024 x 768	700:1 (Typ.)	500 nits	-89~89 (H); -89~89 (V)	No	12V DC	20 W (Typ.)	*
12.1"	R12T600-IPL1	246.0 x 184.5	800 x 600	700:1 (Typ.)	450 nits	-80~80 (H); -75~65 (V)	No	12V DC	15 W (Typ.)	*
15"	R15L100-IPA1	304.1 x 228.1	1024 x 768	700:1 (Typ.)	550 nits	-80~80 (H); -70~70 (V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L600-IPC3	304.1 x 228.1	1024 x 768	700:1 (Typ.)	250 nits	-80~80 (H); -70~70 (V)	Yes	12V DC	15 W (Typ.)	*
17"	S17L500-IPM1	337.92 x 270.336	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27 W (Typ.)	*
19"	R19L300-IPM1	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27 W (Typ.)	*
19"	R19L300-IPM2	376.32 x 301.06	1280 x 1024	2000:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	54 W (Typ.)	*
20.1"	R20L100-IPA2	408.0 x 306.0	1600 x 1200	1400:1 (Typ.)	330 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	60 W (Typ.)	*
21.5"(16:9)	W22L100-IPA3	476.64 x 269.11	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
22"(16:10)	W22L100-IPM1	473.76 x 296.1	1680 x 1050	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	25 W (Typ.)	*
23.8"(16:9)	W24L100-IPA2	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
24"(16:10)	W24L100-IPS1	518.14 x 324	1920 x 1200	1000:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
27"(16:9)	W27L100-IPA1	597.6 x 336.15	1920 x 1080	3000:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*

15"~20.1" Industrial Display Rack Mount

Custom configuration



Audio and
Speaker



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video



Composite



“ **FOR INSTALLATION IN
VERTICAL SURFACES.** ”

- 15"~20.1" screen
- Rack mount

VGA, HDMI video input

Touch interface USB or RS232

OSD control 5 keys

VESA mount

Operating temperature 0°C to 50°C

Application



Network Server

“SUPERIOR
FUNCTIONALITY.”

Being able to be mounted to walls, shelves, and other vertical surfaces, Winmate's 15-inch rack mount display is able to visualize data from network servers in a data room.

Accessories

Power Cord

AC Adapter

Touch Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Industrial Display

Rack Mount



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
15"	R15L600-RKC3	304.1 x 228.1	1024 x 768	700:1 (Typ.)	250 nits	-80~80 (H); -70~70 (V)	Yes	12V DC	15 W (Typ.)	*
15"	R15L100-RKA1	304.1 x 228.1	1024 x 768	700:1 (Typ.)	550 nits	-80~80 (H); -70~70 (V)	Yes	12V DC	20 W (Typ.)	*
17"	R17L500-RKM1	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27 W (Typ.)	*
19"	R19L300-RKM1	376.32 x 301.056	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27 W (Typ.)	*
19"	R19L300-RKM2	376.32 x 301.056	1280 x 1024	2000:1 (Typ.)	300 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	54 W (Typ.)	*
20.1"	R20L100-RKA2	408.0 x 306.0	1600 x 1200	1400:1 (Typ.)	330 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	60 W (Typ.)	*

7"~43" Industrial Display Multi-Touch Series

Custom configuration



Housing



Resistive
Touchscreen



Audio and
Speaker



DVI-D



S-Video



Composite



“
SLEEK AND STYLISH DESIGN.
”

- 7"~43" screen with PCAP touchscreen
- Chassis, panel mount, open frame

VGA, HDMI video input

Touch interface USB

OSD control 5 key

VESA mount

Operating temperature 0°C to 50°C

In-Vehicle Navigation

“ROUTE OPTIMIZATION
AND EASY NAVIGATION.”

Installed inside a tractor,
information and navigation
display helps to optimize
harvesting wheat field.



Accessories

Power Cord

Adapter

Touch Drive CD

VGA Cable 1.8m

VGA Cable 1.8m

Industrial Display

Multi-Touch Series



Chassis

Size	Model Name	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Display Colors	Power Input	Power Consumption	Capacitive
7" (16:10)	W07L100-PCO1	1024 x 600	700:1 (Typ.)	1000 nits	-75~75 (H); -75~70 (V)	16.7M	12V DC	10W (Typ.)	*
7" (16:10)	W07L100-PCT1	1024 x 600	500:1 (Typ.)	320 nits	-75~75 (H); -75~70 (V)	16.7M	12V DC	10W (Typ.)	*
10.1" (16:10)	W10L100-PCH1	1024 x 600	800:1 (Typ.)	450 nits	-75~80 (H); -80~80 (V)	16.7M	12V DC	10W (Typ.)	*
10.1" (16:10)	W10L100-PCH2	1280 x 800	800:1 (Typ.)	350 nits	-85~85 (H); -85~85 (V)	16.7M	12V DC	10W (Typ.)	*
10.1" (16:10)	W10L100-PCH2LB	1280 x 800	800:1 (Typ.)	350 nits	-85~85 (H); -85~85 (V)	16.7M	12V DC	10W (Typ.)	*
10.4"	R10L100-PCT2	1024 x 768	1000:1 (Typ.)	350 nits	-88~88 (H); -88~88 (V)	16.2M	12V DC	10W (Typ.)	*
12.1"	R12L100-PCM2	1024 x 768	700:1 (Typ.)	500 nits	-80~80 (H); -70~70 (V)	16.2M	12V DC	12W (Typ.)	*
15"	R15L600-PCC3	1024 x 768	2000:1 (Typ.)	1000 nits	-88~88 (H); -88~88 (V)	16.2M	12V DC	25W (Typ.)	*
15"	R15L100-PTC3	1024 x 768	2000:1 (Typ.)	300 nits	-88~88 (H); -88~88 (V)	16.2M	12V DC	10W (Typ.)	*
15.6" (16:9)	W15L100-PTA3	1920 x 1080	700:1 (Typ.)	300 nits	-85~85 (H); -85~85 (V)	16.2M	12V DC	10W (Typ.)	*
18.5" (16:9)	W18L100-PTA2	1366 x 768	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	16.7M	12V DC	30W (Typ.)	*
23.8" (16:9)	W24L100-POA2	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	16.7M	12V DC	40W (Typ.)	*
32" (16:9)	W32L100-PCA3	1920 x 1080	3000:1 (Typ.)	400 nits	-89~89 (H); -89~89 (V)	16.7M	100~240V AC	75W (Typ.)	*
43" (16:9)	W43L100-PCA3	1920 x 1080	3000:1 (typ.)	400 nits	-89~89 (H); -89~89 (V)	16.7M	100~240V AC	75W (Typ.)	*



Front IP65

Size	Model Name	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Capacitive
8.4"	R08L200-PPU1	800 x 600	600:1 (Typ.)	600 nits	-75~75 (H); -60~70 (V)	Yes	12V DC	15 W (Typ.)	*
10.1" (16:10)	W10L100-EHH2	1280 x 800	800:1 (Typ.)	300 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	10 W (Typ.)	*
10.4"	R10L100-PPT2	1024 x 768	1000:1 (Typ.)	350 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15 W (Typ.)	*
15"	R15L600-PPC3	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15 W (Typ.)	*
15.6" (16:9)	W15L100-PPA4	1920 x 1080	800:1 (Typ.)	300 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	25 W (Typ.)	*
17"	R17L100-PPM1	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	36W (Typ.)	*
19"	R19L300-PPM1	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27 W (Typ.)	*
21.5" (16:9)	W22L100-PPA3	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40 W (Typ.)	*
24" (16:9)	W24L100-PPA2	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	65 W (Typ.)	*



Open Frame

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Capacitive
7" (16:10)	W07L100-POT1	153.6 x 90	1024 x 600	1100:1 (Typ.)	320 nits	-70~75 (H); -75~75 (V)	Yes	12V DC	10W (Typ.)	*
10.1" (16:10)	W10L100-POH2	216.96 x 135.60	1280 x 800	800:1 (Typ.)	350 nits	-85~85 (H); -85~85 (V)	Yes	12V DC	10W (Typ.)	*
10.1" (16:9)	W10L100-POA1	216.57 x 135.36	1920 x 1080	800:1 (Typ.)	700 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	10W (Typ.)	*
15"	R15L100-POC3	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15W (Typ.)	*
17"	R17L100-POM1	337.920 x 270.336	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	36W (Typ.)	*
19"	R19L100-POM1	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27W (Typ.)	*
21.5" (16:9)	W22L100-POA3	476.64 x 269.11	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	40W (Typ.)	*
24" (16:9)	W24L100-POA2	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	65W (Typ.)	*
32" (16:9)	W32L100-POA3	698.4 x 392.85	1920 x 1080	3000:1 (Typ.)	400 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	75W (Typ.)	*

17" / 19" Industrial Display

1U Console Drawer



**“A SINGLE SET OF KEYBOARD,
MONITOR & MOUSE.”**

- 17"/19" screen
- Console mount

VGA video input

Keyboard, mouse: HDB-15

OSD control 5 keys

Console mount

Operating temperature 0°C to 50°C

Application



Enterprise Data Center

**“SAVE SPACE AND CAN
BE DRAWN
WHEN NEEDED.”**

Provides ease of access to servers, making software upgrades, troubleshooting and system monitoring convenient and less time consuming.

Accessories

Power Cord

AC Adapter

Touch Drive CD

VGA Cable 1.8m

Industrial Display

1U Console Drawer



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Power Input	Power Consumption
17"	LDS310D-1P	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	12V DC	35 W (Typ.)
17"	LDS310D-16P	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	12V DC	35 W (Typ.)
19"	LDS410D-1P	376.32 x 301.056	1280 x 1024	500:1 (Typ.)	250 nits	-85~85 (H); -85~85 (V)	12V DC	35 W (Typ.)
19"	LDS410D-16P	376.32 x 301.056	1280 x 1024	500:1 (Typ.)	250 nits	-85~85 (H); -85~85 (V)	12V DC	35 W (Typ.)

5.7"~32" Industrial Display LCD Kit

Custom configuration



HDMI



“ **CREATE YOUR OWN
DISPLAY SOLUTION.** ”

- 5.7" ~32" screen LCD kit solution
- Chassis, open frame, panel mount, front IP65
- Sunlight readable screen

VGA, DVI video input

Operating temperature 0°C to 50°C

Exhibition Hall Information Stand

“FOR BRIGHT LIT
LOCATIONS.”

Installed in an exhibition hall and wired with display in the hall to inform visitors about the latest daily schedule, allow them to see overview of the meeting venues and its location.

Accessories

Scaler Board	Driver Board	OSD Board	Panel	Panel Cable
LED Driver Cable	OSD Cable			

Industrial Display

LCD Kit



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
5.7"	R057-D1(HB)	115.2 x 86.4	640 x 480	300:1 (Typ.)	900 nits	-70~70 (H); -40~60 (V)	Yes (R2AH)	12V DC	15 W (Typ.)	*
7"(16:10)	W070-O1(HB)	153.6 x 90.0	1024 x 600	700:1 (Typ.)	1000 nits	-75~75 (H); -75~70 (V)	Yes (R2AH)	12V DC	8 W (Typ.)	*
8.4"	R084-T1(HB)	170.4 x 127.8	800 x 600	600:1 (Typ.)	1000 nits	-80~80 (H); -60~80 (V)	Yes (R2AH)	12V DC	15 W (Typ.)	*
10.1"(16:10)	W101-H1(HB)	222.72 x 125.28	1024 x 600	800:1 (Typ.)	800 nits	-80~80 (H); -80~75 (V)	Yes (R2AH)	12V DC	7 W (Typ.)	*
10.4"	R104-P1(HB)	211.2 x 158.4	800 x 600	400:1 (Typ.)	1000 nits	-70~70 (H); -70~60 (V)	Yes (R2AH)	12V DC	15 W (Typ.)	*
12.1"	R121-M2(HB)	245.76 x 184.32	1024 x 768	700:1 (Typ.)	1000 nits	-80~80 (H); -70~70 (V)	Yes (R2AH)	12V DC	17 W (Typ.)	*
15"	R150-C3(HB)	304.128 x 228.096	1024 x 768	2000:1 (Typ.)	1000 nits	-88~88 (H); -88~88 (V)	Yes (R2AH)	12V DC	22 W (Typ.)	*
17"	R170-A1(HB)	337.92 x 270.336	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85 (H); -80~80 (V)	Yes (R2AH)	12V DC	32 W (Typ.)	*
19"	R190-A1(HB)	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85 (H); -80~80 (V)	Yes (R2AH)	12V DC	31 W (Typ.)	*
15.6"(16:9)	W156-A2(HB)	344.232 x 193.536	1366 x 768	500:1 (Typ.)	1300 nits	-85~85 (H); -80~80 (V)	Yes (R2AH)	12V DC	25 W (Typ.)	*
21.5"(16:9)	W215-A3(HB)	476.64 x 268.11	1920 x 1080	1000:1 (Typ.)	1000 nits	-89~89 (H); -89~89 (V)	Yes (R2AH)	12V DC	50 W (Typ.)	*
24"(16:9)	W238-A2(HB)	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89 (H); -89~89 (V)	Yes (R2AH)	12V DC	65 W (Typ.)	*
27"(16:9)	W270-A1(HB)	597.6 x 336.15	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89 (H); -89~89 (V)	Yes (R2AH)	12V DC	70 W (Typ.)	*
32"(16:9)	W320-A3(HB)	698.4 x 392.85	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89 (H); -89~89 (V)	Yes (R2AH)	12V DC	75 W (Typ.)	*

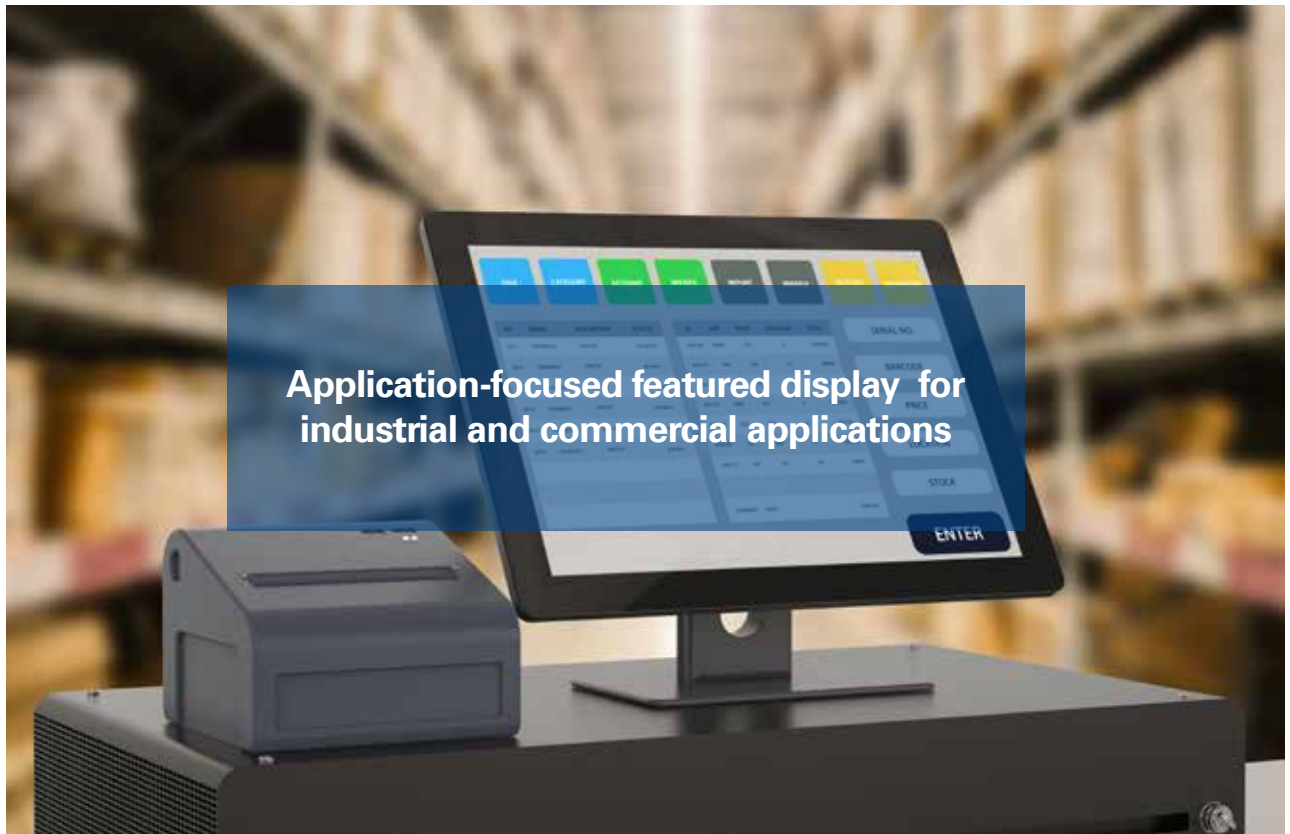
Featured Display

Overview

Winmate brings advanced LCD technologies to the market. We design and manufacture application-focused display solutions, including wide power and temperature range display, transfective, high brightness, bar-type, stainless display. Our featured displays are used across industries in industrial automation, outdoor kiosks, human machine interfaces (HMI), heavy duty vehicles and various other applications.

Winmate's featured display solutions include:

- Various housing options: chassis, open frame, panel mount, rack mount, front IP65
- Touch capabilities: resistive, projected capacitive (PCAP) or SAW touch screen
- High resolution 4K UHD display
- Sunlight readable display

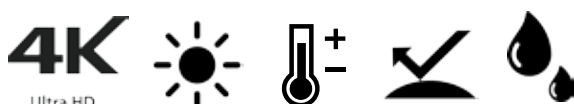


Application-focused featured display for industrial and commercial applications

Product Offering

Winmate industrial displays also provide several kinds of mounting solutions for your unique application and environment, such as chassis, panel mount, open frame, rear mount, rack mount, bar-type and others.

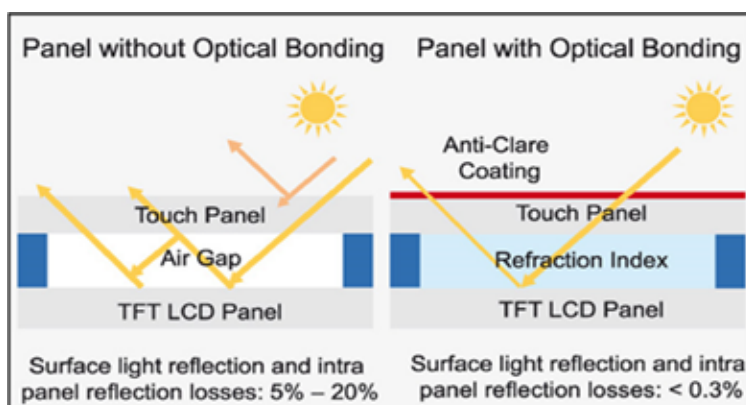
Featured Industrial Display



Technology

In-house Direct Optical Bonding

Winmate has in-house facilities for direct optical bonding. The advantages of optical bonding is minimizing the reflection from inner-surface of the glass, improved ruggedness, condensation prevention and increased anti-shock and vibration capabilities.



Technology

Wide Temperature

Winmate uses a heating film an in-house intelligent AD board to control the temperature of the TFT-LCD, so that the display is capable to deliver accurate color images in extreme sunlight under the temperature range from -20 to 60 degree Celsius.

Sunlight Readability

Winmate uses several techniques to make the screen sunlight readable. Among them is panel backlight enhancement, anti-reflective film or coating on the glass surface, anti-glare film or etching on the glass surface, or direct optical bonding between touch and panel.

Ultra-High Resolution LCD

Ultra High Definition (UHD) is also been called 4K/2K resolution. This is 3840 x 2160 resolution which is 4 times from Full HD. And the total pixels are 8 mega pixels in comparison with Full HD which only has 2 megapixels. In short, UHD can offer better image's quality and keep the image details.

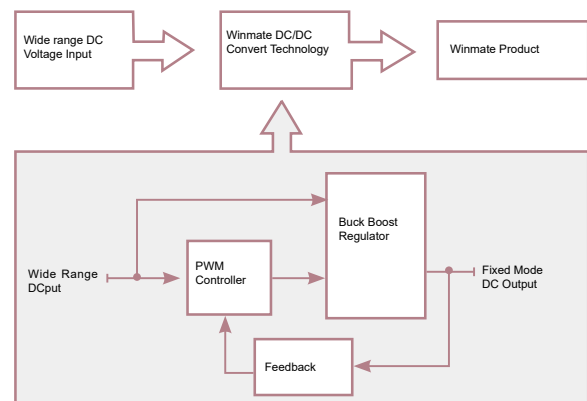
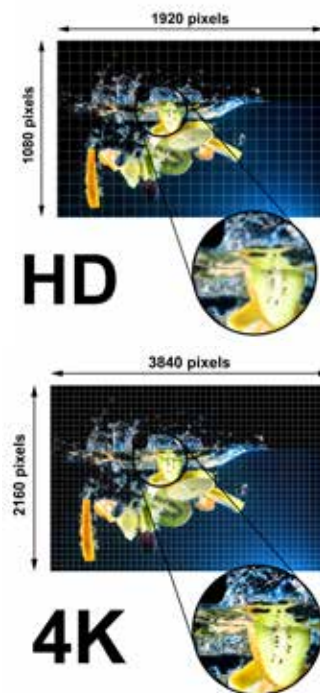
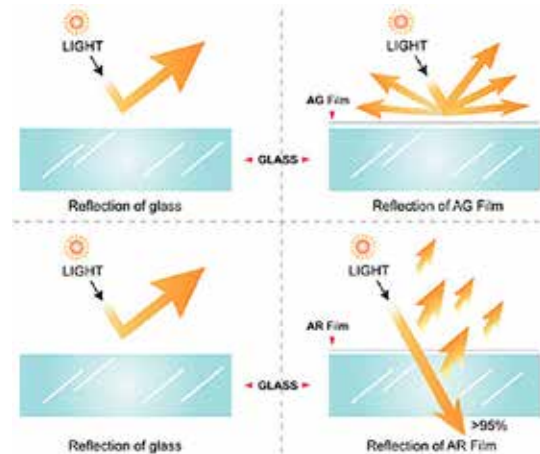
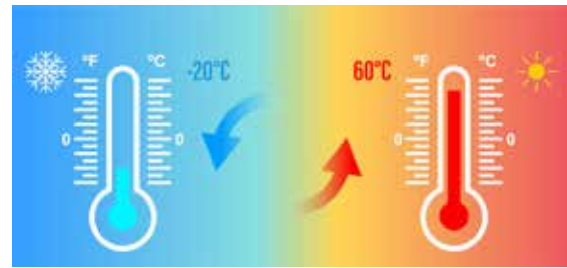
Compare to full HD the UHD has several advantages:

- Higher resolution
- Wider viewing angle
- Shorter viewing distance

Winmate UHD 2160p display ensures the best image quality, highest resolution and optimal contrast.

Wide Voltage Solution

The supply of voltage in different application scenarios vary or sometimes appear unstable as a result of using unsuitable power to fit the appliances. Incorrect voltage and current may also damage the electrical components. The wide voltage range solution for power input is designed accordingly to solve the problem and to protect the products by converting different voltage input to meet the ones as required.



Product Guide-Featured Industrial Display

Our product guide helps you to navigate and find the right product from our excessive product line

4K UHD Display  27" / 32" p.175	PT Series Display  15" ~32" p.177
GC Series Display  19" ~23.8" p.193	USB Type-C Display   7" ~18.5" p.201
PoE Touch Display   10.1" ~15.6" p.205	SDI Display   10.1" ~32" p.207
Sunlight Readable   7" ~32" p.213	Wide Temperature  6.5" ~19" p.215

27" / 32" Featured Display

12G-SDI Series

NEW

Custom configuration



PCAP
Touchscreen



DICOM



Backlight
Sensor



Calibration
Software



High Panel
Brightness
(Optional)



VSEL
Bonding
(Optional)



Application



Endoscopy

"FAITHFUL
REPRESENTATION OF
IMAGES AND VIDEO."

The monitors are able to
achieve faithful representation
of surgical images or videos
for use in endoscopy and
operating rooms.

“**TRANSFER MOST
ACCURATE IMAGES FROM
THE SOURCE.**”

- 27" / 32" screen with PCAP touchscreen
- Chassis housing
- 12G-SDI Loop in, 12G-SDI Loop out

4K UHD (3840 x 2160) native resolution

12G-SDI, HDMI 1.4, HDMI 2.0, Display Port 1.2

3D Look Up Table (LUT)

VESA mount

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Adapter
SDI Cable

Power Cord
DVI Cable

Remote Control

VESA Screws

HDMI Cable

Featured Display

12G-SDI Display

NEW



NEW



Model Name	27" (16:9)	32" (16:9)
	M270TF-SDI	M320TF-SDI
Display		
Native Resolution	3840 x 2160 (UHD 4K)	3840 x 2160 (UHD 4K)
Contrast Ratio	1000:1 (typ)	1000:1 (typ)
View Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Active Area	596.16 x 335.34	708.48 x 398.52
Response Time	12ms (Gray to Gray)	12ms (Gray to Gray)
Screen Technology	LED Backlight Technology, TFT Active matrix, Widescreen, IPS Technology	LED Backlight Technology, TFT Active matrix, Widescreen, IPS Technology
Light Intensity	300 nits, optional high brightness up to 700 nits	350 nits, optional high brightness up to 700 nits
Max Colors	1.07B	1.07B
Synchronization Signal Auto-detect	Digital Separate Sync., Composite Sync., Sync. On Green	Digital Separate Sync., Composite Sync., Sync. On Green
Color Profiles	Support 3D LUT profile 6 x general user color schemes DICOM GSDF (Optional)	Support 3D LUT profile 6 x general user color schemes DICOM GSDF (Optional)
Optimal Resolution and Hz	3840 x 2160 @ 60 Hz	3840 x 2160 @ 60 Hz
User Controls		
Sensors	Backlight sensor, Ambient light sensor, IR Control	Backlight sensor, Ambient light sensor, IR Control
Control	Capacitive OSD: Power On/Off, On Screen Display Menu, Brightness Control (-/+)	Capacitive OSD: Power On/Off, On Screen Display Menu, Brightness Control (-/+)
Input Signal	• 12G SDI • HDMI 2.0 • DP1.2 • HDMI1.4 • USB for Touch (Optional) • S232 for Remote Control (Optional)	• 12G SDI • HDMI 2.0 • DP1.2 • HDMI1.4 • USB for Touch (Optional) • S232 for Remote Control (Optional)
Output Signal	• 12G SDI (Loop Through)	• 12G SDI (Loop Through)
Mechanical		
Dimensions	643.17 x 408.06 x 48 mm (25.3 x 16.1 x 1.8 in)	777.58 x 477.62 x 48 mm (30.6 x 18.8 x 1.8 in)
Mounting	VESA Mount (100 x 100, 200 x 100 mm)	VESA Mount (100 x 100, 200 x 100, 300 x 100 mm)
Product Weight	9.5 kg (20.9 lbs)	11 Kg (24.2 lbs)
Factory Options	PCAP touchscreen (USB)	PCAP touchscreen (USB)
Environment		
Operating Temp.	0°C to 35°C, Humidity up to 95%	0°C to 35°C, Humidity up to 95%
Storage Temp.	-20°C to 60°C, Humidity up to 95%	-20°C to 60°C, Humidity up to 95%
IP Rating	Front - IP65, Rear - IP22	Front - IP65, Rear - IP22
Power		
Power Input	24V DC 150W	24V DC 150W
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications		
Type Approval, Testing and Certificates	CE, FCC	CE, FCC

27" / 32" Featured Display

4K UHD

Custom configuration



PCAP
Touchscreen



DICOM



Backlight
Sensor



Calibration
Software



High Panel
Brightness
(Optional)



VSEL
Bonding
(Optional)



Application



Hospital Surgery Room

"ACCURATE IMAGE
REPRODUCTON."

The 4K UHD Display with color calibration is suited for operating room usage where image reproduction needs to be accurate.

“**SUPERIOR RESOLUTION.
PRECISE IMAGING.**”

- 27"/32" screen, 3840 x 2160 (UHD 4K) resolution
- Chassis housing

3840 x 2160 (UHD 4K) resolution

VGA, HDMI, DP, DVI, SDI input

Projected capacitive multi-touch

Capacitive Touch key x 5

Operating temperature 0°C to 50°C

IEC 60601-1, EN 60601-1-2

Accessories

User Manual

VGA Cable

HDMI Cable

DP Cable

DVI Cable

Featured Display

4K UHD Display



Model Name	27" (16:9)	32" (16:9)
	M270TF	M320TF
Display		
Native Resolution	3840 x 2160 (UHD 4K)	3840 x 2160 (UHD 4K)
Contrast Ratio	1000:1 (typ)	1000:1 (typ)
View Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Active Area	596.16 x 335.34	708.48 x 398.52
Response Time	12ms (Gray to Gray)	12ms (Gray to Gray)
Screen Technology	LED Backlight Technology, TFT Active matrix, Widescreen, IPS Technology	LED Backlight Technology, TFT Active matrix, Widescreen, IPS Technology
Light Intensity	300 nits, optional high brightness up to 700 nits	350 nits, optional high brightness up to 700 nits
Max Colors	1.07B	1.07B
Synchronization Signal Auto-detect	Digital Separate Sync., Composite Sync., Sync. On Green	Digital Separate Sync., Composite Sync., Sync. On Green
Color Profiles	Support 3D LUT profile 6 x general user color schemes DICOM GSDF (Optional)	Support 3D LUT profile 6 x general user color schemes DICOM GSDF (Optional)
Optimal Resolution and Hz	3840 x 2160 @ 60 Hz	3840 x 2160 @ 60 Hz
User Controls		
Sensors	Backlight sensor, Ambient light sensor, IR Control	Backlight sensor, Ambient light sensor, IR Control
Control	Capacitive OSD: Power On/Off, On Screen Display Menu, Brightness Control (-/+)	Capacitive OSD: Power On/Off, On Screen Display Menu, Brightness Control (-/+)
Input Signal	• 3G SDI • Dual DVI In • HDMI 2.0 • HDMI 1.4 • DP1.2 • Audio In • VGA	• 3G SDI • Dual DVI In • HDMI 2.0 • HDMI 1.4 • DP1.2 • Audio In • VGA
Output Signal	• DP (Multi-Stream Transport) • Audio Out • 5V out • 3G-SDI (Loop Through), support 1080P	• DP (Multi-Stream Transport) • Audio Out • 5V out • 3G-SDI (Loop Through), support to 1080P
Mechanical		
Dimensions	643.17 x 408.06 x 48 mm (25.3 x 16.1 x 1.8 in)	777.58 x 477.62 x 48 mm (30.6 x 18.8 x 1.8 in)
Mounting	VESA Mount (100 x 100, 200 x 100 mm)	VESA Mount (100 x 100, 200 x 100, 300 x 100 mm)
Product Weight	9.5 kg (20.9 lbs)	11 Kg (24.2 lbs)
Factory Options	PCAP touchscreen (USB)	PCAP touchscreen (USB)
Environment		
Operating Temp.	0°C to 35°C, Humidity up to 95%	0°C to 35°C, Humidity up to 95%
Storage Temp.	-20°C to 60°C, Humidity up to 95%	-20°C to 60°C, Humidity up to 95%
IP Rating	Front - IP65, Rear - IP22	Front - IP65, Rear - IP22
Power		
Power Input	24V DC 150W	24V DC 150W
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications		
Type Approval, Testing and Certificates	• IEC 60601-1:2005 + A1:2015 (Ed. 3.1) • IEC 60601-1-6:2010 + A1:2013 (Ed. 3.1) • IEC 62366:2007 + A1:2014 (Ed. 1.1) • ANSI/AAMI ES60601-1:2005/A1:2012 and C1:2009/(R)2012 and A2:2010/(R)2012 • CAN/CSA-C22.2 No.60601-1:14 • EN606001-1-2 • EN55032/EN55024, FCC part 15B • EN60950-1	• IEC 60601-1:2005 + A1:2015 (Ed. 3.1) • IEC 60601-1-6:2010 + A1:2013 (Ed. 3.1) • IEC 62366:2007 + A1:2014 (Ed. 1.1) • ANSI/AAMI ES60601-1:2005/A1:2012 and C1:2009/(R)2012 and A2:2010/(R)2012 • CAN/CSA-C22.2 No.60601-1:14 • EN606001-1-2 • EN55032/EN55024, FCC part 15B • EN60950-1

15"~32" Featured Display

PT Series

NEW

Custom configuration



Remote Control
RS232



“**ENTERPRISE GRADE DISPLAY
WITH FUTURE PROOF
MONITORING SOLUTION.**”

- 15"~32" screen with PCAP touchscreen
- VESA mount (stand-alone)

VGA, HDMI video input

OSD control 5 keys

VESA mount, panel mount

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Application



Point-of-Sales (POS)

“STYLISH AND
FUNCTIONAL.”

Winmate's 15" PT Series display was installed inside the counter of a famous grocery store. Brilliant LCD screen, stand-alone design and convenient mounting options.

Accessories

Adapter

Power Cord

HDMI Cable

VGA Cable

USB Cable for Touch

Featured Display

PT Series Display

NEW



Model Name	15"	15" (16:9)	18" (16:9)	32" (16:9)	32" (16:9)	32" (16:9)
	R15L100-PTC3	W15L100-PTA3	W18L100-PTA2(HB)	W32L100-PTA2	W32L100-PTA1	W32L100-PTA1-SDI
Display						
Active Area	304.1 x 228.1	344.1 x 193.5	409.8 x 230.4	698.4 x 392.8	708.4 x 398.5	708.4 x 398.5
Resolution	1024 x 768	1920 x 1080	1366 x 768	1920 x 1080	3840 x 2160	3840 x 2160
Contrast Ratio	2000:1	800:1	1000:1	4000:1	1000:1	1000:1
Display Color	16.2M	16.2M	16.7M	16.2M	1.07B	1.07B
Brightness	250(typ.)	300(typ.)	250(typ.)	250(typ.)	350(typ.)	350(typ.)
Viewing Angle	-88~88(H);-88~88(V)	-85~85(H) ; -85~85 (V)	-85~85(H) ; -80~80 (V)	-89~89(H) ; -89~89 (V)	-89~89(H) ; -89~89 (V)	-89~89(H) ; -89~89 (V)
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
I/O Connectors						
Power	1 x DC Input	1 x DC Input	1 x DC Input	1 x DC Input	1 x DC Input	1 x DC Input
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI 1.4, HDMI 2.0	1 x HDMI 1.4, HDMI 2.0
VGA	1 x VGA	1 x VGA	1 x VGA	1 x VGA	1 x VGA	-
DP	-	-	-	-	1 x DP 1.2	1 x DP 1.2
SDI	-	-	-	-	1 x 3G-SDI	1 x 12G-SDI
DVI	-	-	-	-	1 x DVI-D	-
Power						
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	10W	15W	15W	50W	55W	55W
Mechanical						
Dimensions	352.5 x 276.7 x 45 mm	387.8 x 232.9 x 38.45 mm	583 x 352 x 55 mm	799 x 478 x 63.7 mm	799 x 478 x 63.7 mm	799 x 478 x 63.7 mm
Mouting	VESA	VESA	VESA	VESA	VESA	VESA
Environment						
Operating Temperature	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C	0°C to 40°C
Operating Humidity	10% to 90% (Non- condensing, RH)	10% to 90% (Non- condensing, RH)	10% to 90% (Non- condensing, RH)	10% to 90% (Non- condensing, RH)	10% to 90% (Non- condensing, RH)	10% to 90% (Non- condensing, RH)
IP Rating	-	-	Front IP65	Front IP65	Front IP65	Front IP65

15"~23.8" Featured Display IP69K Stainless P Series

NEW

Custom configuration



AG Coating



Wide Power



Yoke Mount
Stand Kit



“**PERFECT FOR OPERATIONS IN
HARSH ENVIRONMENTS.**”

”

- 15"~23.8" screen with PCAP touchscreen
- Stainless housing SUS316
- Full I69

VGA, HDMI

USB for touch

OSD control 5 keys

Waterproof conduit pipe

Air vent valve

VESA mount, panel mount

IP69K waterproof and dustproof

Operating temperature 0°C to 45°C

Accessories

Adapter

Power Cord

Conduit Elbow

Waterproof Conduit 1.5m

Open Wire Cable

Yoke Mount Stand Kit (Optional)

Application



Food Production

“VERSATALE
MOUNTING, ROUND
EDGES AND RUGGED
CONSTRUCTION.”

Working with the snack manufacturer, Winmate provided our 21.5-inch P-Series Display. The IP69K series is built to withstand extensive wash downs with corrosion resistance against cleaning agents, especially against close-range high-pressure, high temperature wash downs.

Featured Display

IP69K Stainless P Series

NEW



NEW



NEW



NEW



Model Name	15"	19"	21.5" (16:9)	23.8" (16:9)
	R15L100-SPC369-P	R19L100-SPM169-P	W22L100-SPA369-P	W24L100-SPA269-P
Display				
Resolution	1024 x 768	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	2000:1	1000:1	3000:1	3000:1
Viewing Angle	-88~88 (H); -88~88(V)	-85~85 (H); -80~80(V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Active Area	210.4 x 157.8	304.128 x 228.096	376.32 x 301.06	527.04 x 296.46
Display Color	16.2M	16.7M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
Connectors				
Connectors	1 x USB for Touch 1 x HDMI input 1 x VGA	1 x USB for Touch 1 x HDMI input 1 x VGA	1 x USB for Touch 1 x HDMI input 1 x VGA	1 x USB for Touch 1 x HDMI input 1 x VGA
Mechanical				
Dimensions	356 x 280 x 56 mm	445 x 370 x 56 mm	531 x 322 x 56 mm	600 x 369 x 56 mm
Mouting	VESA Mount (100 x 100 mm), Panel Mount, optional Yoke Mount Stand	VESA Mount (100 x 100 mm), Panel Mount, optional Yoke Mount stand	VESA Mount (100 x 100 mm), Panel Mount, optional Yoke Mount Stand	VESA Mount (100 x 100 mm), Panel Mount, optional Yoke Mount Stand
Environment				
IP Rating	IP69K	IP69K	IP69K	IP69K
Operating Temp.	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C
Storage Temp.	-10 °C to 60 °C	-10 °C to 60 °C	-10 °C to 60 °C	-10 °C to 60 °C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	18W (typ.)	23W (typ.)	29W (typ.)	26W (typ.)
AC Adapter	100~240V AC to 12V DC Adapter	100~240V AC to 12V DC Adapter	100~240V AC to 12V DC Adapter	100~240V AC to 12V DC Adapter
Certifications				
EMC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.4"~21.5" Featured Display

IP69K Stainless

Custom configuration



PCAP
Touchscreen



DVI-D



“**WITHSTANDS HIGH
PRESSURE WASH DOWNS,
EASY-TO-CLEAN.**”

- 10.4"~21.5" screen with PCAP touchscreen
- Stainless housing SUS316
- Full IP69K with air venting valve

Stainless steel housing SUS316

Waterproof connectors DVI, VGA, power, USB for touch

OSD control 5 keys

VESA mount

Air venting valve

IP69K waterproof and dustproof

Operating temperature -10°C to 55°C

Accessories

Quick Start Guide

VESA Screws

Power Cord

Adapter

VGA Cable

USB Cable for Touch

Application



Food Production Plant

“EASY TO CLEAN
FOR HYGIENIC
REQUIREMENTS.”

Sealed to IP69K Winmate's Stainless Steel Display was used in a food processing facility where it had to withstand high pressure washdowns everyday.

Featured Display

IP69K Stainless



Model Name	10.4"	15"	19"	21.5" (16:9)
	R10L100-SPT269	R15L100-SPC369	R19L100-SPM169	W22L100-SPA369
Display				
Resolution	1024 x 768	1024 x 768	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	250 nits	250 nits	250 nits
Contrast Ratio	1000:1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	210.4 x 157.8	304.128 x 228.096	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
Connectors				
Video Input	1 x 3-Pin power 1 x VGA 1 x DVI-D (Optional) 1 x USB connector	1 x 3-Pin power 1 x VGA 1 x DVI-D (Optional) 1 x USB connector	1 x 3-Pin power 1 x VGA 1 x DVI-D (Optional) 1 x USB connector	1 x 3-Pin power 1 x VGA 1 x DVI-D (Optional) 1 x USB connector
Mechanical				
Dimensions	289.5 x 246 x 49.4 mm	378 x 301 x 56.4 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
Operating Temp.	-10°C to 55°C	-10°C to 55°C	-10°C to 55°C	-10°C to 55°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
Environment				
IP Proof	IP69K, air venting valve	IP69K, air venting valve	IP69K, air venting valve	IP69K, air venting valve
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (200 x 100 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	26W	30W	36W	50W
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.4"~19" Featured Display

IP67 Stainless

Custom configuration



Housing



RS232
For Touch



USB
For Touch



Resistive
Touchscreen



Application



Pharmaceutical Manufacturing Control Systems

"INCREASE
PRODUCTIVITY AND
PROFITABILITY."

Real-time access and
extended enterprise visibility
to vital manufacturing data.

**“ RUGGED. WATERPROOF.
DUSTPROOF. ”**

- 10.4"~19" screen with resistive touchscreen
- Stainless housing SUS316
- VESA mount

VGA video input

Touch interface USB or RS232

OSD control 5 keys

Operating temperature 0°C to 50°C

Accessories

Power Cord

AC Adapter

Drive CD

VGA Cable 1.8m

Featured Display

IP67 Stainless



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
10.4"	R10L100-67T2ST	210.432 x 157.824	1024 x 768	1200:1 (Typ.)	350 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15W (Typ.)	*
15"	R15L600-67C3ST	304.128 x 228.096	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	25W (Typ.)	*
19"	R19L300-67M1ST	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	27W (Typ.)	*

Custom configuration



PCAP
Touchscreen

Application



Industrial Control Panel

"PROVIDES A FAST
RESPONSE IN
EMERGENCY SITUATIONS."

A factory in Europe utilizes Winmate's 15" stainless display with push buttons for industrial control panel application. Brilliant flat screen with PCAP touch offers the best user controls. IP69K-rated corrosion resistant and completely waterproof housing saves the hassles of maintenance in harsh factory environments.

10.1"~21.5" Featured Display Stainless Series with Push Buttons

NEW



“**SPEED UP RESPONSE TIME IN
EMERGENCY SITUATIONS.**

”

- 10.1"~21.5" screen with PCAP touchscreen
- Stainless housing SUS316
- Full IP65 with air venting valve

Stainless steel housing SUS316

Waterproof connectors VGA, power, USB for touch, push button

OSD control 5 keys

VESA mount

Push Button for automation control

IP65 waterproof and dustproof

Operating temperature 0°C to 45°C

Accessories

Quick Start Guide

VESA Screws

Power Cord

Adapter

VGA Cable

USB Cable for Touch

x86 IP65 Stainless Series with Push Buttons

Intel® Celeron® N2930

NEW



NEW



NEW



NEW



Model Name	10.1" (16:9)	15"	19"	21.5" (16:9)
	W10L100-SPH1-B	R15L100-SPC3-B	R19L100-SPM1-B	W22L100-SPA3-B
Display				
Resolution	1024 x 600	1024 x 768	1280 x 1024	1920 x 1080
Panel Brightness	450 nits	250 nits	250 nits	250 nits
Contrast Ratio	800:1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	210.4 x 157.8	304.128 x 228.096	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-80~80 (H); -75~80 (V)	-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.2M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
Connectors				
Power Input	1 x 3-Pin Power	1 x 3-Pin Power	1 x 3-Pin Power	1 x 3-Pin Power
Video Input	1 x 12-Pin VGA	1 x 12-Pin VGA	1 x 12-Pin VGA	1 x 12-Pin VGA
Touch Control	1 x USB connector	1 x USB connector	1 x USB connector	1 x USB connector
Mechanical				
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Push Buttons	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension
Environment				
IP Proof	IP65	IP65	IP65	IP65
Mouting	VESA mount (75 x 75 mm)	VESA mount (100 x 100 mm)	VESA mount (100 x 100 mm)	VESA mount (100 x 100 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	26W	30W	26W	50W
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.4"~21.5" Featured Display

IP65 Stainless PCAP

Custom configuration



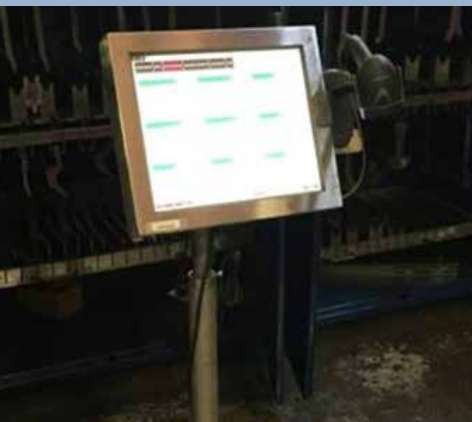
PCAP
Touchscreen



DVI-D



Application



Automotive Part Manufacturing Plant

"RESISTS ANY
SUBSTANCE WITH
ROBUST STAINLESS
DESIGN."

Winmate's IP65 Stainless Steel Displays were used in an automobile parts manufacturing facility where the corrosion resistant housing is able to withstand the chemicals used.

"DURABLE IN ALL HARSH ENVIRONMENTS."

- 10.4"~21.5" screen with PCAP touchscreen
- Stainless housing SUS316
- Full IP65

Stainless steel housing SUS316

Waterproof connectors VGA, Power, USB for touch

OSD control 5 keys

VESA mount

Full IP65

Operating temperature -10°C to 55°C

Accessories

Quick Start Guide

R-Series AD Board Manual

Power Cord

AC Adapter

VGA Cable

USB Cable for Touch

VESA Screws

Featured Display

IP65 Stainless PCAP



Model Name	10.4"	15"	17"	19"	21.5" (16:9)
	R10L100-SPT2	R15L100-SPC3	R17L100-SPM1	R19L100-SPM1	W22L100-SPA3
Display					
Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	1000:1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	210.4 x 157.8	304.1 x 228.1	337.92 x 270.34	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Pixel Pitch	0.0685 (H) x 0.2055 (V)	0.297 (H) x 0.297 (V)	0.264 (H) x 0.264 (V)	0.294 (H) x 0.294 (V)	0.248 (H) x 0.248 (V)
Display Color	16.2M	16.2M	16.7M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
Connectors					
Video Input	1 x DVI-D (Optional) 1 x VGA 1 x USB for Touch	1 x DVI-D (Optional) 1 x VGA 1 x USB for Touch	1 x DVI-D (Optional) 1 x VGA 1 x USB for Touch	1 x DVI-D (Optional) 1 x VGA 1 x USB for Touch	1 x DVI-D (Optional) 1 x VGA 1 x USB for Touch
Mechanical					
Dimensions	289 x 246 x 49.9 mm	378 x 301 x 56.4 mm	412 x 344 x 61.3 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (200 x 100 mm)
Environment					
Operating Temp.	-10°C to 55°C	-10°C to 55°C	-10°C to 55°C	-10°C to 55°C	-10°C to 55°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Proof	Full IP65	Full IP65	Full IP65	Full IP65	Full IP65
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	26W	30W	31W	36W	50W
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

8.4"~42" Featured Display

IP65 Stainless

Resistive

Custom configuration



Housing



Resistive
Touchscreen



PCAP
Touchscreen



Optical
Bonding



“ **WATERPROOF AND
CORROSION RESISTANT.** ”

- 8.4"~42" screen with resistive touchscreen
- Stainless housing SUS316
- Chassis, moisture prevention
- VESA mount

VGA video input

Touch interface RS232 or USB

OSD control 5 keys

Operating temperature 0°C to 50°C

Packaging Automation System

“IMPROVE PACKAGING
FLEXIBILITY.”

Information display at the
bottling water on the plant
make packaging machines
smarter.

Accessories

Power Cord

AC Adapter

Drive CD

VGA Cable 1.8m

Featured Display

IP65 Stainless Resistive Touch Display



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Power Input	Power Consumption	Resistive
8.4"	R08T200-65U1	170.4 x 127.8	800 x 600	600:1 (Typ.)	600 nits	-70~60 (H); -75~75 (V)	12V DC	25 W (Typ.)	*
15"	R15L600-65C3	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	12V DC	25 W (Typ.)	*
17"	R17L500-65A1	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	12V DC	32 W (Typ.)	*
17"	R17L500-65M1	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	12V DC	32 W (Typ.)	*
19"	R19L300-65M1	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	12V DC	27 W (Typ.)	*
21.5" (16:9)	W22L100-65A3	476.64 x 268.11	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	12V DC	50 W (Typ.)	*
24" (16:9)	W24L100-65A2	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	12V DC	50W (Typ.)	*
32" (16:9)	W32L300-65A3	698.4 x 392.85	1920 x 1080	3000:1 (Typ.)	400 nits	-89~89 (H); -89~89 (V)	24V DC	48 W (Typ.)	
42" (16:9)	W42L300-65A3	930.24 x 523.26	1920 x 1080	4000:1 (Typ.)	500 nits	-89~89 (H); -89~89 (V)	24V DC	105 W (Typ.)	



Full IP65 Moisture Prevention

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Source	Power Consumption (Optional)	Resistive
15"	R15L600-65C3-1	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	25 W (Typ.)	*
17"	R17L500-65A1-1	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	32 W (Typ.)	*
19"	R19L300-65M1-1	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	12V DC	31 W (Typ.)	*



Flat Stainless Display

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Capacitive
15"	R15L600-65A1FTP	304.128 x 228.096	1024 x 768	2000:1 (Typ.)	400 nits	-88~88 (H); -88~88 (V)	NO	12V DC	20 W (Typ.)	*

15"~21.5" Featured Display

Front IP65 Stainless

Custom configuration



Protection
Glass



DVI-D



S-Video



Composite

Application



Chemical Factory

"SCRATCH RESISTANT
SCREEN AND STAINLESS
HOUSING."

Winmate's 15" Stainless Display with IP65 water and dust protection rating was installed in the HMI terminal of a chemical factory. Resistant to scratches screen combined with corrosion resistant housing for best vaccine production facilities.



"DURABLE LCD SOLUTION."

- 15"~21.5" screen with resistive touchscreen
- Stainless housing SUS316
- Front IP65 rating

VGA, HDMI

USB/ RS232 for touch

OSD control 5 keys

VESA mount, panel mount

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Adapter

Power Cord

VGA Cable

HDMI Cable

Featured Display

Front IP65 Display



Size	Model Name	Active Display Area (mm)	Number of Pixels	Contrast Ratio	Panel Brightness (cd/m ²)	Viewing Angle (CR>=10)	Optional DVI Input	Resistive
15"	R15L100-STC3	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	250 nits	-88~88 (H); -88~88 (V)	Yes	*
17"	S17L500-STM1	337.92 x 270.336	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85 (H); -80~80 (V)	Yes	*
19"	R19L300-STM1	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	250 nits	-85~85 (H); -80~80 (V)	Yes	*
21.5" (16:9)	W22L100-STA3	476.64 x 268.11	1920 x 1080	3000:1 (Typ.)	250 nits	-89~89 (H); -89~89 (V)	Yes	*

19"~23.8" Featured Display

G-WIN GC Series

NEW



Application



Restaurant Counter

"FAITHFUL
REPRESENTATION OF
IMAGES AND VIDEO."

Cost-effective solution and brilliant readability for versatile point-of-sale (POS) and smart retail scenarios. 21.5" GC-Series display in sleek design found its application inside the counter in the restaurant chain in Europe.

**"COST-EFFECTIVE SOLUTION
WITH NO COMPROMISE ON
PERFORMANCE."**

- 19"~23.8" screen with PCAP touchscreen
- VESA mount (stand-alone), panel mount
- Standard I/O connectors

VGA, HDMI video input

OSD control 5 keys

VESA mount, panel mount

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Adapter

Power Cord

HDMI Cable

VGA Cable

USB Cable for Touch

Featured Display

G-WIN GC Series

NEW



NEW



NEW



Model Name	19"	21.5" (16:9)	23.8" (16:9)
	R19L100-GCM1	W22L100-GCA3	W24L100-GCA2
Display			
Resolution	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	250	250	250
Contrast Ratio	1000	3000	3000
Active Area	376.32 x 301.06	476.64 x 268.11	527.04 x 296.46
Viewing Angle	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Touch	USB	USB	USB
Connectors			
Connectors	1 X USB for Touch 1 X HDMI 1 X VGA	1 X USB for Touch 1 X HDMI 1 X VGA	1 X USB for Touch 1 X HDMI 1 X VGA
Mechanical			
Dimensions	444 x 368 x 51 mm	529 x 320.4 x 51 mm	587 x 356 x 55 mm
Mouting	VESA Mount (100 x 100 mm), Panel Mount	VESA Mount (100 x 100 mm), Panel Mount	VESA Mount (100 x 100 mm), Panel Mount
Environment			
Operating Temp.	0 °C to 50 °C	0 °C to 50 °C	0 °C to 50 °C
Storage Temp.	-10 °C to 60 °C	-10 °C to 60 °C	-10 °C to 60 °C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Proof	Front IP65	Front IP65	Front IP65
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	15W	20W	25W
Certifications			
EMC	CE, FCC	CE, FCC	CE, FCC

7"~15" Featured Display

G-WIN GS Series

Custom configuration



Protection
Glass



“ **TOUGH. RUGGED.
HEAVY DUTY.** ”

- 7"~15" screen with PCAP touchscreen
- Aluminum housing
- Full IP65, waterproof I/O connectors

VGA video input

USB for touch

OSD control 5 keys

M12 waterproof connectors

VESA mount, panel mount

IP65 waterproof and dustproof

MIL-STD-810F/G shock, vibration resistance

Operating temperature -15°C to 55°C

Accessories

Adapter

M12 Power Cord

VGA Cable

USB Cable for Touch

Application



Wood Harvester

“FOR DEMANDING
LOGGING CONDITIONS.”

Winmate 7-inch GS
SeriesDisplay was installed
inside awood harvester.

Heavyduty panel PC
designedfor demanding
conditionssurvives both
water drops andtemperature
changes.

Featured Display

G-WIN GS Series Display



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input (CR>=10)	Power Input (M12 Type)	Capacitive
7" (16:9)	W07L100-GSO1	153.6 x 90	1024 x 600	700:1 (Typ.)	1000 nits	-75~75 (H); -70~75 (V)	• VGA • USB for touch	12V DC (M12 Type Connector)	*
7" (16:10)	W07L100-GST1	153.6 x 90	1024 x 600	500:1 (Typ.)	320 nits	-75~75 (H); -70~75 (V)	• VGA • USB for touch	12V DC (M12 Type Connector)	*
10.1" (16:10)	W10L100-GSH2	216.96 x 135.6	1280 x 800	800:1 (Typ.)	350 nits	-85~85 (H); -85~85 (V)	• VGA • USB for touch	12V DC (M12 Type Connector)	*
10.1"	W10L100-GSH1	222.72 x 125.28	1024 x 600	800:1 (typ.)	450 nits	-75~80 (H); -80~80 (V)	• VGA • USB for touch	9~36V DC (M12 Type Connector)	*
10.4"	R10L100-GST2	210.4 x 157.8	1024 x 768	1000:1 (Typ.)	350 nits	-88~88 (H); -88~88 (V)	• VGA • USB for touch	9~36V DC (M12 Type Connector)	*
12.1"	R12L100-GSM2(HB)	245.76 x 184.32	1024 x 768	700:1 (Typ.)	500 nits	-80~80 (H); -70~70 (V)	• VGA • USB for touch	9~36V DC (M12 Type Connector)	*
15"	R15L600-GSC3(HB)	304.1 x 228.1	1024 x 768	700:1 (Typ.)	2000 nits	-80~80 (H); -70~70 (V)	• VGA • USB for touch	9~36V DC (M12 Type Connector)	*

8.4"~19" Featured Display

G-WIN VM Series

Custom configuration



DVI-D



S-Video



Composite



HDMI



RS232
For Touch



USB
For Touch



Resistive
Touchscreen



DC Lockable
Input



**“ WIDE TEMPERATURE FOR
EXTREME WEATHER. ”**

- 8.4"~19" screen
- Anti-corrosion housing
- VESA mount

VGA video input

USB/ RS232 for touch

OSD control panel

VESA mount, yoke mount

IP65 waterproof and dustproof

MIL-STD-810F/G shock, vibration resistance

Operating temperature -10°C to 55°C

Military Vehicle Navigation Display

"EASY-TO-READ,
EASY-TO-USE."

15-inch G-WIN display now is
a part of navigation and
information system for force
vehicles.

Accessories

Power Cord

AC Adapter

Drive CD

VGA Cable 1.8m

Mounting Bracket

Featured Display

G-WIN VM Series



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Touch
8.4"	R08T200-VMU1	170.4 x 127.8	800 x 600	600:1 (Typ.)	600 nits	-75~75 (H); -70~60 (V)	5 Wire Resistive
10.4"	R10L100-VMT2	210.4 x 157.8	1024 x 768	1000:1 (Typ.)	350 nits	-88~88 (H); -88~88 (V)	5 Wire Resistive
12.1" (16:10)	W12L100-VMM9	261.12 x 163.2	1280 x 800	1000:1 (Typ.)	400 nits	-88~88 (H); -88~88 (V)	5 Wire Resistive
15"	R15L100-VMC3(HB)	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	1000 nits	-88~88 (H); -88~88 (V)	5 Wire Resistive
19"	R19L100-67FTP	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	400 nits	-85~85 (H); -80~80 (V)	Projected Capacitive

15"/ 19" Featured Display

IP67 Aluminum

Custom configuration



Housing



Resistive
Touchscreen



AR Glass



High Panel
Brightness



HDMI



RS232
For Touch



**“ RUGGED. WATERPROOF.
DUSTPROOF. ”**

Application



Train Operator Navigation

“VIBRATION RESISTANCE
AND VIBRANT COLORS”

Vibration resistant Winmate
19-inch aluminum display
helps train operator to
navigate the way even when
temperature goes far below
zero degrees.

- 15"/ 19" screen
- Aluminum housing
- VESA mount

VGA video input

Touch interface USB

Front OSD control

Wide range input power 9~36V DC

Extended operating temperature

Accessories

Power Cord

AC Adapter

Drive CD

VGA Cable 1.8m

Featured Display

IP67 Aluminum Display



Model Name	15"	19"
	R15L100-67C3(HB)	R19L100-67FTP
Display		
Resolution	1024 x 768	1280 x 1024
Panel Brightness	300 nits/ 1000 nits (Optional)	400 nits/ 1000 nits (Optional)
Contrast Ratio	2000:1 (Typ.)	1000:1 (Typ.)
Active Area	304.1 x 228.1	376.32 x 301.06
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)
Touch	5-wire Resistive	PCAP touch
Connectors		
VGA	1 x IP67 VGA	1 x IP67 VGA
HDMI	1 x IP67 HDMI (Optional)	1 x IP67 HDMI (Optional)
DVI	1 x IP67 DVI (Optional)	1 x IP67 DVI (Optional)
Power	1 x IP67 DC 9~36V	1 x IP67 DC 9~36V
RS232/ USB	1 x IP67 RS232 remote control	1 x IP67 RS232 remote control
USB	1 x IP67 USB for touch	1 x IP67 USB for touch
Mechanical		
Dimensions	398 x 308 x 58 mm	474 x 410 x 111 mm
Mouting	One robust bracket with locking handle (Can adjust from -5° to 90°)	One robust bracket with locking handle (Can adjust from -5° to 90°)
Environment		
Shock	MIL-STD-810G Method 516.6	MIL-STD-810G Method 516.6
Vibration	MIL-STD-810G Method 514.6	MIL-STD-810G Method 514.6
Power		
Power Input	9~36V DC	9~36V DC
Certifications		
Certifications	CE, FCC Class B MIL810G for Vibration /Shock	CE, FCC MIL810G for Vibration /Shock

7"~18.5" Featured Display

USB Type-C

Custom configuration



PCAP
Touchscreen



Audio and
Speaker



Housing



High Panel
Brightness

Application



Truck Cabin

"SAVING CABLING SPACE
WITH SINGLE CABLE"

The USB Type-C display
connected to the EAC Mini-C
IoT gateway is installed in a
vehicle cabin .



“
SINGLE CABLE SOLUTION.
”

- 7"~18.5" screen
- USB Type-C port
- Stand-alone and open frame housing

USB Type-C connector for power, touch, video input

USB 5V/3A power delivery

P-Cap multi-touch

OSD control 5 keys

Operating temperature 0°C to 50°C

Accessories

User Manual

USB Type-C Cable

Featured Display

USB Type-C
Open Frame



Model Name	7" (17:10)	10.1" (16:10)	10.4"	12.1"	15"
	W07L100-POT1-C	W10L100-POH2-C	R10L100-POT2-C	R12L100-POM2-C	R15L600-POC3-C
Display					
Resolution	1024 x 600	1280 x 800	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	320 nits	350 nits	350 nits	500 nits	250 nits
Contrast Ratio	500:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	153.6 x 90	216.96 x 135.6	210.4 x 157.8	245.76 x 184.32	304.1 x 228.1
Viewing Angle	-75~75 (H) ; -75~75 (V)	-85~85 (H) ; -85~85 (V)	-88~88 (H) ; -88~88 (V)	-80~80 (H) ; -70~70 (V)	-88~88 (H) ; -88~88 (V)
Display Color	16.7M	16.7M	16.2M	16.2M	16.2M
Touch	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)
Connectors					
Video Input	1 x USB Type-C connector	1 x USB Type-C connector	1 x USB Type-C connector	1 x USB Type-C connector	1 x USB Type-C connector
User Controls					
Control Buttons	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter
Audio					
Audio	2 x Speaker (Optional)	2 x Speaker (Optional)	2 x Speaker (Optional)	2 x Speaker (Optional)	2 x Speaker (Optional)
Environment					
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Storage Temp.	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
Power					
Power Input	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)
Power Consumption	6W (Typ.)	10W (Typ.)	9W (Typ.)	12W (Typ.)	12W (Typ.)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Featured Display

USB Type-C
Stand-Alone



Model Name	7" (16:10)	7" (16:10)	10.1" (16:10)	10.1" (16:9)	10.4"
	W07L100-GCT1-C	W07L100-GCO1(HB)-C	W10L100-GCH2-C	W10L100-GCH1(HB)-C	R10L100-GCT2-C
Display					
Resolution	1024 x 600	1024 x 600	1280 x 800	1024 x 600	1024 x 768
Panel Brightness	320 nits	1000 nits	350 nits	800 nits	350 nits
Contrast Ratio	500:1 (Typ.)	700:1 (Typ.)	800:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)
Active Area	153.6 x 90	153.6 x 90	216.96 x 135.6	222.72 x 125.28	210.4 x 157.8
Viewing Angle	-75~75 (H) ; -70~75 (V)	-75~75 (H) ; -75~70 (V)	-85~85 (H) ; -85~85 (V)	-80~80 (H) ; -80~75 (V)	-88~88 (H) ; -88~88 (V)
Display Color	16.7M	16.7M	16.7M	16.7M	16.2M
Touch	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)
Connectors					
Video Input	1 x USB Type-C connector	1 x USB Type-C connector	1 x USB Type-C connector	1 x USB Type-C connector	1 x USB Type-C connector
User Controls					
Control Buttons	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter
Audio					
Audio	1 x 1W Speaker (Optional)	1 x Speaker (Optional)	1 x Speaker (Optional)	1 x Speaker (Optional)	1 x Speaker (Optional)
Environment					
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Storage Temp.	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
IP Rating	Front IP65	Front IP65	Front IP65	Front IP65	Front IP65
Power					
Power Input	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)
Power Consumption	6W (Typ.)	9W (Typ.)	8W (Typ.)	13W (Typ.)	10W (Typ.)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

Featured Display

USB Type-C
Stand-Alone



Model Name	12.1"	15"	15"	15.6" (16:9)	18.5" (16:9)
	R12L100-GCM2-C	R15L100-PTC3-C	R15L600-GCC3-C	W15L100-PTA3-C	W18L100-PTA1-C
Display					
Resolution	1024 x 768	1024 x 768	1024 x 768	1920 x 1080	1366 x 768
Panel Brightness	500 nits	250 nits	250 nits	300 nits	250 nits
Contrast Ratio	700:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)
Active Area	245.76 x 184.32	304.128 x 228.096	304.1 x 228.1	344.16 x 193.59	409.8 x 230.4
Viewing Angle	-80~80 (H) ; -70~70 (V)	-80~80 (H) ; -80~80 (V)	-88~88 (H) ; -88~88 (V)	-85~85 (H) ; -85~85 (V)	-85~85 (H) ; -80~80 (V)
Display Color	16.2M	16.2M	16.2M	16.2M	16.7M
Touch	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)	Projected capacitive (Default), Protection glass, no touch (Optional)
Connectors					
Video Input	1 x USB Type-C	1 x USB Type-C	1 x USB Type-C	1 x USB Type-C	1 x USB Type-C
Power Jack	-	-	-	-	1 x Power Jack
User Controls					
Buttons	5 Keys OSD Control	7 Keys OSD Control	5 Keys OSD Control	7 Keys OSD Control	5 Keys OSD Control
Audio					
Audio	2 x 1W Speaker (Optional)	2 x 1W Speaker (Optional)	2 x 1W Speaker (Optional)	2 x 1W Speaker (Optional)	2 x 1W Speaker (Optional)
Environment					
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Storage Temp.	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
IP Rating	Front IP65	Front IP65	Front IP65	Front IP65	Front IP65
Power					
Power Source	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)	USB Type-C Alt mode (5V/3A)
Power Consumption	12W (Typ.)	12W (Typ.)	12W (Typ.)	13W (Typ.)	30W (Typ.)
Certifications					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.1"~15.6" Featured Display

PoE Series

Custom configuration



PCAP
Touchscreen



Audio and
Speaker



“

**FAST INSTALLATION
WITHOUT ADDITIONAL
ELECTRICAL WIRING.**

”

- 10.1"~15.6" screen
- Power over Ethernet (PoE)
- Chassis housing

Power over Ethernet (PoE) IEEE 802.3at (25W)

VGA, HDMI video input

Projected capacitive multi-touch

OSD control 5 keys

Operating temperature 0°C to 50°C

Application



Lobby Digital Signage

“CONVINIENT ETHERNET
INSTALLATION.”

The PoE Touch Monitor was installed as a digital signage in an office lobby. The PoE function allowed it to be installed high up on a wall without needing additional wiring costs.

Accessories

User Manual

VGA Cable

HDMI Cable

Featured Display

PoE Series



Model Name	10.1" (16:10)	10.1" (16:10)	10.4"	12.1"	15"	15.6" (16:9)
	W10L100-PCH1-PoE	W10L100-PCH2-PoE	R10L100-PCT2-PoE	R12L100-PCM2-PoE	R15L100-PTC3-PoE	W15L100-PTA3-PoE
Display						
Resolution	1024 x 600	1280 x 800	1024 x 768	1024 x 768	1024 x 768	1920 x 1080
Panel Brightness	450 nits	350 nits	350 nits	500 nits	300 nits	300 nits
Contrast Ratio	800:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	700:1 (Typ.)	700:1 (Typ.)
Viewing Angle	-75~80 (H); -80~80 (V)	-85~85 (H); -85~85 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-80~80 (H); -80~80 (V)	-85~85 (H); -85~85 (V)
Display Color	16.7M	16.7M	16.2M	16.2M	16.2 M	16.2 M
Touch	Projected capacitive, Protective glass (Optional)	Projected capacitive, Protective glass (Optional)	Projected capacitive, Protective glass (Optional)	Projected capacitive, Protective glass (Optional)	Projected capacitive, Protective glass (Optional)	Projected capacitive, Protective glass (Optional)
Touch Interface	USB	USB	USB	USB	USB	USB
Power						
Power Device (PD)	follows IEEE 802.3at (25W)	follows IEEE 802.3at (25W)	follows IEEE 802.3at (25W)	follows IEEE 802.3at (25W)	follows IEEE 802.3at (25W)	follows IEEE 802.3at (25W)
Power Consumption	10W typical, normal operation	10W typical, normal operation	10W typical, normal operation	12W typical, normal operation	15W typical, normal operation	10W typical, normal operation
Power Input	PoE, Power Device (PD) follows IEEE 802.3at (25 W), IEEE 802.3af (15 W)	PoE, Power Device (PD) follows IEEE 802.3at (25 W), IEEE 802.3af (15 W)	PoE, Power Device (PD) follows IEEE 802.3at (25 W), IEEE 802.3af (15 W)	PoE, Power Device (PD) follows IEEE 802.3at (25 W), IEEE 802.3af (15 W)	PoE, Power Device (PD) follows IEEE 802.3at (25 W), IEEE 802.3af (15 W)	PoE, Power Device (PD) follows IEEE 802.3at (25 W), IEEE 802.3af (15 W)
Audio						
Speaker	1 x Speaker (Optional)	1 x Speaker (Optional)	1 x Speaker (Optional)	2 x 1 Watt speakers (Optional)	2 x 1 Watt speaker (Optional)	2 x 1 Watt speaker (Optional)
Connectors						
Video Input	Standard: 1 x VGA (D-sub 15), 1 x HDMI (Type-A)	Standard: 1 x VGA (D-sub 15), 1 x HDMI (Type-A)	Standard: 1 x VGA (D-sub 15), 1 x HDMI (Type-A)	Standard: 1 x VGA (D-sub 15), 1 x HDMI (Type-A)	Standard: 1 x VGA (D-sub 15), 1 x HDMI (Type-A)	Standard: 1 x VGA (D-sub 15), 1 x HDMI (Type-A)
User Controls						
OSD User Controls	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter	5 Keys: -, +, Power, Esc, Enter
Environment						
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Storage Temp.	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C	-10°C to 60°C
IP Rating	Front IP65	Front IP65	Front IP65	Front IP65	Front IP65	Front IP65
Certifications						
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

10.1"~32" Featured Display

SDI Series

Custom configuration



PCAP
Touchscreen

Application



Surveillance Control Room

"CONNECT TO MULTIPLE PRO CAMERAS."

SDI input and output provide rugged locking connection and long distance data transmission for our Surveillance application.



“ LONG DISTANCE DATA TRANSMISSION. ”

- 10.1"~32" screen
- 3G SDI input and output (Loop out)
- Chassis housing

3G-SDI input, 3G SDI output

Two CVBS (BNC)

VGA, HDMI video input

Projected capacitive multitouch

OSD control 5 keys

VESA mount

Operating temperature 0°C to 50°C

Accessories

User Manual

VGA Cable

HDMI Cable

Featured Display

SDI Series



Model Name	10.1" (16:10)	15"	19"	21.5 (16:9)	32" (16:9)
	W10L100-SDH2	R15L100-SDA3	R19L300-SDA1	W22L100-SDA3	W32L100-SDA3
Display					
Resolution	1280 x 800	1024 x 768	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	300 nits	550 nits	400 nits	250 nits	250 nits
Contrast Ratio	800:1(Typ.)	700:1(Typ.)	1000:1 (Typ.)	3000:1 (Typ.)	3000:1 (Typ.)
Active Display Area (mm)	216.69 x 135.6	304.1 x 228.1	376.32x301.06	476.62 x 268.11	698.4 x 392.85
Viewing Angle	-80~80 (H); -70~70 (V)	-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M	16.7M	16.7M
Touch	Projected capacitive	Projected capacitive	Projected capacitive	Projected capacitive	Projected capacitive
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	24V DC
Power Consumption	15W	20W	27W	30W	45W
Connectors					
Signal Connector	1 x HDMI 1.3 1 x VGA 2 x CVBS (BNC) 1 x 3G-SDI in 1 x 3G-SDI out (Loop out)	1 x HDMI 1.3 1 x VGA 2 x CVBS (BNC) 1 x 3G-SDI in 1 x 3G-SDI out (Loop out)	1 x HDMI 1.3 1 x VGA 2 x CVBS (BNC) 1 x 3G-SDI in 1 x 3G-SDI out (Loop out)	1 x HDMI 1.3 1 x VGA 2 x CVBS (BNC) 1 x 3G-SDI in 1 x 3G-SDI out (Loop out)	1 x HDMI 1.3 1 x VGA 2 x CVBS (BNC) 1 x 3G-SDI in 1 x 3G-SDI out (Loop out)

5.7"~42" Featured Display

High Brightness

Custom configuration



Housing



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video



Composite



Audio and
Speaker

Application



Self Service Post Terminal

"CRISP AND CLEAR SCREEN."

High brightness screen emits more light compare to commercial-grade screens, which means more luminance and contrast. Ideal for use in outdoor environment.



“ **VISIBILITY AND BEATING THE SUN.** ”

- 5.7"~42" screen
- Chassis, open frame, panel mount, front IP65
- Sunlight readable screen

VGA, HDMI video input

Touch interface USB/RS232

Chassis, open frame, panel mount, front IP65

OSD control 5 keys

Supports VESA mount

Operating temperature 0°C to 50°C

Accessories

Power Cord

AC Adapter

Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Featured Display

High Brightness

Open Frame



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
5.7"	R05T100-OFD1(HB)	115.2 x 86.4	640 x 480	300:1 (Typ.)	900 nits	-70~70(H); -40~60(V)	No	12V DC	15 W (Typ.)	*
7" (16:10)	W07T700-OF01(HB)	153.6 x 90.0	1024 x 600	700:1 (Typ.)	1000 nits	-75~75(H); -75~70(V)	No	12V DC	8 W (Typ.)	*
8.4"	R08T200-OFT1(HB)	170.4 x 127.8	800 x 600	600:1 (Typ.)	1000 nits	-80~80(H); -60~80(V)	Yes	12V DC	15 W (Typ.)	*
10.1" (16:10)	W10L100-OFH1(HB)	222.72 x 125.28	1024 x 600	800:1 (Typ.)	800 nits	-80~80(H); -80~75(V)	Yes	12V DC	7 W (Typ.)	*
10.4"	R10L600-OF1(HB)	211.2 x 158.4	800 x 600	400:1 (Typ.)	1000 nits	-70~70(H); -70~60(V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L100-OFT2(HB)	210.4 x 157.8	1024 x 768	1200:1 (Typ.)	1000 nits	-88~88(H); -88~88(V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12T600-OFL1(HB)	246.0 x 184.5	800 x 600	700:1 (Typ.)	1000 nits	-80~80(H); -75~65(V)	Yes	12V DC	15 W (Typ.)	*
12.1" (16:10)	W12L100-OFM9(HB)	261.12 x 163.2	1280 x 800	1000:1 (Typ.)	1000 nits	-88~88(H); -88~88(V)	Yes	12V DC	20 W (Typ.)	*
12.1"	R12L600-OFM2(HB)	245.76 x 184.32	1024 x 768	700:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L100-OFC3(HB)	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	1000 nits	-88~88(H); -88~88(V)	Yes	12V DC	22 W (Typ.)	*
15.6" (16:9)	W15L100-OFA2(HB)	344.2 x 193.5	1366 x 768	500:1 (Typ.)	1300 nits	-85~85(H); -80~80(V)	Yes	12V DC	25 W (Typ.)	*
17"	S17L500-OFA1(HB)	337.9 x 270.3	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	31 W (Typ.)	*
18.5" (16:9)	W18L100-OFA2(HB)	409.8 x 230.4	1366 x 768	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	36 W (Typ.)	*
19"	R19L300-OFA1(HB)	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	31 W (Typ.)	*
21.5" (16:9)	W22L100-OFA3(HB)	476.64 x 268.11	1920 x 1080	5000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	50 W (Typ.)	*
22" (16:10)	W22L100-OFM1(HB)	473.76 x 296.1	1680 x 1050	1000:1 (Typ.)	1000 nits	-80~80(H); -80~80(V)	Yes	12V DC	60 W (Typ.)	*
24" (16:9)	W24L100-OFA2(HB)	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	65W (Typ.)	
27" (16:9)	W27L100-OFA1(HB)	597.6 x 336.15	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	70W (Typ.)	
32" (16:9)	W32L100-OFA3(HB)	698.4 x 392.85	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	75W (Typ.)	



Chassis

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
15"	R15L100-CHC3(HB)	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	1000 nits	-88~88(H); -88~88(V)	Yes	12V DC	22 W typical, normal operation	*
17"	R17L500-CHA1(HB)	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	45 W typical, normal operation	*
19"	R19L300-CHA1(HB)	376.3 x 301.1	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	32 W typical, normal operation	*
21.5" (16:9)	W22L100-CHA3(HB)	476.64 x 268.11	1920 x 1080	5000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	50 W typical, normal operation	*
42" (16:9)	W42L100-OML2(HB)	930.24 x 523.26	1920 x 1080	4000:1 (Typ.)	700 nits	-89~89(H); -89~89(V)		100~240V AC	110 W typical, normal operation	

High Brightness Display



Panel Mount

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
5.7"	R05T100-PMD1(HB)	115.2 x 86.4	640 x 480	300:1 (Typ.)	900 nits	-70~70(H); -40~60(V)	No	12V DC	15 W (Typ.)	*
8.4"	R08T200-PMT1(HB)	170.4 x 127.8	800 x 600	600:1 (Typ.)	1000 nits	-80~80(H); -60~80(V)	Yes	12V DC	15 W (Typ.)	*
10.1"(16:10)	W10L100-PMH1(HB)	222.72 x 125.28	1024 x 600	800:1 (Typ.)	800 nits	-70~70(H); -60~50(V)	Yes	12V DC	7 W (Typ.)	*
10.4"	R10L600-PMP1(HB)	211.2 x 158.4	800 x 600	400:1 (Typ.)	1000 nits	-70~70(H); -70~60(V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L100-PMT2(HB)	210.4 x 157.8	1024 x 768	1200:1 (Typ.)	1000 nits	-88~88(H); -88~88(V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12T600-PML1(HB)	246.0 x 184.5	800 x 600	700:1 (Typ.)	1000 nits	-80~80(H); -75~65(V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12L600-PMM2(HB)	245.76 x 184.32	1024 x 768	700:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L100-PMC3(HB)	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	1000 nits	-88~88(H); -88~88(V)	Yes	12V DC	22 W (Typ.)	*
15.6"(16:9)	W15L100-PMA2(HB)	344.2 x 193.5	1366 x 768	500:1 (Typ.)	1300 nits	-85~85(H); -80~80(V)	Yes	12V DC	25 W (Typ.)	*
17"	S17L500-PMA1(HB)	337.9 x 270.3	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	32 W (Typ.)	*
19"	R19L300-PMA1(HB)	376.3 x 301.1	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	31 W (Typ.)	*
21.5"(16:9)	W22L100-PMA3(HB)	476.64 x 268.11	1920 x 1080	5000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	50 W (Typ.)	*
24"(16:9)	W24L100-PMA2(HB)	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	65W (Typ.)	
27"(16:9)	W27L100-PMA1(HB)	597.6 x 336.15	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	70W (Typ.)	
32"(16:9)	W32L100-PMA3(HB)	698.4 x 392.85	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	75W (Typ.)	



Front IP65

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
7"(16:10)	W07T700-IPO1(HB)	153.6 x 90.0	1024 x 600	700:1 (Typ.)	1000 nits	-75~75(H); -75~70(V)	No	12V DC	8 W (Typ.)	*
8.4"	R08T200-IPT1(HB)	170.4 x 127.8	800 x 600	600:1 (Typ.)	1000 nits	-80~80(H); -60~80(V)	Yes	12V DC	10 W (Typ.)	*
10.4"	R10L600-IPP1(HB)	211.2 x 158.4	800 x 600	400:1 (Typ.)	1000 nits	-70~70(H); -70~60(V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L100-IPT2(HB)	210.4 x 157.8	1024 x 768	1200:1 (Typ.)	1000 nits	-88~88(H); -88~88(V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12L600-IPM2(HB)	245.76 x 184.32	1024 x 768	700:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	17 W (Typ.)	*
15"	R15L100-IPC3(HB)	304.128 x 228.096	1024 x 768	2000:1 (Typ.)	700 nits	-80~80(H); -70~70(V)	Yes	12V DC	22 W (Typ.)	*
17"	S17L500-IPA1(HB)	337.9 x 270.3	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	32 W (Typ.)	*
19"	R19L300-IPA1(HB)	376.3 x 301.1	1280 x 1024	1000:1 (Typ.)	1000 nits	-85~85(H); -80~80(V)	Yes	12V DC	31W (Typ.)	*
21.5"	W22L100-IPA3(HB)	476.64 x 268.11	1920 x 1080	5000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	50 W (Typ.)	*
24"(16:9)	W24L100-IPA2(HB)	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	65W (Typ.)	
27"(16:9)	W27L100-IPA1(HB)	597.6 x 336.15	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	70W (Typ.)	
32"(16:9)	W32L100-IPA3(HB)	698.4 x 392.85	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	75W (Typ.)	

High Brightness Display



PCAP Panel Mount

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR≥10)	Optional DVI Input	Power Input	Power Consumption	Capacitive
10.4"	R10L100-PPP1(HB)	211.2 x 158.4	800 x 600	400:1 (Typ.)	1000 nits	-70~70 (H); -70~60 (V)	Yes	12V DC	15 W (Typ.)	*
10.4"	R10L100-PPT2(HB)	210.4 x 157.8	1024 x 768	1200:1 (Typ.)	1000 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	15 W (Typ.)	*
15"	R15L600-PPC3(HB)	304.1 x 228.1	1024 x 768	2000:1 (Typ.)	1000 nits	-88~88 (H); -88~88 (V)	Yes	12V DC	25 W (Typ.)	*
15.6"(16:9)	W15L100-PPA2(HB)	344.232 x 193.536	1366 x 768	500:1 (Typ.)	1300 nits	-85~85(H); -80~80(V)	Yes	12V DC	25 W (Typ.)	*
19"	R19L300-PPA1(HB)	376.32 x 301.06	1280 x 1024	1000:1 (Typ.)	1000 nits	-85:~85(H); -80:~80(V)	Yes	12V DC	27 W (Typ.)	*
21.5"(16:9)	W22L100-PPA3(HB)	476.64 x 268.11	1920 x 1080	5000:1 (Typ.)	1000 nits	-89~89 (H); -89~89 (V)	Yes	12V DC	30 W (Typ.)	*
24"(16:9)	W24L100-PPA2(HB)	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	65W (Typ.)	*
27"(16:9)	W27L100-PPA1(HB)	597.6 x 336.15	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	70W (Typ.)	*
32"(16:9)	W32L100-PPA3(HB)	698.4 x 392.85	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	75W (Typ.)	*

7"~32" Featured Display

Transflective

Custom configuration



Housing



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video

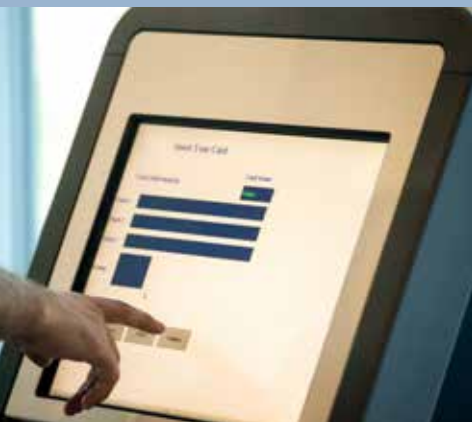


Composite



Audio and
Speaker

Application



Parking Paying Terminal

"BRIGHTER BACKLIGHT
WITHOUT DRAWING
MORE POWER."

The transflective display remains readable in bright light without requiring a specialized backlight. This reduces thermal issues and power consumption.



“**LOW POWER CONSUMPTION.
SUNLIGHT READABLE SCREEN.**”

- 7"~32" screen
- Chassis, open frame, front IP65, Panel mount
- Lower power consumption

VGA, HDMI video input

Touch interface USB/RS232

Chassis, open frame, front IP65

OSD control 5 keys

Supports VESA mount

Operating temperature 0°C to 50°C

Accessories

Power Cord

AC Adapter

Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Featured Display

Transflective Display

Open Frame



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
7" (16:10)	W07T700-OFA4TR	152.40 x 91.44	800 x 480	1000:1 (Typ.)	500 nits	-80~80(H); -80~80(V)	No	12V DC	10 W (Typ.)	*
8.4"	R08L200-OFU1TR	170.4 x 127.8	800 x 600	600:1 (Typ.)	500 nits	-75~75(H); -60~70(V)	Yes	12V DC	10W (Typ.)	*
10.4"	R10L600-OFP1TR	211.2 x 158.4	800 x 600	400:1 (Typ.)	700 nits	-70~70(H); -70~60(V)	Yes	12V DC	13 W (Typ.)	*
12.1"	R12L600-OFM2TR	245.76 x 184.32	1024 x 768	700:1 (Typ.)	600 nits	-89~89(H); -89~89(V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L100-OFA1TR	304.1 x 228.1	1024 x 768	700:1 (Typ.)	610 nits	-80~80(H); -70~70(V)	Yes	12V DC	31 W (Typ.)	*
17"	S17L500-OFA1TR	337.92 x 270.34	1280 x 1024	1000:1 (Typ.)	400 nits	-85~85(H); -80~80(V)	Yes	12V DC	32 W (Typ.)	*
21.5" (16:9)	W24L100-OFA3TR	476.64 x 286.11	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	50 W (Typ.)	*
24" (16:9)	W24L100-OFA2TR	527.04 x 296.46	1920 x 1080	3000:1 (Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	65W (Typ.)	*
32" (16:9)	W32L300-OFA3TR	698.40 x 392.85	1920 x 1080	3000:1 (Typ.)	430 nits	-89~89(H); -89~89(V)	Yes	24V DC	75 W (Typ.)	*



Chassis

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
7" (16:10)	W07T700-CHA4TR	152.40 x 91.44	800 x 480	1000:1(Typ.)	500 nits	-80~80(H); -80~80(V)	No	12V DC	9 W (Typ.)	*
10.4"	R10L600-CHP1TR	211.2 x 158.4	800 x 600	400:1(Typ.)	700 nits	-70~70(H); -70~60(V)	Yes	12V DC	13 W (Typ.)	*
10.4"	R10L100-CHP3TR	211.2 x 158.4	640 x 480	700:1(Typ.)	540 nits	-80~80(H); -80~60(V)	Yes	12V DC	15 W (Typ.)	*
12.1"	R12L600-CHM2TR	245.76 x 184.32	1024 x 768	700:1(Typ.)	600 nits	-89~89(H); -89~89(V)	Yes	12V DC	20 W (Typ.)	*
15"	R15L100-CHA1TR	304.1 x 228.1	1024 x 768	700:1(Typ.)	610 nits	-80~80 (H); -70~70 (V)	Yes	12V DC	31 W (Typ.)	*
17"	R17L500-CHA1TR	337.92 x 270.34	1280 x 1024	1000:1(Typ.)	400 nits	-85~85(H); -80~80(V)	Yes	12V DC	32 W (Typ.)	*
21.5" (16:9)	W22L100-CHA3TR	476.64 x 286.11	1920 x 1080	3000:1(Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	50 W (Typ.)	*
24" (16:9)	W24L100-CHA2TR	527.04 x 296.46	1920 x 1080	3000:1(Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	65W (Typ.)	*
32" (16:9)	W32L100-CHA3TR	698.4 x 392.85	1920 x 1080	3000:1(Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	75 W (Typ.)	*



Front IP65

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR>=10)	Optional DVI Input	Power Input	Power Consumption	Resistive
15"	R15L100-IPA1TR	304.1 x 228.1	1024 x 768	700:1(Typ.)	610 nits	-80~80(H); -70~70(V)	Yes	12V DC	31 W (Typ.)	*
17"	S17L500-IPA1TR	337.92 x 270.34	1280 x 1024	1000:1(Typ.)	400 nits	-85~85(H); -80~80(V)	Yes	12V DC	32 W (Typ.)	*
21.5" (16:9)	W22L100-IPA3TR	476.64 x 286.11	1920 x 1080	3000:1(Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	50 W (Typ.)	*
24" (16:9)	W24L100-IPA2TR	527.04 x 296.46	1920 x 1080	3000:1(Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	65W (Typ.)	*
32" (16:9)	W32L100-IPA3-TR	698.4 x 392.85	1920 x 1080	3000:1(Typ.)	1000 nits	-89~89(H); -89~89(V)	Yes	12V DC	75 W (Typ.)	*

6.5"~19" Featured Display

Wide Temperature

Custom configuration



Housing



Resistive
Touchscreen



SAW
Touchscreen



DVI-D



S-Video



Composite



Audio and
Speaker



“

FOR EXTREME WEATHER.

”

- 6.5"~19" screen
- Rear mount, front IP65, panel mount
- Wide operating temperature -20°C to 60°C

VGA, HDMI video input

Touch interface USB/ RS232

Rear mount, front IP65

OSD control 5 key

Operating temperature -20°C to 60°C

ATM Machine

“RELIABLE SYSTEM
WITH EXTENDED
TEMPERATURE RANGE.”

With front IP65 water and
dust protection our display
was installed in an ATM
machine located outdoors.



Accessories

Power Cord

Adapter

Drive CD

VGA Cable 1.8m

HDMI Cable 2m

Featured Display

Wide Temperature Display

Front IP65



Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR≥10)	Optional DVI Input	Power Input	Power Consumption	Resistive
8.4"	R08T200-IPT1WT	170.4 x 127.8	800 x 600	600:1 (Typ.)	450 nits	-80~80(H); -60~80(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	15 W typical, normal operation	*
10.4"	R10L100-IPA1WT	211.2 x 158.4	800 x 600	700:1 (Typ.)	450 nits	-80~80(H); -70~60(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	18 W typical, normal operation	*
12.1"	R12L600-IPM2WT	245.76 x 184.32	1024 x 768	1000:1 (Typ.)	500 nits	-89~89(H); -89~89(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	20 W typical, normal operation	*
15"	R15L100-IPA3WT	304.1 x 228.1	1024 x 768	2500:1 (Typ.)	500 nits	-88~88(H); -88~88(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	23 W typical, normal operation	*
17"	S17L500-IPA1WT	337.92 x 270.336	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85(H); -80~80(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	35 W typical, normal operation	*
19"	R19L300-IPA3WT	376.3 x 301.1	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85(H); -80~80(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	40 W typical, normal operation	*



Rear Mount

Size	Model Name	Active Display Area (mm)	Resolution	Contrast Ratio	Panel Brightness	Viewing Angle (CR≥10)	Optional DVI Input	Power Input	Power Consumption	Resistive
6.5"	R06L200-RMA1WT	132.48 x 99.36	640 x 480	450:1 (Typ.)	400 nits	-80~80(H); -70~70(V)	No	12V DC, with External AC-DC Adapter (100~240V)	15 W typical, normal operation	
8.4"	R08T200-RMT1WT	170.4 x 127.8	800 x 600	600:1 (Typ.)	450 nits	-80~80(H); -60~80(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	15 W typical, normal operation	*
10.4"	R10L100-RMA1WT	211.2 x 158.4	800 x 600	700:1 (Typ.)	400 nits	-80~80(H); -70~60(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	18 W typical, normal operation	*
12.1"	R12L600-RMM2WT	245.76 x 184.32	1024 x 768	1000:1 (Typ.)	500 nits	-89~89(H); -89~89(V)	No	12V DC, with External AC-DC Adapter (100~240V)	20 W typical, normal operation	*
15"	R15L100-CHA3WT	304.1 x 228.1	1024 x 768	2500:1 (Typ.)	500 nits	-88~88(H); -88~88(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	23 W typical, normal operation	*
17"	R17L500-CHA1WT	337.9 x 270.3	1280 x 1024	1000:1 (Typ.)	350 nits	-85~85(H); -80~80(V)	Yes	12V DC, with External AC-DC Adapter (100~240V)	35 W typical, normal operation	*



MARKET READY SOLUTION

Overview 219

ATEX

Overview	221
ATEX Embedded Computing	223
ATEX Panel PC	225
ATEX Display	229

Healthcare

Overview	231
Healthcare Display	233

Marine

Overview	239
Marine Embedded Computing	241
Marine Panel PC	245
Marine Display	252

Military

Overview	257
Military Panel PC	259
G-WIN Military Panel PC	265
Military Display	267

Smart Retail

Overview	281
Bar Type Panel PC	285
Bar Type Display	288
Digital Signage Embedded Player	291
Digital Signage Box PC	293
OPS Panel PC	295
OPS Module	297

Market Ready Solution

Overview

For enterprises operating in rugged or potentially hazardous environments, access to the latest technology built specifically for these demanding industries is imperative. Winmate understands the need for ruggedness and uninterrupted productivity when it comes to operating in challenging environments.

At Winmate, we have the engineering expertise and strategic partnership with world-known technology companies to provide customers the leading edge in industrial-grade communications tools that maximize operational efficiency, safety, asset tracking and data management.

Our engineering process and in-depth knowledge of electrical, mechanical, thermal, and firmware design ensures optimized performance, durability and reliability with every rugged product we create. At Winmate, our technologies undergo a series of tests at our state-of-the-art in-house testing facility to verify the performance.

Winmate's products for Market Ready Solution include:

- Compliance to international standards
- The latest Android™, Windows® operating system
- The most innovative product know-how

Winmate provides rugged computing solutions for demanding industries, including ATEX, Healthcare, Marine and Military.

Product Overview



Designed for Harsh Environments

ATEX

Certified for harsh environments

- Class 1 Division 2 (C1D2) Certified
- Intrinsic safety schematics design
- Non-spark safety design
- No-air potting process
- UL and CSA certified factory with Quality Management System (QMS)



Healthcare

Right technology to improve patient care

- Super-high ESD protection
- Excellent RS immunity
- Super-low current leakage
- Low surface temperature



Marine

Robust technologies for maritime

- Accurate color representation for DAY/DUSK/NIGHT
- Calibrated following ECDIS standard
- Auto-calibrating know-how



Military

Designed for mission critical challenges

- Anti-drop solutions
- Anti-vibration solutions
- Waterproof & dustproof solutions
- Anti-moisture design
- Thermal design for fanless systems



Product Guide - Market Ready Solution

ATEX



p.221~p.230

Healthcare



p.231~p.238

Marine



p.239~p.256

Military



p.257~p.280

Overview

Oil rigs and remote pipeline locations are some of the most dangerous and challenging work environments anywhere.

When looking for electronics to support these environments, devices must stand up to three key requirements:

1. Provide advanced system monitoring even in the most challenging conditions.
2. Accurately identify and track assets and communicate data from remote sites.
3. Withstand the highest scrutiny of certification and inspection.

Winmate rugged computers are designed for the harsh environments of an oil refinery or a drilling rig and come with ATEX Zone 2 and Class 1 Division 2 (C1D2) certifications. By employing automated processes, oil and gas companies can increase the number of production wells, improve production control and reap the benefits of modern technologies.

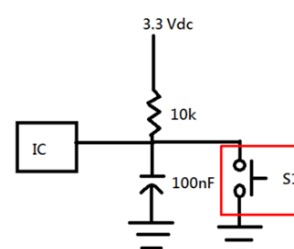
Technology

It is required by law and legislation by countries around the world that electrical equipment must be designed and manufactured for safe use in environments or atmospheres that may be potentially flammable or explosive. These hazardous areas are defined as where flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers or flyings are present. At oil and gas production operations and facilities, these hazards and dangers are common place. Flammable or explosive substances may be present in some varying quantity at all times, so fire and explosion protection and safety certifications for all electrical equipment used in these operations is mandatory.

Winmate has technology know-how for production and development of explosion-proof devices:

Intrinsic Safety Schematic Design

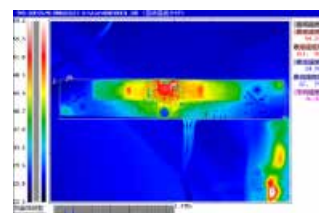
The schematic design of the electronic system must ensure that the temperature under all fault conditions can never rise to a value which may cause the ignition of explosive gasses. Our engineers design the intrinsic safety schematics for explosion-proof product line.



Intrinsically safe design

Non-Sparking Device

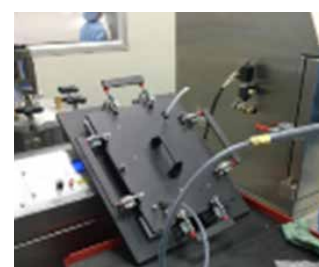
Intrinsically safe design means that ignition of a hazardous atmosphere (explosive gas or dust) cannot occur. This is achieved by ensuring that only low voltages and currents enter the hazardous area and that no significant energy storage is possible. Tout thermal design also prevents device's from overheating.



Thermal design

No-Air Potting Process

Potting is a process of filling a complete electronic assembly with a solid or gelatinous compound for resistance to shock and vibration, and for exclusion of moisture and corrosive agents. Winmate perform no-air potting of electronic components in-house. Potting prevents the substrate from failing in harsh environments or from vibrations or other potentially-damaging uses.



Potting process

Safety and Standards

Quality Management System

Winmate factory is UL and CSA certified with Quality Management System.



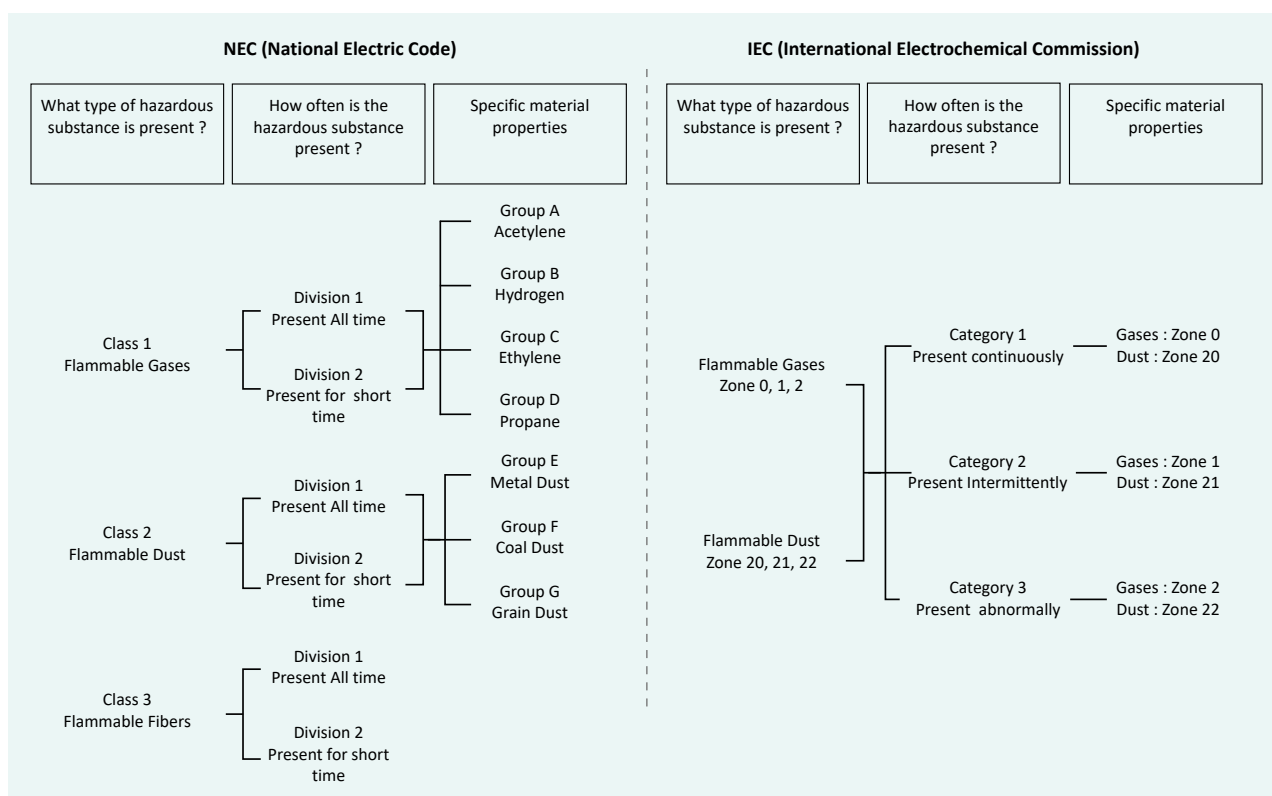
Product Testing & Certifications

To meet the safety qualification, Winmate offers ATEX and Class 1 Division 2 (C1D2)certified solutions for maintaining safe operations and collecting detailed, sensitive data in remote rig and pipeline locations.

For the classification of the equipment, Winmate generally uses both the North American National Electric Code (NEC) and the European ATEX directive.

NEC and IEC Certifications

NEC (National Electric Code)	According to OSHA, NEC defines hazardous locations as those areas where fire or explosion hazards may exist due to flammable gases or vapors, flammable liquids, combustible dust or ignitable fibers or flyings. NEC classified hazardous locations in three ways; type, condition, and nature.
IEC (International Electrochemical Commission)	IEC defines the flammable gases and vapors and then flammable dust, each of this type are assigned into three different zone and each zone then requires equipment built for category I,II or III.



ATEX Embedded Computing

IBDRW100-EX

Custom configuration



Memory



Storage



2nd Storage



Wi-Fi



4G



Application



Petrochemical Processing Plant

"STABLE PERFORMANCE
IN A COMPACT RUGGED
DESIGN."

This DIN Rail Box PC was integrated as the system controller for a petrochemical plant monitoring onsite data.

“

**COMPACT.
FOR HAZARDOUS
LOCATIONS.**

”

- Intel® Celeron® N2930
- Windows 10
- DIN-Rail mount

Class 1, Division 2, ATEX Zone 2

Certified AWS IoT Greengrass

RS232/422/485 communication port, switch by jumper

Digital I/O, four Giga LAN

VGA video output

One USB 3.0, three USB 2.0

Fanless, streamlined enclosure

Wide operating temperature -20°C to 60°C

Accessories

Standard

Power Adapter

Terminal Block Adapter

Power Cable

Cable Holder Kit

Open Wire Cable

DIN Rail Mount Clip

Terminal Block DI/DO

ATEX Embedded Computing

Intel® Celeron® N2930

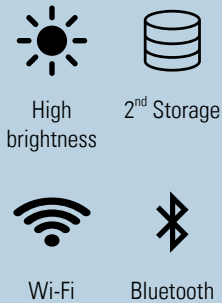


Model Name	IBDRW100-EX	IBDRW100-EX-P
System		
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Pentium® N4200 (2M Cache, up to 2.5 GHz)
Memory	1 x DDR3L 1333MHz SO-DIMM (Default 4GB, up to 8GB)	1 x DDR3L 1333MHz SO-DIMM (Default 4GB, up to 8GB)
Storage	Main Storage : Default : 64GB mSATA SSD, up to 512GB Optional Second Storage : 2.5" SSD 64GB to 512GB	Main Storage : Default : 64GB M.2 SSD, up to 512GB Optional Second Storage : 2.5" SSD 64GB to 512GB
Ethernet Controller	Intel® I210-AT GbE LAN	Intel® I210-AT Gigabit-LAN Controller
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise
Connectors		
Power	1 x 3 Pin Terminal Block	1 x 3 Pin Terminal Block
Ethernet	4 x RJ45 10/100/1000 (LAN3 disabled if WLAN Module is added)	4 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232) 1 x RS422/485 (Isolation)	1 x RS232/422/485 (Default RS232) 1 x RS422/485 (Isolation)
USB	1 x USB3.0, 3 x USB2.0	3 x USB 3.0, 1 x USB 2.0
VGA	1 x VGA	1 x VGA
DI/DO	1 x 20 pins terminal block DI/DO (9in/9out)	1 x 20 pins terminal block DI/DO (9in / 9out)
Audio	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Power		
Power Input	9~36V DC with isolation	9~36V DC with isolation
Power Consumption	25W	25W
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Mechanical		
Dimensions	139 x 65 x 152 mm	139 x 65 x 152 mm
Mounting	DIN Rail	DIN Rail
Color	Dark Silver	Dark Silver
Housing	Aluminum	Aluminum
Cooling System	Fanless design	Fanless design
Environment		
Operating Temp.	-20°C to 60°C	-20°C to 60°C
Storage Temp.	-40°C to 80°C	-40°C to 80°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz / 1Grms/3 Axis
Shock	15G, 11ms duration	15G, 11ms duration
Certifications		
Safety	CE, FCC, AWS, IoT Greengrass	CE, FCC
HazLoc	Class 1, Division 2 & ATEX Zone 2 device certified	Class 1, Division 2 & ATEX Zone 2 device certified

19" ATEX Panel PC

R19IHAT-66EX

Custom configuration



Application



Oilfield Drilling Monitoring System

"THE HIGHEST STANDARD IN RELIABILITY AND SERVICE."

The 19" aluminum panel PC was implemented as part of an oilfield drilling monitoring system that now allows for better control over operations.

“EXPLOSION PROOF. FOR SAFE OPERATIONS.”

- 19", 1280 x 1024 screen
- Intel® Core™ i7-4650U
- Windows 10

Class 1, Division 2 & ATEX Zone 2

4GB DDR3L SO-DIMM

128GB mSATA SSD

Projected capacitive touch, optical bonding

Fanless cooling system

Aluminum housing

Touch screen control physical button

VESA mount, Panel mount

Wide power input 9~36V DC with isolation

Wide operating temperature -40°C to 70°C

Accessories

Standard

Open Wire Cable	Terminal Block DI/DO	Terminal Block Adapter	VESA Screws
Cable Holder Clip	DIN Rail Mount Clip	Power Cord	Power Converter Cable (0.15 m)

Optional

Side Handle	WiFi Antenna Extension Cable
-------------	------------------------------

ATEX Panel PC

Intel® Core™ i7-4650U



Model Name	19"
	R19IHAT-66EX
Display	
Resolution	1280 x 1024
Panel Brightness	600 nits
Contrast Ratio	1000:1 (Typ.)
Active Area	376.32 x 301.06
Viewing Angle	-85~85 (H); -80~80 (V)
Display Color	16.7M
Touch	PCAP touchscreen
System	
Processor	Intel® Core™ i7-4650U (4M Cache, up to 3.30 GHz)
BIOS	AMI BIOS
Chipset	Intel® HD graphics 5000
Memory	4GB DDR3L 1600MHz SO-DIMM (Up to 8GB)
Storage	128GB mSATA SSD (Up to 512GB)
OS	Windows 10 IoT Enterprise
Connectors	
Serial Interface	1 x RS232/422/485 (Default RS232) 1 x RS422/485 (Isolation)
USB	1 x USB 2.0 terminal, 1 x USB 3.0, 2 x USB 2.0 (Female)
LAN	1 x LAN terminal block, 1 x RJ45 10/100/1000
Power	1 x DC in
VGA	1 x VGA (DB15)
Mechanical	
Dimension	474 x 410 x 111 mm
Mounting	VESA Mount (100 x 100 mm), Panel Mount
Environment	
Operating Temp.	-40°C to 70°C
Humidity	10% to 95% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6
Vibration	MIL-STD-810F/G Method 514.6
Drop	MIL-STD-810F/G Method 516.6
Power	
Power Input	9~36V DC (Isolation)
Power Consumption	56W (Typ.)
Certifications	
Safety	CE, FCC
Hazardous Location	IECEx Zone 2, ATEX Zone 2, Class I, Div. 2

15" ATEX Panel PC R15IB3S-65EX

Custom configuration



Memory



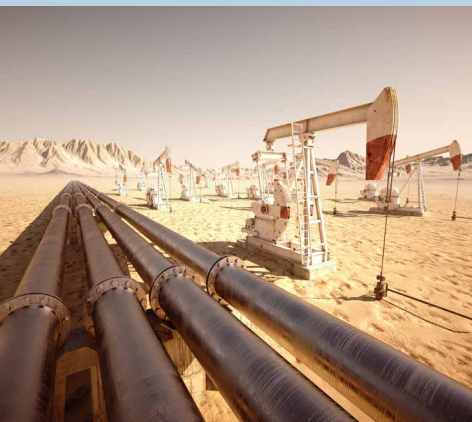
Storage



High
brightness



Application



Gas Pipe Monitoring

"GAS DISTRIBUTION
PROCESS VISUALIZATION
AND OPERATOR
CONTROL."

ATEX-certified panel PC
visualizes each step of the
gas distribution journey from
extraction to refinery to
improve production control
and monitor possible leakage.

**“OPTIMIZE PERFORMANCE IN
HAZARDOUS LOCATIONS.”**

- 15", 1024 x 768 screen
- Intel® Celeron® N2930 (R15IB3S-65EX)
- Intel Atom® N2600 (R15ID3S-65EX)
- Windows 10

Class 1, Division 2, ATEX Zone 2, IECEx Zone 2

Projected capacitive touch, optical bonding

Fanless cooling system

Stainless housing

VESA mount

Wide power input 9~36V DC with isolation

Operating temperature -20°C to 50°C

Accessories

Standard

RS232 Cable
Ethernet Extension Adapter

USB Cable
USB Adapter

RJ45 Cable
Power Cord

Power Adapter
VESA Screws

ATEX Panel PC

Intel® Celeron® N2930

Intel Atom® N2600



Model Name	15"	15"
	R15ID3S-65EX	R15IB3S-65EX
Display		
Resolution	1024 x 768	1024 x 768
Panel Brightness	550 nits	550 nits
Contrast Ratio	2000:1 (Typ.)	2000:1 (Typ.)
Active Area	304.1 x 228.1	304.1 x 228.1
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)
Display Color	16.2M	16.2M
Touch	Resistive touchscreen	PCAP touchscreen
System		
Processor	Intel Atom® N2600 (1M Cache, 1.6 GHz)	Intel® Celeron® N2930, 1.83 GHz
BIOS	AMI BIOS	AMI BIOS
Chipset	Intel® NM10	Intel® SoC Integrated
Memory	4GB DDR3 1600MHz SO-DIMM (Up to 8GB)	4GB DDR3L 1600MHz SO-DIMM (Up to 8GB)
Storage	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)
OS	Windows 7 Pro for Embedded System Windows Embedded Std. 7	Windows 10 IoT Enterprise
Connectors		
Serial Interface	1 x M12 Type RS232/422/485	1 x M12 Type RS232/422/485
USB	1 x M21 Type USB Type-A Receptacle	1 x M21 Type USB Type-A Receptacle
LAN	1 x M12 Type RJ45 10/100/1000	1 x M12 Type RJ45 10/100/1000
Power	1 x M21 Type DC in	1 x M21 Type DC in
Mechanical		
Dimension	396 x 310 x 49 mm	396 x 310 x 49 mm
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)
Environment		
Operating Temp.	-20°C to 50°C	-20°C to 50°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6	MIL-STD-810F/G Method 516.6
Vibration	MIL-STD-810F/G Method 514.6	MIL-STD-810F/G Method 514.6
Drop	MIL-STD-810F/G Method 516.6	MIL-STD-810F/G Method 516.6
Power		
Power Input	9~36V DC (Isolation)	9~36V DC (Isolation)
Power Consumption	25W (Typ.)	35W (Typ.)
Certifications		
Safety	CE, FCC	CE, FCC
Hazardous Location	IECEx Zone 2, ATEX Zone 2, UL Class I, Div. 2	IECEx Zone 2, ATEX Zone 2, UL Class I, Div. 2

15" ATEX Display

R15L600-65EX

Custom configuration



High
brightness



Application



Flow and Temperature Monitoring

"INTRISTICALLY SAFE
DESIGN WITH USER
FRIENDLY INTERFACE."

As a part of monitoring system
Winmate's 15" ATEX-certified
display to visualize gas flow
and temperature on the
operator control panel.

“**OPTIMIZE PERFORMANCE IN
HAZARDOUS LOCATIONS.**”

- 15", 1024 x 768 screen
- VGA input
- Stainless housing

Class 1, Division 2, ATEX Zone 2, IECEx Zone 2

Projected capacitive touch, optical bonding

Fanless cooling system

Stainless housing

VESA mount, Panel mount

Wide power input 9~36V DC with isolation

Operating temperature -20°C to 50°C

Accessories

Standard

RS232 Cable

Ethernet Extension Adapter

USB Cable

USB Adapter

RJ45 Cable

Power Cord

Power Adapter

VESA Screws

ATEX Display

Stainless



Model Name	15"
	R15L600-65EX
Display	
Resolution	1024 x 768
Panel Brightness	550 nits (Optional 1000 nits)
Contrast Ratio	2000:1 (Typ.)
Active Area	304.128 x 228.096
Viewing Angle	-88~88 (H); -88~88 (V)
Display Color	16.2M
Touch	Resistive touchscreen/PCAP touchscreen
Connectors	
USB	1 x M12 Type USB or RS232 (For touch)
Power	1 x M21 type DC power input connector
VGA	1 x M21 Type VGA in
Mechanical	
Dimension	396 x 310 x 49 mm
Mounting	VESA Mount (100 x 100 mm)
Environment	
Operating Temp.	-20°C to 50°C
Humidity	10% to 95% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6
Vibration	MIL-STD-810F/G Method 514.6
Drop	MIL-STD-810F/G Method 516.6
Power	
Power Input	9~36V DC with isolation protection
Power Consumption	20W (typ.)
Certifications	
Safety	CE, FCC, CSA, UL60950-1
Hazardous Location	IECEx Zone 2, ATEX Zone 2, UL Class I, Div. 2

Healthcare Solutions

Overview

Technology has long played an imperative role in streamlining hospital operations and improving patient care. In hospital environments, performance, reliable and accurate image reproduction are imperative. From medical images to patient data, the hospital environment is a complex ecosystem that requires advanced technology to keep it running smoothly.

Our medical imaging solutions include:

- Surgical and clinical display
- Durable design and know-how in medical images visualization

Expand your medical and healthcare business with the Winmate. As a technology solutions leader, Winmate values our partners. As a partner, you are a vital instrument in ensuring the customer needs are understood and that their expectations are exceeded every time.

Technology

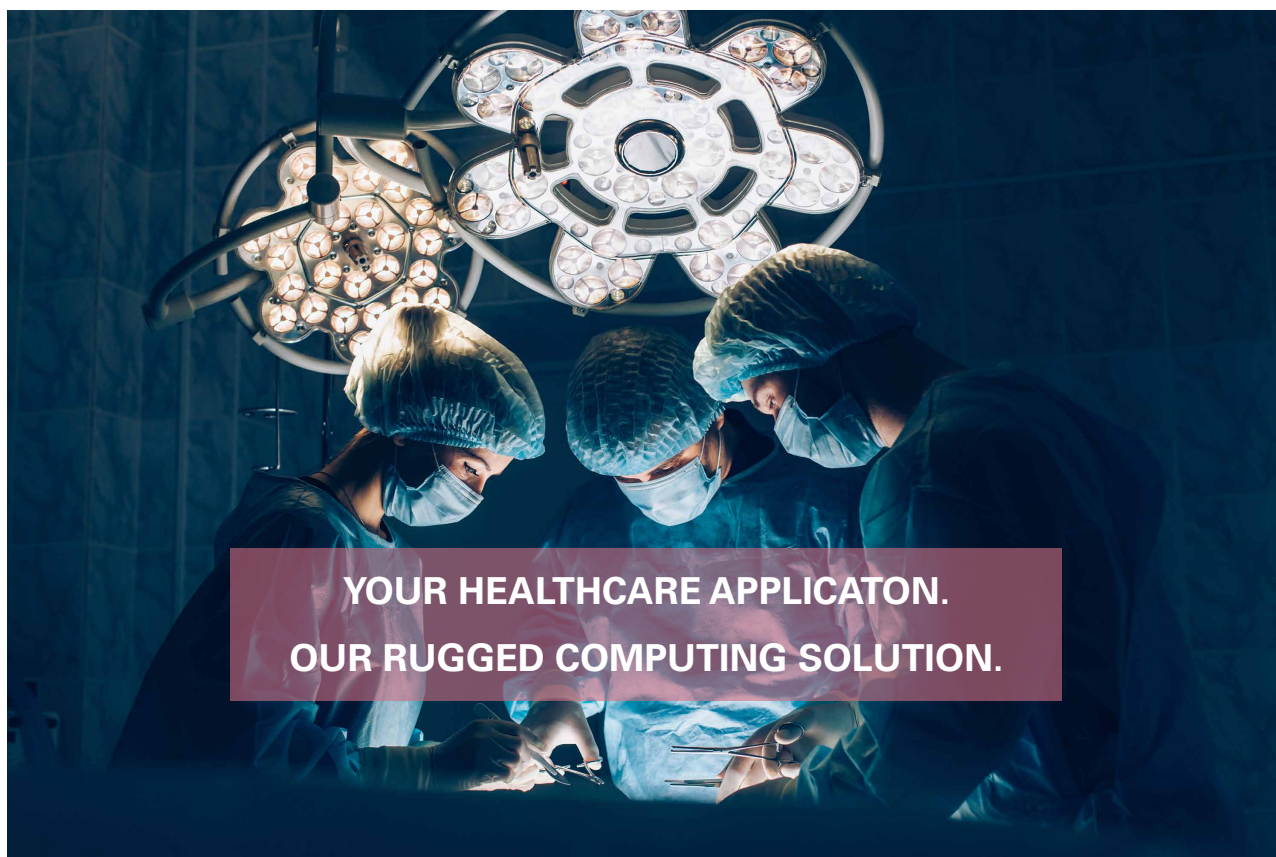
Certification & Quality Approvals

Winmate developed and implemented a quality management system based on a process management approach which has demonstrate its ability to provide consistent products that meet customer and applicable regulatory requirements. The quality system complies with the international standard ISO 9001:2008 and the standards which apply to related industries.

Winmate achieved ISO 13485:2016 and EN ISO 13485:2016 certification for its' design, development, production, installation, and servicing of medical devices. This achievement also enables Winmate to expand its medical-related product line, and create new opportunities for our original design manufacturer (ODM), original equipment manufacturer (OEM), and rebranding partners.

ISO 9001	ISO 14001	IECQ QC080000	ISO 13485
 Management System ISO 9001:2008 ISO 14001:2004 QC 080000:2012 www.tuv.com ID: 9105017256	 QC 080000 IECQ HSPM		

What does this mean for you? Winmate's certification confirms any portable panel PCs and mobile tablets we develop for use in the medical industry are safe and meet all regulatory design requirements.



Industrial Challenges

• Real Time Information

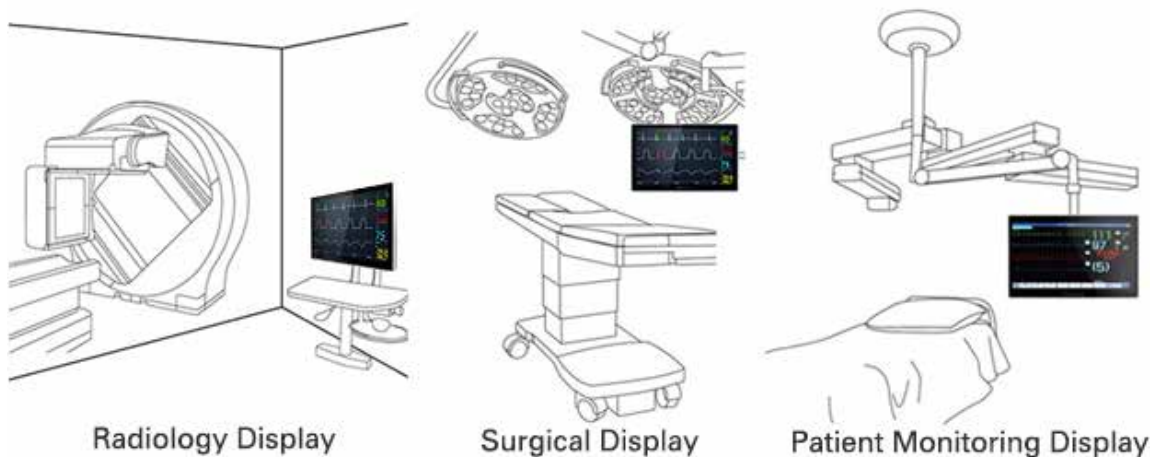
The trend in Healthcare applications is to get patients' information in real time for a quick response. Cost saving, online data available everywhere and reduced loading of personnel are the key benefits of this solution. Physicians, clinicians, nurses and ambulance workers who take care patients can focus on helping them, instead working with papers and reports.

• Reliable and Accurate Image Reproduction

In hospital environments, performance, reliable, and accurate image reproduction are imperative. From Healthcare images to patient data, the hospital environment is complex ecosystem that requires advance technology to keep it running smoothly. The Display with a UHD 4K (3840 x 2160) resolution and a 3D LUT for color accuracy; helps minimize errors and improve hospital operational efficiencies.

• Complex Environment

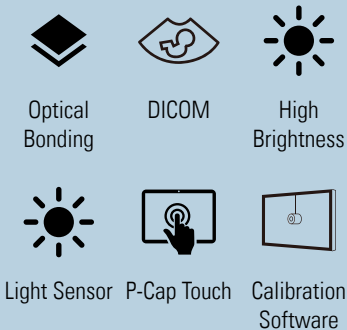
The need is to reduce cable cluttering and maintenance downtime.



27" / 32" Healthcare Display

12G-SDI Series

Custom configuration



4K
Ultra HD

12G-SDI

NEW



Application



Surgical Display

"4K SIGNAL TRANSMISSION TO A DISTANCE FOR UP TO 150 METERS."

The M270TF-SDI is a 27" surgical display with 12G-SDI interface to ensure the precise imagery remains unchanged from the video source to the 4K display and therefore allows healthcare providers to have the most accurate imaging.

"NEXT LEVEL OF MEDICAL IMAGING."

- 27" / 32" screen, 3840 x 2160 resolution

IEC 60601, EN60950-1

12G-SDI in/out, HDMI 2.0, HDMI 1.4, DP 1.2

3D LUT color scheme

Backlight sensor, ambient light sensor

Antimicrobial surface coating

VESA mount

Front IP65 waterproof and dustproof

Operating temperature 0~35°C

Accessories

AC Adapter

HDMI Cable

VGA Cable

USB Cable for Touch

Healthcare Display

12G-SDI Series

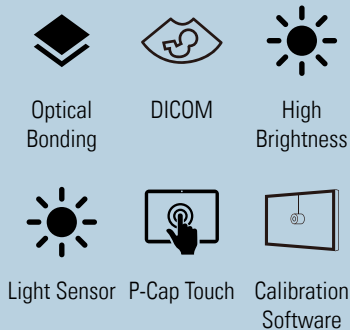


Model Name	27" (16:9)	32" (16:9)
	M270TF-SDI	M320TF-SDI
Display		
Native Resolution	3840 x 2160 (UHD 4K)	3840 x 2160 (UHD 4K)
Light Intensity	300 nits 700 nits (Optional)	350 nits 700 nits (Optional)
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)
Active Area	596.16 x 335.34	708.48 x 398.52
View Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Response Time	12ms (Gray to Gray)	12ms (Gray to Gray)
Max Colors	1.07B	1.07B
Screen Technology	LED Backlight Technology, TFT Active-matrix, Widescreen, IPS Technology	LED Backlight Technology, TFT Active-matrix, Widescreen, IPS Technology
Color Profiles	Support 3D LUT profile 6 x general user color schemes DICOM GSDF (Optional)	Support 3D LUT profile 6 x general user color schemes DICOM GSDF (Optional)
Optimal Resolution and Hz	3840 x 2160 @ 60 Hz	3840 x 2160 @ 60 Hz
User Controls		
Sensors	Ambient light sensor IR Control Internal Backlight sensor (Optional for 700 cd/m ²)	Ambient light sensor IR Control Internal Backlight sensor (Optional for 700 cd/m ²)
Control	Capacitive OSD : Power On/Off, On Screen Display Menu, Panel Brightness Control (-/+)	Capacitive OSD : Power On/Off, On Screen Display Menu, Panel Brightness Control (-/+)
Input Signal	• 12G-SDI • HDMI 1.4 • HDMI 2.0 • DP 1.2 • USB for Touch (Optional) • RS232 for Remote Control (Optional)	• 12G-SDI • HDMI 1.4 • HDMI 2.0 • DP 1.2 • USB for Touch (Optional) • RS232 for Remote Control (Optional)
Output Signal	• 12G SDI (Loop Through)	• 12G SDI (Loop Through)
Mechanical		
Product Dimensions	643.17 x 408.06 x 48 mm	777.58 x 477.62 x 48 mm
Mounting	VESA Mount (100 x 100, 200 x 100 mm)	VESA Mount (100 x 100, 200 x 100, 300 x 100 mm)
Product Weight	9.5 kg	11 Kg
Factory Options	Projected Capacitive PCAP Multi-Touch (USB)	Projected Capacitive PCAP Multi-Touch (USB)
Environment		
Operating Temp.	0°C to 35°C, humidity up to 95%	0°C to 35°C, humidity up to 95%
Storage Temp.	-20°C to 60°C, humidity up to 95%	-20°C to 60°C, humidity up to 95%
IP Rating	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22
Power		
Power Input	12V DC	12V DC
AC Adapter	110~240V AC to DC Adapter	110~240V AC to DC Adapter
Certifications		
Type Approval, Testing and Certificates	CE, FCC	CE, FCC

27"/32" Healthcare Display

4K UHD Series

Custom configuration



4K
Ultra HD



Application



Fluoroscopy Display

"PICTURE-INPICTURE
FUNCTION
FOR DIAGNOSTIC
INTERPRETATION."

Real-time imaging during a fluoroscopy procedure enables surgeons to confirm diagnosis in many areas of the body including bones, joints, muscles, as well as digestive, and reproductive systems.

**"ACCURATE DEPICTION OF
CRITICAL DETAILS."**

- 27"/ 32" screen, 3840 x 2160 resolution
- Certified ISO 13485:2016

IEC 60601, EN60950-1

ANSI/AAMI ES60601, IEC 62366

3G-SDI in/out, HDMI 2.0, HDMI 1.4, VGA, DP 1.2, DVI

3D LUT color scheme

Backlight sensor, ambient light sensor

Antimicrobial surface coating

VESA mount

Front IP65 waterproof and dustproof

Operating temperature 0~35°C

Accessories

AC Adapter

HDMI Cable

VGA Cable

USB Cable for Touch

Healthcare Display

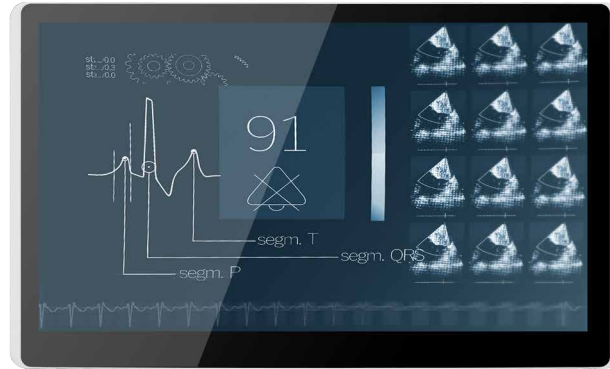
4K UHD Series



Model Name	27" (16:9)	32" (16:9)
	M270TF	M320TF
Display		
Native Resolution	3840 x 2160 (UHD 4K)	3840 x 2160 (UHD 4K)
Light Intensity	300 nits, optional high panel brightness up to 700 nits	350 nits, optional high panel brightness up to 700 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)
Active Area	596.16 x 335.34	708.48 x 398.52
View Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Response Time	12ms (Gray to Gray)	12ms (Gray to Gray)
Max Colors	1.07B	1.07B
Screen Technology	LED Backlight Technology, TFT Active-matrix, Widescreen, IPS Technology	LED Backlight Technology, TFT Active-matrix, Widescreen, IPS Technology
Synchronization Signal Auto-detect	Digital Separate Sync., Composite Sync., Sync. On Green	Digital Separate Sync., Composite Sync., Sync. On Green
Color Profiles	3D LUT profile selection + 6 general user color schemes	3D LUT profile selection + 6 general user color schemes
Optimal Resolution and Hz	3840 x 2160 @ 60 Hz	3840 x 2160 @ 60 Hz
User Controls		
Sensors	Backlight sensor, Ambient light sensor, IR Control	Backlight sensor, Ambient light sensor, IR Control
Control	Capacitive OSD : Power On/Off, On Screen Display Menu, Panel Brightness Control (-/+)	Capacitive OSD : Power On/Off, On Screen Display Menu, Panel Brightness Control (-/+)
Input Signal	• 3G SDI • HDMI 1.4 • HDMI 2.0 • Audio In • DP1.2 • VGA	• 3G SDI • HDMI 1.4 • HDMI 2.0 • Audio In • DP1.2 • VGA
Output Signal	• 3G SDI • DP1.2	• 3G SDI • DP1.2
Mechanical		
Product Dimensions	643.17 x 408.06 x 48 mm	777.58 x 477.62 x 48 mm
Mounting	VESA Mount (100 x 100, 200 x 100 mm)	VESA Mount (100 x 100, 200 x 100, 300 x 100 mm)
Product Weight	9.5 kg	13 Kg
Factory Options	• Rubber Bumper • Projected Capacitive PCAP Multi-Touch (USB)	• Rubber Bumper • Projected Capacitive PCAP Multi-Touch (USB)
Environment		
Operating Temp.	0°C to 35°C, humidity up to 95%	0°C to 35°C, humidity up to 95%
Storage Temp.	-20°C to 60°C, humidity up to 95%	-20°C to 60°C, humidity up to 95%
IP Rating	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22
Power		
Power Input	24V DC 150W	24V DC 150W
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications		
Type Approval, Testing and Certificates	• IEC 60601-1:2005 + A1:2015 (Ed. 3.1) • IEC 60601-1-6:2010 + A1:2013 (Ed. 3.1) • IEC 62366:2007 + A1:2014 (Ed. 1.1) • ANSI/AAMI ES60601-1:2005/A1:2012 and C1:2009/(R)2012 and A2:2010/(R)2012 • CAN/CSA-C22.2 No.60601-1:14 • EN606001-1-2 • EN55032/EN55024, FCC part 15B • EN60950-1	• IEC 60601-1:2005 + A1:2015 (Ed. 3.1) • IEC 60601-1-6:2010 + A1:2013 (Ed. 3.1) • IEC 62366:2007 + A1:2014 (Ed. 1.1) • ANSI/AAMI ES60601-1:2005/A1:2012 and C1:2009/(R)2012 and A2:2010/(R)2012 • CAN/CSA-C22.2 No.60601-1:14 • EN606001-1-2 • EN55032/EN55024, FCC part 15B • EN60950-1

15.6" Healthcare Display

Multi-Touch Series



Application



Diagnosis and Clinical Review

"SHARP & BRIGHT IMAGES."

Winmate 15.6" medical display allow monitoring patient information and support various mounting options.

“FOR MEDICAL IMAGING AND CLINICAL DATA VIZUALISATION.”

- 15.6", 1920 x 1080 screen
- Projected capacitive touch
- Certified ISO 13485:2016

IEC 60601-1:2005, IEC 60601-1-6:2010, EN60601-1-2 Ed.4.0

Touch interface USB

VGA, HDMI input

VESA mount

IP65 waterproof and dustproof

Operating temperature 0~50°C

Accessories

AC Adapter

HDMI Cable

VGA Cable

USB Cable for Touch

Healthcare Display

Multi-Touch Series



Model Name	15.6" (16:9)
	W15L100-PTA3-ME
Display	
Resolution	1920 x 1080
Panel Brightness	300 nits
Contrast Ratio	700 : 1 (Typ.)
Viewing Angle	-85~85 (H); -85~85 (V)
Max Colors	16.2M
Touch	Projected Capacitive PCAP Multi-Touch
Connectors	
VGA	1 x VGA
HDMI	1 x HDMI
USB	1 x USB for touch
Audio	
Audio Input	Line-in
OSD Membrane	Buttons at rear side
Speaker	2 x 1 Watt speaker
Mechanical	
Dimensions	387.8 x 232.9 x 384 mm
Mounting	VESA Mount (75 x 75, 100 x 200 mm)
Housing	Back cover color White, Plastic housing
Environment	
Operating Temp.	0°C to 50°C
LCD Panel Lifetime	50,000 hours
Power	
Power Input	12V DC 2.5 mm
Power Consumption	10W (Typ.)
AC Adapter	External AC to DC Adapter. Complies with Level V1 efficiency standard
Certifications	
Safety	• RoHS-2, REACH, WEEE compliant • EN55032/EN55024, FCC part 15B
Medical	• IEC 60601-1:2005 + A1:2015 (Ed. 3.1) • IEC 60601-1-6:2010 + A1:2013 (Ed. 3.1) • IEC 62366:2007 + A1:2014 (Ed. 1.1) • ANSI/AAMI ES60601-1:2005/ A1:2012 and C1:2009/(R)2012 and A2:2010/(R)2012 • CAN/CSA-C22.2 No.60601-1:14 • EN60601-1-2 (Ed. 4.0) • EN60950-1

Overview

Winmate understands the needs of the marine industry and provides solutions to the unique challenges that the industry faces.

- Ruggedness: Winmate reliability tests ensure optimal performance in harsh environments, including exposure to humidity, shock and vibration.
- Panel Options: Transflective screen or a high brightness display.
- Viewability: Numerous combinations of display and touch technologies as well as backlight intensities help enable sunlight viewability.
- Design and Electronics: Powder coated aluminum housings feature anti-corrosion protection.

Technology

Certificate

Winmate marine products are built and tested according to the DNV 2.4 Standard, IEC60945 and IACS-E10.

	DNV GL is an independent foundation with the objectives of safeguarding life, property and the environment at sea and on shore. DNV certification pertains to the quality of ships, offshore units and installations of the system and components. DNV requirements are harmonized with IACS Unified Requirements E10 and IEC publication 60945.
	International Association of Classification Societies (IACS) is an organization that provides technical support and guidance for promoting the safety of life, property and the environment through the verification of compliance with technical and engineering standards for the design, construction and life-cycle maintenance of ships, offshore units and other marine-related facilities.
	Equipment wished to be use in navigation and radio communication systems is to comply with IEC 60945, "Maritime navigation and radio communication equipment and systems – General Requirements- Method of testing and required test results."

ECDIS Color Calibration

Winmate Marine Displays and Panel PCs can be adjusted to day, dusk or night mode to accommodate any lighting situation. Color settings are calibrated at the factory for the accurate color reproduction according to the IEC 61174 ECDIS Standard.



Reliable computing for
safe maritime operations

Industrial Challenges

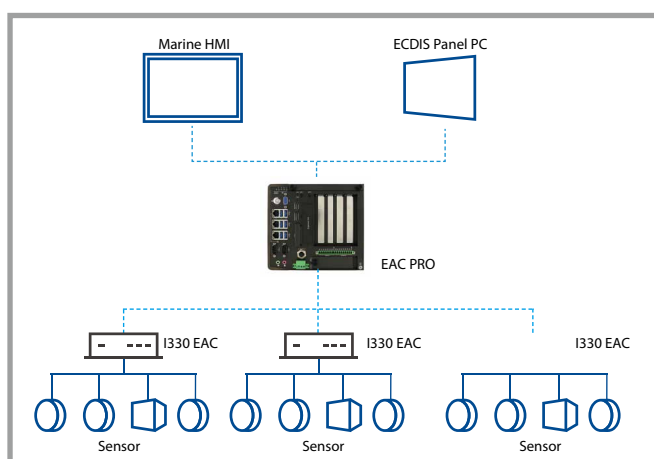
To meet the regulatory requirements of the marine industry, Winmate offers certified solutions for shipping navigation, monitoring and surveillance, and ship automation systems. Winmate understands the needs of the marine industry and provides solutions to industrial challenges:

- **Extreme environments**
Marine equipment faces extreme environments such as temperature changes, strong vibration, water drops.
- **Accurate chart depiction**
Accurate chart displaying is crucial in maritime applications.
- **Day, night and dusk**
On-board computers must provide viewability in day, night and dusk conditions.

Innovative Solutions

All Winmate marine products are built and tested according to DNV 2.4 Standard, IEC60945 and IACS-E10.

- Winmate reliability test ensure optimal performance in harsh maritime environments.
- Powder coated aluminum housing feature anti-corrosion protection, handle significant vibration and shock as well as operation in high humidity.
- Enhanced panel viewability and backlight intensity.
- Transflective screen or a high brightness display.
- Dimmable backlight.
- ECDIS color calibration to accurately display navigational charts.



Marine Embedded Computing

I330EAC-IKW

Custom configuration



Memory



2nd Storage



NMEA 0183



DI/DO



Application



Bridge System

"EFFECTIVE
MARINE DEVICES
COMMUNICATION."

High-performance embedded system that feature an NMEA 0183 interface and digital input/ output for effective marine device communication.

“**ABUNDANT INTERFACES
AND RUGGED
CONSTRUCTION.**

”

- Intel® Core™ i5-7200U
- Windows 10
- IEC 60945 Test Report

64GB mSATA SSD

Four USB 3.0

HDMI, VGA, DVI output

RS232/422/485

Two LAN ports

Aluminum housing

Power input 9~36V DC with 1.5KV isolation

Vibration, shock resistant DNV 2.4 (Class A)

Wide operating temperature -15~55°C

Accessories

Standard

AC Adapter

Power Cord

Marine Embedded Computing

Intel® Core™ i5-7200U



Model Name	I330EAC-IKW
System	
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS
Memory	1 x SODIMM DDR4L-2133 4GB (Max up to 16GB)
Storage	1 x mSATA SSD 64GB (Default) 2 x 2.5" Removable SSD/HDD
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible
Connectors	
Power	1 x 3pin Power Input w/Phoenix type Terminal Block
Ethernet	2 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232)
USB	4 x USB 3.0
GPIO	8 x Isolated DI/DO, 4 In/4out (Optional)
NMEA 0183 Port	8 x NMEA 0183 (Optional)
Display Output	1 x HDMI Output, 1 x VGA, 1 x DVI
Audio	Line-in, Line-out
User Interfaces	
Control Buttons	1 x Power Button, 1 x Reset Button
Mechanical	
Dimensions	316.44 x 206.8 x 62.1 mm
Mounting	VESA Mount (100 x 100 mm), Wall, Desktop
Color	Black
Housing	Aluminum
Environment	
Operating Temp.	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)
Vibration	0.7g@DNVGL CG-0339 (Class A)
Shock	15G, 11ms duration
Power	
Power Input	24V DC with 1.5KV DC Isolation Resistance (9~36V DC Acceptable)
Power Consumption	40W (Typ.)
Certifications	
Safety	CE, FCC
Marine	IEC 60945 4th Edition (Test Report Available)

Marine Embedded Computing

I330EAC-IK3

Custom configuration



Memory



Storage

Application



Integrated Automation System

"REAL-TIME SYSTEM MONITORING."

Marine box computer is connected to integrated alarm systems, engine control systems, propulsion control systems of the vessel. The data collected is displayed on a marine display. Reliable I/O connection and processing power facilitate real-time system monitoring and collaboration of control rooms.



“**PROCESSING POWER AND
RELIABLE I/O CONNECTIONS.**”

- Intel® Core™ i5-7200U
- Intel Atom® D2550
- Windows 10
- VESA, wall mount, desktop

4GB DDR4-2133 SO-DIMM

64GB M.2 B Key SATA III SSD

HDMI, VGA

RS232/422/485

Three isolated RS-422/485 with auto-detect

Two LAN ports

8 Channel GPIO

Power input 24V DC with 1.5KV DC isolation

Aluminum housing

Vibration, shock resistant

Wide operating temperature -15~55°C

Accessories

Standard

AC Adapter

Marine Embedded Computing

Intel® Core™ i5-7200U

Intel Atom® D2550



Model Name	I330EAC-1K3	I330EAC-1D3
System		
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel Atom® D2550 (1M Cache, 1.86 GHz)
BIOS	Insyde BIOS	AMI BIOS
Chipset	Intel® SoC Integrated	Intel® NM10
Memory	4GB DDR4-2133 SO-DIMM (Max 16GB)	1 x SODIMM, Max 4GB DDR3L 1600 (2GB Default)
Storage	1 x 64GB M.2 B Key SATA III (Options up to 512GB)	1 x mSATA SSD 64G (Default) 1 x 2.5" SATA HDD (Optional)
Ethernet Controller	Intel® I211 Gigabit-LAN controller + I219LM Gigabit-LAN PHY	-
Connectors		
Power	1 x 3pin Power Input with Phoenix type Terminal Block	1 x 3pin Power Input w/Phoenix type Terminal Block
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	3 x RS422/485 (Isolated)	3 x RS422/485 (Isolated)
USB	2 x USB 3.0	2 x USB
GPIO	8 Channel GPIO by Phoenix type Terminal Block 5V/12mA	1 x GPIO 4 in/out by Phoenix type Terminal Block
Display Output	1 x VGA	1 x VGA
Audio	Mic-in, Line-out, Line-in	Micro-in, Line-out, Line-in
User Interfaces		
Control Buttons	1 x Power Button, 1 x Reset Button	1 x Power Button, 1 x Reset Button
Mechanical		
Dimensions	296 x 169 x 66 mm	296 x 169 x 66 mm
Mounting	VESA / Wall-mount / Desktop	VESA / Wall-mount / Desktop
Color	Silver	Silver
Housing	Aluminum	Aluminum
Environment		
Operating Temp.	-15°C to 55°C	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz/1Grms/3 Axis
Shock	15G, 11ms duration	15G, 11ms duration
Power		
Power Input	24V DC with 1.5KV DC Isolation Resistance (9~36V DC Acceptable)	24V DC with 1.5KV DC Isolation Resistance (9~36V DC Acceptable)
Power Consumption	60W (Typ.)	40W (Typ.)
Certifications		
Safety	CE, FCC	CE, FCC
Marine	-	IEC60945, DNV GL-CG-0339, IACS-E10

15" ~ 26" Marine Panel PC ECDIS Series

Custom configuration



Color
Calibration



AR
Glass



NMEA 0183



DI/DO



Application



Bridge System

"ECDIS COMPLIANCE TO
REPRODUCE ACCURATE
CHART DISPLAY"

Marine panel PC featuring a
flat edge-to-edge surface and
PCAP touchscreen. Large
screen and responsive touch
allow for intuitive user controls
of the bridge system.

“

**PROCESSING POWER AND
USER-FRIENDLY INTERFACE.**

”

- 15"/19"/24"/26" with PCAP touchscreen
- Intel® Core™ i5-5250U
- Windows 10/7
- IEC 60945, DNVGL-CG-0339, IACS E10

RS232/422/485, RS232, two USB 3.0

Capacitive touch keys for display control

Day, dusk, and night mode

0%~100% backlight brightness dimming control

Panel mount, VESA mount

Vibration resistant DNV 2.4 (Class A)

Wide power input 9~36V DC with isolation

Front IP66 waterproof and dustproof

Wide operating temperature -15~55°C

Accessories

Standard

AC Adapter

Power Cord

3pin Terminal Block

Black Screw Bolts

Optional

Four 5pin Terminal Block 3.81(Phoenix Type)

Marine Panel PC

Intel® Core™ i5-5250U



Model Name	15"	19"	24" (16:9)	26" (16:10)
	R15IH3S-MRA3FP	R19IH3S-MRA1FP	W24IH3S-MRA1FP	W26IH3S-MRA1FP
Display				
Resolution	1024 x 768	1280 x 1024	1920 x 1080	1920 x 1200
Panel Brightness	400 nits	350 nits	300 nits	350 nits
Contrast Ratio	2500:1 (Typ.)	1000:1 (Typ.)	5000:1 (Typ.)	1500:1 (Typ.)
Active Area	306.0 x 230.0	376.32 x 301.06	531.36 x 298.89	550.1 x 343.8
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-88~88 (H); -88~88 (V)
Display Color	16.2M	16.7M	16.7M	16.7M
Touch	PCAP touchscreen (Optional AR Protection Glass)	PCAP touchscreen (Optional AR Protection Glass)	PCAP touchscreen (Optional AR Protection Glass)	PCAP touchscreen (Optional AR Protection Glass)
System				
Processor	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)
Chipset	Intel® 8 series QM87	Intel® 8 series QM87	Intel® 8 series QM87	Intel® 8 series QM87
Memory	4GB DDR3L SODIMM (Max. 16GB)	4GB DDR3L SODIMM (Max. 16GB)	4GB DDR3L SODIMM (Max. 16GB)	4GB DDR3L SODIMM (Max. 16GB)
Security	Trusted Platform Module (TPM 1.2)	Trusted Platform Module (TPM 1.2)	Trusted Platform Module (TPM 1.2)	Trusted Platform Module (TPM 1.2)
Ethernet Controller	Dual Ethernet Gb LAN	Dual Ethernet Gb LAN	Dual Ethernet Gb LAN	Dual Ethernet Gb LAN
Storage	64GB mSATA SSD (Max. 256GB)	64GB mSATA SSD (Max. 256GB)	64GB mSATA SSD (Max. 256GB)	64GB mSATA SSD (Max. 256GB)
Speaker	2 x 2W Speaker	2 x 2W Speaker	2 x 2W Speaker	2 x 2W Speaker
Buzzer	75 dB~80 dB, 2300 Hz, 1m	75 dB~80 dB, 2300 Hz, 1m	75 dB~80 dB, 2300 Hz, 1m	75 dB~80 dB, 2300 Hz, 1m
OS	Windows 10 IoT Enterprise / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors				
Power	1 x 3pin terminal block (Phoenix type)	1 x 3pin terminal block (Phoenix type)	1 x 3pin terminal block (Phoenix type)	1 x 3pin terminal block (Phoenix type)
LAN	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	2 x USB3.0	2 x USB3.0, 1 x USB2.0	2 x USB3.0, 1 x USB2.0	2 x USB3.0, 1 x USB2.0
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Digital I/O	8 Channel Isolated DI/DO (Optional)	8 Channel Isolated DI/DO (Optional)	8 Channel Isolated DI/DO (Optional)	8 Channel Isolated DI/DO (Optional)
NMEA	4 x NMEA 0183 port (Optional)	4 x NMEA 0183 port (Optional)	4 x NMEA 0183 port (Optional)	4 x NMEA 0183 port (Optional)
Mechanical				
Dimensions	363 x 312 x 66.5 mm	429 x 382 x 72.8 mm	595 x 385 x 63.8 mm	621 x 432.4 x 85.5 mm
Mounting	Panel Mount, VESA (100 x 100 mm)	Panel Mount, VESA (100 x 100 mm)	Panel Mount, VESA (100 x 100, 150 x 150 mm)	Panel Mount, VESA (100 x 100, 100 x 200 mm)
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Power				
Power Input	24V DC with Isolation (9~36V acceptable)	24V DC with Isolation (9~36V acceptable)	24V DC with Isolation (9~36V acceptable)	24V DC with Isolation (9~36V acceptable)
Power Consumption	80W (Max.)	80W (Max.)	80W (Max.)	80W (Max)
Environment				
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	0.7g@DNV2.4 (Class A)	0.7g@DNV2.4 (Class A)	0.7g@DNV2.4 (Class A)	0.7g@DNV2.4 (Class A)
Shock	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration
IP Rating	Front IP66	Front IP66	Front IP66	Front IP66
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Marine	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th, DNV GL-CG-0339, IACS E10

10.4"~24" Marine Panel PC VR Knob Series

Custom configuration



Memory



AR
Glass



PCAP
Touchscreen



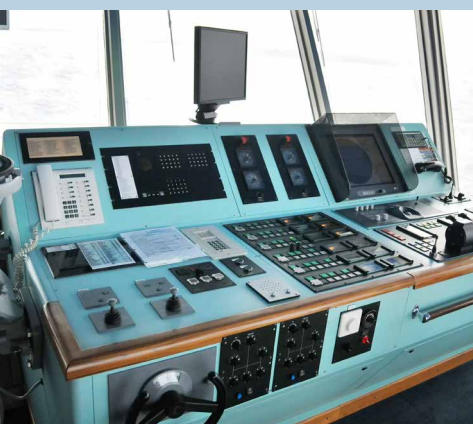
Mounting
Bracket



RS-422/
485



Application



Boat Command Center

"GREAT VIZUALIZATION.
OF THE DASHBOARD."

The marine panel PC installed in a boat command center allows you to view all of your boat's vital signs directly from your computer. Customized dimming setting increase the visibility in dusk or night time.

"CORROSION RESISTANT."

- 10.4"~24" screen with resistive touchscreen
- Intel Atom® N2600
- Windows 7
- IEC 60945, DNV 2.4, IACS-E10 certified

4GB SODIMM DDR3

VGA

Two USB 2.0

Two RS232, RS232/422/485

RAM mount, VESA mount

Vibration, shock resistant DNV 2.4 (Class A)

Power input 9~36V DC with ignition

Front IP66 waterproof and dustproof

Wide operating temperature -15~55°C

Accessories

Standard

Screw bolts

Optional

Power Cord

Marine Panel PC

Intel Atom® N2600



Model Name	10.4"	12.1"	15"
	R10ID3S-MRM2	R12ID3S-MRM2	R15ID3S-MRM2
Display			
Resolution	800 x 600	1024 x 768	1024 x 768
Panel Brightness	400 nits	500 nits	400 nits
Contrast Ratio	500:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)
Active Area	211.2 x 158.4	245.76 x 184.32	304.128 x 228.096
Viewing Angle	-80~80 (H); -60~80 (V)	-89~89 (H); -89~89 (V)	-80~80 (H); -60~80 (V)
Display Color	16.2M	16.2M	16.2M
Touch	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass
System			
Processor	Intel Atom® N2600 (1M Cache, 1.6 GHz)	Intel Atom® N2600 (1M Cache, 1.6 GHz)	Intel Atom® N2600 (1M Cache, 1.6 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Chipset	Intel® NM10 express chipset	Intel® NM10 express chipset	Intel® NM10 express chipset
Memory	1 x SODIMM DDR3L, max.4GB (Default 2GB)	1 x SODIMM DDR3L, max.4GB (Default 2GB)	1 x SODIMM DDR3L, max.4GB (Default 2GB)
Ethernet	Dual Broadcom BCM57780 GbE controller	Dual Broadcom BCM57780 GbE controller	Dual Broadcom BCM57780 GbE controller
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	32GB SSD	32GB SSD	32GB SSD
Connectors			
Power Input	1 x DC Terminal block	1 x DC Terminal block	1 x DC Terminal block
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB	2 x USB Type-A Receptacle	2 x USB Type-A Receptacle	2 x USB Type-A Receptacle
VGA	1 x VGA 15P DSUB (Female)	1 x VGA 15P DSUB (Female)	1 x VGA 15P DSUB (Female)
Power			
Power Input	9~36V DC power supply with terminal block	9~36V DC power supply with terminal block	9~36V DC power supply with terminal block
Power Consumption	30W (Typ.)	30W (Typ.)	40W (Typ.)
Mechanical			
Cooling System	Fanless design	Fanless design	Fanless design
Mounting	Panel Mount, VESA Mount (75 x 75 mm)	Panel Mount, VESA Mount (75 x 75 mm)	Panel Mount, VESA Mount (75 x 75 mm)
Environment			
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz/1Grms/3 Axis
Shock	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration
IP Rating	Front IP66	Front IP66	Front IP66
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC
Marine	IEC60945, DNV GL-CG-0339, IACS-E10	IEC60945, DNV GL-CG-0339, IACS-E10	IEC60945, DNV GL-CG-0339, IACS-E10

Marine Panel PC

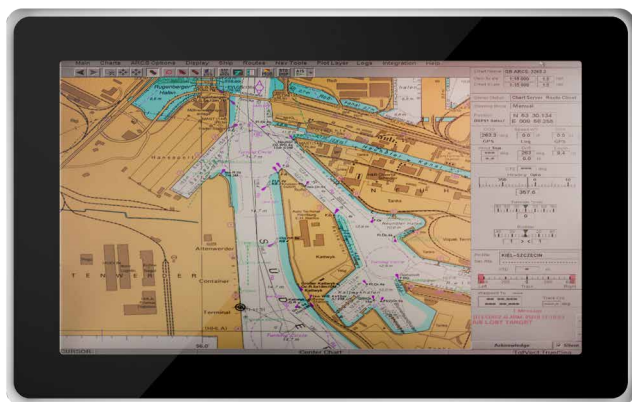
Intel Atom® N2600



Model Name	17"	19"	24" (16:9)
	R17ID3S-MRM1	R19L300-MRA2ID3S	W24L100-MRA1ID3S
Display			
Resolution	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	350 nits	300 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	5000:1 (Typ.)
Active Area	304.128 x 228.096	376.32 x 301.06	531.36 x 298.89
Viewing Angle	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (H)
Pixel Pitch	0.297 (H) x 0.297 (V)	0.294 (H) x 0.294 (V)	0.276 (H) x 0.276 (V)
Display Color	16.2M	16.7M	16.7M
Touch	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass
System			
Processor	Intel Atom® N2600 (1M Cache, 1.6 GHz)	Intel Atom® N2600 (1M Cache, 1.6 GHz)	Intel Atom® N2600 (1M Cache, 1.6 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Chipset	Intel® NM10 express chipset	Intel® NM10 express chipset	Intel® NM10 express chipset
Memory	1 x SODIMM DDR3L max.4GB (Default 2 GB)	1 x SODIMM DDR3L max.4GB (Default 2 GB)	1 x SODIMM DDR3L max.4GB (Default 2 GB)
Ethernet	Dual Broadcom BCM57780 GbE controller	Dual Broadcom BCM57780 GbE controller	Dual Broadcom BCM57780 GbE controller
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	32GB SSD	32GB SSD	32GB SSD
Expansion slot	4 x RS232 or 4 x Isolate RS422/485 (Optional)	4 x RS232 or 4 x Isolate RS422/485 (Optional)	4 x RS232 or 4 x Isolate RS422/485 (Optional)
Connectors			
Power Input	1 x DC Terminal block	1 x DC Terminal block	1 x DC Terminal block
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM	2 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	2 x USB Type-A Receptacle	2 x USB Type-A Receptacle	2 x USB Type-A Receptacle
VGA	1 x VGA 15P DSUB (Female)	1 x VGA 15P DSUB (Female)	1 x VGA 15P DSUB (Female)
Mechanical			
Cooling System	Fanless design	Fanless design	Fanless design
Mounting	Panel Mount, VESA Mount (75 x 75 mm)	Panel Mount, VESA Mount (100 x 100 mm)	Panel Mount, VESA Mount (100 x 100, 150 x 280 mm)
Environment			
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz/1Grms/3 Axis
Shock	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration
IP Rating	Front IP66	Front IP66	Front IP66
Power			
Power Input	9~36V DC	9~36V DC	9~36V DC
Power Consumption	40W (Typ.)	100W (Typ.)	100W (Typ.)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC
Marine	IEC60945, DNV GL-CG-0339, IACS E10	IEC60945, DNV GL-CG-0339, IACS E10	IEC60945, DNV GL-CG-0339, IACS E10

10.1" Marine Panel PC

Marine HMI



“ FITS IN CONFINED SPACES. ”

- 10.1", 1280 x 800 with PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7
- IEC 60945 Test Report

4GB DDR3L

64GB mSATA SSD

Two RS-422, USB 2.0

Gigabit LAN

Panel mount, VESA mount

Vibration resistant DNV 2.4 (Class A)

Wide power input 9~36V DC with isolation

Front IP65 waterproof and dustproof

Wide operating temperature -15~55°C

Accessories

Standard

AC Adapter

M12 Power Cable

3pin Terminal Block

M12 USB/LAN Cable

M12 RS-422 Cable

I/O Protective Caps

Optional

External Wi-Fi Antenna

External WWAN Antenna

Custom configuration



GPS



Wi-Fi



3G

Application



Yacht Navigation System

"COMPACT WATERPROOF DESIGN AND WIRELESS CONNECTIVITY."

10.1" rugged marine HMI was installed in a space-restricted yacht as a part of navigation system. The customer installed GPS and Wi-Fi for wireless connectivity.

Marine Panel PC

Intel® Celeron® N2930



Model Name	10.1" (16:10)
	W10IB3S-MRH2
Display	
Resolution	1280 x 800
Brightness	300 nits
Contrast Ratio	800:1 (Typ.)
Active Area	216.96 x 135.6
Viewing Angle	-89~89 (H); -89~89 (V)
Display Color	262K
Touch	PCAP touchscreen
System	
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	4GB DDR3L SODIMM
Security	Trusted Platform Module (TPM 1.2)
Ethernet Controller	1 x Gigabit LAN (M12 type)
Storage	64GB mSATA SSD
Speaker	1 x 1 Watt Speaker
OS	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7 Windows 7 Pro for Embedded System
Connectors	
Power	1 x DC in (M12 type)
LAN	1 x Gigabit LAN (M12 type)
Serial Interface	2 x RS-422 (M12 type), 1 x RS-422 when with WWAN (M12 type)
USB	1 x USB 2.0 (M12 type)
Mechanical	
Dimensions	263.28 x 173.6 x 40.2 mm
Mounting	Panel Mount, VESA Mount (75 x 75 mm)
Cooling System	Fanless design
Power	
Power Input	9~36V DC
Power Consumption	25W (Typ.)
Environment	
Operating Temp.	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)
Vibration	0.7g@DNV2.4 (Class A)
Shock	15G, 11ms duration
IP Rating	Front: IP65 water and dust proof, Full: IP44
Certifications	
Safety	CE, FCC
Marine	Comply with IEC60945 (Test report)

15"~26" Marine Display ECDIS Series



**“ PROCESSING POWER AND
USER-FRIENDLY INTERFACE. ”**

- 15"/19"/24"/26" screen with PCAP touchscreen
- IEC 60945, DNVGL-CG-0339, IACS E10

RS232/422/485

Capacitive touch keys for display control

Day, dusk, and night mode

0%~100% backlight brightness dimming control

Panel mount, VESA mount

Vibration resistant DNV 2.4 (Class A)

Wide power input 9~36V DC with isolation

Front IP66 waterproof and dustproof

Wide operating temperature -15~55°C

Accessories

Standard

AC Adapter

Power Cord

3pin Terminal Block

Black Screw Bolts

Optional

Four 5pin Terminal Block 3.81(Phoenix Type)

Custom configuration



Color
Calibration



AR
Glass



NMEA 0183



DI/DO

Application



Bridge System

**"ECDIS COMPLIANCE TO
REPRODUCE ACCURATE
CHART DISPLAY"**

Marine panel PC featuring a flat edge-to-edge surface and PCAP touchscreen. Large screen and responsive touch allow for intuitive user controls of the bridge system.

Marine Display

ECDIS Series



Model Name	15"	19"	24" (16:9)	26" (16:10)
	R15L600-MRA3FP	R19L300-MRA1FP	W24L100-MRA1FP	W26L100-MRA1FP
Display				
Resolution	1024 x 768	1280 x 1024	1920 x 1080	1920 x 1200
Panel Brightness	400 nits	350 nits	300 nits	350 nits
Contrast Ratio	2500:1 (Typ.)	1000:1 (Typ.)	5000:1 (Typ.)	1500:1 (Typ.)
Active Area	306 x 230	376.3 2 x 301.06	531.36 x 298.89	550.1 x 343.8
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-88~88 (H); -88~88 (V)
Pixel Pitch	0.2947 (H) x 0.2947 (V)	0.294 (H) x 0.294 (V)	0.276 (H) x 0.276 (V)	0.2865 (H) x 0.2865 (V)
Display Color	16.2M	16.7M	16.7M	16.7M
Input Signals				
DVI-D Signal	DVI-D 24pin (Female)	DVI-D 24pin (Female)	DVI-D 24pin (Female)	DVI-D 24pin (Female)
DC Power Signal	3pin Terminal block (Phoenix type)	3pin Terminal block (Phoenix type)	3pin Terminal block (Phoenix type)	3pin Terminal block (Phoenix type)
Touch Screen	PCAP touchscreen (Optional AR Protection Glass)	PCAP touchscreen (Optional AR Protection Glass)	PCAP touchscreen (Optional AR Protection Glass)	PCAP touchscreen (Optional AR Protection Glass)
Remote control via RS232	D-SUB 9pin connector (Female)	D-SUB 9pin connector (Female)	D-SUB 9pin connector (Female)	D-SUB 9pin connector (Female)
VGA	D-SUB 15pin (Female)	D-SUB 15pin (Female)	D-SUB 15pin (Female)	D-SUB 15pin (Female)
HDMI	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
User Controls				
Display Control	OSD control via programmable capacitive touch keys (ECDIS, Home, Brightness(+,-), Power)	OSD control via programmable capacitive touch keys (ECDIS, Home, Brightness(+,-), Power)	OSD control via programmable capacitive touch keys (ECDIS, Home, Brightness(+,-), Power)	OSD control via programmable capacitive touch keys (ECDIS, Home, Brightness(+,-), Power)
OSD Remote Control	Remote Control via RS232 Serial Interface	Remote Control via RS232 Serial Interface	Remote Control via RS232 Serial Interface	Remote Control via RS232 Serial Interface
Power				
Power Input	24V DC with Isolation (9~36V acceptable)	24V DC with Isolation (9~36V acceptable)	24V DC with Isolation (9~36V acceptable)	24V DC with Isolation (9~36V acceptable)
Power Consumption	80W (Max)	80W (Max)	80W (Max)	80W (Max)
Mechanical				
Dimension	363 x 312 x 66.5 mm	429 x 382 x 72.8 mm	595 x 385 x 63.8 mm	621 x 432.4 x 85.5 mm
Mounting	Panel Mount, VESA Mount (100 x 100 mm)	Panel Mount, VESA Mount (100 x 100 mm)	Panel Mount, VESA Mount (100 x 100, 100 x 200 mm)	Panel Mount, VESA Mount (100 x 100, 100 x 200 mm)
Environment				
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	0.7g@DNV2.4 (Class A)	0.7g@DNV2.4 (Class A)	0.7g@DNV2.4 (Class A)	0.7g@DNV2.4 (Class A)
Shock	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration
IP Rating	Front IP66	Front IP66	Front IP66	Front IP66
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Marine	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th, DNV GL-CG-0339, IACS E10

10.4"~24" Marine Display Knob Series



“**BRIGHTNESS CONTROL
WITH DIMMING KNOB.**”

- 10.4"~24" screen with resistive touchscreen
- IEC 60945, DNV 2.4, IACS-E10 certified

RGB, composite video

VGA, S-Video, DVI-D

PIP function

RAM mount, VESA mount

Vibration, shock resistant DNV 2.4 (Class A)

Power input 24V DC with isolation

Front IP66 waterproof and dustproof

Wide operating temperature -15~55°C

Accessories

Standard

DVI Cable	VGA Cable	RS232 Cable	S-Video Cable	Composite Cable	Screw Bolts
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Optional

Power Cord

Custom configuration



PCAP
Touchscreen



SAW
Touch



AR
Glass



Mounting
Bracket

Application



Navigation Simulator

“FAST DEPLOYMENT WITH
EXISTING NAVIGATION
SYSTEM.”

Winmate 24" marine monitor with resistive touchscreen was installed in a navigation system of a marine training center. Transmission of RGB and composite video signal was required to integrate with existing systems.

Marine Display

Knob Series



Model Name	10.4"	12.1"	15"	17"
	R10L210-MRM2	R12L600-MRM2	R15L600-MRM2	R17L500-MRM1
Display				
Resolution	800 x 600	1024 x 768	1024 x 768	1280 x 1024
Panel Brightness	400 nits	500 nits	400 nits	350 nits
Contrast Ratio	500:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	1000:1 (Typ.)
Active Area	211.2 x 158.4	245.76 x 184.32	304.128 x 228.096	337.92 x 270.34
Viewing Angle	-80~80 (H); -60~80 (V)	-89~89 (H); -89~89 (V)	-80~80 (H); -60~80 (V)	-85~85 (H); -80~80 (V)
Display Color	16.2M	16.2M	16.2M	16.2M
Touch	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass
Connectors				
RGB Signal	D-SUB 15P (Female)	D-SUB 15P (Female)	D-SUB 15P (Female)	D-SUB 15P (Female)
Composite Video	RCA phono plug	RCA phono plug	RCA phono plug	RCA phono plug
S-Video Signal	S-Video (SVHS) plug	S-Video (SVHS) plug	S-Video (SVHS) plug	S-Video (SVHS) plug
DVI-D Signal	DVI-D input 24pin	DVI-D input 24pin	DVI-D input 24pin	DVI-D input 24pin connector
DC Power Signal	Screw terminal block	Screw terminal block	Screw terminal block	Screw terminal block
AC Power Signal (Optional)	Std. IEC inlet	Std. IEC inlet	Std. IEC inlet	Yes
Touch Screen	D-SUB 9P (Female)	D-SUB 9P (Female)	D-SUB 9P (Female)	D-SUB 9P connector (Female)
Remote control via RS232	D-SUB 9P (Female)	D-SUB 9P (Female)	D-SUB 9P (Female)	D-SUB 9P connector (Female)
User Controls				
Power Control	Power On/Off via Front Button	Power On/Off via Front Button	Power On/Off via Front Button	Power On/Off via Front Button
VR Control	Brightness Knob Control	Brightness Knob Control	Brightness Knob Control	Brightness Knob Control
Display Control	On Screen Display control(OSD)	On Screen Display control(OSD)	On Screen Display control(OSD)	On Screen Display control(OSD)
OSD Remote Control	OSD Remote Control via RS232	OSD Remote Control via RS232	OSD Remote Control via RS232	OSD Remote Control via RS232
LED indicators	Power Mode Status LED	Power Mode Status LED	Power Mode Status LED	Power Mode Status LED
Mechanical				
Mounting	Panel Mount, VESA Mount (75 x 75 mm)	Panel Mount, VESA Mount (75 x 75 mm)	Panel Mount, VESA Mount (75 x 75 mm)	Panel Mount, VESA Mount (100 x 100 mm)
Environment				
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	5Hz~500Hz /1Grms /3 Axis	5Hz~500Hz /1Grms /3 Axis	5Hz~500Hz /1Grms /3 Axis	5Hz~500Hz /1Grms /3 Axis
Shock	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration
IP Rating	Front IP66	Front IP66	Front IP66	Front IP66
Power				
Power Input	24V DC	9~36V DC	24V DC	9~36V DC
Power Consumption	21W (Typ.)	32W (Typ.)	40W (Typ.)	48W (Typ.)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Marine	IEC60945 4th, DNV GL-CG-0339, IACS E1	IEC60945 4th	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th

Marine Display

Knob Series



Model Name	19"	20.1"	23.1"	24" (16:9)
	R19L300-MRA1	R20L100-MRA2	R23L100-MRS1	W24L100-MRA1
Display				
Resolution	1280 x 1024	1600 x 1200	1600 x 1200	1920 x 1080
Panel Brightness	400 nits	300 nits	500 nits	300 nits
Contrast Ratio	1000:1 (Typ.)	800:1 (Typ.)	600:1 (Typ.)	5000:1 (Typ.)
Active Area	376.32 x 301.06	408 x 306	470.4 x 352.8	531.36 x 298.89
Viewing Angle	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
Touch	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass	SAW, 5 Wire Resistive touchscreen or 3mm Anti-reflective protection glass
Connectors				
RGB Signal	D-SUB 15P connector (Female)	D-SUB 15P connector (Female)	D-SUB 15P connector (Female)	D-SUB 15P connector (Female)
Composite Video	RCA phono plug	RCA phono plug	RCA phono plug	-
S-Video Signal	S-Video (SVHS) plug	S-Video (SVHS) plug	S-Video (SVHS) plug	-
DVI-D Signal	DVI-D input 24pin connector	DVI-D input 24pin connector	DVI-D input 24pin connector	DVI-D input 24pin connector
DC Power Signal	Screw terminal block	Screw terminal block	Screw terminal block	Screw terminal block
AC Power Signal (Optional)	Yes	-	Std IEC Inlet	-
Touch Screen	D-SUB 9P connector (Female)	D-SUB 9P connector (Female)	D-SUB 9P connector (Female)	D-SUB 9P connector (Female)
Remote control via RS232	D-SUB 9P connector (Female)	D-SUB 9P connector (Female)	D-SUB 9P connector (Female)	D-SUB 9P connector (Female)
User Controls				
Power Control	Power On/Off via Front Button	Power On/Off via Front Button	Power On/Off via Front Button	Power On/Off via Front Button
VR Control	Brightness Knob Control	Brightness Knob Control	Brightness Knob Control	Brightness Knob Control
Display Control	On Screen Display control (OSD)	On Screen Display control (OSD)	On Screen Display control (OSD)	On Screen Display control (OSD)
OSD Remote Control	OSD Remote Control via RS232	OSD Remote Control via RS232	OSD Remote Control via RS232	OSD Remote Control via RS232
LED indicators	Power Mode Status LED	Power Mode Status LED	Power Mode Status LED	Power Mode Status LED
Mechanical				
Mounting	Panel Mount, VESA Mount (100 x 100 mm)	Panel Mount, VESA Mount (100 x 100 mm)	Panel Mount, VESA Mount (100 x 100 mm)	Panel Mount, VESA Mount (100 x 100, 150 x 280 mm)
Environment				
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
Humidity	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Vibration	5Hz~500Hz /1Grms /3 Axis	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz/1Grms/3 Axis	5Hz~500Hz/1Grms/3 Axis
Shock	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration	15G, 11ms duration
IP Rating	Front IP66	Front IP66	Front IP66	Front IP66
Power				
Power Input	24V DC	9~36V DC	24V DC	24V DC
Power Consumption	45W (Typ.)	70W (Typ.)	80W (Typ.)	80W (Typ.)
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC
Marine	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th	IEC60945 4th, DNV GL-CG-0339, IACS E10	IEC60945 4th, DNV GL-CG-0339, IACS E10

Military

Overview

Winmate's military panel PC and display are designed to be rugged, and undergo rigorous testing to ensure safety and performance, going beyond military standard compliance.

Winmate understands the needs of the military industry and provides solutions that can overcome these industrial challenges:

- MIL-STD 810-G Testing: For MIL-STD 810G compliance, Winmate tests the product against extreme environmental conditions (temperature, shock, vibration, humidity).
- MIL-STD 461-F Testing: For MIL-STD 461F compliance, detailed testing specification ensures that the product meets the requirements for the control of electromagnetic interference.

Built to survive drops, shocks, liquid spills, vibrations, dust, salt, and extreme temperatures, our specially designed military line of products has been tested for MIL-STD-810G environmental and MIL-STD 461F EMC standards.



**For mission critical applications in military,
aerospace and defense.**

Technology

Military Certifications

All Winmate military products are built and tested according to military standards MIL-STD-810 and MIL-STD-461.



MIL-STD-461E/F

MIL-STD-461 is a United States Military Standard that describes how to test equipment for electromagnetic compatibility.

Specifically, MIL-STD-461F details testing specification to ensure the conducted emissions (CE), conducted susceptibility (CS), radiated emissions (RE), and radiated susceptibility (RS) of a system can meet the requirements for the control of electromagnetic interference.

- MIL-STD-461 Method - CE101/CE102: Conducted Emissions
- MIL-STD-461 Method - RE101/RE102: Radiated Emissions
- MIL-STD-461 Method - CS101/CS106/CS109/CS114/CS115/CS116: Conducted Susceptibility
- MIL-STD-461 Method - RS101/RS103: Radiated Susceptibility



MIL-STD-810F/G

The MIL-STD-810 test series are approved for use by all departments and agencies of the United States Department of Defense (DoD).

The standard describes environmental management and engineering processes that can be of enormous value to generate confidence in the environmental worthiness and overall durability of a system design.

- MIL-STD-810 Method 501.4: High Temperature
- MIL-STD-810 Method 502.4: Low Temperature
- MIL-STD-810 Method 507.4: Humidity
- MIL-STD-810 Method 514.5: Vibration
- MIL-STD-810 Method 516.5: Shock

Special Connectors

Military Connectors

Winmate military panel PC and display come with MIL-DTL-38999 type I and III connectors – high-performance cylindrical connectors for cable-to-panel applications in military, air traffic control, or other mission-critical situations.

MIL-DTL-38999/I
Power Connector

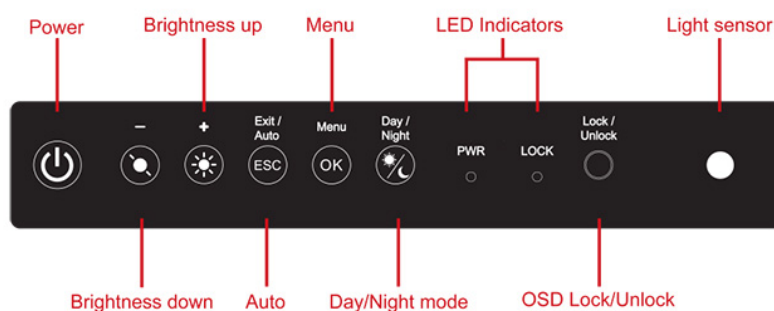


MIL-DTL-38999/III
VGA/RS232/USB-A/LAN



Panel Viewability & OSD Control

The high-resolution display is fully rugged offering optimized visibility with optical bonding, and comes with easy-to-use front panel control. The advanced computing platform enables faster searches and real-time information, providing rapid response capabilities.



17"~24" Military Panel PC Rack Mount

Custom configuration



Memory



Storage



Resistive
Touchscreen



AR Glass



EMI Mesh
Coating



RS232



DC Power
Input



Application



Military Training Center

"COMPATIBLE WITH
OUR EXISTING SYSTEM
DESIGN."

Military grade panel PC was
installed in a new military
training center facility in
Europe. The solution simulates
real experience on the field.

**“ HIGH PERFORMANCE FOR
MILITARY APPLICATIONS. ”**

- 17"~24" with AR glass
- Intel® Core™ i5-7200U
- Windows 10

Up to 16GB DDR4-2133

64GB M.2 B Key SATA III

Two USB 3.0, one HDMI

Two RJ45 for Ethernet

RS232/422/485

Vibration, shock MIL-STD 810F/G, EMC MIL-STD 461E/F

Power connector MIL-DTL-38999/1

Power input AC 110~240V

Console mount, VESA mount

Front IP65 waterproof and dustproof

Wide operating temperature -20~60°C

Accessories

Standard

Power Cord MIL-DTL-38999/1

Driver CD

User Manual

Military Rack Mount Panel PC

Intel® Core™ i5-7200U



Model Name	17"	19"	20.1"	24" (16:10)
	R17IK3S-RKA1ML	R19IK3S-RKA3ML	R20IK3S-RKA2ML	W24IK3S-RKS1ML
Display				
Resolution	1280 x 1024	1280 x 1024	1600 x 1200	1920 x 1200
Panel Brightness	350 nits	350 nits	300 nits	300 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	1400:1 (Typ.)	1000:1 (Typ.)
Active Area	337.92 x 270.34	376.32 x 301.06	408 x 306	518.4 x 324
Viewing Angle	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-85~85(H);-80~80(V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
Touch	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
Glass	Default AR Glass Optional EMI Coating Glass	Default AR Glass Optional EMI Coating Glass	Default AR Glass Optional EMI Coating Glass	Default AR Glass Optional EMI Coating Glass
System				
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
Memory	1 x DDR4-2133, Default 4GB (Max 16GB)	1 x DDR4-2133, Default 4GB (Max 16GB)	1 x DDR4-2133, Default 4GB (Max 16GB)	1 x DDR4-2133, Default 4GB (Max 16GB)
Storage	1 x M.2 B Key SATA III , Default 64GB	1 x M.2 B Key SATA III , Default 64GB	1 x M.2 B Key SATA III , Default 64GB	1 x M.2 B Key SATA III, Default 64GB
Ethernet Controller	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors				
Power	1 x Power Input (MIL-DTL-38999/1)	1 x Power Input (MIL-DTL-38999/1)	1 x Power Input (MIL-DTL-38999/1)	1 x Power Input (MIL-DTL-38999/1)
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM	1 x RS232/422/485 (Default RS232) 1 x RS232 (optional)	1 x RS232/422/485 (Default RS232) 1 x RS232 (optional)	1 x RS232/422/485 (Default RS232) 1 x RS232 (optional)	1 x RS232/422/485 (Default RS232) 1 x RS232 (optional)
USB	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
VGA	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Mechanical				
Dimensions	482 x 354 x 80 mm	482.6 x 399.3 x 81.4 mm	482.6 x 399.3 x 85 mm	609.5 x 399.3 x 76.2 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	Rack Mount/VESA Mount	Rack Mount/VESA Mount	Rack Mount/VESA Mount	Rack Mount/VESA Mount
User Controls				
Control Buttons	Power/Brightness DOWN/ Brightness UP/Night/Day/Auto/ Manual/Reset/LOCK	Power/Brightness DOWN/ Brightness UP/Night/Day/Auto/ Manual/Reset/LOCK	Power/Brightness DOWN/ Brightness UP/Night/Day/Auto/ Manual/Reset/LOCK	Power/Brightness DOWN/ Brightness UP/Night/Day/Auto/ Manual/Reset/LOCK
LED Indicator	Power LED/HDD/Lock	Power LED/HDD/Lock	Power LED/HDD/Lock	Power LED/HDD/Lock
Environment				
Operating Temp.	-20°C to 60°C	-20°C to 60°C	0°C to 60°C	0°C to 50°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I
Vibration	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I
IP Rating	Front IP65	Front IP65	Front IP65	Front IP65
Power				
Power Input	Default AC 110~240V, Optional isolation 9~36V DC	Default AC 110~240V, Optional isolation 9~36V DC	Default AC 110~240V, Optional isolation 9~36V DC	Default AC 110~240V, Optional isolation 9~36V DC
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

17"~24" Military Panel PC Rack Mount

Custom configuration



Memory



Storage



Resistive
Touchscreen



AR Glass



EMI Mesh
Coating



RS232



DC Power
Input



Application



Communications Center

"DESIGNED TO
MEET MILITARY
REQUIREMENTS."

The whole unit feature military grade interfaces to connect to many different equipment in the military communications center. Rugged housing for safety and performance.

" MILITARY GRADE POWER AND INTERFACES.

"

- 17"~24" screen
- Intel® Core™ i7-4650U
- Windows 10/8/7

4GB DDR3L 1600

64GB mSATA SSD

Mini PCIe expansion slot

Connectors MIL-DTL-38999/3

VGA, RS232, USB A-Type, LAN

EMC MIL-STD 461E/F

Vibration, shock MIL-STD 810F/G

Power connector MIL-DTL-38999/1

Power input AC 110~240V

Console mount, VESA mount

Front IP65 waterproof and dustproof

Wide operating temperature -20~60°C

Accessories

Standard

Power Cord MIL-DTL-38999/1

VGA Cable

RS232 Cable

User Manual

Driver CD

Military Rack Mount Panel PC

Intel® Core™ i7-4650U



Model Name	17"	19"	24" (16:10)
	R17IH3S-MLA1-89	R19IH3S-MLA3-89	W24IH3S-MLS1-89
Display			
Resolution	1280 x 1024	1280 x 1024	1920 x 1200
Panel Brightness	350 nits	350 nits	300 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)
Active Area	337.92 x 270.34	376.32 x 301.06	518.4 x 324
Viewing Angle	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M
Touch	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
Glass	Default AR Glass Optional EMI Coating Glass	Default AR Glass Optional EMI Coating Glass	Default AR Glass Optional EMI Coating Glass
System			
Processor	Intel® Core™ i7-4650U (4M Cache, up to 3.30 GHz)	Intel® Core™ i7-4650U (4M Cache, up to 3.30 GHz)	Intel® Core™ i7-4650U (4M Cache, up to 3.30 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x SO-DIMM DDR3L 1600, Default 4GB	1 x SO-DIMM DDR3L 1600, Default 4GB	1 x SO-DIMM DDR3L 1600, Default 4GB
Storage	mSATA SSD, Default 64GB (Up to 256GB)	mSATA SSD, Default 64GB (Up to 256GB)	mSATA SSD, Default 64GB (Up to 256GB)
Ethernet Controller	Intel® Ethernet Controller 1211-AT +, Intel® Gigabit Etherne PHY 1218-LM	Intel® Ethernet Controller 1211-AT +, Intel® Gigabit Etherne PHY 1218-LM	Intel® Ethernet Controller 1211-AT +, Intel® Gigabit Etherne PHY 1218-LM
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7
Connectors			
Power	1 x Power Input (MIL-DTL-38999/1)	1 x Power Input (MIL-DTL-38999/1)	1 x Power Input (MIL-DTL-38999/1)
Ethernet	1 x LAN (MIL-DTL-38999/3)	1 x LAN (MIL-DTL-38999/3)	1 x LAN (MIL-DTL-38999/3)
COM	1 x RS232 (MIL-DTL-38999/3)	1 x RS232 (MIL-DTL-38999/3)	1 x RS232 (MIL-DTL-38999/3)
USB	1 x USB A Type (MIL-DTL-38999/3)	1 x USB A Type (MIL-DTL-38999/3)	1 x USB A Type (MIL-DTL-38999/3)
VGA	1 x VGA (MIL-DTL-38999/3)	1 x VGA (MIL-DTL-38999/3)	1 x VGA (MIL-DTL-38999/3)
Mechanical			
Dimensions	482 x 354 x 80 mm	482.6 x 399.3 x 81.4 mm	609.5 x 399.3 x 76.2 mm
Cooling System	Fanless design	Fanless design	Fanless design
Mounting	Rack Mount/VESA Mount	Rack Mount/VESA Mount	Rack Mount/VESA Mount
User Controls			
Control Buttons	Power/Brightness DOWN/ Brightness UP/Night/Day/ Auto/ Manual/Reset/LOCK	Power/Brightness DOWN/ Brightness UP/Night/Day/ Auto/ Manual/Reset/LOCK	Power/Brightness DOWN/ Brightness UP/Night/Day/ Auto/ Manual/Reset/LOCK
LED Indicator	Power LED/HDD/Lock	Power LED/HDD/Lock	Power LED/HDD/Lock
Environment			
Operating Temp.	-20°C to 60°C	-20°C to 60°C	0°C to 50°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/ Procedure I	MIL-STD-810F/G Method 516.6/ Procedure I	MIL-STD-810F/G Method 516.6/ Procedure I
Vibration	MIL-STD-810F/G Method 514.6/ Procedure I	MIL-STD-810F/G Method 514.6/ Procedure I	MIL-STD-810F/G Method 514.6/ Procedure I
IP Rating	Front IP65	Front IP65	Front IP65
Power			
Power Input	Default AC 110~240V, Optional isolation 9~36V DC	Default AC 110~240V, Optional isolation 9~36V DC	Default AC 110~240V, Optional isolation 9~36V DC
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

17"~24" Military Panel PC Console Rack

Custom configuration



Memory



Storage



Resistive
Touchscreen



AR Glass



EMI Mesh
Coating



RS232



DC Power
Input



Application



Military Base Airport

"RUGGED HOUSING FOR
VEHICLE DEPLOYMENT"

The G-WIN Military Panel PC
was mounted in an armored
vehicle for vibration resistant
data visualization for armed
forces.

“**POWERFUL PROCESSING
AND LATEST OS.**”

- 17"~24" screen with AR glass
- Intel® Celeron® N2930
- Windows 10/8/7

4GB DDR3L 1066/1333

64GB MSATA SSD

1 x USB2.0, 1 x USB3.0, HDMI

Two RJ45 for Ethernet

RS232/422/485

EMC MIL-STD 461E/F

Vibration, shock MIL-STD 810F/G

Power connector MIL-DTL-38999/1

Power input AC 110~240V

Console mount, VESA mount

Front IP65 waterproof and dustproof

Wide operating temperature -20~60°C

Accessories

Standard

Power Cord MIL-DTL-38999/1

User Manual

Driver CD

Military Rack Mount Panel PC

Intel® Celeron® N2930



Model Name	17"	19"	20.1"	24" (16:10)
	R17IB3S-RKA1ML	R19IB3S-RKA3ML	R20IK3S-RKA2ML	W24IB3S-RKS1ML
Display				
Resolution	1280 x 1024	1280 x 1024	1600 x 1200	1920 x 1200
Panel Brightness	350 nits	350 nits	300 nits	300 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	1400:1 (Typ.)	1000:1 (Typ.)
Active Area	337.92 x 270.34	376.32 x 301.06	408 x 306	518.4 x 324
Viewing Angle	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-85~85(H);-80~80(V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
Touch	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
Glass	Default AR Glass Optional EMI Coating Glass	Default AR Glass Optional EMI Coating Glass	Default AR Glass Optional EMI Coating Glass	Default AR Glass Optional EMI Coating Glass
System				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x SO-DIMM DDR3L, Default 4GB, max up to 8GB	1 x SO-DIMM DDR3L, Default 4GB, max up to 8GB	1 x SO-DIMM DDR3L, Default 4GB, max up to 8GB	1 x SO-DIMM DDR3L, Default 4GB, max up to 8GB
Storage	mSATA SSD, Default 64GB	mSATA SSD, Default 64GB	mSATA SSD, Default 64GB	mSATA SSD, Default 64GB
Ethernet Controller	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors				
Power	1 x Power Input (MIL-DTL-38999/1)	1 x Power Input (MIL-DTL-38999/1)	1 x Power Input (MIL-DTL-38999/1)	1 x Power Input (MIL-DTL-38999/1)
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM	1 x RS232	1 x RS232	1 x RS232	1 x RS232
USB	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0
HDMI	1 x HDM	1 x HDM	1 x HDM	1 x HDM
Mechanical				
Dimensions	482 x 354 x 80 mm	482.6 x 399.3 x 81.4 mm	482.6 x 399.3 x 85 mm	609.5 x 399.3 x 76.2 mm
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	Rack Mount	Rack Mount	Rack Mount	Rack Mount
User Controls				
Control Buttons	Power/Brightness DOWN/ Brightness UP/Night/Day/Auto/ Manual/Reset/LOCK	Power/Brightness DOWN/ Brightness UP/Night/Day/Auto/ Manual/Reset/LOCK	Power/Brightness DOWN/ Brightness UP/Night/Day/Auto/ Manual/Reset/LOCK	Power/Brightness DOWN/ Brightness UP/Night/Day/Auto/ Manual/Reset/LOCK
LED Indicator	Power LED/HDD/Lock	Power LED/HDD/Lock	Power LED/HDD/Lock	Power LED/HDD/Lock
Environment				
Operating Temp.	-20°C to 60°C	-20°C to 60°C	0°C to 60°C	0°C to 50°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I
Vibration	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I
IP Rating	Front IP65	Front IP65	Front IP65	Front IP65
Power				
Power Input	Default AC 110~240V, Optional isolation 9~36V DC	Default AC 110~240V, Optional isolation 9~36V DC	Default AC 110~240V, Optional isolation 9~36V DC	Default AC 110~240V, Optional isolation 9~36V DC
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

8.4"~15" G-WIN Military Panel PC

G-WIN Military

Custom configuration



Memory



Storage



EMI Mesh
Coating



RS232



DC Power
Input



AR Glass



“**WIRELESS CONNECTIVITY
AND RUGGED FORM FACTOR.**”

- 8"/10.4"/15" screen with resistive touchscreen
- Intel® Celeron® N2930
- Windows 10

4GB DDR3L 1066/1333

64GB mSATA SSD

Mini PCIe expansion slot

USB 2.0, USB 3.0

HDMI, two RJ45 for Ethernet

RS232/422/485

EMC MIL-STD 461E/F

Vibration, shock MIL-STD 810F/G

Power connector MIL-DTL-38999/1

Power input 12V DC

VESA mount, bracket stand

Front IP65 waterproof and dustproof

Wide operating temperature 20~70°C

Accessories

Standard

Power Cord MIL-DTL-38999/1

Application



Military Base Airport

“FAST COMPUTING AND
RICH CONNECTIVITY.”

Console rack mount panel PC
with powerful processor and
latest operating system now
controls traffic in a military
base airport.

G-WIN Military Panel PC

Intel® Celeron® N2930



Model Name	8"	10"	15"
	R08IB3S-MLU1	R10IB3S-MLT2	R15IB3S-MLA3(HB)
Display			
Resolution	800 x 600	1024 x 768	1024 x 768
Panel Brightness	600 nits	350 nits	1000 nits
Contrast Ratio	600:1 (Typ.)	1200:1 (Typ.)	2500:1 (Typ.)
Active Area	170.4 x 127.8	210.4 x 157.8	304.1 x 228.1
Viewing Angle	-75~75 (H); -60~70 (V)	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)
Display Color	262K	16.2M	16.7M
System			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x DDR3L 1066/1333 MHz SO-DIMM (Default 4GB, max.8GB)	1 x DDR3L 1066/1333 MHz SO-DIMM (Default 4GB, max.8GB)	1 x DDR3L 1066/1333 MHz SO-DIMM (Default 4GB, max. 8GB)
Ethernet Controller	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN
Storage	mSATA SSD (Default 64GB)	mSATA SSD (Default 64GB)	mSATA SSD (Default 64GB)
Expansion Slot	1 x Mini PCIe for wireless	1 x Mini PCIe for wireless	1 x Mini PCIe for wireless
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Connectors			
Power	1 x Military Grade Lockable (MIL-DTL-38999/1) Power	1 x Military Grade Lockable (MIL-DTL-38999/1) Power	1 x Military Grade Lockable (MIL-DTL-38999/1) Power
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0
HDMI	1 x HDMI	1 x HDMI	1 x HDMI
User Controls			
Control Buttons	Power On/Off, Reset, Panel Brightness Up, Panel Brightness Down	Power On/Off, Reset, Panel Brightness Up, Panel Brightness Down	Power, Reset, Lock / Unlock, Auto Dimming / Manually, Day / Night Mode / Brightness UP / Brightness DOWN / LED Adjustment
LED Indicator	Power On/Off, HDD Status	Power On/Off, HDD Status	Power On/Off, HDD Status
Mechanical			
Dimensions	277 x 219.5 x 59.7 mm	315 x 250 x 67 mm	398 x 308 x 58 mm
Mounting	VESA Mount (75 x 75 mm), Vehicle Mount	VESA Mount (75 x 75 mm), Vehicle Mount	VESA Mount (100 x 100 mm), Vehicle Mount
Environment			
Operating Temp.	-20°C to 70°C	-20°C to 70°C	-20°C to 70°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/ Procedure I	MIL-STD-810F/G Method 516.6/ Procedure I	MIL-STD-810F/G Method 516.6/ Procedure I
Vibration	MIL-STD-810F/G Method 514.6/ Procedure I	MIL-STD-810F/G Method 514.6/ Procedure I	MIL-STD-810F/G Method 514.6/ Procedure I
Power			
Power Input	12V DC	12V DC	12V DC
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

27"~40" Military Display

4K UHD Rack Mount

Custom configuration



High
Brightness



P-Cap
Touch



AR
Glass



Application



Flight Simulator

"TRUE COLOR DEPICTION."

Mounted in a console, Winmate's 40" display was installed in the military training center for the simulation of tactical operations on the field.

Future commanders admit that the 4K UHD resolution makes a difference and allows visualization of every small detail of the complex training program with lots of charts, diagrams and hardly visible marks.

“**ULTRA HD RESOLUTION IN A MILITARY FORM FACTOR.**”

- 27"/32"/40", 3840 x 2160 (4K UHD)
- Vibration, shock MIL-STD 810F/G
- EMC MIL-STD 461E/F

1.07B colors

VGA, DVI, Display Port 1.2

HDMI 1.4, HDMI 2.0

LED backlight, TFT active-matrix, IPS technology

Ambient light sensor, dimming

Power connector MIL-DTL-38999/1

Console mount, VESA mount

Front IP65 waterproof and dustproof

Accessories

Standard

Power Cord MIL-DTL-38999/1 VGA Cable DVI Cable HDMI Cable Display Port Cable User Manual

Optional

RS232 Remote Control Shielding Cable

USB Cable for Touch

4K UHD Military Display

Rack Mount



Model Name	27"	32"	40"
	W27L100-MLA1FP/FG-4K	W32L100-MLA1FP/FG-4K	W40L100-MLM1FG-4K
Display			
Resolution	3840 x 2160 (UHD 4K)	3840 x 2160 (UHD 4K)	3840 x 2160 (UHD 4K)
Panel Brightness	300 nits (Optional 700 nits)	350 nits (Optional 700 nits)	350 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	5000:1 (Typ.)
Active Area	596.16 x 335.54	708.48 x 398.52	878.1 x 485.3
Viewing Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	1.07B	1.07B	1.07B
Touch	PCAP/AR Glass	PCAP/AR Glass	AR Glass
Connectors			
DVI	1 x DVI-D	1 x DVI-D	1 x DVI-D
VGA	1 x VGA	1 x VGA	1 x VGA
HDMI	1 x HDMI 1.4, 1 x HDMI 2.0	1 x HDMI 1.4, 1 x HDMI 2.0	1 x HDMI 1.4, 1 x HDMI 2.0
USB	USB for Optional Touch	USB for Optional Touch	-
Display Port	1 x Display Port	1 x Display Port	1 x Display Port
User Controls			
Audio	Line-in (Optional)	Line-in (Optional)	Line-in (Optional)
Control Buttons	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control
Led Indicator	Power On/Off, Menu Brightness Control	Power On/Off, Menu Brightness Control	Power On/Off, Menu Brightness Control
Mechanical			
Dimensions	697.17 x 442.06 x 73.8 mm	825 x 486 x 88.5 mm	978.2 x 580.4 x 88.55 mm
Cooling System	Fanless design	Fanless design	Fanless design
Mounting	Rack Mount / Panel Mount VESA Mount (100 x 100, 200 x 100, 200 x 200 mm)	Flush Rack / Rack Mount VESA Mount (100 x 200, 200 x 200, 400 x 200 mm)	Flush Rack / Rack Mount VESA Mount (100 x 200, 200 x 200, 400 x 200 mm)
Environment			
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
IP Rating	Front IP65	Front IP65	Front IP65
Power			
Power Input	AC 110~240V, 24V DC (Optional)	AC 110~240V, 24V DC (Optional)	AC 110~240V, 24V DC (Optional)
AC Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

27" / 32" Military Display

4K UHD Chassis

Custom configuration



High
Brightness



P-Cap
Touch



Application



Command Center

"CLEAR DEPICTION OF
MAP DETAILS."

Winmate 27" chassis display with 4K UHD resolution was installed in a command center of a military base. Intuitive touch controls and superior resolution depict clearly all the details on the maps. The display screen has an ability to adjust to changing light conditions with ambient light sensor. EMC compliance with military standard allows smooth deployment of the system to customer's facilities.

“**SUPERIOR RESOLUTION.**”

- 27" / 32", 3840 x 2160 (4K UHD)
- Impact resistant screen
- Vibration, shock MIL-STD 810F/G
- EMC MIL-STD 461E/F

1.07B colors

DVI, Display Port 1.2

VGA, HDMI 1.4, HDMI 2.0

LED backlight, TFT active-matrix, IPS technology

Ambient light sensor, dimming

Capacitive OSD control

VESA mount

Power 24V DC with external 110~240V AC Adapter

Front IP65 waterproof and dustproof

Accessories

Standard

AC Adapter

Power Cord

Power Converter Cable

VGA Cable

DVI Cable

RS232 Cable

VESA Screws

User Manual

Optional

USB Cable for Touch

4K UHD Military Display

Chassis



Model Name	27"	32"
	M270TF-MIL	M320TF-MIL
Display		
Resolution	3840 x 2160 (UHD 4K)	3840 x 2160 (UHD 4K)
Panel Brightness	300 nits (Optional 700 nits)	350 nits (Optional 700 nits)
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)
Active Area	596.16 x 335.34	708.48 x 398.52
Viewing Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	1.07B (Max)	1.07B (Max)
Touch	PCAP touchscreen (USB, Optional)	PCAP touchscreen (USB, Optional)
Connectors		
DVI	1 x DVI-D	1 x DVI-D
VGA	1 x VGA	1 x VGA
HDMI	1 x HDMI 1.4, 1 x HDMI 2.0	1 x HDMI 1.4, 1 x HDMI 2.0
USB	USB for Optional Touch	USB for Optional Touch
COM	RS232 for Remote Control (Optional)	RS232 for Remote Control (Optional)
Display Port	1 x Display Port	1 x Display Port
User Controls		
Audio	Line-in	Line-in
Control Buttons	Capacitive OSD: Power On/Off, On Screen Display Menu, Panel Brightness Control (-/+)	Capacitive OSD: Power On/Off, On Screen Display Menu, Panel Brightness Control (-/+)
Led Indicator	Power on, Standby	Power on, Standby
Mechanical		
Dimensions	643.17 x 408.06 x 48 mm	777.58 x 477.62 x 48 mm
Cooling System	Fanless design	Fanless design
Mounting	VESA Mount (100 x100, 100 x 200 mm)	VESA Mount (100 x100, 100 x 200, 100 x 300 mm)
Environment		
Operating Temp.	0°C to 50°C	0°C to 50°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22
Power		
Power Input	24V DC	24V DC
AC Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Certifications		
Safety	CE, FCC	CE, FCC

15"~32" Military Display PCAP Rack Mount

Custom configuration



EMI ITO
Glass



DC Power
Input



Application



Control Center

"BNC CONNECTOR FOR MILITARY USE."

Military control center required a large screen size panel PC with BNC connectors. The 32" console rack mount panel PC with BNC interface was opted to communicate with the existing radio-frequency electronic equipment, and transmits analog and serial digital interface video signals.

“**INTUITIVE USER CONTROLS.**”

- 15"~32" screen with P-Cap touch
- Vibration, shock MIL-STD 810F/G
- EMC MIL-STD 461E/F

VGA, DVI

5 x BNCs (R,G,B,H,V)

Power connector MIL-DTL-38999/1

Power input AC 110~240V

Console mount, VESA mount

Front IP65 waterproof and dustproof

Wide operating temperature -20~60°C

Accessories

Standard

Power Cord MIL-DTL-38999/1

VGA Cable

DVI Cable

VGA to 5 BNC Shielding Cable

Optional

RS232 Remote Control Shielding Cable

RS232 Touch Shielding Cable

Rack Mount Military Display

PCAP



Model Name	15"	17"	19"
	R15L600-MLA3FP	R17L100-MLA1FP	R19L100-MLA3FP
Display			
Resolution	1024 x 768	1280 x 1024	1280 x 1024
Panel Brightness	500 nits	350 nits	350 nits
Contrast Ratio	2500:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)
Active Area	304.1 x 228.1	337.920 x 270.336	376.32 x 301.06
Viewing Angle	-88~88(H); -88~88(V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Display Color	16.7M	16.7M	16.7M
Touch	PCAP touchscreen EMI ITO Glass (Optional)	PCAP touchscreen EMI ITO Glass (Optional)	PCAP touchscreen EMI ITO Glass (Optional)
Connectors			
Power	1 x AC Power input (Military grade)	1 x AC Power input (Military grade)	1 x AC Power input (Military grade)
COM	1 x RS232 (Optional)	1 x RS232 (Optional)	1 x RS232 (Optional)
USB	1 x USB Touch Interface	1 x USB Touch Interface	1 x USB Touch Interface
BNC	5 x BNCs (R,G,B,H,V)	5 x BNCs (R,G,B,H,V)	5 x BNCs (R,G,B,H,V)
VGA	1 x VGA	1 x VGA	1 x VGA
DVI	1 x DVI-D	1 x DVI-D	1 x DVI-D
User Controls			
Control Buttons	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control
Led Indicator	Power On/Off, Menu Brightness Control	Power On/Off, Menu Brightness Control	Power On/Off, Menu Brightness Control
Mechanical			
Dimensions	402 x 321 x 70 mm	482.6 x 399.3 x 79.6 mm	482.6 x 399.3 x 76.9 mm
Mounting	Flush, Rack Mount	Flush, Rack Mount	Flush, Rack Mount
Environment			
Operating Temp.	-20°C to 60°C	-20°C to 60°C	-20°C to 60°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I
Vibration	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I
IP Rating	Front IP65	Front IP65	Front IP65
Power			
Power Input	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Rack Mount Military Display

PCAP



Model Name	23.8" (16:9)	32" (16:9)
	W24L100-MLA2FP	W32L100-MLA3FP
Display		
Resolution	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	400 nits
Contrast Ratio	3000:1 (Typ.)	3000:1 (Typ.)
Active Area	527.04 x 290.46	698.4 x 392.85
Viewing Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Pixel Pitch	0.270 (H) x 0.270 (V)	0.3637 (H) x 0.3637 (V)
Display Color	16.7M	16.7M
Touch	PCAP touchscreen, EMI ITO Glass (Optional)	PCAP touchscreen, EMI ITO Glass (Optional)
Connectors		
Power	1 x AC Power input (Military grade)	1 x AC Power input (Military grade)
COM	1 x RS232 (Optional)	1 x RS232 (Optional)
USB	1 x USB Touch Interface	1 x USB Touch Interface
BNC	5 x BNCs (R,G,B,H,V)	5 x BNCs (R,G,B,H,V)
VGA	1 x VGA	1 x VGA
DVI	1 x DVI-D	1 x DVI-D
User Control		
Control Buttons	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/Night Mode, Key Pad Control	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/Night Mode, Key Pad Control
Led Indicator	Power On/Off, Menu Brightness Control	Power On/Off, Menu Brightness Control
Mechanical		
Dimensions	635.2 x 430.9 x 66 mm	825 x 486 x 88.5 mm
Mounting	Flush, Rack Mount	Flush, Rack Mount
Environment		
Operating Temp.	0°C to 50°C	0°C to 50°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I
Vibration	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I
IP Rating	Front IP65	Front IP65
Power		
Power Input	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)
Power Consumption	25W (Typ.)	50W (Typ.)
Power Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Certifications		
Safety	CE, FCC	CE, FCC

17"~32" Military Display Resistive Rack Mount



**“RUGGED CONSTRUCTION AND
SCRATCH RESISTANT SCREEN.”**

- 17"~32" screen with resistive touchscreen
- Vibration, shock MIL-STD 810F/G
- EMC MIL-STD 461E/F

VGA, DVI

5 x BNCs (R,G,B,H,V)

Power connector MIL-DTL-38999/1

Power input AC 110~240V

Console mount, VESA mount

Front IP65 waterproof and dustproof

Wide operating temperature -20~60°C

Custom configuration



Resistive
Touch



AR Glass



EMI Mesh
Coating



9~36V
DC
DC Power
Input

Application



Command Room

"MILITARY GRADE
COMPLIANCE"

The military console rack display was mounted in a command center on a military base. Full military compliance and ruggedness allows for easy implementation.

Accessories

Standard

Power Cord MIL-DTL-38999/1 VGA Cable DVI Cable VGA to 5 BNC Shielding Cable User Manual

Optional

RS232 Remote Control Shielding Cable RS232 Touch Shielding Cable

Rack Mount Military Display

Resistive



Model Name	17"	19"	20.1"
	R17L100-RKA1ML	R19L100-RKA3ML	R20L100-RKA2ML
Display			
Resolution	1280 x 1024	1280 x 1024	1600 x 1200
Panel Brightness	350 nits	350 nits	300 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	800:1 (Typ.)
Active Area	337.92 x 270.34	376.32 x 301.06	408 x 306
Viewing Angle	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Pixel Pitch	0.264 (H) x 0.264 (V)	0.294 (H) x 0.294 (V)	0.255 (H) x 0.255 (V)
Display Color	16.7M	16.7M	16.7M
Touch	AR Glass (Default) 5-wire Resistive touchscreen (Optional), 5-wire Resistive touchscreen with EMI Mesh Coating (Optional), EMI ITO Glass (Optional)	AR Glass (Default) 5-wire Resistive touchscreen (Optional), 5-wire Resistive touchscreen with EMI Mesh Coating (Optional), EMI ITO Glass (Optional)	AR Glass (Default) 5-wire Resistive touchscreen (Optional), 5-wire Resistive touchscreen with EMI Mesh Coating (Optional), EMI ITO Glass (Optional)
Connectors			
Power	1 x AC Power input (Military grade)	1 x AC Power input (Military grade)	1 x AC Power input (Military grade)
COM	1 x RS232 (Optional)	1 x RS232 (Optional)	1 x RS232 (Optional)
BNC	5 x BNCs (R,G,B,H,V)	5 x BNCs (R,G,B,H,V)	5 x BNCs (R,G,B,H,V)
VGA	1 x VGA	1 x VGA	1 x VGA
DVI	1 x DVI-D	1 x DVI-D	1 x DVI-D
User Controls			
Control Buttons	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/ Night Mode, Key Pad Control
Led Indicator	Power On/Off, OSD Lock	Power On/Off, OSD Lock	Power On/Off, OSD Lock
Mechanical			
Dimensions	482.6 x 399.3 x 79.6 mm	482.6 x 399.3 x 76.9 mm	482.6 x 399.3 x 85 mm
Mounting	Flush, Rack Mount	Flush, Rack Mount	Flush, Rack Mount
Environment			
Operating Temp.	-20°C to 60°C	-20°C to 60°C	0°C to 60°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I
Vibration	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I
IP Rating	Front IP65	Front IP65	Front IP65
Power			
Power Input	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Rack Mount Military Display

Resistive



Model Name	24" (16:10)	32"
	W24L100-RKS1ML	W32L100-RKA3ML
Display		
Resolution	1920 x 1200	1920 x 1080
Panel Brightness	300 nits	400 nits
Contrast Ratio	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	518.4 x 324	698.4 x 392.85
Viewing Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Pixel Pitch	0.270 (H) x 0.270 (V)	0.3637 (H) x 0.3637 (V)
Display Color	16.7M	16.7M
Touch	AR Glass (Default) 5-wire Resistive touchscreen (Optional), 5-wire Resistive touchscreen with EMI Mesh Coating (Optional), EMI ITO Glass (Optional)	AR Glass (Default)
Connectors		
Power	1 x AC Power input (Military grade)	1 x AC Power input (Military grade)
COM	1 x RS232 (Optional)	1 x RS232 (Optional)
BNC	5 x BNCs (R,G,B,H,V)	5 x BNCs (R,G,B,H,V)
VGA	1 x VGA	1 x VGA
DVI-D	1 x DVI-D	1 x DVI-D
User Controls		
Control Buttons	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/Night Mode, Key Pad Control	Power, Brightness Down/Up, Auto Adjustment, Main Menu, Day/Night Mode, Key Pad Control
Led indicator	Power On/Off, Menu Brightness Control	Power On/Off, Menu Brightness Control
Mechanical		
Dimensions	609.5 x 399.3 x 76.2 mm	825 x 486 x 88.5 mm
Mounting	Flush, Rack Mount	Flush, Rack Mount
Environment		
Operating Temp.	0°C to 50°C	0°C to 50°C
Humidity	95% ±3% (Non-condensing, RH)	95% ±3% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I
Vibration	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.5
IP Rating	Front IP65	Front IP65
Power		
Power Input	AC 110~240V, Universal, ±10%; DC 9~36V, ±10% (Optional)	AC 110~240V, Universal, ±10% DC 24V, ±10% (Optional)
Certifications		
Safety	CE, FCC	CE, FCC

Custom configuration



8.4"~10.4" Military Display

G-WIN Military Vehicle Mount



“
FITS IN MILITARY VEHICLES
”

- 8.4"/10.4" screen
- Vibration, shock MIL-STD 810F/G
- EMC MIL-STD 461E/F



Vehicle Information Screen

“SURVIVE STRONG
VIBRATION ON
UNCHARTED ROADS.”

Tested to survive in extreme conditions, G-WIN display also features vehicle mount design and scratch resistant touch screen. Now our 8.4" display is helping to navigate the road of a military vehicle.

VGA

EMC MIL-STD 461E/F

Vibration, shock MIL-STD 810F/G

Power connector MIL-DTL-38999/1

Power input 12V DC

VESA mount, bracket stand

Front IP65 waterproof and dustproof

Wide operating temperature -20~60°C

Accessories

Standard

Open Wire Cable

Mounting Bracket (Optional)

User Manual

Driver CD

G-WIN Military Display

Vehicle Mount



Model Name	8.4"	10"	10"
	R08L100-MLU1	R10L100-MLT2	R10L100-MLP1
Display			
Resolution	800 x 600	1024 x 768	800 x 600
Panel Brightness	600 nits	350 nits	400 nits
Contrast Ratio	600:1 (Typ.)	1200:1 (Typ.)	500:1 (Typ.)
Active Area	170.4 x 127.8	210.4 x 157.8	211.2 x 158.4
Viewing Angle	-75~75 (H); -60~70 (V)	-88~88 (H); -88~88 (V)	-70~70 (H); -55~65 (V)
Display Color	16.2M	16.2M	16.2M
Touch	5 Wire Resistive touchscreen (Optional)	5 Wire Resistive touchscreen (Optional)	5 Wire Resistive touchscreen (Optional)
Connectors			
Power	1 x Military Grade Lockable (MIL-DTL-38999/1) Power Connector	1 x Military Grade Lockable (MIL-DTL-38999/1) Power Connector	1 x Military Grade Lockable (MIL-DTL-38999/1) Power Connector
VGA	1 x VGA (DB-15)	1 x VGA (DB-15)	1 x VGA (DB-15)
RS232	1 x RS232 for Touch Screen (Optional with touch)	1 x RS232 for Touch Screen (Optional with touch)	1 x RS232 for Touch Screen (Optional with touch)
User Controls			
Control Buttons	Enter/ Menu, Esc/ Auto, Brightness Up, Brightness Down, Power Button	Enter/ Menu, Esc/ Auto, Brightness Up, Brightness Down, Power Button	Enter/ Menu, Esc/ Auto, Brightness Up, Brightness Down, Power Button
LED Indicator	Power, Standby	Power, Standby	Power, Standby
Mechanical			
Dimensions	277 x 219.5 x 59.7 mm	316 x 250 x 67 mm	316 x 250 x 67 mm
Mounting	VESA Mount (75 x 75 mm), Vehicle mount	VESA Mount (75 x 75 mm), Vehicle mount	VESA Mount (75 x 75 mm), Vehicle mount
Housing	Aluminum Housing with Anti-Corrosion Treatments	Aluminum Housing with Anti-Corrosion Treatments	Aluminum Housing with Anti-Corrosion Treatments
Environment			
Operating Temp.	-20°C to 70°C	-20°C to 70°C	-10°C to 60°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Shock	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I	MIL-STD-810F/G Method 516.6/Procedure I
Vibration	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I	MIL-STD-810F/G Method 514.6/Procedure I
IP Rating	Full IP65	Full IP65	Full IP65
Power			
Power Input	12V DC	12V DC	12V DC
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

15"/ 19" Military Display

G-WIN Military Vehicle Mount

Custom configuration



Resistive
Touch



DC Power
Input



AR Glass



EMI Mesh
Coating



Application



In-Vehicle Display

"RATED FOR EXTREME TEMPERATURES."

These display survives harsh conditions and features wide operating temperature.

Installed inside a military vehicle our 19" display helps to navigate during tactic and field studies.

" RUGGED & RELIABLE IMAGING SOLUTION. "

- 15"/19" screen
- Vibration, shock MIL-STD 810F/G
- EMC MIL-STD 461E/F

VGA

EMC MIL-STD 461E/F

Vibration, shock MIL-STD 810F/G

Power connector MIL-DTL-38999/1

Power input 9~36V DC

VESA mount, bracket stand

Front IP65 waterproof and dustproof

Wide operating temperature -20~60°C

Accessories

Standard

Open Wire Cable

VGA Cable

User Manual

Driver CD

AC Adapter

Power Converter Cable

G-WIN Military Display

Vehicle Mount



Model Name	15"	19"
	R15L100-MLA3(HB)	R19L100-MLA3
Display		
Resolution	1024 x 768	1280 x 1024
Panel Brightness	1000 nits	350 nits
Contrast Ratio	2500:1 (Typ.)	1000:1 (Typ.)
Active Area	304.128 x 228.096	376.32 x 301.06
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)
Display Color	16.7M	16.7M
Touch	5 Wire Resistive touchscreen	AR Glass (Default), ELO 5 Wire Resistive touchscreen (Optional)
Connectors		
Power	1 x Military Grade Lockable (MIL-DTL-38999/1) Power Connector	1 x Military Grade Lockable (MIL-DTL-38999/1) Power Connector
VGA	1 x VGA (DB-15)	1 x VGA (DB-15)
RS232	1 x RS232 for Touch Screen (Optional with touch)	1 x RS232 for Touch Screen (Optional with touch)
DVI	-	1 x DVI-D
User Controls		
Control Buttons	Menu, Enter Button, Auto-adjust, Esc Button, Panel Brightness Up, Increase Button, Panel Brightness Down, Decrease Button, Power Button	Menu, Enter Button, Auto-adjust, Esc Button, Panel Brightness Up, Increase Button, Panel Brightness Down, Decrease Button, Power Button
LED Indicator	Power On/Off, Sleep	Power On/Off, Sleep
Mechanical		
Dimensions	398 x 308 x 58 mm	474 x 410 x 111 mm
Mounting	VESA Mount (100 x 100 mm), Vehicle Mount	VESA Mount (100 x 100 mm), Vehicle Mount
Housing	Aluminum Housing with Anti-Corrosion Treatments	Aluminum Housing with Anti-Corrosion Treatments
Environment		
Operating Temp.	-20°C to 70°C	-40°C to 70°C (With intelligent heater control design)
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
Shock	Method 516.6 Procedure I	Method 516.6 Procedure I
Vibration	Method 514.6 Procedure I	Method 514.6 Procedure I
IP Rating	Front Full IP65	Front Full IP65
Power		
Power Input	9~36V DC with isolation	9~36V DC with isolation
Certifications		
Safety	CE, FCC	CE, FCC

SMART RETAIL

Overview

Smart Retail transforms the way you interact with your audience. By enabling you to deliver targeted and dynamic visual messaging, Smart Retail increase engagement and reduce cost. To empower smart Smart Retail applications Winmate provides Smart Retail to cover most business and environmental needs, from single store to central management, commercial to industrial applications.

Winmate Smart Retail offers a complete range of pre-integrated hardware and software solutions with content management, device monitoring, and content security software for a flexible range of applications in retail, lobbies, restaurants, hotels and other public spaces.

Winmate's Smart Retail include:

- The latest Android™, Windows® operating system
- Bar type stretched panel PC and display
- Embedded player and Smart Retail box PC
- Open Pluggable Specification (OPS) solutions

Backed by high picture quality, Winmate's Smart Retail brings creative ideas to life, and enable businesses to deliver engaging and informative content in public places.



Product Overview

Winmate provides one-stop solution for your Smart Retail application. From embedded player to bar type display and panel PC, our devices find its application in retail, gaming, banking, public navigation systems.



Technology

Stretched Bar Type Display

Designed to meet the demands of the most restricted Smart Retail spaces

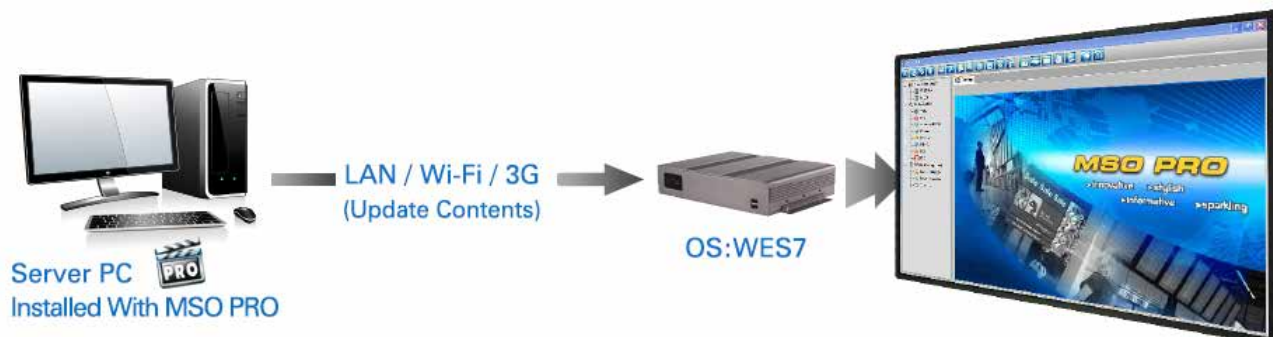
Winmate offers a versatile solution for industrial and commercial advertising, especially in areas with high traffic and restricted, atypical shaped spaces. Maximize available space and dynamic scenarios with ultra wide ratio design.



MSO Pro Software

Seamless Smart Retail experience

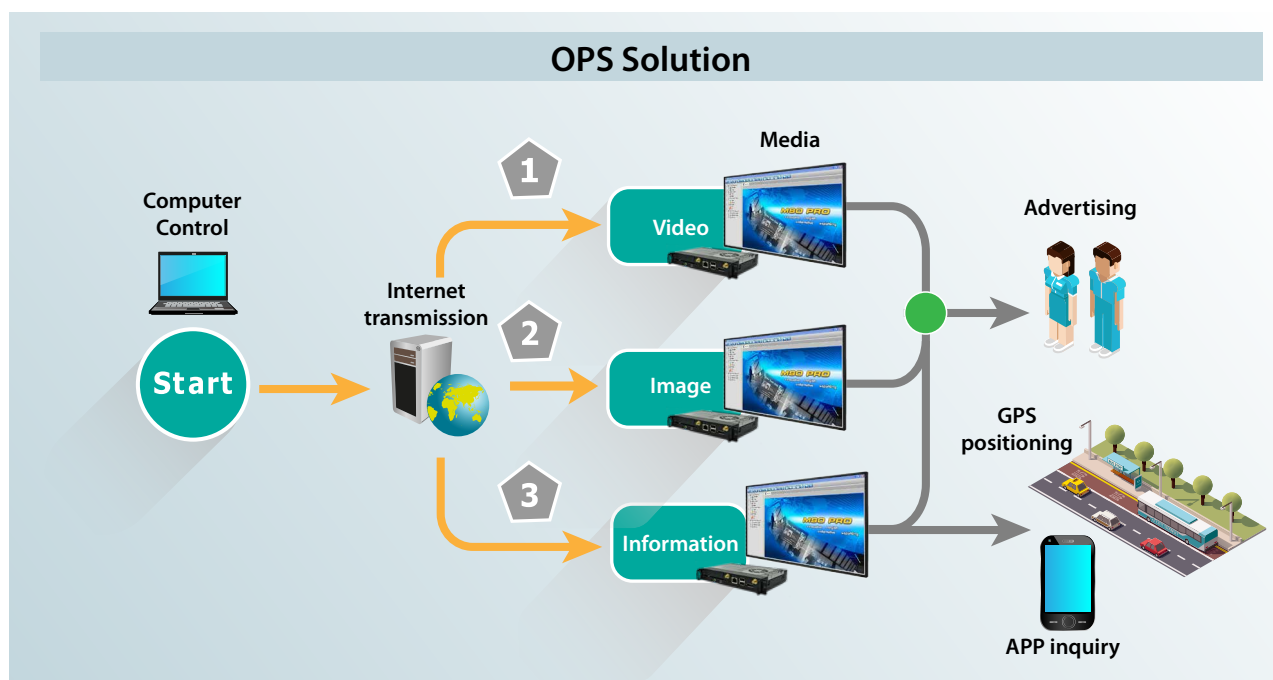
Winmate partners with Microsoft® to enable seamless Smart Retail experience. Our hardware comes bundled with Microsoft's signage management software - MSO Pro for incredible experience.



OPS Solution

Easy integration and maintenance

Winmate deploys Intel® Open Pluggable Specification (OPS) into Smart Retail. OPS is a universal, embedded interface which can link external media players with a large video display, thus providing users with integration of their signage and conferencing applications. Winmate's OPS series is a scalable and reliable solution that simplifies device installation, use, maintenance and upgrades.



Product Guide - Smart Retail

Our product guide helps you to navigate and find the right product from our excessive product line.

Digital Signage Solutions	
	
27.6" / 28.6" / 38" Bar Type Panel PC	27.6" / 28.6" / 38" Bar Type Open Frame/Chassis Display
p.285	p.288
	
Digital Signage Embedded Player	Digital Signage Box PC
p.291	p.293
	
42" / 55" OPS Panel PC	OPS PC Module
p.295	p.297

27.6"~38" Bar Type Panel PC

Bar Type

Custom configuration



AR Glass



“ **GREAT FIT FOR ATYPICAL SPACES.** ”

- 27.6"/ 28.6"/ 38" screen
- Intel® Celeron® N2930
- Arm Cortex-A9
- Windows 10/8/7
- Android 6.0

Ultra wide aspect ratio

Fanless cooling system

VESA mount

Front IP54 waterproof and dustproof (with AR glass)

Operating temperature 0°C to 50°C

Arrival Hall Signage Solution

“CRAFTED TO
ENHANCE YOUR
PUBLIC NAVIGATION
ECOSYSTEM.”

Traditional public navigation in train station terminal building was replaced by Winmate's wide viewing angle 38" bar type panel PC.

Accessories

Driver CD

Terminal Block

VESA Screws

AC Adapter

Power Cord

Bar Type Panel PC

Intel® Celeron® N2930
Arm Cortex-A9



Model Name	27.6"	28.6"	38"
	W27IB3S-CHC1	W28IB3S-CHA2	W38IB3S-CHA1
Display			
Resolution	1920 x 360	1920 x 540	1920 x 540
Panel Brightness	1000 nits	1000 nits	1000 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	4000:1 (Typ.)
Viewing Angle	-85~85 (H); -85~85 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M
System			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	1 x SODIMM DDR3L 1600, max. 8GB	1 x SODIMM DDR3L 1600, max. 8GB	1x SODIMM DDR3L 1600, max. 8GB
Storage	64GB mSATA SSD, Max 512GB	64GB mSATA SSD, Max 512GB	64GB mSATA SSD, Max 512GB
Ethernet	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
OS	Windows 10 IoT Enterprise, Windows Embedded 8.1 Industry Pro, Windows Embedded Standard 7, Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise, Windows Embedded 8.1 Industry Pro, Windows Embedded Standard 7, Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise, Windows Embedded 8.1 Industry Pro, Windows Embedded Standard 7, Windows 7 Pro for Embedded System
Connectors			
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0
Display output	1 x HDMI	1 x HDMI	1 x HDMI
Power	1 x Terminal Block (Phoenix Type)	1 x Terminal Block (Phoenix Type)	1 x Terminal Block (Phoenix Type)
Mechanical			
Dimensions	727.6 x 179.2 x 75 mm	736.5 x 234.4 x 70 mm	928.3 x 282.1 x 69 mm
Mounting	VESA Mount (200 x 100 mm)	VESA Mount (200 x 100 mm)	VESA Mount (200 x 100, 400 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
Power			
Power Input	9~36V DC	9~36V DC	9~36V DC
Power Consumption	72.5W (Typ.)	72.5W (Typ.)	85W (Typ.)
AC Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Arm Bar Type Panel PC

Arm Cortex-A9



Model Name	27.6"	28.6"	38"
	W27FA3S-CHC1	W28FA3S-CHA2	W38FA3S-CHA1
Display			
Resolution	1920 x 360	1920 x 540	1920 x 540
Panel Brightness	1000 nits	1000 nits	1000 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	4000:1 (Typ.)
Viewing Angle	-85~85 (H); -85~85 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M
System			
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0 (Default)	Android 6.0 (Default)	Android 6.0 (Default)
Connectors			
Ethernet	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
Serial Interface	1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)
USB	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG
CANBus	1 x CANBus	1 x CANBus	1 x CANBus
Others	1 x Console Port (Linux use) 1 x Micro SD Card Slot	1 x Console Port (Linux use) 1 x Micro SD Card Slot	1 x Console Port (Linux use) 1 x Micro SD Card Slot
Power	1 x Terminal Block (Phoenix Type)	1 x Terminal Block (Phoenix Type)	1 x Terminal Block (Phoenix Type)
Mechanical			
Dimensions	727.6 x 179.2 x 75 mm	740.6 x 175.6 x 72 mm	972.5 x 284.5 x 71.6 mm
Mounting	VESA Mount (200 x 100 mm)	VESA Mount (200 x 100 mm)	VESA Mount (400 x 100, 200 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Power			
Power Input	9~24V DC	9~24V DC	9~24V DC
Power Consumption	72.5W (Typ.)	72.5W (Typ.)	85W (Typ.)
AC Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

27.6"~38" Bar Type Display

Open Frame Chassis



“ **ULTRA HD PANORAMIC VIEW.** ”

- 27.6" / 28.6" / 38" screen
- Open frame or chassis housing
- Ultra wide ratio

VGA, HDMI, DVI

VESA mount, open frame

Operating temperature 0°C to 50°C

Custom configuration

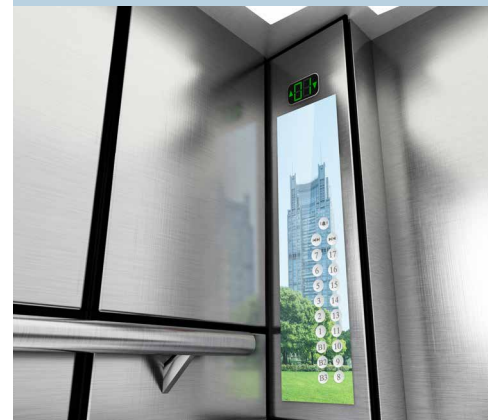


Audio and
Speaker



RS232
Remote Control

Application



Elevator Signage

“ULTRA WIDE
STRETCHED LCD”

Digital signage solution for a full-length elevator interface offers greater flexibility in functionality and advertising.

Accessories

Adapter

Power Cord

VGA Cable

HDMI Cable

DVI Cable

Bar Type Display

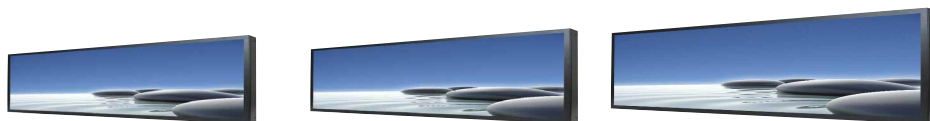
Open Frame



Model Name	27.6"	28.6"	38"
	W27L100-OFC1	W28L100-OFA2	W38L100-OFA1
Display			
Resolution	1920 x 360	1920 x 540	1920 x 540
Panel Brightness	1000 nits	1000 nits	1000 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	4000:1 (Typ.)
Active Area	688.896 x 129.168	698.4 x 196.4	904.32 x 254.34
Viewing Angle	-85~85 (H); -85~85 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M
Touch	N/A	N/A	N/A
Connectors			
VGA	1 x VGA	1 x VGA	1 x VGA
DVI	1 x DVI	1 x DVI	1 x DVI
HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Mechanical			
Chassis Dimensions	727.6 x 179.2 x 75 mm	736.5 x 234.4 x 70 mm	928.3 x 282.1 x 69.0 mm
Open Frame Dimensions	727.6 x 191.5 x 64 mm	734.0 x 252.0 x 51 mm	954.0 x 306.0 x 66.0 mm
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (200 x 100 mm)	VESA Mount (200 x 200, 400 x 200 mm)
Power			
Power Input	12V DC	12V DC	24V DC
Power Consumption	40W (Typ.)	40W (Typ.)	75W (Typ.)
AC Adapter	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Bar Type Display

Chassis



Model Name	27.6"	28.6"	38"
	W27L100-CHC1	W28L100-CHA2	W38L100-CHA1
Display			
Resolution	1920 x 360	1920 x 540	1920 x 540
Panel Brightness	1000 nits	1000 nits	1000 nits
Contrast Ratio	1000:1 (Typ.)	1000:1 (Typ.)	4000:1 (Typ.)
Active Area	688.896 x 129.168	698.4 x 196.4	904.32 x 254.34
Viewing Angle	-85~85 (H); -85~85 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M
Touch	N/A	N/A	N/A
Connectors			
VGA	1 x VGA	1 x VGA	1 x VGA
DVI	1 x DVI	1 x DVI	1 x DVI
HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Mechanical			
Chassis Dimensions	727.6 x 179.2 x 75 mm	736.5 x 234.4 x 70 mm	928.3 x 282.1 x 69.0 mm
Open Frame Dimensions	727.6 x 191.5 x 64 mm	734.0 x 252.0 x 51 mm	954.0 x 306.0 x 66.0 mm
Mounting	VESA Mount (200 x 100 mm)	VESA Mount (200 x 100 mm)	VESA Mount (200 x 100, 400 x 200 mm)
Power			
Power Input	12V DC	12V DC	24V DC
Power Consumption	40W (Typ.)	40W (Typ.)	75W (Typ.)
AC Adapter	AC 110~240V, Universal, $\pm 10\%$	AC 110~240V, Universal, $\pm 10\%$	AC 110~240V, Universal, $\pm 10\%$
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

Digital Signage Embedded Player

Embedded Player

Custom configuration

3G

3G Module



Additional
Storage



Wi-Fi



RS232C



“ **ENHANCE CUSTOMER
ENGAGEMENT.** ”



Department Store

“CONTENT DELIVERY
FOR CUSTOMER
ENGAGEMENT.”

Display dynamic and
eye-catching product
advertisements on digital
screens located on-shelf or in
aisles.

- Multi HD resolution 1080 pixel
- Low power consumption
- Wireless capabilities

Fanless cooling system

1GB of storage

USB 2.0

DVI-I, VGA, S-Video, Composite

RJ45 for Ethernet

Real Time RSS Feed

MPEG1, MPEG2, MPEG4, WMV9, DAT, VOB, Divx, Xvid, H.264

JPEG, BMP, PNG

Operating temperature -20°C to 60°C

Accessories

Power Cord

AC Adapter

Driver CD

Content Management Software

DVI Cable

Digital Signage Embedded Player



Model Name	MSS550	MSS550-3G
System		
Storage Media	1GB, optional with bigger capacity up to 40GB (Need to be Linux ext2 format)	1GB, optional with bigger capacity up to 40GB (Need to be Linux ext2 format)
Content Update	Ethernet/WLAN/USB flash drive	Ethernet/3G/USB flash drive
Connectors		
Ethernet	1 x RJ45 10/100	1 x RJ45 10/100 and 3G
USB	USB 2.0 for Flash Storage Drive	USB 2.0 for Flash Storage Drive
Audio Output	Line-out	Line-out
Video Output	DVI-I/VGA/S-video/Composite	DVI-I/VGA/S-video/Composite
Mechanical		
Dimensions	258 x 127 x 47 mm	258 x 127 x 47 mm
Weight	1.0 kg	1.0 kg
Environment		
Operating Temp.	-20°C to 60°C	-20°C to 60°C
Humidity	5% to 85%@50°C	5% to 85%@50°C
Power		
Power Input	12V DC	12V DC
Power Consumption	5W (Typ.)	5W (Typ.)
AC Adapter	AC 100~240V, Universal, ±10%	AC 100~240V, Universal, ±10%
Wireless Communications		
Wi-Fi	Via half mini PCIe Card (Optional)	Via half mini PCIe Card (Optional)
3G	Via half mini PCIe Card (Optional)	Via half mini PCIe Card
Certifications		
Safety	CE, FCC	CE, FCC

Digital Signage Box PC

x86 Box PC

Custom configuration

3G

3G Module



Additional
Storage



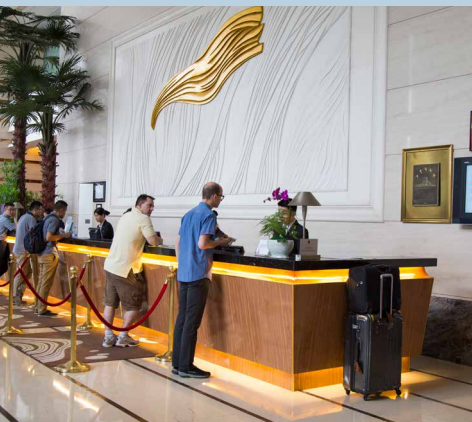
Wi-Fi



RS232C



Application



Hotel Lobby

"DISPLAY ONLY
RELEVANT
INFORMATION."

Winmate embedded signage box PC with Wi-Fi module and chassis display were installed in a hotel lobby to display current exchange rate, weather information and advertisement.

**“ BROADCAST ONLY
RELEVANT CONTENT. ”**

- Intel Atom® D2550
- Intel® Celeron® N2930
- 4th Gen. Intel® Core™ i5
- Flexible storage devices
- Content syncronization with Zone Sync

Two USB 2.0

VGA, RS232

RJ45 for Ethernet

MPEG 1/2/4, AVI, WMV, Divx, Xvid

MP3, WAV, WMA

JPEG, BMP, PNG

Operating temperature 0°C to 45°C

Accessories

Power Cord

AC Adapter

Driver CD

Content Management Software

DVI Cable

Digital Signage Box PC

4th Gen. Intel® Core™ i5

Intel® Celeron® N2930

Intel Atom® D2550



Model Name	MSS970-I1	MSS970-IB	MSS970-IH
System			
Processor	Intel Atom® D2550 (1M Cache, 1.86 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.10 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Chipset	NM10	Intel® SoC Integrated	Intel® 8 series Chipset (Q 87)
Memory	Dual DDR3 800/1066 MHz SO-DIMM Slot, Max.4GB	Dual DDR3L 1066/1333 MHz SO-DIMM Slot, Max. 8GB	2 x SODIMM, Max 16GB DDR3L 1333/1600 z (Default 4GB)
Ethernet	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210IT Gigabit-LAN Controller+ I218LM Gigabit-LAN PHY
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
File Support			
Video	MPEG 1/2/4, AVI, WMV, Divx, Xvid	MPEG 1/2/4, AVI, WMV, Divx, Xvid	MPEG 1/2/4, AVI, WMV, Divx, Xvid
Audio	MP3, WAV, WMA	MP3, WAV, WMA	MP3, WAV, WMA
Images	JPG, BMP, PNG, GIF	JPG, BMP, PNG, GIF	JPG, BMP, PNG, GIF
Flash	SWF, FLV	SWF, FLV	SWF, FLV
MS PowerPoint	PPT (Slide show)	PPT (Slide show)	PPT (Slide show)
HTML	HTML	HTML	HTML
Connectors			
USB	2 x USB 2.0	2 x USB 2.0, 1 x USB 3.0	2 x USB 2.0, 1 x USB 3.0
Serial Interface	2 x RS232 1 x RS232(Optional) 1 x RS232/422/485 (Default RS232)	3 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232) 1 x RS232 (Optional)
Power	1 x DC-IN Power Jack	1 x DC-IN Power Jack	1 x DC-IN Power Jack
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
VGA	1 x VGA 15p DSUB (Female)	1 x VGA 15p DSUB (Female)	1 x VGA 15p DSUB (Female)
Audio	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Mouse/Keyboard	2 x PS/2	2 x PS/2	2 x PS/2
User Controls			
LED	1 x Power/HDD LED	1 x Power/HDD LED	1 x Power/HDD LED
Control Buttons	1 x Power Reset Button 1 x Power on Button	1 x Power Reset Button 1 x Power on Button	1 x Power Reset Button 1 x Power on Button
Power			
Power Input	12V DC (Lockable, Power Jack)	12V DC (Lockable, Power Jack)	12V DC (Lockable, Power Jack)
Power Consumption	5W (Typ.)	5W (Typ.)	5W (Typ.)
Environment			
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 50°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Wireless Communications			
Wi-Fi	Via half mini PCIe Card (Optional)	Via half mini PCIe Card (Optional)	Via half mini PCIe Card (Optional)
3G	Via half mini PCIe Card (Optional)	Via half mini PCIe Card (Optional)	Via half mini PCIe Card (Optional)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

42"/55" OPS Panel PC

OPS Solution

Custom configuration



Additional
Storage



3G Module



SAW Touch



Wi-Fi



**“ BETTER VISUALIZATION FOR
ADVERTISING. ”**

Application



Group Video Conferencing

“LESS CABLES. MORE SPACE.”

Winmate's big screen OPS panel PC is a simple and elegant solution for group video conferencing application. Simple installation and setup paired with Android operating system for easy configuration.

- 42"/ 55" screen
- Intel® Core™ i5-5250U
- Arm Cortex-A9
- Built-in OPS

Fanless cooling system

Mini D-Sub, 1 x RCA L/R in/out, DVI in/out

HDMI, Display Port 1.2

Component video input

RS232 in/out, RJ45 for Ethernet

VESA mount

Operating temperature 0°C to 45°C

Accessories

Power Cord

AC Adapter

Driver CD

OPS Panel PC

Intel® Core™ i5-5250U
Arm Cortex-A9



Model Name	42" (16:9)	42" (16:9)	55" (16:9)	55" (16:9)
	W42L100-OML2/OMIW	W42L100-OML2/OMFA	W55L100-OML2/OMIW	W55L100-OML2/OMFA
Display				
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Panel Brightness	500 nits	500 nits	500 nits	500 nits
Contrast Ratio	1300:1 (Typ.)	1300:1 (Typ.)	1300:1 (Typ.)	1300:1 (Typ.)
Viewing Angle	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
Touch	SAW touch	SAW touch	-	-
System				
Processor	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
BIOS	AMI BIOS	-	AMI BIOS	-
Memory	4GB SO-DIMM DDR3 1600, up to 8GB	1GB DDR3	4GB SO-DIMM DDR3 1600, up to 8GB	1GB DDR3
Storage	2.5" HDD 500GB	Onboard 16GB eMMC (Default), 2.5" SATA HDD/SSD (Optional)	2.5" HDD 500GB	Onboard 16GB eMMC (Default), 2.5" SATA HDD/SSD (Optional)
Ethernet	Intel® Gigabit-LAN DHY I218	Gigabit Ethernet LAN	Intel® Gigabit-LAN DHY I218	Gigabit Ethernet LAN
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
OS	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Android 4.4	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Android 4.4
Display Connectors				
Mini D-sub	1 x Mini D-sub 15pin In	1 x Mini D-sub 15pin In	1 x Mini D-sub 15pin In	1 x Mini D-sub 15pin In
RCA	1 x RCA L/R In, 1 x RCA L/R Out	1 x RCA L/R In, 1 x RCA L/R Out	1 x RCA L/R In, 1 x RCA L/R Out	1 x RCA L/R In, 1 x RCA L/R Out
DVI	1 x DVI-D In, 1 x DVI-I Out	1 x DVI-D In, 1 x DVI-I Out	1 x DVI-D In, 1 x DVI-I Out	1 x DVI-D In, 1 x DVI-I Out
Audio	Line-in, Line-out	Line-in, Line-out	Line-in, Line-out	Line-in, Line-out
Component	1 x Component Video In	1 x Component Video In	1 x Component Video In	1 x Component Video In
RS232	1 x RS232 In, 1 x RS232 Out	1 x RS232 In, 1 x RS232 Out	1 x RS232 In, 1 x RS232 Out	1 x RS232 In, 1 x RS232 Out
HDMI	1 x HDMI In	1 x HDMI In	1 x HDMI In	1 x HDMI In
LAN	1 x LAN	1 x LAN	1 x LAN	1 x LAN
Display Port	1 x Display port 1.2	1 x Display port 1.2	1 x Display port 1.2	1 x Display port 1.2
OPS Module Connectors				
Ethernet	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
USB	2 x USB 3.0	1 x USB OTG, 2 x USB 2.0	2 x USB 3.0	1 x USB OTG, 2 x USB 2.0
Audio	Line-in, Line-out	Line-in, Line-out	Line-in, Line-out	Line-in, Line-out
Control Buttons	Reset, Power	-	Reset, Power	-
Power				
Power Consumption	130W (Typ.)	130W (Typ.)	140W (Typ.)	145W (Typ.)
Power Input	110~240V AC	110~240V AC	110~240V AC	110~240V AC
Mechanical				
Dimensions	947 x 541 x 56.8 mm	947 x 541 x 56.8 mm	1228 x 689.9 x 71.1 mm	1228.1 x 698.9 x 71.1 mm
Mounting	VESA Mount (200 x 200 mm)	VESA Mount (200 x 200 mm)	VESA Mount (200 x 200, 400 x 200 mm)	VESA Mount (200 x 200, 400 x 200 mm)
Environment				
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	20% to 80% (Non-condensing, RH)	20% to 80% (Non-condensing, RH)	20% to 80% (Non-condensing, RH)	20% to 80% (Non-condensing, RH)
Wireless Communications				
Wi-Fi	Optional	Optional	Optional	Optional
3G	Optional	Optional	Optional	Optional
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

OPS Module

OPS Solution

Custom configuration



Additional
Storage



3G Module



Wi-Fi



Application



Lecture Theatre Learning

"STREAMLINED
DEPLOYMENT AND QUICK
INSTALLATION."

Winmate's OMFA-OPS module was deployed in the lecture hall in one of the universities in Taiwan. Easy to deploy OPS system allowed quick installation and seamless integration with already installed equipment.

**“ STREAMLINE DIGITAL
SIGNAGE APPLICATIONS. ”**

- Intel® Core™ i5-5250U
- Arm Cortex-A9
- Windows 10/8/7
- Android 4.4
- Built-in OPS

JAE 80 pin connector

500GB 2.5" HDD

USB 3.0

RJ45 for Ethernet

Two audio phone jack (Line in/Line out)

Operating temperature 0°C to 50°C

Accessories

Driver CD

OPS Module

Intel® Core™ i5-5250U
Arm Cortex-A9



Model Name	OMIW-OPS	OMFA-OPS
System		
Processor	Intel® Core™ i5-5250U (3M Cache, up to 2.70 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
BIOS	AMI BIOS	-
Memory	SO-DIMM DDR3L-1600, up to 8GB (Default 4GB)	DDR3 1GB
Storage	Removable 2.5 SATA Drive Bay (Default 2.5" HDD 500GB)	Onboard 16GB eMMC (Default) 1 x 2.5" SATA HDD/SSD (Optional)
Ethernet	Intel® Gigabit-LAN DHY I218	Gigabit Ethernet LAN
Audio	Realtek HD Audio Codec	-
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Android 4.4
Connectors		
Ethernet	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
USB	2 x USB 3.0	2 x USB 2.0 1 x USB 2.0 OTG
Display Port	1 x Display Port 1.2	-
Audio	Line-in, Line-out	Line-in, Line-out
Control Buttons	1 x Power button 1 x Reset button	1 x Power button 1 x Reset button
Internal		
Mini PCIe	1 x Mini PCIe (For Wi-Fi or 3G module)	1 x Mini PCIe (For Wi-Fi or 3G module)
Rear Side		
OPS Interconnector	1 x JAE 80Pin connector (Follows OPS standard)	1 x JAE 80Pin connector (Follows OPS standard)
Environment		
Operating Temp.	0°C to 55°C	-10°C to 60°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
Mechanical		
Dimensions	200 x 30 x 118 mm (OPS compliant)	200 x 30 x 118 mm (OPS compliant)
Mounting	OPS Standard	OPS Standard
Cooling System	System fan	Fanless design
Power		
Power Input	12~19V DC (Via OPS interconnection)	12~19V DC (Via OPS interconnection)
Power Consumption	25W (Burn-in test)	10W (Burn-in Test)
Certifications		
Safety	CE, FCC	CE, FCC



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