

# UNO-127

Compact, Fanless Edge Controller with Intel® Atom® Processor, 64GB eMMC, 2 x LAN, 2 x USB, and 1 x HDMI



## Features

- Intel® Atom® quad-core x6413E processor
- 4 GB/8 GB DDR4 onboard memory
- Compact, robust, fanless, cable-free design with high stability
- Optimized I/O with 2 x GbE, 2 x USB, 1 x HDMI
- Full-size mPCIe port onboard for flexible expansion
- Built-in TPM2.0 for hardware-based security
- Isolated grounding system
- IEC 61010 certified for industrial applications

## Introduction

Advantech's UNO-100 series of integrated DIN-rail controllers feature a modular design for flexible configuration according to specific usage requirements.

The UNO-127 model is equipped with an Intel® Atom® x6413E processor, 4 GB or 8 GB DDR4 RAM, 64 GB eMMC storage, 2 x LAN, 2 x USB, and 1 x HDMI, as well as 1 x full-size mini PCIe for expansion. IEC 61010-1 certified for industrial use, UNO-127 can also be equipped with an optional second-stack extension kit that supports additional 4 x COM ports and 1 x M.2 B key for extending the system I/O and wireless connectivity capabilities.

## Specifications

### General

- **Certification** CE, FCC, UL, CCC, BSMI
- **Dimensions (W x D x H)** 33.5 x 70 x 100 mm/1.3 x 2.8 x 3.9 in
- **Form Factor** Pocket sized
- **Enclosure** Aluminum
- **Mount Options** DIN-rail
- **Net Weight** 0.5 kg/1.1 lb
- **Power Requirement** 10 ~ 30V<sub>DC</sub>
- **Power Consumption** 15.8W (typical), 35W (max.)
- **Operating System** Windows 10 LTSC, Windows 11, Ubuntu 20.04, Ubuntu Core 20
- **Software Compatibility** Canonical Ubuntu Core 20 certification  
WISE-DeviceOn  
WISE IoT Edge

### System Hardware

- **BIOS** AMI EFI X64
- **Watchdog Timer** Programmable timer with 255 intervals (1 ~ 255 sec)
- **Processor** Intel® Atom® x6413E quad-core, 1.5 GHz
- **Memory** 4 GB/8 GB DDR4 2666 MHz onboard
- **Graphics Engine** Intel® UHD Graphics
- **Ethernet** 2 x Intel i210IT
- **LED Indicators** Power, Run (programmable), LAN (Active, Status)
- **Storage** 64 GB eMMC onboard (up to 256 GB upon request); optional mSATA shared with mPCIe slot
- **Expansion** 1 x Full-size mPCIe slot (SATA/PCIe/USB2.0 signal)
- **Hardware Security** TPM2.0 (Library Reversion 1.38)

### I/O Interfaces

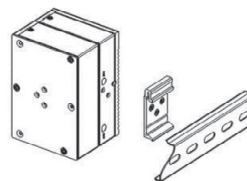
- **LAN** 2 x RJ45, 10/100/1000 Mbps IEEE 802.3u  
1000BASE-T Fast Ethernet
- **USB** 2 x USB 3.2 (Gen 1)
- **Display Output** 1 x HDMI (1920 x 1080 @60Hz)
- **Power Connector** 1 x 2-pin terminal block

### Environment

- **Operating Temperature** -20 ~ 60 °C/-4 ~ 140 °F @ 5 ~ 85% RH with 0.7 m/s
- **Storage Temperature** -40 ~ 85 °C/-40 ~ 185 °F
- **Relative Humidity** 10 ~ 95% RH @ 40 °C/104 °F, non-condensing
- **Shock Protection** Operating, IEC 60068-2-27, 50G, half sine, 11 ms
- **Vibration Resistance** Operating, IEC 60068-2-64, 2 Grms, random, 5 ~ 500 Hz, 1hr/axis (mSATA)
- **IP Rating** IP30

## Installation Scenario

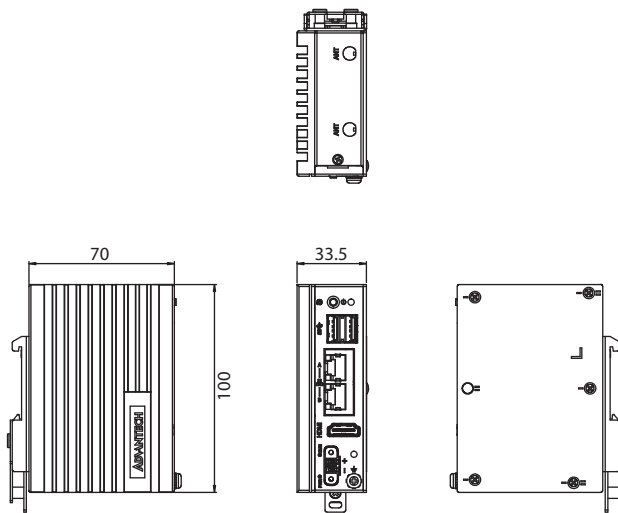
### DIN-rail Mount



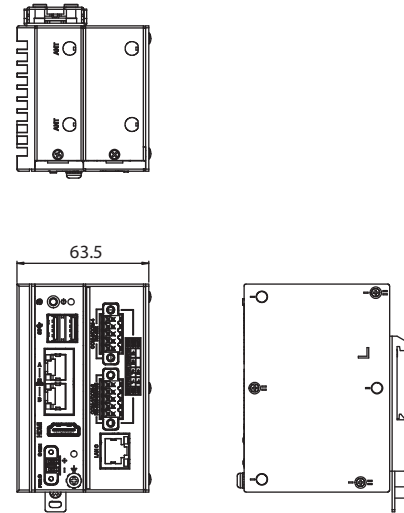
## Dimensions

Unit: mm

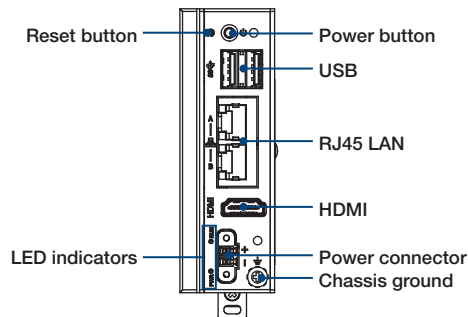
base unit



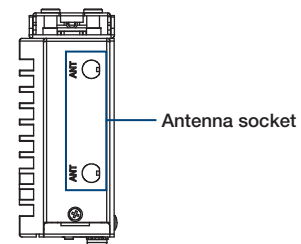
with extension kit



## Front I/O



## Top I/O



## Ordering Information

- **UNO-127-E22BA** Intel® Atom® x6413E quad-core CPU, 4 GB RAM, 2 x GbE, 2 x USB, 1 x mPCIe, 1 x HDMI, 64 GB eMMC
- **UNO-127-E23BA** Intel® Atom® x6413E quad-core CPU, 8 GB RAM, 2 x GbE, 2 x USB, 1 x mPCIe, 1 x HDMI, 64 GB eMMC

## Embedded O/S

- **20704WX9ES0000** WIN10 IoT Enterprise 2019 x64 LTSC v6.07 B005
- **20704WX1ES0001** WIN10 IoT Enterprise 2021 x64 LTSC v6.08 B009
- **20704U20CS0000** Ubuntu Core 20 - Intel IOTG version\_20211213
- **20704U20DS0000** Ubuntu Desktop - Intel IOTG version\_20211203
- **20704U20DS0001** AdvLinuxTu V3.0.4 for UNO series

## Optional Accessories

### DIN-Rail Power Supply

- **UNO-IPS2460-AE** A/D 100-240V 60W 24V DIN-rail power supply
- **96PSD-A60W24-MM** A/D 100-240V 60W 24V MDR DIN-rail power supply

### Adapters & Power cords

- **PWR-247-DE** 60W AC to DC UNO series power adapter
- **1702002600** Power Cable US Plug 1.8 M
- **1702002605** Power Cable EU Plug 1.8 M
- **1702031801** Power Cable UK Plug 1.8 M
- **1700000596-11** Power Cable China/Australia Plug 1.8 M

### Wi-Fi Module (mPCIe) and Antenna

- **EWM-W193H01E** Wifi 802.11ac/a/b/g/n, Bluetooth 5.0
- **9656EWMG00E** Half-to-full-size mPCIe bracket
- **1750008800-01** Coaxial cable for antenna L100mm
- **1750008717-01** Antenna L=10.9 cm 50 Ohm

### LTE Module (mPCIe) and Antenna

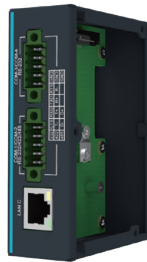
- **968AD00589** Quectel EG25G LTE Module Cat. 4, mPCIe with sim holder
- **1750007990-01** Antenna 4G/LTE full band L=11 cm 50 Ohm
- **1750006264** SMA(F)/MHF cable, 15cm

# Stackable Extension Kits

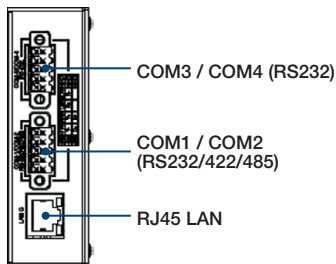


## UNO-127-RS1EA

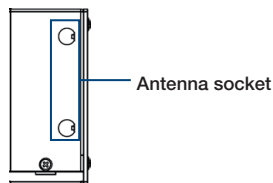
Second stack module with 4 x COM,  
1 x LAN, 1 x M.2 B key



### Front I/O



### Top I/O



### Specifications

General	
I/O	2 x isolated RS-232/422/485, terminal block 2 x isolated RS-232, terminal block 1 x RJ45, 10/100/1000 Mbps IEEE 802.3u
Expansion	1 x M.2 B Key (SATA/ USB 3.0 signal)
SIM Slot	1 x nano SIM Slot
Dimensions (W x D x H)	30 x 70 x 100 mm
Weight	145g
Environment	
Operating Temperature	-20~ 60 °C

### Ordering Information

Part Number	Description
UNO-127-RS1EA	UNO-127 2nd stack with 4 x COM, 1 x LAN, 1 x M.2 B key

### Optional Accessories

#### LTE Wireless module (M.2 B key) & antenna

Part Number	Description
968AD00590	Quectel EM06-E LTE Cat-6 M.2 module (EMEA/Brazil/APAC)
1750008879-01	RF SMA cable for LTE(150mm)
1750008303-01	Antenna

#### 5G NR Sub6 Wireless module(M.2 B Key) & antenna

Part Number	Description
AIW-355-DQ-E01	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for EU
AIW-355-DQ-N01	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for US
AIW-355-DQ-C01	5G(Sub-6G)/LTE/WCDMA module, with GNSS, for China
1750008569-01	Coaxial Cable, 300 mm/11.8 in, SMA (F) to MFH4
1750009372-01	5G(Sub-6G)/LTE/WCDMA full band dipole antenna
UNO-M2-3052HS	M.2 3052 B key heat sink kit for 5G module

# Tento produkt můžete zakoupit u společnosti AutoCont IPC a.s.



## AutoCont IPC a.s.

Váš dodavatel průmyslových počítačů, komponent a speciálních průmyslových IT systémů.

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 [www.autocont-ipc.cz](http://www.autocont-ipc.cz)



### PRŮMYSLOVÉ POČÍTAČE

*fanless embedded PC, do racku, ...*



### POČÍTAČE S DISPLEJEM

*panelové PC, terminály, do vozidel, ...*



### AUTOMATIZACE A SBĚR DAT

*převodníky, karty, moduly, switche, ...*



### PERIFERIE A KOMPONENTY

*monitory, klávesnice, desky, skříně, ...*



### NOTEBOOKY A TABLETY

*odolné, windows, android, IP65, ...*



### INFORMAČNÍ KIOSKY

*interiérové, venkovní, ...*



### MEDICÍNSKÁ TECHNIKA

*počítače, tablety, LCD, klávesnice, ...*



### SOFTWAREVÁ ŘEŠENÍ

*pro výrobu, zaměstnance, kiosky, ...*



### PŘEJÍT DO E-SHOPU

[eshop.autocont-ipc.cz](http://eshop.autocont-ipc.cz)



### DOPRAVA ZDARMA

Doprava zdarma v ČR a SR při objednávce nad 10 000 Kč bez DPH nebo nad 400 EUR.



### PRODLOUŽENÁ ZÁRUKA

Záruka 2 roky na vyráběné počítače s možností jejího prodloužení až na 5 let.



### ODMĚNA ZA VĚRNOST

Pravidelní zákazníci u nás nakupují za nižší ceny. Výše slevy se odvíjí od realizovaného obrátu.



### SERVIS ON-SITE A IN-TIME

K projektovým dodávkám nabízíme rozšířenou podporu a servis s garancí výměny zařízení do 48 hodin.