

IRDRW500

AI DIN Rail Box PC with Intel® Core™ i5-1335U



CE

FCC

KEY FEATURES

- Intel® Raptor Lake Core™ i5-1335U 3.3GHz (up to 4.40 GHz)
- 1 x SO-DIMM DDR5 Memory, up to 32GB
- 4 x 2.5 Giga LAN, 4 x RS232/422/485
- 2 x USB 3.2 Gen 2x1, 1 x USB3.2 Gen1x1, 1 x USB2.0
- Isolated DIO (8-in/8-out)
- Wide Range 9V to 36V DC Power Input with Isolation
- Wide Operating Temperature range from -20°C to +60°C
- DIN-Rail type Edge Computing

INTRODUCTION

Winmate DIN Rail Edge AI Computing empowers industries with advanced AIoT capabilities by combining powerful processors, integrated AI acceleration, and robust connectivity. Designed for diverse applications such as manufacturing, healthcare, and smart cities, it supports seamless cloud integration and AI-assisted analytics for real-time insights. With optional support for Intel®, Hailo AI chips, and NVIDIA GPUs, along with low-latency AI inferencing and rugged designs, Winmate's solutions offer scalability, efficiency, and adaptability, redefining performance standards for AI-driven industrial IoT.

SPECIFICATIONS

System Specification

Processor	Intel® Core™ i5-1335U 3.3GHz(up to 4.40 GHz)	Memory	1 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional) 32GB (Optional)
Storage	1 x M.2 2280 M-Key NVMe SSD 256GB 512GB (Optional) 1TB (Optional) 2TB (Optional)	Ethernet controller	4 x Intel® 2.5 Gigabit Ethernet Controller
Security	TPM 2.0	Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)
WLAN	Support (Optional)	BT	Support (Optional)
WWAN	Support (Optional)	Expansion Port	1 x M.2 2230 E-key Slot (for WiFi or Hailo8 AI Accelerator) 1 x M.2 2280 M-key Slot (for NVMe SSD) 1 x M.2 3042/3052 B-key Slot (for 4G/5G)
AI Accelerator	Hailo 8™ AI accelerator module, up to 26 TOPS(When using this feature, WLAN will not be supported) (Optional)		

Mechanical

Dimension	130 x 68 x 150 mm	Weight	1.5 kg
Mounting	Din-Rail mount Mini Din-Rail Mount (Optional) Wall Mount (Optional)	Enclosure	Aluminum and Metal Housing
Cooling System	Fan Design		

Environment

Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-40°C to 70°C	Shock	MIL-STD-810G Method 516.6 Procedure I (Optional)
Vibration	MIL-STD-810G Method 514.6 Procedure I		

Certification

Certification	CE, FCC
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IO Ports

Power Input	1 x Isolated 9~36V DC with 3-Pin Terminal Block	USB Port	2 x USB3.2 Gen2x1 (10Gbps, Type A) 1 x USB3.2 Gen1x1 (5Gbps, Type A) 1 x USB2.0 (Type A)
Serial Port	2 x Isolated RS-232/422/485 (1 x 10 Pin terminal block, select thru jumper) (Default RS232) 2 x Isolated RS-232/422/485 (2 x DB9, select thru BIOS) (Default RS232)	SIM Card Slot	1 x nano SIM Card slot (Optional)
Video	2 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz (Optional)	Audio	Mic in Line out
Expansion Port	1 x M.2 2230 E-key Slot (for WiFi or Hailo8 AI Accelerator) 1 x M.2 2280 M-key Slot (for NVMe SSD) 1 x M.2 3042/3052 B-key Slot (for 4G/5G)	LAN	4 x 2.5 Giga LAN RJ45 Connector
Indicator	1 x LED Indicator for power	DIDO	1 x Isolated 8in/8out DIO with 20-Pin Terminal block : 8 x Digital input channels with 2500 VDC isolation protection - Wet contact: Logic 0: 10 ~ 30 VDC/ Logic 1: 0 ~ 3 VDC - Dry contact: Logic 0: Shorted to GND/ Logic 1: Open 8 x Digital output channels - Output voltage: 5 ~ 30 VDC - Output capability sink: 500 mA ax./channel

Control

Button	1 x Power Button with LED Indicator
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Accessory

Accessory	1 x 100~240V AC to DC Adapter 1 x Power Cord 1 x Terminal Block 20-pin connector for DIDO 1 x Terminal Block 3-pin connector for Power 1 x Terminal Block 10-pin connector for COM 1 x Open Wire Cable 1 x Terminal Block 3-pin to 2.5Ø Female Adapter Cable 1 x Din Rail Mount kits	Optional Accessory	1 x Mini Din Rail Mount kits (Optional) 1 x Wall Mount kits (Optional)
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Power

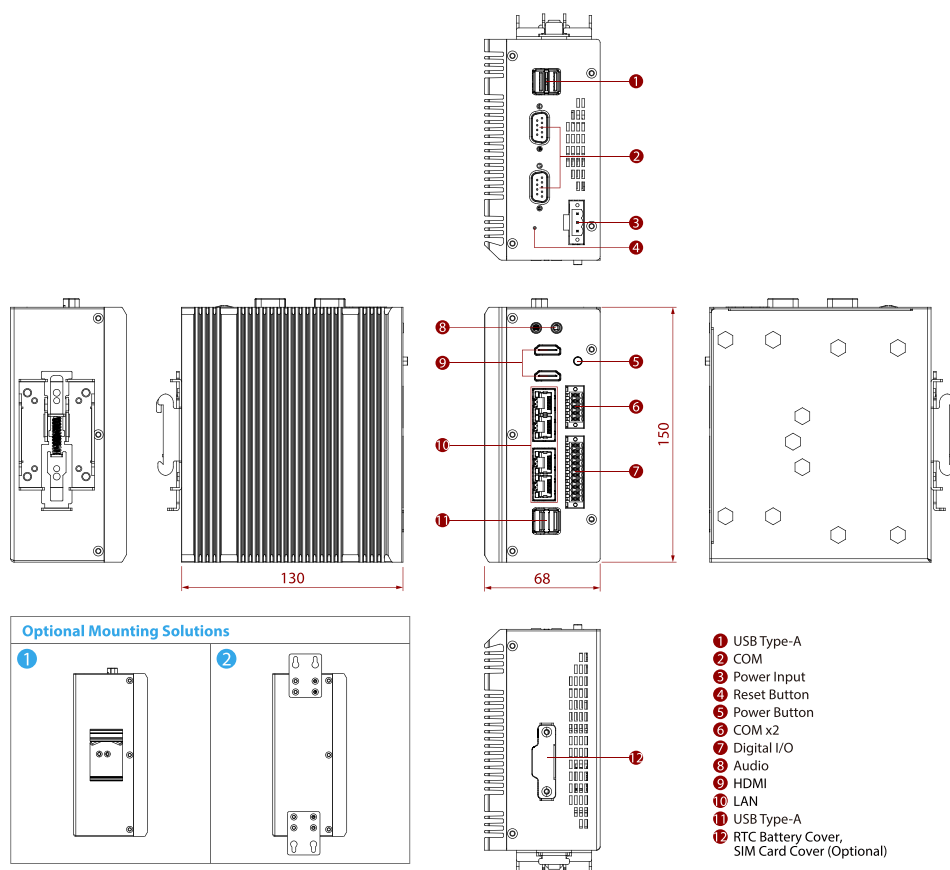
Power Rating	9V to 36V DC with isolation, 3-Pin Terminal Block	Adapter	12V 120W
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DIMENSIONS UNIT:MM

NOTE

1.This is a simplified drawing and some

components are not marked in detail.
 2. Please contact our sales representative if you need further product information.
 3. All specifications are subject to change without prior notice.
 4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.



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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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.