

IRDRW500

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



KEY FEATURES

- Intel® Raptor Lake Core™ i5-1335U 3,3 GHz (bis zu 4,40 GHz)
- 1 x SO-DIMM DDR5-Speicher, bis zu 32 GB
- 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
- Isolierte DIO (8-in/8-out)
- Weitbereich 9 V bis 36 V DC-Stromeingang mit Isolierung
- Weitbereich für Betriebstemperaturen von -20 °C bis +60 °C
- DIN-Rail-Typ Edge-Computing

INTRODUCTION

Winmate DIN Rail Edge AI Computing stattet Branchen mit erweiterten AIoT-Funktionen aus, indem es leistungsstarke Prozessoren, integrierte KI-Beschleunigung und robuste Konnektivität kombiniert. Es wurde für unterschiedliche Anwendungen wie Fertigung, Gesundheitswesen und Smart Cities entwickelt und unterstützt nahtlose Cloud-Integration und KI-gestützte Analysen für Echtzeiteinblicke. Mit optionaler Unterstützung für Intel®, Hailo AI-Chips sowie KI-Inferenzierung mit geringer Latenz und robusten Designs bieten die Lösungen von Winmate Skalierbarkeit, Effizienz und Anpassungsfähigkeit und definieren Leistungsstandards für KI-gesteuertes industrielles IoT neu.

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 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	Fanless 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.

