



IRDRW500 AI DIN Rail Box PC with Intel(R) Core(TM) i5-1335U

Manufacturer part number: IRDRW500 | Box PC / Waterproof Rugged PC IP65



Explore Winmate IRDRW500, an edge AI computer featuring Intel(R) Core(TM) i5-1335U for machine vision and edge AI inference.

System Specification	
Processor	Intel(R) Core(TM) i5-1335U 3.3GHz(up to 4.40 GHz)
Memory	8GB (Default), 16GB (Optional), 32GB (Optional)
Storage	128GB SSD (Default), 256GB SSD (Optional), 512GB SSD (Optional), 1TB (Optional), 2TB (Optional), 4TB (Optional), Raid 0,1 support (Optional)
Ethernet controller	4 x Intel(R) 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(TM) 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	2.7 kg
Mounting	Din-Rail mount (Default), 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 deg C to 60 deg C
Storage Temperature	-40 deg C to 70 deg C
Shock	MIL-STD-810H Method 516.8 Procedure I (Optional)
Vibration	MIL-STD-810H Method 514.8 Procedure I
Certification	
Certification	CE, FCC

IO Ports	
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)
LAN	4 x 2.5 Giga LAN RJ45 Connector
Video	2 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz (Optional)
Audio	Mic in, Line out
SIM Card Slot	1 x nano SIM Card slot (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)
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
Power Input	1 x Isolated 9~36V DC with 3-Pin Terminal Block
Control	
Button	1 x Power Button with LED Indicator
Accessory	
Accessory	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 2.50 Female Adapter Cable, 1 x Din Rail Mount kits
Optional Accessory	1 x 100~240V AC to DC Adapter(12V, 120W), 1 x Power Cord, 1 x Mini Din Rail Mount kits, 1 x Wall Mount kits
Power	
Power Rating	9V to 36V DC