

R12IAN3S-CHM2WT

12.1" Wide Temperature Chassis Panel PC with Intel® Processor N150



KEY FEATURES

- 12.1-inch XGA TFT LCD
- Intel® Alder Lake-N N150 Processor
- 1 x SO-DIMM, max. 16GB
- 2 x 2.5 Gigabit Ethernet
- Supports 1 x HDMI, 1 x USB 3.2 Type-C with DP-Alt, 2 x USB 3.2 Gen 2 Type-A, 4 x USB 2.0, 4 x COM
- Wide Temperature Chassis Panel PC
- Supports VESA Mount

INTRODUCTION

The R12IAN3S-CHM2WT is a rugged 12.1-inch wide-temperature chassis panel PC powered by the Intel® Alder Lake-N N150 processor, delivering reliable performance for industrial HMI and automation applications. It ensures seamless equipment integration with dual 2.5GbE LAN and versatile I/O options, including USB Type-C with DP-Alt support. Built with a durable resistive touch screen and VESA mount readiness, this system guarantees resilient, long-term operation in demanding environments.

SPECIFICATIONS

Display

Resolution	1024x768	Size	12.1 inches
Contrast Ratio	1000:1	Panel Brightness	500.0 nits
View Angles	89,89,89,89	Active Area	245.76x184.32 mm
Touch / Glass	Resistive Touch Screen (Optional) Protection Glass Without Touch Function (Optional)		

System Specification

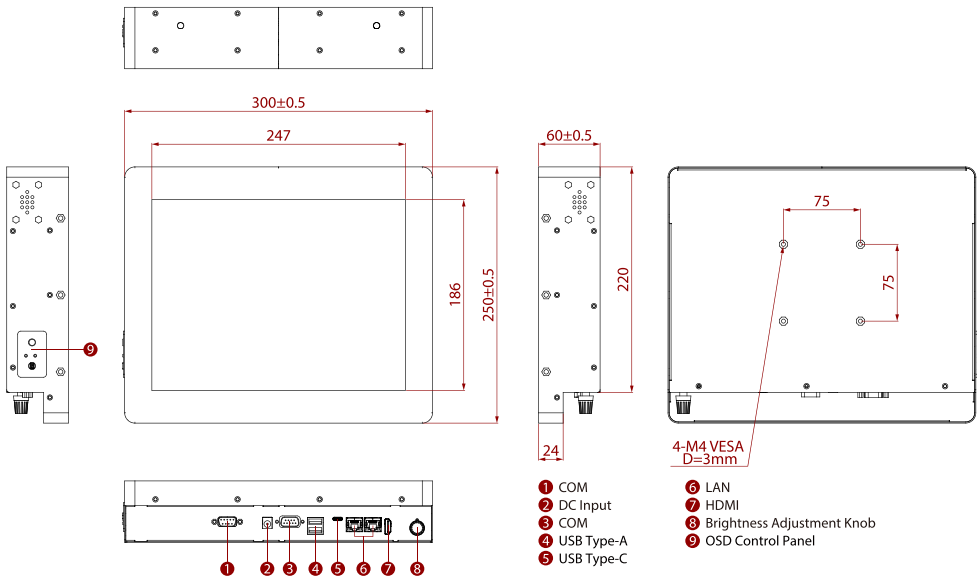
WLAN	Support (Optional)	BT	Support (Optional)
Processor	Intel® Processor N150 6M Cache, up to 3.60 GHz	Memory	8GB (Default) 16GB (Optional)
Storage	128GB SSD (Default) 256GB SSD (Optional) 512GB SSD (Optional) 1TB (Optional) 2TB (Optional) 4TB 1 x SATA III for 2.5" SSD/HDD up to 2TB (Only available when NVME SSD is not present) (Optional)	Ethernet controller	2 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 24.04 (Do not support Wake on Touch) (Optional)

Mechanical

Dimension	303 x 217 x 60 mm	Weight	3.5 kg
Mounting	VESA mount	Enclosure	Metal Housing

Cooling System		Fanless Design	
Environment			
Operating Humidity	30% to 90% RH, Non-Condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-25°C to 65°C		
Certification			
Certification	CE, FCC		
IO Ports			
Power Input	1 x 12V DC, 2.5φ DC jack	USB Port	2 x USB3.2 Gen1x1 (Type-A) 1 x USB 3.2 Gen 2x1 Type C connector,support DP Alt. mode
Serial Port	1 x RS232/422/485 (Default RS232) 1 x RS232	Video	1 x HDMI 2.0b (Optional)
Audio	2 x Speaker	Expansion Port	1 x M.2 2230 E-Key Slot (for Wi-Fi module)
LAN	2 x 2.5 Giga LAN RJ45 Connector	Indicator	1 x LED Indicator for power 1 x LED Indicator for storage
Brightness Knob	1 x Brightness Adjustment Knob		
Control			
Button	1 x Power Button 1 x Reset Button		
Accessory			
Accessory	100~240V AC to DC Adapter Power Cord VESA screws		
Power			
Power Rating	12V DC	Adapter	12V 50W

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.
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