

R12IAN3S-IPM2WT

12.1" Wide Temperature Front IP65 Panel PC with Intel® Processor N150



CE

FC

KEY FEATURES

- 12.1-inch XGA TFT LCD
- Intel® Twin Lake 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 Front IP65 Panel PC
- Supports VESA Mount and Panel Mount

INTRODUCTION

Winmate Front IP65 Panel PC Series combines robust performance with a waterproof front design, making it ideal for wet and dusty environments like factory automation, outdoor kiosks, and poolside installations. Available in sizes from 5.7" to 24", these panel PCs support various operating systems and processors. The intuitive touchscreen options and a compact, narrow bezel enhance usability, while the IP65-rated front and easy installation design ensure durability and reliability in industrial and outdoor applications.

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

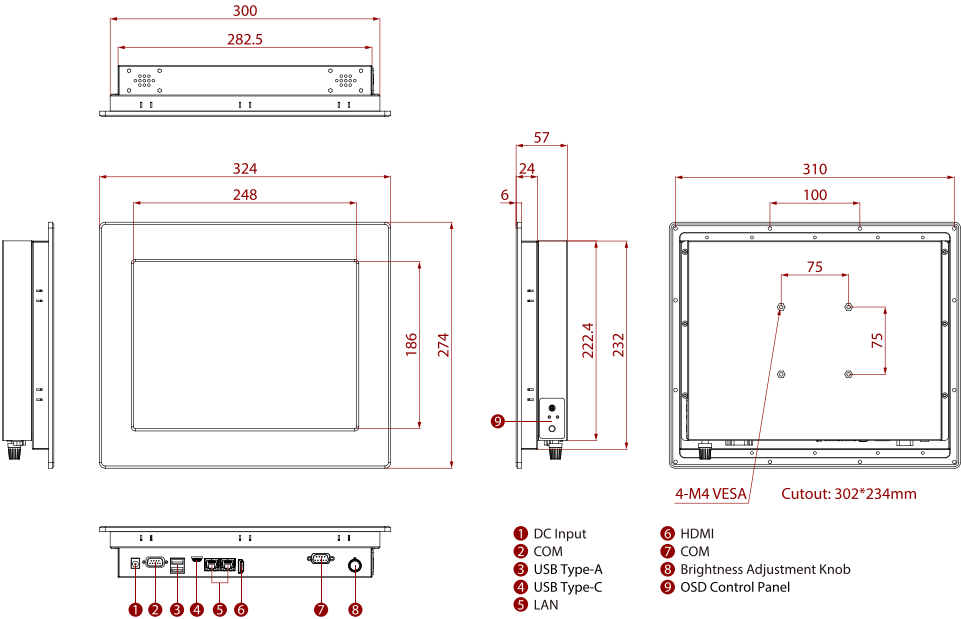
WLAN	Support (Optional)	BT	Support (Optional)
Processor	Intel® Processor N150 6M Cache, up to 3.60 GHz	Memory	8GB (Default) 16GB (Optional)
Storage	128GB SSD (Default) 256GB SSD (Optional) 512GB SSD (Optional) 1TB (Optional) 2TB (Optional) 4TB 1 x SATA III for 2.5" SSD/HDD up to 2TB (Only available when 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	324 x 274 x 57 mm	Weight	2.6 kg
Mounting	Panel mount (Default)	Enclosure	Metal Housing

	VESA mount (Optional)		
Cooling System	Fanless Design	Cut out	303 x 234.5 mm
Environment			
Operating Humidity	30% to 90% RH, Non-Condensing	Operating Temperature	-20°C to 60°C
Storage Temperature	-30°C to 70°C	IP rating	Front IP65
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 Mounting clips		
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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