R12IAN3S-IPM2

12.1" Intel® Alder Lake-N N100 Front IP65 Panel PC

CE

FC

KEY FEATURES

- 12.1" XGA TFT LCD
- Intel® Alder Lake-N N100 Processor
- 1 x SO-DIMM DDR5-4800, 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
- 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.
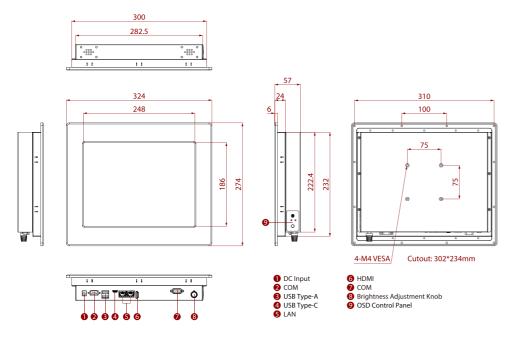
SPECIFICATIONS

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 N100 6M Cache, up to 3.40 GHz	Memory	1 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional)
Storage	1 x M.2 2280 M-Key NVMe SSD 128GB 256GB (Optional) 512GB (Optional) 1TB (Optional) 2TB (Optional) 4TB (Optional) 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 10 Pro 64 bit (Optional) 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

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Mounting	Panel mount VESA mount (Optional)	Enclosure	Metal Housing
Cooling System	Fanless Design	Cut out	303 x 234.5 mm

Environment

Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to 60°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 2280 M-Key Slot (for NVMEI SSD) 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

① DC Input
② COM
③ USB Type-A
④ USB Type-C
⑤ LAN
⑥ HDMI
⑦ COM
⑧ Brightness Adjustment Knob
⑨ OSD Control Panel

4-M4 VESA   Cutout: 302*234mm

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.