

# R12IAN3S-OFM2

12.1" Intel® Alder Lake-N N100 Open Frame Panel PC



## 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
- Supports VESA Mount

## INTRODUCTION

Winmate Open Frame Panel PC Series delivers versatility and performance for diverse industrial applications. Available in sizes from 5.7" to 24", these wide, rectangular panel PCs support multiple operating systems and advanced processors for seamless integration. Featuring resistive and PCAP touch options, they offer precise and intuitive operation. The open-frame design ensures easy installation into cabinets or kiosks, making them ideal for factory automation, retail, and interactive digital signage.

## SPECIFICATIONS

### Display

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

### System Specification

<b>WLAN</b>	Support (Optional)	<b>BT</b>	Support (Optional)
<b>Processor</b>	Intel® Processor N100 6M Cache, up to 3.40 GHz	<b>Memory</b>	1 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional)
<b>Storage</b>	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)	<b>Ethernet controller</b>	2 x Intel® 2.5 Gigabit Ethernet Controller
<b>Security</b>	TPM 2.0	<b>Operating System</b>	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

<b>Dimension</b>	300 x 250 x 52 mm	<b>Weight</b>	2.3 kg
<b>Mounting</b>	Open frame Panel mount (Optional)	<b>Enclosure</b>	Metal Housing

VESA mount (Optional)

**Cooling System** Fanless Design

**Environment**

**Operating Humidity** 10% to 90% RH, Non-Condensing

**Operating Temperature** 0°C to 50°C

**Storage Temperature** -10°C to 60°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 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**

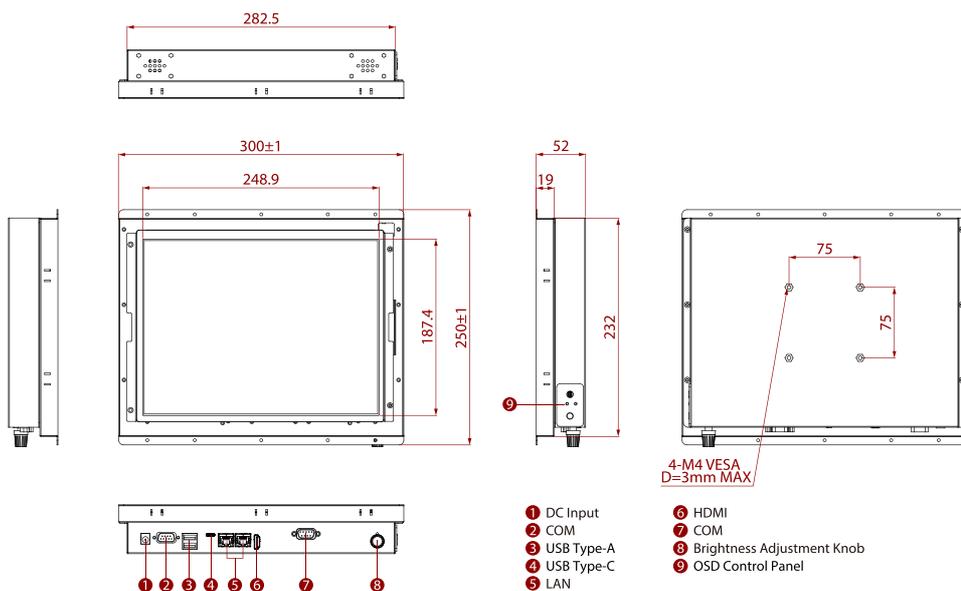
**Accessory** 100~240V AC to DC Adapter  
Power Cord  
VESA screws

**Power**

**Power Rating** 12V DC

**Adapter** 12V 50W

**DIMENSIONS** UNIT:MM



**NOTE**

1. This is a simplified drawing; 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.