

R12IAN3S-MRM2

12.1" Marine Panel PC with Intel® N150 Processor



KEY FEATURES

- Intel® N150 processor marine panel PC
- Dimming knob control backlight brightness from nearly 0% to 100%
- 9~36V DC power input acceptable
- Panel (flush) mount IP66 aluminum housing with powder coating design

INTRODUCTION

The R12IAN3S-MRM2 is a marine panel PC powered by the Intel® N150 processor, specifically engineered for demanding maritime automation and bridge systems. It features a physical dimming knob for seamless 0% to 100% backlight adjustment, ensuring optimal readability under changing day and night conditions at sea. Encased in a flush-mount, IP66-rated aluminum housing with anti-corrosion powder coating, it offers exceptional durability in harsh marine environments. With support for a wide 9~36V DC power input, this panel PC guarantees reliable and stable performance against vessel power fluctuations.

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 (Default) AR Glass (Optional)		

System Specification

Processor	Intel® Processor N150 6M Cache, up to 3.6 GHz	Memory	8GB (Default) 16GB (Optional)
Storage	128GB (Default) 256GB (Optional) 512GB (Optional) 1TB (Optional) 2TB (Optional) 4TB (Optional)	Ethernet controller	2 x Intel® Ethernet Controller
Operating System	Windows 11 IoT Enterprise (64 bit)		

Environment

Operating Humidity	5% to 95%	Operating Temperature	-15~55°C
Shock	15G, 11ms duration	Vibration	0.7g@DNV-CG-0339 (Class A)
IP rating	IP66 (Front Side)		

Certification

Certification	CE, FCC
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Mechanical

Dimension	337.2 x 293.2 x 65.8 mm	Weight	4.5 kg
Mounting	VESA mount/Panel mount	Enclosure	Metal Housing with Aluminum Bezel
Cooling System	Fanless Design	Cut out	307 x 253mm

IO Ports

USB Port	2 x USB3.2 (Type-A) 1 x USB 3.2 (Type C)	Serial Port	1 x RS232 (Default) 2 x RS232 or 2 x Isolation RS422/485 (Optional)
Video	(Default) 1 x HDMI (Optional)	LAN	2 x 2.5 Giga LAN RJ45 Connector

Accessory

Accessory	Driver CD & User Manual 4 x M6 Black Screw Bolt with M6 Nut 1 x AC Adapter 12V/ 84W 1 x Power Cord
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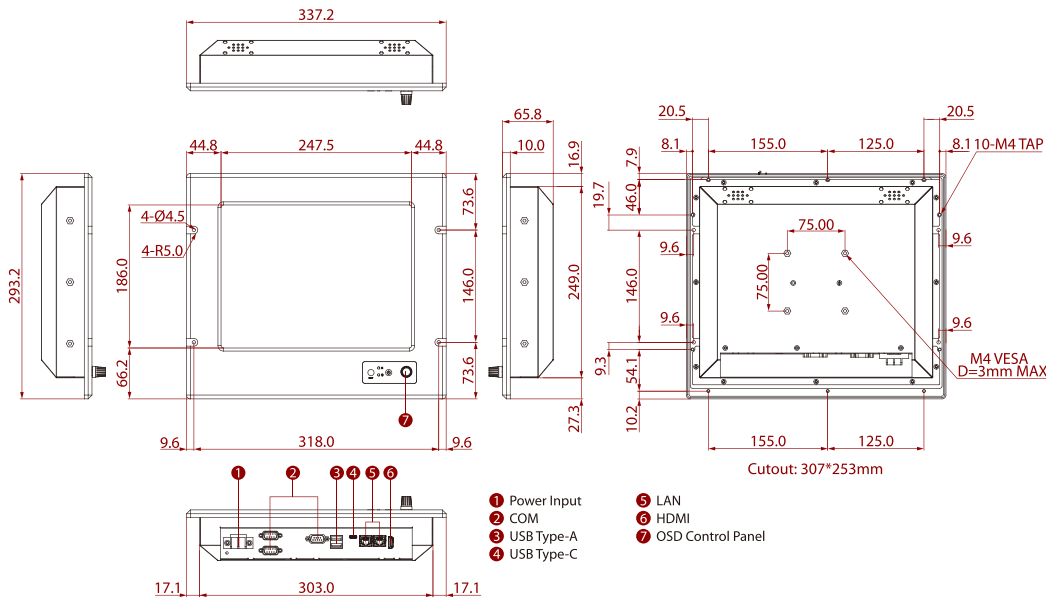
Power

Power Rating	9~36V DC Input Acceptable	Consumption	55W (Typical)
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Control

Button	1 x Power Button 1 x Reset Button 1 x The Dimming Knob
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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.