

W24IAD3S-MRA2FP

24" Intel® Core™ i5-1335U Flat PCAP ECDIS Marine Panel PC



KEY FEATURES

- 24" 1920 x 1080 resolution with projective capacitive multi-touch screen
- Edge-to-edge narrow bezel design and fanless cooling system
- Color calibrated for ECDIS compliance (Optional)
- Capacitive touch keys for quick function access and display control (Support ECDIS DAY, DUSK, and NIGHT mode switching)
- Optional 4 x COM port (NMEA 0183 protocol) 422/485 switchable via software
- Meet the requirements of Industrial marine standards, including IEC60945 4th Edition, DNV-CG-0339, IACS E10
- Support capacitive touch key lock / touchscreen lock function

INTRODUCTION

Winmate ECDIS Marine Panel PC Series offers advanced functionality and reliability for maritime applications, available in sizes from 10.1" to 27". Designed with an edge-to-edge narrow bezel and a fanless cooling system, these panel PCs provide a sleek, durable solution for harsh marine environments. Featuring capacitive touch keys for quick function access, support for DAY, DUSK, and NIGHT mode switching, and optional NMEA 0183 protocol support, this series ensures seamless navigation and operational efficiency for marine vessels and control rooms.

SPECIFICATIONS

Display			
Touch / Glass	Projected Capacitive Multi Touch Screen (AR Coating) AG film (Optional) AR Glass (Optional)	Resolution	1920x1080
Size	23.8 inches	Contrast Ratio	3000:1
Panel Brightness	250.0 nits	View Angles	89,89,89,89
Active Area	527.04x296.46 mm		
System Specification			
Processor	Intel® Core™ i5-1335U 3.4GHz(up to 4.60 GHz)	Memory	1 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional) 32GB (Optional)
Storage	1 x M.2 2280 M-Key NVMe SSD 128GB 256GB (Optional) 512GB (Optional) 1TB (Optional) 2TB (Optional)	Ethernet controller	2 x Intel® Ethernet Controller
Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Windows 10 IoT Enterprise (64 bit) (Optional)	Buzzer	75 dB~80 dB, 2300 Hz, 1m

Linux Ubuntu 22.04 (Do not support Wake on Touch) (Optional)

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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IO Ports

USB Port	2 x USB3.0 1 x USB2.0 (Optional)	Serial Port	1 x RS232(Default)/422/485 1 x RS232 (Optional)
Video	1 x HDMI (Optional)	Expansion Port	1 x 2.5" Removable 64GB SSD/HDD up to 512GB (Optional)
LAN	2 x RJ45	Front Control	Power Brightness + Brightness - Menu Function Key(Default setting: ECDIS Mode)
Indicator	Day Mode Dusk Mode Night Mode	DIDO	8 Channel Isolated Digital Input/Output (Optional)
NMEA	4 x NMEA 0183 Port (Optional)		

Mechanical

Dimension	595 x 385 x 73.8 mm	Weight	10.3 kg
Mounting	VESA mount/Panel mount	Enclosure	Anodized Aluminum Bezel
Cooling System	Fanless Design	Cut out	570 x 360 mm

Accessory

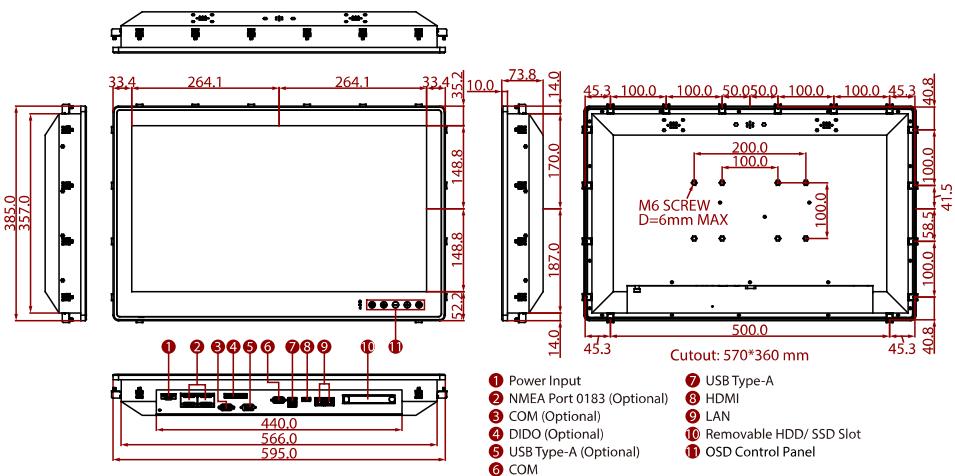
Accessory	User Manual 12V AC to DC Adapter (with 3 pin Terminal Block) Power Cord M4 x 30 Black Screws Bolts M4 x 15 Silver Screws Bolts	Optional Accessory	Four 5 Pin Terminal Block 3.81 (Phoenix Type)*For NMEA port (Optional)
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Power

Power Rating	24V DC-in with Isolation (Approval by Certificate) 9~36V DC Input Acceptable	Consumption	65W (Typical)
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DIMENSIONS

UNIT:MM



NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Only 24V DC has been approved by DNV certification.
3. Please contact our sales representative if you need further product information.
4. All specifications are subject to change without prior notice.
5. 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.