

W24IH3S-MRA1FP

24" Intel® Core™ i5-5350U 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, DNVGL-CG-0339, IACS E10
- Support capacitive touch key lock / touchscreen lock function



OVERVIEW



Reliable Computing Certified for Marine Applications

Winmate ECDIS Marine Panel PCs are built and tested according to DNVGL-CG-0339 Standard, IEC60945, and IACS-E10 to meet the marine industry's international regulatory requirements. Winmate performs in-house reliability test to ensure optimal performance in harsh maritime environments.



ECDIS Reliability for the Real Marine Colors Representation

On Winmate ECDIS, Marine Panel PC users can adjust to a day, dusk, or night mode through the capacitive touch key to accommodate any lighting situation. Winmate calibrates color settings at the factory for accurate color reproduction according to the IEC 61174 ECDIS Standard.



Sleek Design for Modern Bridge Workstations

Easy to maintain and clean. The glass cover lens provides excellent protection from scratch and reduces the gap for a possible accumulation of dust and liquid. The true-flat surface also gives a slim and elegant appearance to the device goes beyond that of the standard industrial, marine computers with a sleek and edge-to-edge design, rugged construction, powerful performance, and flexible mounting options.



Ultimate Touch Experience

Enhance customer experience with PCAP touch that supports multi-touch and can easily be controlled by fingers. Enjoy every touch and convenience when using the ECDIS Marine Panel PC, and experience the ultimate durability in some of the most demanding applications, such as bridge navigation and control.



Peripheral Connectivity

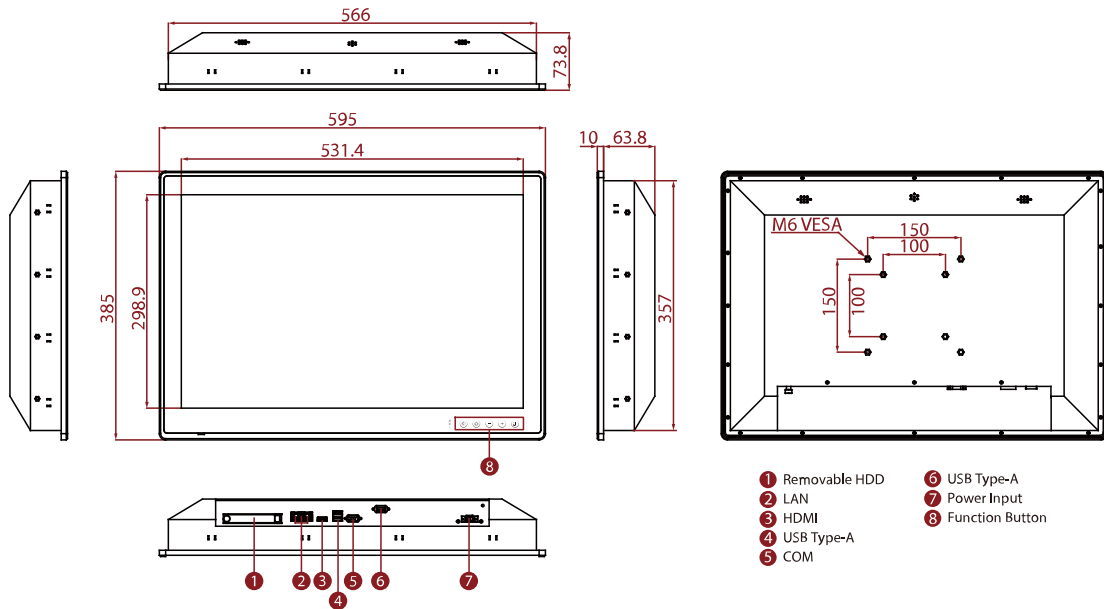
Onboard connectivity consists of Ethernet LAN, two USB2.0, one USB3.0, HDMI, Optional 4-Channel Isolated Digital Input and Output, optional four COM ports RS232/422/485 - that meet the NMEA 0183 National Marine Electronics Association physical layer standard -switchable via software.

SPECIFICATIONS

Display			
Resolution	1920x1080	Size	24.0 inches
Contrast Ratio	5000:1	Panel Brightness	300.0 nits

View Angles	89,89,89,89	Active Area	531.36x298.89 mm
Touch / Glass	Projected Capacitive Multi Touch Screen (AR Coating) AG film (Optional) AR Glass (Optional)		
System Specification			
Processor	Intel Core i5-5350U Processor 1.8GHz (up to 2.9GHz) Intel Core i5-5250U Processor 1.6GHz (up to 2.7GHz) (Optional) Intel Core i5-5300U Processor 2.3GHz (up to 2.9GHz) (Optional) Intel Core i5-5200U Processor 2.2GHz (up to 2.7GHz) (Optional)	Memory	1 x SO-DIMM, DDR3L 1600 MHz, 4GB 8GB (Optional)
Storage	1 x mSATA SSD 128GB mSATA SSD up to 512GB (Optional)	Ethernet controller	Intel® Ethernet Controller I211-AT+ Intel® Ethernet Connection I218-LM
Operating System	Windows 10 IoT Enterprise (Optional)	Buzzer	75 dB~80 dB, 2300 Hz, 1m
Environment			
Operating Humidity	5% to 95%	Operating Temperature	-15~55°C
Shock	15G, 11ms duration	Vibration	0.7g@DNVGL CG-0339 (Class A)
IP rating	IP66 (Front Side)		
Certification			
Certification	CE, FCC DNVGL-CG-0339, IEC60945 4th, IACS E10		
IO Ports			
USB Port	2 x USB3.0 1 x USB2.0	Serial Port	1 x RS232(Default)/422/485
Video	1 x HDMI (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 63.8 mm	Weight	10.3 kg
Mounting	VESA mount Panel mount (Optional)	Enclosure	Anodized Aluminum Bezel
Cooling System	Fanless Design	Cut out	570 x 360 mm
Accessory			
Accessory	Driver CD & User Manual 12V AC to DC Adapter (with 3 pin Terminal Block) Power Cord M4 x 12 Black Screw Bolts	Optional Accessory	Four 5 Pin Terminal Block 3.81 (Phoenix Type)*For NMEA port (Optional)
Power			
Power Rating	24V DC-in with Isolation (Approval by Certificate) 9~36V DC Input Acceptable	Consumption	65W (Typical)

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 DNVGL 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.