

# R15IH3S-MRA3FP

15" Intel® Core™ i5-5350U Flat PCAP ECDIS Marine Panel PC



## KEY FEATURES

- 15"1024 x 768 PCAP touchscreen, Flat PCAP ECDIS Marine Panel PC
- 5th Gen. Intel® Core™ i5 -5350U @ 2.20GHz
- Edge-to-edge narrow bezel design and fanless cooling system
- Capacitive touch keys for quick function access and display control (Support ECDIS DAY, DUSK, and NIGHT mode switching)
- Meet the requirements of Industrial marine standards, including IEC60945 4th Edition, DNVGL-CG-0339, IACS E10

## 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.

## OVERVIEW

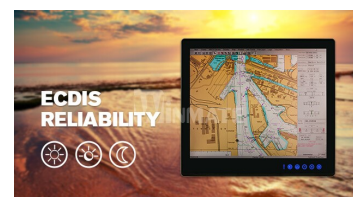


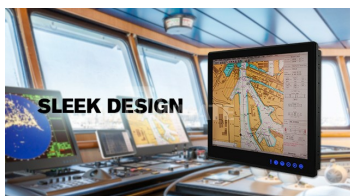
### Reliable Computing Certified for Marine Applications

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.



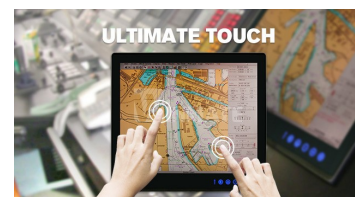


## Sleek Design for Modern Bridge Workstations

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.



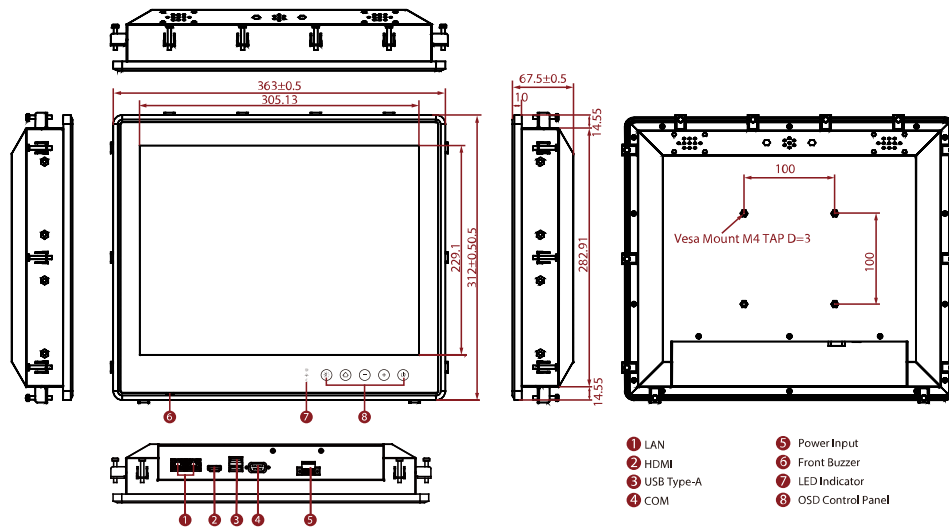
## Peripheral Connectivity

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           | 1024x768                                                                                                                                                                                                                                                  | Size                  | 15.0 inches                                                               |
| Contrast Ratio       | 2500:1                                                                                                                                                                                                                                                    | Panel Brightness      | 500.0 nits                                                                |
| View Angles          | 88,88,88,88                                                                                                                                                                                                                                               | Active Area           | 304.1x228.1 mm                                                            |
| Touch / Glass        | Projected Capacitive Multi Touch Screen (AR Coating)<br>AG film (Optional)<br>AR Glass (Optional)                                                                                                                                                         |                       |                                                                           |
| System Specification |                                                                                                                                                                                                                                                           |                       |                                                                           |
| Processor            | Intel Core i5-5350U Processor 1.8GHz (up to 2.9GHz)<br>Intel Core i5-5250U Processor 1.6GHz (up to 2.7GHz) (Optional)<br>Intel Core i5-5300U Processor 2.3GHz (up to 2.9GHz) (Optional)<br>Intel Core i5-5200U Processor 2.2GHz (up to 2.7GHz) (Optional) | Memory                | 1 x SO-DIMM, DDR3L 1600 MHz, 4GB<br>8GB (Optional)                        |
| Storage              | 1 x mSATA SSD 128GB<br>mSATA SSD up to 512GB (Optional)                                                                                                                                                                                                   | Ethernet controller   | Intel® Ethernet Controller I211-AT+<br>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<br>DNVGL-CG-0339, IEC60945 4th, IACS E10                                                                                                                                                                                                          |                       |                                                                           |
| IO Ports             |                                                                                                                                                                                                                                                           |                       |                                                                           |
| USB Port             | 2 x USB3.0                                                                                                                                                                                                                                                | Serial Port           | 1 x RS232(Default)/422/485                                                |
| Video                | 1 x HDMI (Optional)                                                                                                                                                                                                                                       | LAN                   | 2 x RJ45                                                                  |
| Front Control        | Power<br>Brightness +<br>Brightness -<br>Menu<br>Function Key(Default setting: ECDIS Mode)                                                                                                                                                                | Indicator             | Day Mode<br>Dusk Mode<br>Night Mode                                       |
| DIDO                 | 8 Channel Isolated Digital Input/Output (Optional)                                                                                                                                                                                                        | NMEA                  | 4 x NMEA 0183 Port (Optional)                                             |
| Mechanical           |                                                                                                                                                                                                                                                           |                       |                                                                           |
| Dimension            | 363 x 312 x 67.5 mm                                                                                                                                                                                                                                       | Weight                | 5.8 kg                                                                    |
| Mounting             | VESA mount<br>Panel mount (Optional)                                                                                                                                                                                                                      | Enclosure             | Anodized Aluminum Bezel                                                   |
| Cooling System       | Fanless Design                                                                                                                                                                                                                                            | Cut out               | 338 x 288mm                                                               |
| Accessory            |                                                                                                                                                                                                                                                           |                       |                                                                           |
| Accessory            | Driver CD & User Manual<br>12V AC to DC Adapter (with 3 pin Terminal Block)<br>Power Cord<br>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)                                                                                                                                                                                                        | Consumption           | 55W (Typical)                                                             |

## DIMENSIONS UNIT:MM



## NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Only 24 V 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.