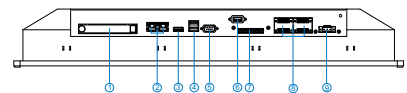
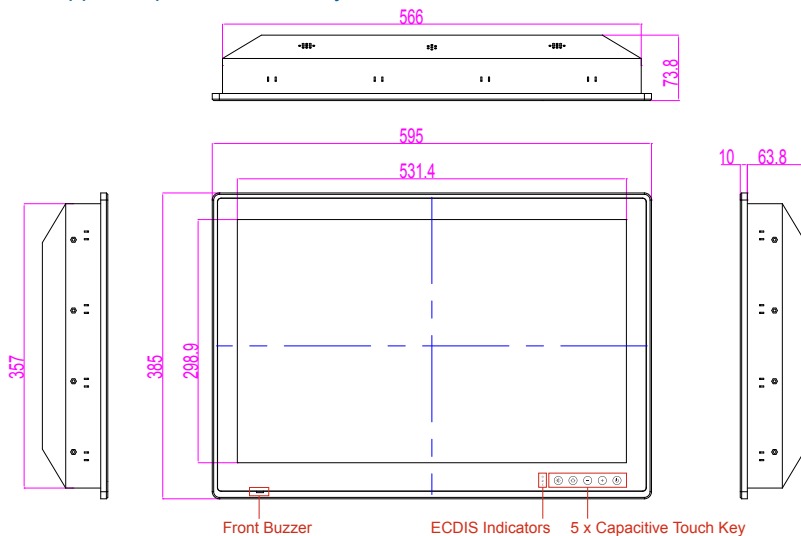


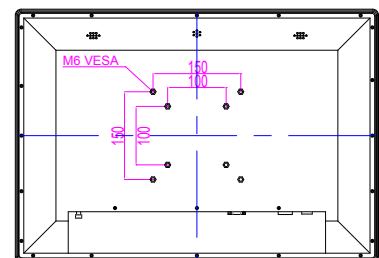


## Features :

- 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 4<sup>th</sup> Edition, DNVGL-CG-0339, IACS E10
- Support capacitive touch key lock / touchscreen lock function



1. 1 x 2.5" Removable HDD
2. 2 x LAN
3. 1 x HDMI
4. 1 x USB 3.0, 1 x USB 2.0
5. 1 x RS232/422/485
6. 1 x USB 2.0
7. 1 x 8 Channel DI/DO (Optional)
8. 4 x NMEA 0183 Port (Optional)
9. 1 x DC Power Input



\* Note: this is a simplified drawing and some components are not marked in detail. \*Please contact our sales representative if you need further product information.

## Display Specifications :

|                     |                                                                    |
|---------------------|--------------------------------------------------------------------|
| Resolution          | : 1920 x 1080                                                      |
| Pixel Pitch         | : 0.276 (H) x 0.276 (V) mm                                         |
| Contrast Ratio      | : 5000:1 (typ.)                                                    |
| Panel Brightness    | : 300 cd/m <sup>2</sup> (typ.)                                     |
| Viewable Angle      | : 89°/89°/89°/89° (typ.) (Up/Down/Left/Right)                      |
| Active Display Area | : 531.36(H) x 298.89 (V) mm                                        |
| Max Colors          | : 16.7 M colors, 8 bits/color                                      |
| Touch Screen        | : Projective Capacitive Multi-touch (Optional AR Protection Glass) |

## System Specifications :

|                |                                                                                                    |
|----------------|----------------------------------------------------------------------------------------------------|
| Processor      | : 5 <sup>th</sup> Gen. Intel <sup>®</sup> Core i5-5250U Broadwell, 1.60 GHz (turbo up to 2.70 GHz) |
| System Memory  | : 1 x DDR3L-1066 SODIMM (Default 4GB, Max 16GB)                                                    |
| Ethernet       | : Dual Ethernet Gb LAN                                                                             |
| Storage        | : 64GB mSATA SSD (Up to 256GB)                                                                     |
| Second Storage | : 2.5" Removable Storage Tray                                                                      |
| Speaker        | : 2 x 2W Speaker                                                                                   |
| Buzzer         | : 75 dB~80 dB, 2300 Hz, 1m                                                                         |

## Power Specifications :

|                   |                                                |
|-------------------|------------------------------------------------|
| Power Input       | : *24V DC-in with Isolation (9~36V acceptable) |
| Power Consumption | : 80W (Max)                                    |

## Certification

DNVGL-CG-0339, IEC60945 4th, IACS E10, CE, FCC

\*Only 24V DC have approval by DNVGL certificate

## Mechanical

|                     |                           |
|---------------------|---------------------------|
| Mechanical Mounting | : Panel Mount, VESA Mount |
| Dimension           | : 595mm x 385mm x 63.8mm  |
| Panel Mount Cutout  | : 572mm x 363mm           |
| Housing             | : Anodized Aluminum Bezel |
| IP Rating           | : IP66 (Front Side)       |

## Environmental

|                       |                                |
|-----------------------|--------------------------------|
| Operating Temperature | : -15 to 55 deg.C              |
| Operating Humidity    | : 5% to 95% (non-condensing)   |
| Anti-Vibration        | : 0.7g@DNVGL CG-0339 (Class A) |
| Anti-Shock            | : 15G, 11ms duration           |

## Input / Output Connectors

|                |                                                      |
|----------------|------------------------------------------------------|
| Ethernet LAN   | : 2 x RJ45                                           |
| COM (D-SUB)    | : 1 x RS232/422/485                                  |
| USB            | : 2 x USB2.0, 1 x USB3.0                             |
| HDMI           | : 1 x HDMI (Optional)                                |
| NMEA Interface | : 4 x NMEA 0183 Port (Optional)                      |
| Digital IN/OUT | : 8 Channel Isolated Digital Input/Output (Optional) |
| DC power       | : 1 x 3-Pin Terminal Block (Phoenix type)            |

## OS Support :

Operating System (Optional) :

- Windows 10 IoT Enterprise
- Windows Embedded 8.1 Industry PRO
- Windows Embedded 8 Std.
- Windows Embedded Std. 7
- Windows 7 PRO for Embedded System

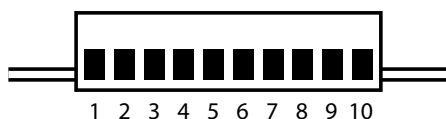
Note: All Specifications are subject to change without prior notice!

Revised date: 18-Nov-2019 V1.9



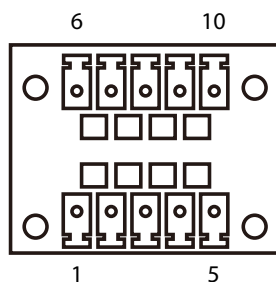
#### Optional Digital Input / Output Connector

Eight channel isolated digital input and output connector with on-board optical isolation protection output up to 1.5KVdc.



| Pin No. | Symbol | Description                     |
|---------|--------|---------------------------------|
| 1       | DO_COM | DO Port Reference Voltage Level |
| 2       | DO_0   | Digital Output 0                |
| 3       | DO_1   | Digital Output 1                |
| 4       | DO_2   | Digital Output 2                |
| 5       | DO_3   | Digital Output 3                |
| 6       | ISOGND | Isolated Ground                 |
| 7       | DI0    | Digital Input 0                 |
| 8       | DI1    | Digital Input 1                 |
| 9       | DI2    | Digital Input 2                 |
| 10      | DI3    | Digital Input 3                 |

#### Optional NMEA 0183 Port



| Pin No. | Symbol | Pin No. | Symbol |
|---------|--------|---------|--------|
| 1       | TxD1-  | 6       | TxD2-  |
| 2       | TxD1+  | 7       | TxD2+  |
| 3       | GND    | 8       | GND    |
| 4       | RxD1-  | 9       | RxD2-  |
| 5       | RxD1+  | 10      | RxD2+  |

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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