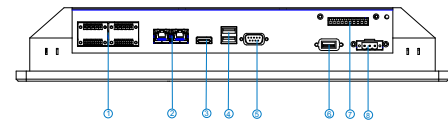
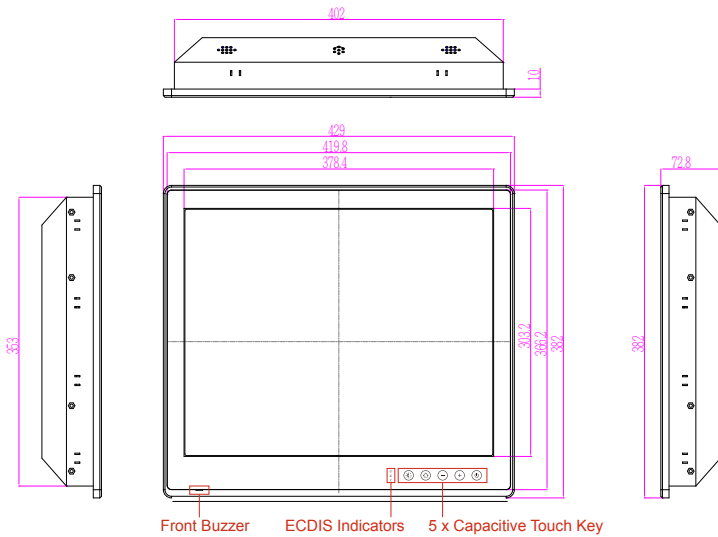


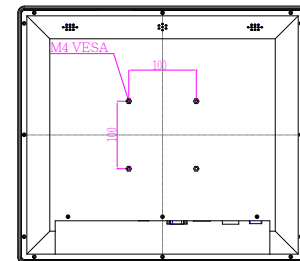


**Features :**

- 19" 1280 x 1024 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. 4 x NMEA 0183 Port (Optional)
2. 2 x LAN
3. 1 x HDMI
4. 2 x USB 3.0
5. 1 x RS232/422/485
6. 1 x USB 2.0
7. 1 x 8 Channel DVI/D (Optional)
8. 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	: 1280 x 1024
Pixel Pitch	: 0.294 (H) x 0.294 (V) mm
Contrast Ratio	: 1000:1 (typ.)
Brightness	: 350 cd/m <sup>2</sup> (typ.)
Viewable Angle	: 85°/85°/80°/80° (typ.) (Up/Down/Left/Right)
Active Display Area	: 376.32(H)x 301.06 (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® 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)
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	: 429mm x 382mm x 72.8mm
Panel Mount Cutout	: 408mm x 359mm
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	: 1 x USB2.0, 2 x USB3.0
HDMI	: 1 x HDMI
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
-----------------------------	---



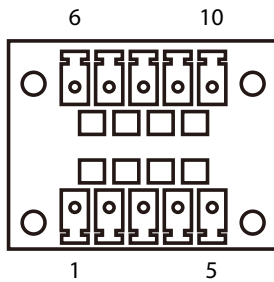
**Optional Digital Input / Output Connector**

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.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660