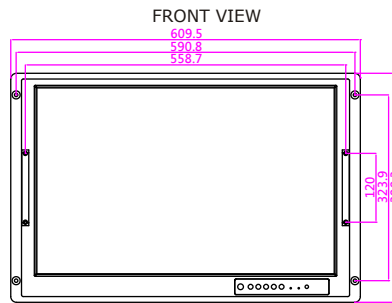
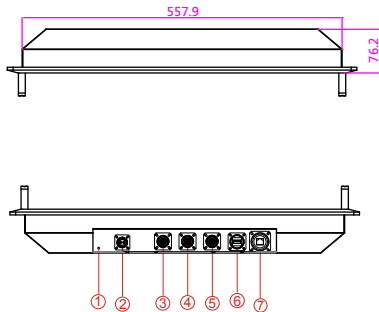


# Military Grade 24" Rack Mount Panel PC (Intel® Core i7 Platform)

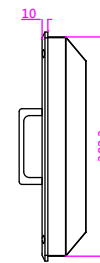
MODEL #: SEA-W24IH3S-MLS1-89



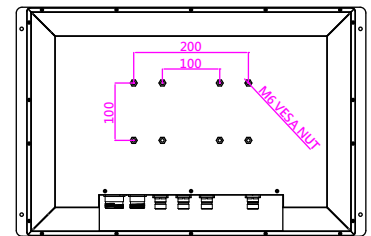
- 24" 1920x1200 High Resolution TFT-LCD
- Intel® Core i7 4650U 3.30GHz Processor
- Anti-Corrosion Housing / Fanless
- Compliant with MIL-STD-810F/G
- Flush Rack / Rack Mount Mechanical Design (9U)
- Convenient On-Screen Display Controls
- AC 110~240V Power input default / Isolation DC 9~36V Power input (Optional)
- Built-in Light Sensor for auto brightness control
- Military Grade Power Connector (MIL-DTL-38999/1 & 38999/3)



SIDE VIEW



BACK VIEW



CUT OUT 562\*387mm

1. Ground
2. AC Power in (MIL-DTL-38999/1)
3. VGA (MIL-DTL-38999/3)
4. RS-232 (MIL-DTL-38999/3)
5. RS-232 (Optional)
6. USB 2.0 A Type (MIL-DTL-38999/3)
7. LAN (MIL-DTL-38999/3)

Measurements shown in mm.

- \* Tolerance of all dimensions is shown as follow 0~30 mm  $\pm$  0.1 mm, 30~50 mm  $\pm$  0.15 mm, 50~120 mm  $\pm$  0.2 mm, above 120 mm  $\pm$  0.25 mm.
- \* 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 Specification

### Characteristics :

- Resolutions : 1920 x 1200
- Brightness : 300 cd/m<sup>2</sup> (typ.)
- Contrast Ratio : 1000 : 1 (typ.)
- Viewing Angles : -89~89(H); -89~89(V)
- Max Colors : 16.7M (Colors)

### System Specifications :

- Processor : Intel® Core i7 4650U 3.30GHz
- BIOS : AMI 16Mbit Flash
- Processor Graphics : Intel® HD Graphics 5000
- System Memory : 1 x SO-DIMM DDR3L 1600, Default 4GB
- Lan Controller : Intel® Ethernet Controller 1211-AT + Intel® Gigabit Ethernet PHY 1218-LM
- Storage : mSATA SSD, Default 64GB
- Expansion Slot : 1 x Mini PCIe slot (for USB module)

\* A customized housing is needed if you would like to have the PCI expansion.

### Power Specifications :

- Power Input : Default AC 110~240V in  
Optional isolation DC 9~36V in

### I/O Connectors :

- Plug & Play : VESA DDC 1/2B
- Back Panel I/O Port : 1 x Power Input (MIL-DTL-38999/1)  
1 x VGA (MIL-DTL-38999/3)  
1 x RS232 (MIL-DTL-38999/3)  
1 x USB A 2.0 Type (MIL-DTL-38999/3)  
1 x LAN (MIL-DTL-38999/3)

### Environmental (MIL-STD 810F/G Compliance)

- Vibration : MIL-STD-810F/G Method 514.5
- Humidity : MIL-STD-810F/G Method 507.4
- Transit Drop : MIL-STD-810F/G Method 516.5

### Environment Considerations :

- Operating Temperature : 0°C~50°C
- Storage Temperature : -10°C~60°C
- Operating Humidity : 95%RH  $\pm$  3%

### Environmental (MIL-STD 461E/F Compliance)

- RE : RE101 / RE102
- CE : CE 101 / CE102
- Optional with EMI Glass / Touch
- RS : RS101 / RS103
- CS : CS 101 / CS 106 / CS 109 / CS 114 / CS 115 / CS 116

\* If you require external test report, Winmate will charge NRE fee.

### Order Information (Optional):

- Touch : 5 Wires Resistive / 5 Wire Resistive with EMI Coating
- Glass : EMI Coating Glass (Default AR Glass)
- OS : Windows Embedded Standard 7  
Windows Embedded 8 Standard  
Windows Embedded 8.1 Industry  
Windows 10 IoT Enterprise
- Storage : mSATA SSD up to 256GB
- RAM : SO-DIMM DDR3 1666, max up to 8GB
- Power : Optional isolation 9~36V DC in

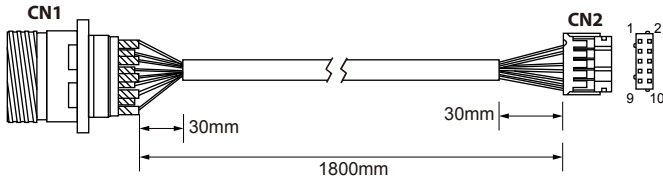
### Default Accessories

- 1 x MIL-DTL-38999/1 Power cord / Cable
- 1 x MIL-DTL-38999/3 VGA Cable
- 1 x MIL-DTL-38999/3 RS232 Cable
- 1 x Driver & Manual CD

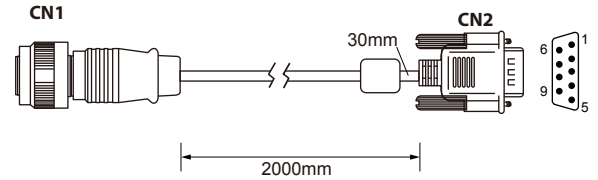
# Military Grade 24" Rack Mount Panel PC (Intel® Core i7 Platform)

MODEL #: SEA-W24IH3S-MLS1-89

## MIL-DTL-38999/3 RS232 Cable



## MIL-DTL-38999/3 VGA Cable



| PIN NO. | SYMBOLS | COLOR  |
|---------|---------|--------|
| CN1-1   | R       | Red    |
| CN1-2   | R-GND   | Black  |
| CN1-3   | G       | Green  |
| CN1-4   | G-GND   | Black  |
| CN1-5   | B       | Blue   |
| CN1-6   | B-GND   | Black  |
| CN1-7   | SDA     | Yellow |
| CN1-8   | HS      | Orange |
| CN1-9   | VS      | White  |
| CN1-10  | SCL     | Brown  |

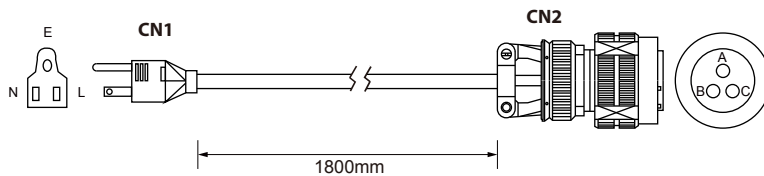
| PIN NO. | SYMBOLS | COLOR  |
|---------|---------|--------|
| CN2-4   | R       | Red    |
| CN2-9   | GND     | Black  |
| CN2-6   | G       | Green  |
| CN2-9   | GND     | Black  |
| CN2-8   | B       | Blue   |
| CN2-10  | GND     | Black  |
| CN2-1   | SDA     | Yellow |
| CN2-5   | HS      | Orange |
| CN2-7   | VS      | White  |
| CN2-3   | SCL     | Brown  |

Coaxial cable  
Coaxial cable  
Coaxial cable

| PIN NO. | SYMBOLS | COLOR  |
|---------|---------|--------|
| CN1-1   | DCD     | Green  |
| CN1-2   | DSR     | Brown  |
| CN1-3   | RXD     | Red    |
| CN1-4   | RTS     | Orange |
| CN1-5   | TXD     | Blue   |
| CN1-6   | CTS     | White  |
| CN1-7   | DTR     | Purple |
| CN1-8   | RI      | Yellow |
| CN1-9   | GND     | Black  |
| Braid   |         | 外殼     |

| PIN NO. | SYMBOLS | COLOR  |
|---------|---------|--------|
| CN2-1   | DCD     | Green  |
| CN2-6   | DSR     | Brown  |
| CN2-2   | RXD     | Red    |
| CN2-7   | RTS     | Orange |
| CN2-3   | TXD     | Blue   |
| CN2-8   | CTS     | White  |
| CN2-4   | DTR     | Purple |
| CN2-9   | RI      | Yellow |
| CN2-5   | GND     | Black  |
| Braid   |         | 外殼     |

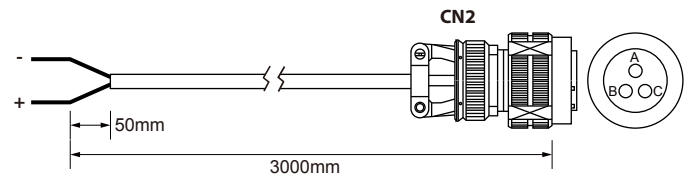
## MIL-DTL-38999/1 AC Power Cable (For US)



| PIN NO. | SYMBOLS | COLOR |
|---------|---------|-------|
| CN1-1   | N       | White |
| CN1-2   | L       | Black |
| CN1-3   | E       | Green |

| PIN NO. | SYMBOLS | COLOR |
|---------|---------|-------|
| CN2-1   | A       | White |
| CN2-2   | B       | Black |
| CN2-3   | C       | Green |

## MIL-DTL-38999/1 DC Power cable (optional)



| PIN NO. | SYMBOLS | COLO  |
|---------|---------|-------|
| OPEN    | VCC+    | White |
| OPEN    | VCC-    | Black |

| PIN NO. | SYMBOLS | COLOR |
|---------|---------|-------|
| CN2-A   | VCC+    | White |
| CN2-B   | VCC-    | Black |