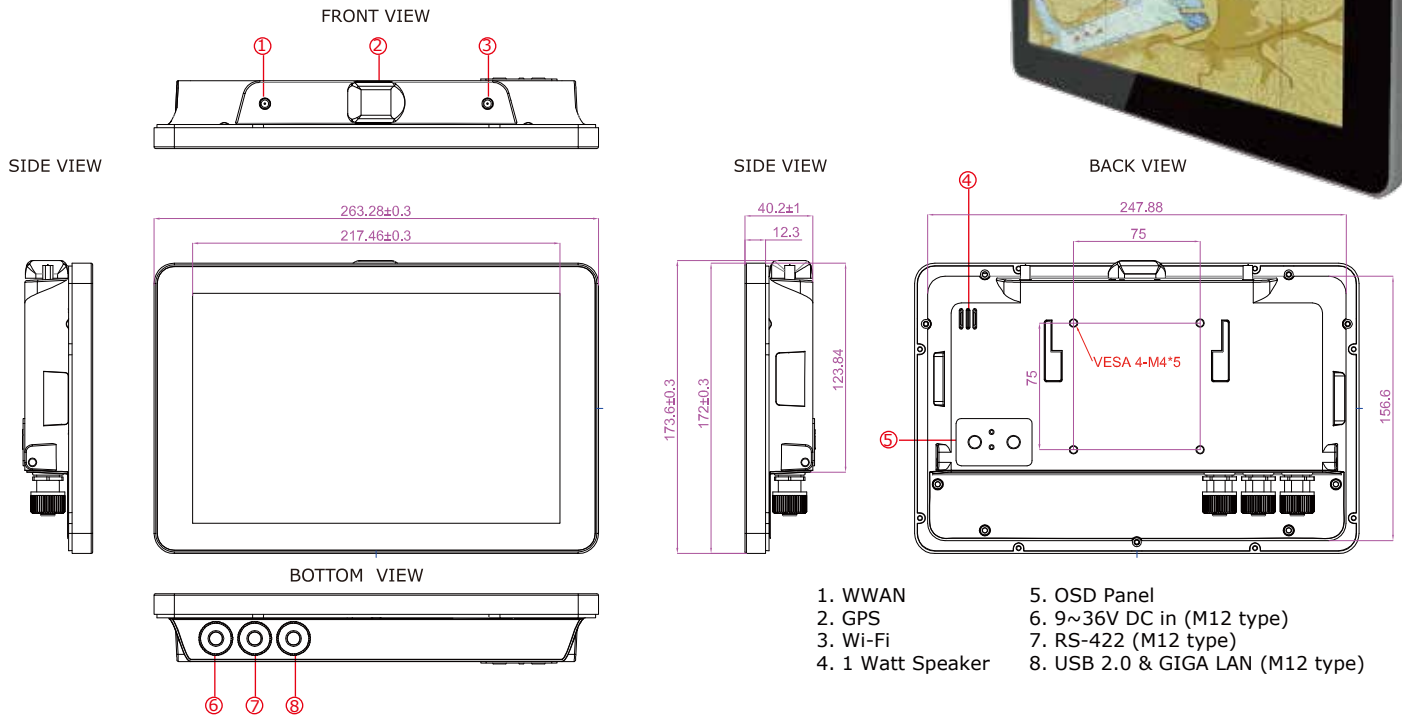


# 10.1" Marine Panel PC - W10IB3S-MRH2

## Features

- 1280x800 resolution
- P-Cap multi-touch screen
- Front IP65 and full IP44 ratings
- Isolated connectors (M12 type)
- Wireless communications - Wi-Fi, WWAN, GPS (optional)
- Optical bonding with touch screen available on request



## Specifications

### System :

- Processor : Intel® Celeron® Bay Trail-M N2930 1.83GHz
- System Chipset : Intel® ATOM SoC Integrated
- System Memory : 4GB DDR3L 1066/1333 SO-DIMM
- Storage : 64GB mSATA SSD
- Security : Trusted Platform Module (TPM 1.2)
- Operating System : Windows 10 IoT Enterprise  
: Windows Embedded 8.1 Industry Pro  
: Windows Embedded 8 Standard  
: Windows 7 Pro for Embedded Systems  
: Windows Embedded Standard 7- WS7P

### Display Spec :

- Size/Type : 10.1" TFT (Widescreen)
- Resolution : 1280x800
- Brightness : 300 cd/m (typ.)
- Contrast Ratio : 800:1 (typ.)
- Viewing Angle : -89~89(H); -89~89(V)
- Max Colors : 262K(6bit)
- Touch : Projective-Capacitive Touch

### Input / Output Connectors :

- Serial Port : 2 x RS-422 (M12 type)  
\*1 x RS-422 when with WWAN (M12 type)
- USB Port : 1 x USB 2.0 (M12 type)
- Ethernet : 1 x Gigabit LAN (M12 type)
- Speaker : 1 x 1 Watt Speaker

### Wireless Communications :

- \*Wi-Fi : 802.11 a/b/g/n/ac (optional)
- \*WWAN : Optional 3G
- \*GPS : U-blox GPS Module (optional)

### Mechanical Specification :

- Cooling System : Fanless design
- Mounting : VESA Mount (75x75mm)
- Dimensions (W x H xD) : 263.28 x 173.6 x 40.2 (mm)
- Net Weight : 1.64 kg
- Gross Weight : 2.18 kg
- Cutout Dimensions (W x D) : 157.6 x 249(mm)

### Environment :

- Operating Temperature : -15°C to +55 °C
- Operating Humidity : 5% to 95% (non-condensing)
- Anti-Vibration : 0.7g@DNV2.4 (Class A)
- IP Rating : Front: IP65 water and dust proof  
Full: IP44

### Power Considerations :

- Power Input : 9~36V isolated DC in (M12 type)

### Standards and Certifications:

- Comply with IEC60945 (test report)  
FCC Part 15B Class B  
CE

### Software Support :

- SDK : Watchdog SDK

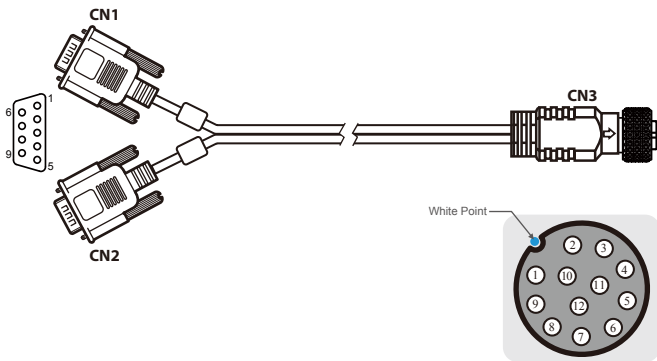
\*optional



# 10.1" Marine Panel PC - W10IB3S-MRH2

## Pin Assignment of cables

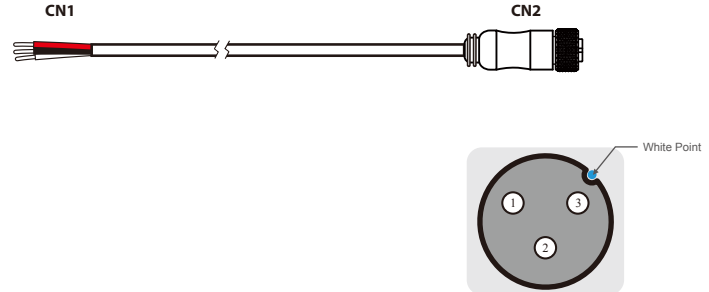
### RS-422 to M12 Cable



Pin No.	Symbols	Color
CN1-1	TX-	Green
CN1-2	TX+	Brown
CN1-3	RX+	Red
CN1-4	RX-	Orange
CN1-5	GND	Blue
CN2-1	TX-	Green
CN2-2	TX+	Brown
CN2-3	RX+	Red
CN2-4	RX-	Orange
CN2-5	GND	Blue

Pin No.	Symbols	Color	
CN3-1	TX-	Green	Twisted pairs
CN3-2	TX+	Brown	
CN3-3	RX+	Red	Twisted pairs
CN3-4	RX-	Orange	
CN3-5	GND	Blue	Twisted pairs
CN3-6	TX-	Green	
CN3-7	TX+	Brown	Twisted pairs
CN3-8	RX+	Red	
CN3-9	RX-	Orange	Twisted pairs
CN3-10	GND	Blue	

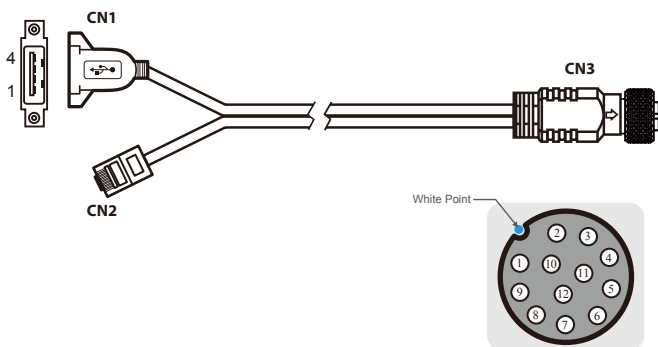
### DC Power to M12 Cable



Pin No.	Symbols	Color
CN1-1	VCC+	Red
CN1-2	GND	Black
CN1-3	VCC-	White

Pin No.	Symbols	Color
CN2-1	VCC+	Red
CN2-2	GND	Black
CN2-3	VCC-	White

### USB 2.0 & GIGA LAN to M12 Cable



Pin No.	Symbols	Color
CN3-1	VCC	RED
CN3-2	D-	WHITE
CN3-3	D+	GREEN
CN3-4	GND	BLACK
CN3-5	White/Orange	
CN3-6	Orange	
CN3-7	White/Green	
CN3-8	Blue	
CN3-9	White/Blue	
CN3-10	Green	
CN3-11	White/Brown	
CN3-12	Brown	

Pin No.	Symbols	Color	
CN1-1	VCC	RED	Twisted pairs
CN1-2	D-	WHITE	
CN1-3	D+	GREEN	Twisted pairs
CN1-4	GND	BLACK	
CN2-1	White/Orange		Twisted pairs
CN2-2	Orange		
CN2-3	White/Green		Twisted pairs
CN2-4	Blue		
CN2-5	White/Blue		Twisted pairs
CN2-6	Green		
CN2-7	White/Brown		Twisted pairs
CN2-8	Brown		