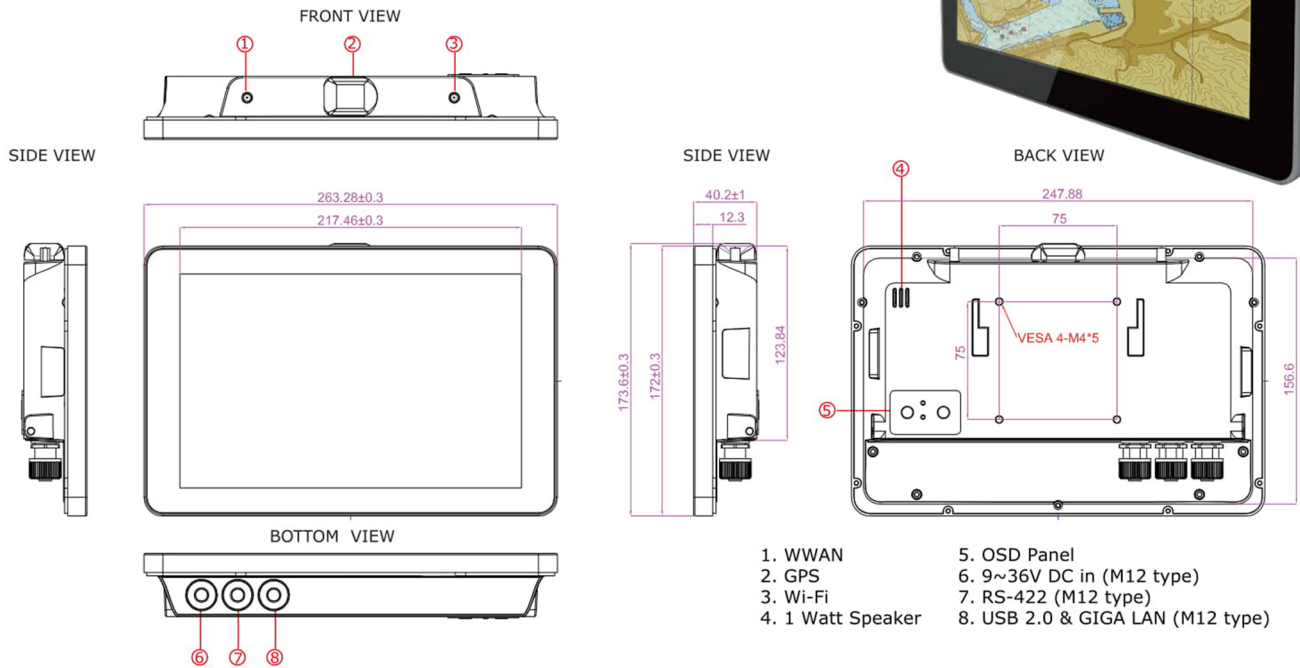
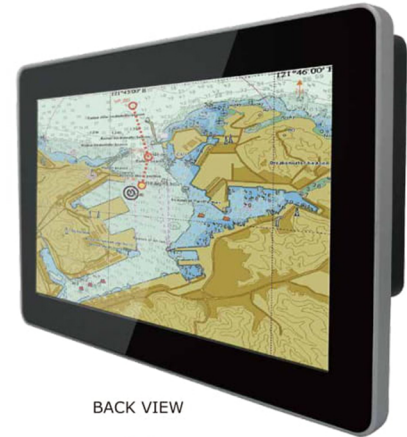


10.1" Marine Panel PC - W10IB3S-MRH2

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
- Panel 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 x D) : 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



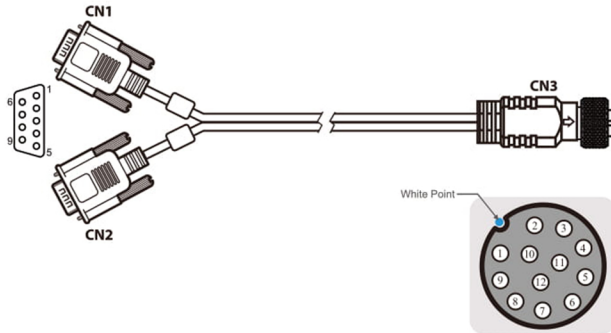
Note: All Specifications are subject to change without prior notice!

Revised Date:18-Nov-2019 V1.4

10.1" Marine Panel PC - W10IB3S-MRH2

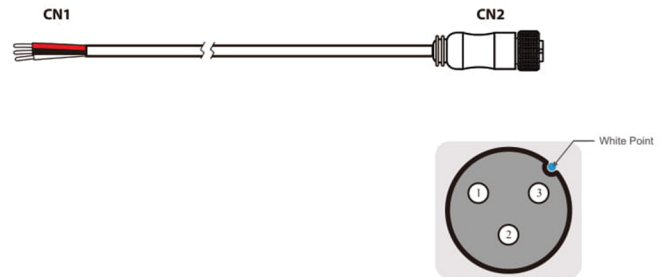
Pin Assignment of cables

RS-422 to M12 Cable



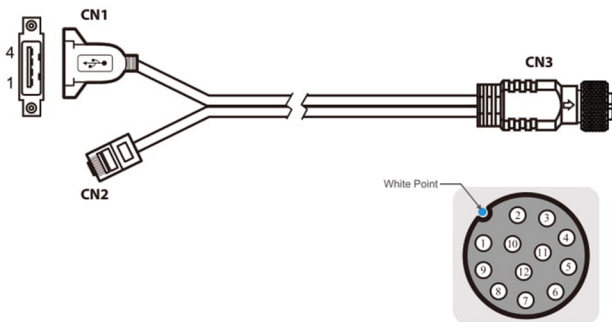
Pin No.	Symbols	Color		Pin No.	Symbols	Color	
CN1-1	TX-	Green	↔	CN3-1	TX-	Green	Twisted pairs
CN1-2	TX+	Brown	↔	CN3-2	TX+	Brown	
CN1-3	RX+	Red	↔	CN3-3	RX+	Red	Twisted pairs
CN1-4	RX-	Orange	↔	CN3-4	RX-	Orange	
CN1-5	GND	Blue	↔	CN3-5	GND	Blue	Twisted pairs
CN2-1	TX-	Green	↔	CN3-6	TX-	Green	
CN2-2	TX+	Brown	↔	CN3-7	TX+	Brown	Twisted pairs
CN2-3	RX+	Red	↔	CN3-8	RX+	Red	
CN2-4	RX-	Orange	↔	CN3-9	RX-	Orange	Twisted pairs
CN2-5	GND	Blue	↔	CN3-10	GND	Blue	

DC Power to M12 Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VCC+	Red	↔	CN2-1	VCC+	Red
CN1-2	GND	Black	↔	CN2-2	GND	Black
CN1-3	VCC-	White	↔	CN2-3	VCC-	White

USB 2.0 & GIGA LAN to M12 Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color	
CN3-1	VCC	RED	↔	CN1-1	VCC	RED	Twisted pairs
CN3-2	D-	WHITE	↔	CN1-2	D-	WHITE	
CN3-3	D+	GREEN	↔	CN1-3	D+	GREEN	Twisted pairs
CN3-4	GND	BLACK	↔	CN1-4	GND	BLACK	
CN3-5	White/Orange		↔	CN2-1	White/Orange		Twisted pairs
CN3-6	Orange		↔	CN2-2	Orange		
CN3-7	White/Green		↔	CN2-3	White/Green		Twisted pairs
CN3-8	Blue		↔	CN2-4	Blue		
CN3-9	White/Blue		↔	CN2-5	White/Blue		Twisted pairs
CN3-10	Green		↔	CN2-6	Green		
CN3-11	White/Brown		↔	CN2-7	White/Brown		Twisted pairs
CN3-12	Brown		↔	CN2-8	Brown		