RUGGED PANEL PC

10.4" TFT Wide Rugged LCD Panel PC 1024x768 with Intel Celeron Bay Trail-M N2930 1.83 GHz and Projected Capacitive Multi-Touch (P-CAP)
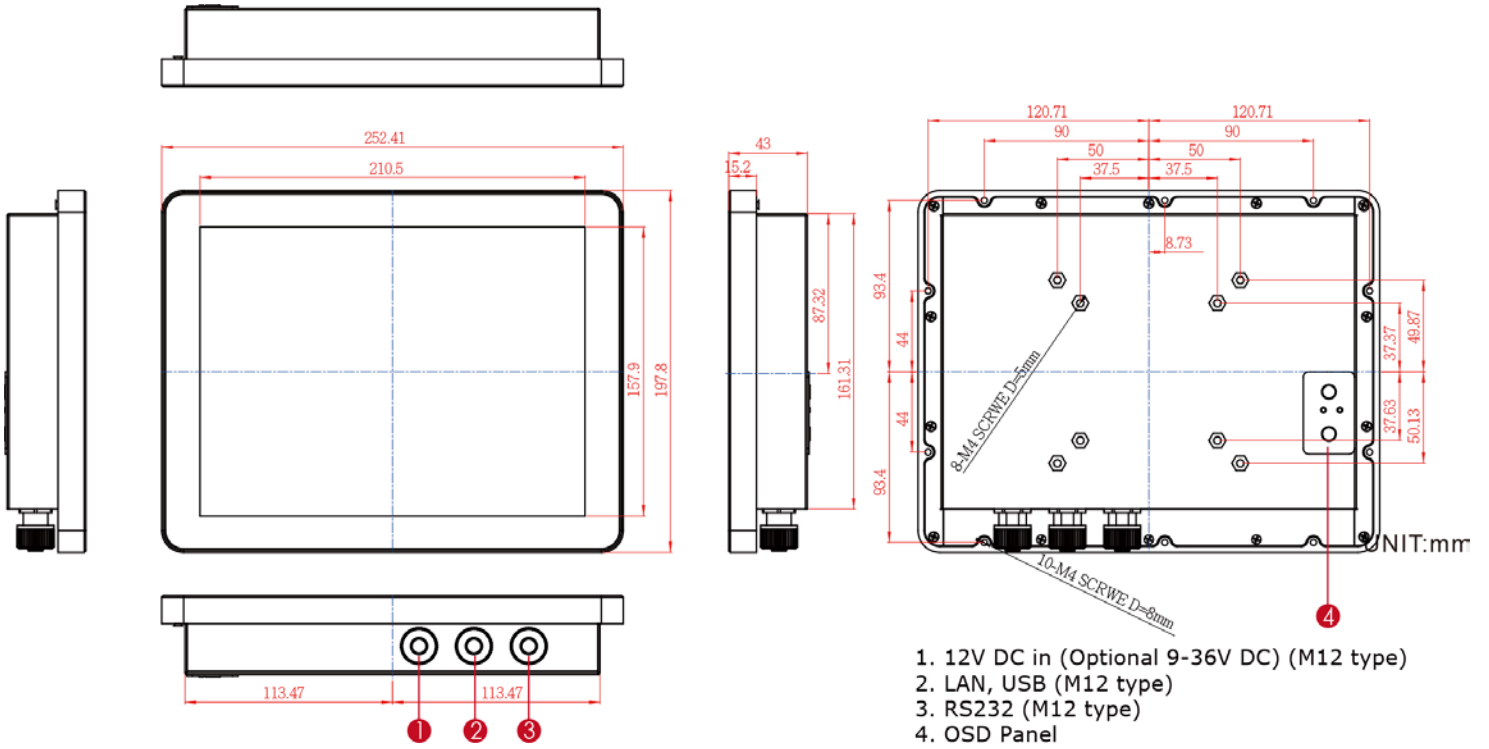
MODEL: WRD1040-J-PCAP

FEATURES:

- 10.4" 1024 x 768 with Projected Capacitive Multi-Touch (P-CAP)
- Intel Celeron Bay Trail-M N2930 1.83 GHz
- Fanless cooling system and Ultra-low power consumption
- Edge-to-edge design
- Full IP65 design with Special M12 Waterproof connectors
- 1 x LAN, 1 x RS232, 1 x USB 2.0

SPECIFICATIONS:

SYSTEM	
Processor	Intel Celeron Bay Trail-M N2930 1.83GHz
System Chipset	Intel ATOM SoC Integrated
Memory	2GB DDR3L 1600 SODIMM (max. 8GB)
Storage	64GB mSATA SSD
INPUT/OUTPUT	
COM port	1x RS232 (M12 type)(Optional 422/485)
USB Ports	1 x USB 2.0 (M12 type)
Ethernet	1x 10/100/1000 LAN (M12 type)
OPERATING SYSTEM	
Operating System	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro Windows Embedded Standard 7
SOFTWARE SUPPORT	
Watchdog SDK	
MECHANICAL SPECIFICATION	
Cooling System	Fanless design
Mounting	VESA Mount (75x75mm), Panel Mount
Dimensions (W x H xD)	252.61 x 198 x 36.4 (mm)

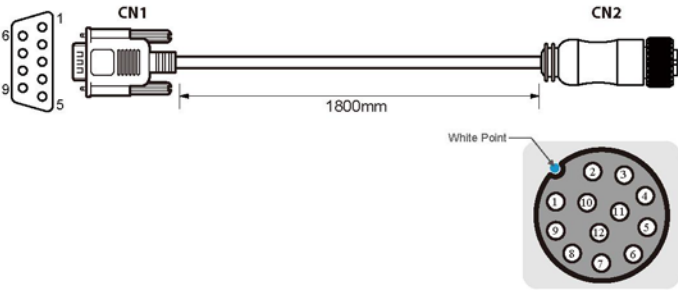| DISPLAY	
Size/Type	10.4" TFT (Widescreen)
Resolution	1024x 768
Brightness	350 cd/m2 (typ.)
Contrast Ratio	1200:1 (typ.)
Viewing Angle	-88~88(H);-88~88(V)
Max Colors	16.2M
Active Display Area	210.4 (H) x 157.8 (V)
Touch	Projected-Capacitive Touch with optional protection glass
POWER CONSIDERATION	
Power Input	12V DC in (Optional 9-36V DC) (M12
Power Consumption	20W
ENVIRONMENT CONSIDERATIONS	
Operating Temperature	-15 deg. C to 55 deg. C
Operating Humidity	10% to 95% (non-condensing)
IP Rating	Full IP65
Shock Operating	40g for 11ms
Vibration Operating	1.48/1.98/2.24 g rms for XYZ/ 5-500Hz
SECURITY SUPPORT	
Trusted Platform Module (TPM 1.2)	
CERTIFICATIONS & STANDARDS	
Compliant with MIL-STD-810F/G for vibration / shock, CE, FCC	

MECHANICAL DRAWING:

1. 12V DC in (Optional 9-36V DC) (M12 type)
2. LAN, USB (M12 type)
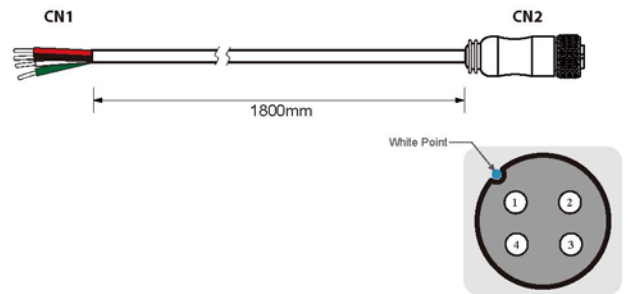3. RS232 (M12 type)
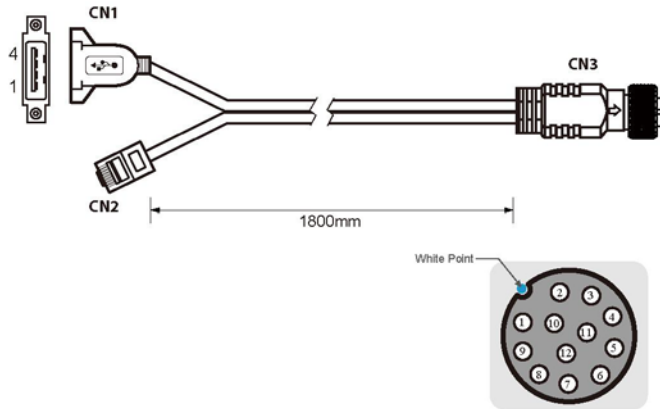4. OSD Panel

PIN ASSIGNMENT OF CABLES

RS-232 to M12 Cable

Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	DCD	Green	⟷	CN2-1	DCD	Green
CN1-6	DSR	Brown	⟷	CN2-2	DSR	Brown
CN1-2	RXD	Red	⟷	CN2-3	RXD	Red
CN1-7	RTS	Orange	⟷	CN2-4	RTS	Orange
CN1-3	TXD	Blue	⟷	CN2-5	TXD	Blue
CN1-8	CTS	White	⟷	CN2-6	CTS	White
CN1-4	DTR	Purple	⟷	CN2-7	DTR	Purple
CN1-9	RI	Yellow	⟷	CN2-8	RI	Yellow
CN1-5	GND	Black	⟷	CN2-9	GND	Black

DC Power to M12 Cable

Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VIN+	Red	⟷	CN2-1	VIN+	Red
CN1-2	VIN-	Black	⟷	CN2-2	VIN-	Black
CN1-3	VIN-	White	⟷	CN2-3	VIN-	White
CN1-4	NC	Green	⟷	CN2-4	NC	Green

USB 2.0 & GIGA LAN to M12 Cable

Pin No.	Symbols	Color		Pin No.	Symbols	Color	
CN3-1	VCC	RED	⟷	CN1-1	VCC	RED	
CN3-2	D-	WHITE	⟷	CN1-2	D-	WHITE	Twisted pairs
CN3-3	D+	GREEN	⟷	CN1-3	D+	GREEN	
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		