

19" Fanless Full IP 67 Panel PC (Intel® Celeron Bay Trail-M N2930 1.83GHz)

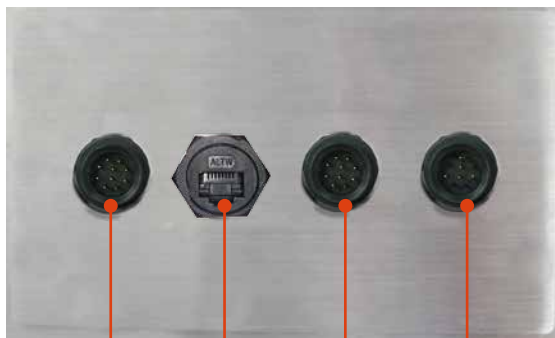
MODEL #: R19IB3S-67A1

Mechanical Design



brushed stainless

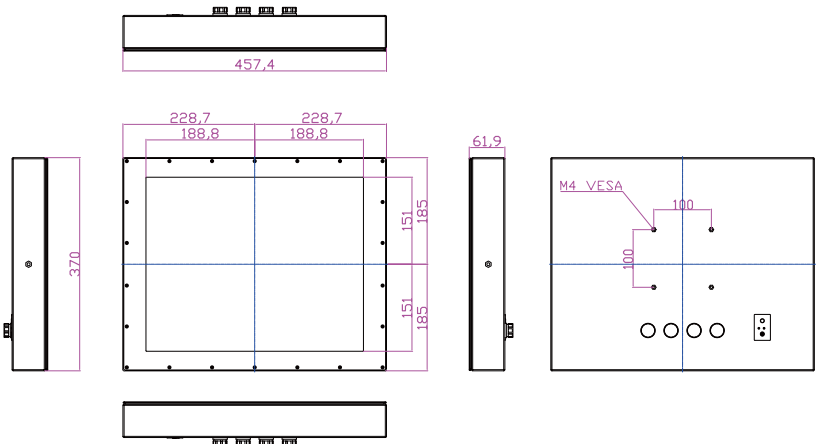
IP67 connector / cable



2 x USB LAN COM2 Power

Features:

- Intel® Celeron Bay Trail-M N2930 1.83GHz Processor
- Fanless Design
- Full IP67 dust/water resistant
- Stainless Housing with Anti-Corrosion Treatment
- Optical Bonding with Anti-moisture Treatment
- 5 Wire Resistive Touch/ Anti-Reflection Protection Glass (Optional)



* 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.

System Specifications

Panel Spec

- Resolutions : 1280x1024
- Brightness : 400 cd/m² (typ.)
- Contrast Ratio : 1000 : 1 (typ.)
- Viewing Angle : -88~88(H); -88~88(V)
- Max. Colors : 16.7M

Dimension

- Dimension : 61.9 x 457.4 x 370 mm (WxLxM)
- Weight : 8.35 kg

SBC Specifications

- Processor : Intel® Celeron Bay Trail-M N2930 1.83GHz
- BIOS : AMI UEFI BIOS
- System Chipset : Intel® Atom SoC Integrate
- System Memory : DDR3L 1066 MHz SO-DIMM Slot, default 4GB Max. 8GB
- Graphic Chipset : Intel® HD Graphics 4400
- Ethernet : 1000 Base-Tx Gigabit Ethernet Compatible
- Audio : Realtek ALC886 codec
- USB : 6 x USB ports, USB 2.0 compliant
- Serial : 2 x RS232, 1 x RS232/422/485 ports
- SSD Interface : 1 x Mini PCIe SSD, default 64GB
- Expansion Slot : 1 x Mini PCIe
- Power Input : DC-IN (Lockable, Power Jack)

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

Power Specifications

- Power Input : 12V DC IN (Lockable Power Jack)
- Power Consumption : 45 (typ.)(Max.backlight W & high CPU load)

Accessories

- External Power Supply 80W w/power cord

Environment Considerations

- Operating Temperature : 0 deg.C to 45 deg.C
- Operating Humidity : 30% to 90% (non condensing)

Input / Output Connectors

- Ethernet LAN : 1 X RJ45-10/100/1000 Mbps
- COM : 1 X RS232
- USB : 2 x USB
- Power : 1 X 12VDC

Order Options

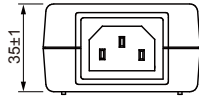
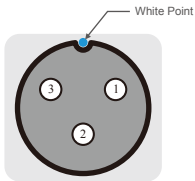
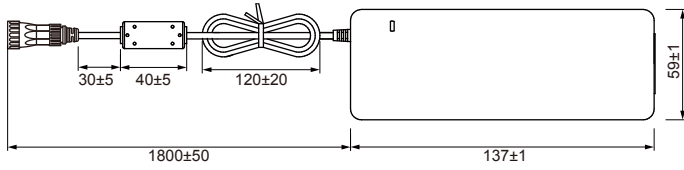
SBC	PANEL PC
RAM : SODIMM DDR3L 2GB/4GB/8GB	Mechanical : Stainless Chassis
Storage : 2.5" HDD/ Mini Pcle SSD	Touch : 5 Wires Resistive(Optional)
	OS : Windows 7 embedded / Windows 8 embedded / Windows 10 IoT Enterprise (Optional)

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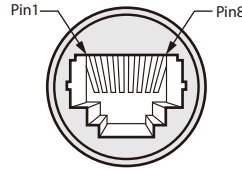
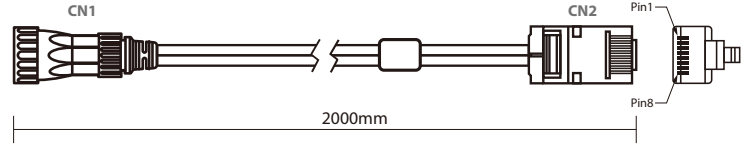
Pin Assignment of cables

Power Cable



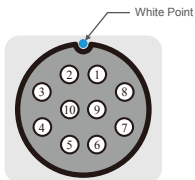
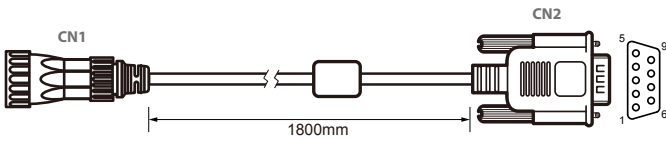
Pin No.	Symbols	Color
CN1-3	GND	Black
CN1-2	shield	
CN1-1	VCC	White

LAN Cable



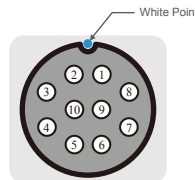
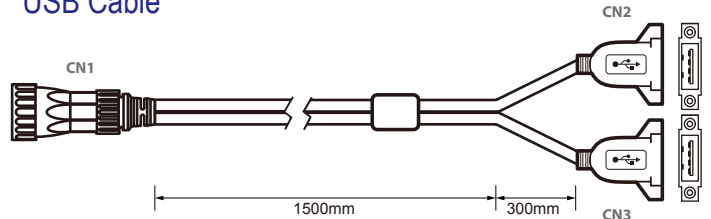
Plug	Wire Color	Conn.	
1	Orange / White	1	Twist
2	Orange	2	
3	Green / White	3	Twist
4	Blue	4	
5	Blue / White	5	Twist
6	Green	6	
7	Brown / White	7	Twist
8	Brown	8	

Serial Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	DCD-CON2	Green	↔	CN2-1	DCD-CON2	Green
CN1-2	DSR-CON2	Brown	↔	CN2-6	DSR-CON2	Brown
CN1-3	RXD-CON2	Red	↔	CN2-2	RXD-CON2	Red
CN1-4	RTS-CON2	Orange	↔	CN2-7	RTS-CON2	Orange
CN1-5	TXD-CON2	Blue	↔	CN2-3	TXD-CON2	Blue
CN1-6	CTS-CON2	White	↔	CN2-8	CTS-CON2	White
CN1-7	DTR-CON2	Purple	↔	CN2-4	DTR-CON2	Purple
CN1-8	RI-CON2	Yellow	↔	CN2-9	RI-CON2	Yellow
CN1-9	GND-CON2	Black	↔	CN2-5	GND-CON2	Black
CN1-10	NC		↔	CN2-10	NC	

USB Cable



Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VCC	RED	↔	CN2-1	VCC	RED
CN1-2	VCC	RED	↔	CN3-1	VCC	RED
CN1-3	D-	WHITE	↔	CN2-2	D-	WHITE
CN1-4	D-	WHITE	↔	CN3-2	D-	WHITE
CN1-5	D+	GREEN	↔	CN2-3	D+	GREEN
CN1-6	D+	GREEN	↔	CN3-3	D+	GREEN
CN1-7	GND	BLACK	↔	CN2-4	GND	BLACK
CN1-8	GND	BLACK	↔	CN3-4	GND	BLACK
CN1-9	Braid		↔	Braid connect to the housing		

twisted pair twisted pair