

# 15" Fanless Full IP67 Panel PC (Intel® Celeron Bay Trail-M N2930 1.83GHz)

MODEL #: R15IB3S-67C3ST

Mechanical Design

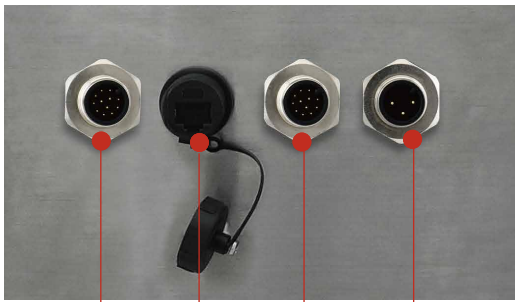


## Features:

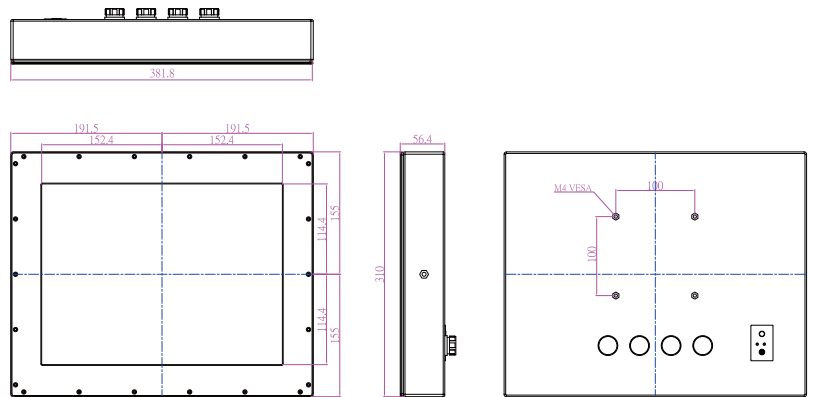
- Intel® Celeron Bay Trail-M N2930 1.83GHz Processor
- Fanless Design
- Full IP67 dust/water resistant
- Stainless Housing with Anti-Corrosion Treatment
- Optical Bonding with Anti-moisture Treatment
- 5 Wire Resistive Touch/ Anti-Reflection Protection Glass (Optional)

brushed stainless

IP67 connector / cable



2 x USB LAN COM2 Power



\* 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

### TFT Characteristics

- Resolutions : 1024x768
- Brightness : 250 cd/m<sup>2</sup> (typ.)
- Contrast Ratio : 700 : 1 (typ.)
- Viewing Angle : -88~88(H); -88~88(V)
- Max. Colors : 16.2M

### Dimension

- Dimension : 383 x 310 x 56.4 mm
- Weight : 7.3 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 1600 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 : 38W (typ.) (Max. backlight & 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

### Mechanical Specifications

- Housing : SUS 316/ AISI 316 stainless steel

### Order Options

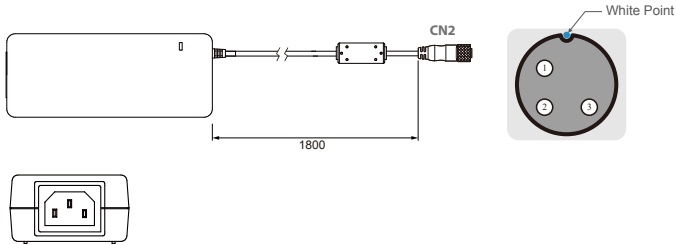
SBC	PANEL PC
RAM : SODIMM DDR3L 2GB/4GB/8GB	Mechanical : Stainless Chassis
Storage : 2.5" HDD/ Mini PCIe SSD	Touch : 5 Wires Resistive(Optional)
	OS : Windows 7 embedded / Windows 8 embedded / Windows 10 IoT Enterprise (Optional)

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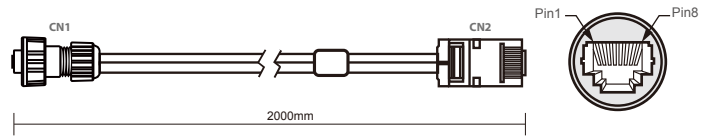
## Pin Assignment of cables

### Power Cable



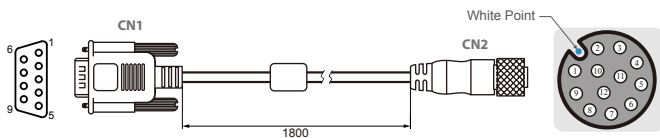
Pin No.	Symbols	Color		Pin No.	Symbols	Color
CN1-1	VIN -	NO ASSIGN	↔	CN2-1	VCC+	Flow Adapter
CN1-2	VIN -	NO ASSIGN	↔	CN2-2	GND	Flow Adapter
CN1-3	VIN -	NO ASSIGN	↔	CN2-3	VCC -	Flow Adapter

### LAN Cable



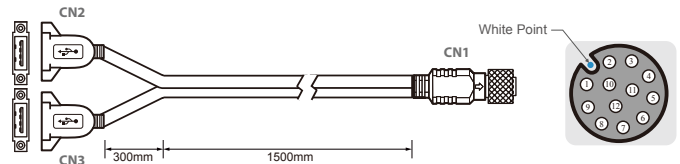
Plug	Wire Color	Conn.	
1	Orange / White	1	Twist
2	Orange	2	
3	Green / White	3	Twist
4	Blue	4	
5	Blue / White	5	Twist
6	Green	6	
7	Brown / White	7	Twist
8	Brown	8	

### RS232 Cable



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

### USB Cable



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