

10" Fanless Full IP67 Panel PC (Intel® Atom™ D2550 Platform)

MODEL #: R10ID3S-67T2

Mechanical Design

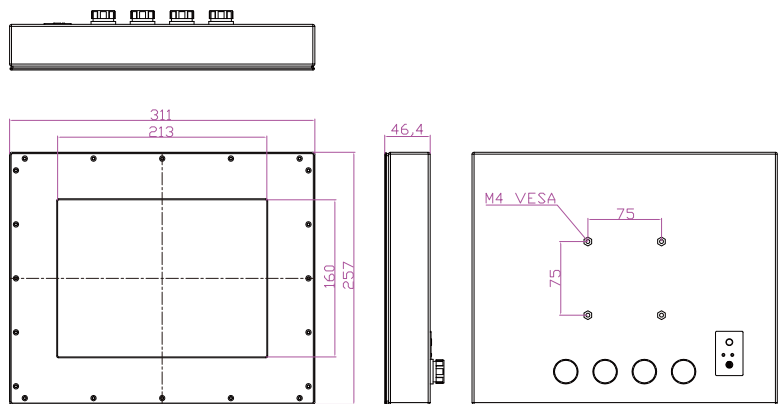


Features:

- Intel® Atom™ Dual Core D2550 1.86GHz 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



* 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

- Size/Type : 10.4" TFT
- Resolutions : 1024 x 768
- Brightness : 350 cd/m² (typ.)
- Contrast Ratio : 1200 : 1 (typ.)
- Viewing Angle : -88~88(H); -88~88(V)
- Max. Colors : 16.2M

Power Specifications

- Power Input : 12V DC IN (Lockable Power Jack)
- Power Consumption : 40W (typ.) (Max. backlight & high CPU load)

Accessories

- External Power Supply 50W w/power cord

Dimension

- Dimension : 64.4 x 457.4 x 370 mm (WxLxH)
- Weight : 8.35 kg

Environment Considerations

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

SBC Specifications

- Processor : Intel® Atom™ Dual Core D2550 1.86GHz Processor
- BIOS : AMI UEFI BIOS
- System Chipset : NM10
- System Memory : Dual DDR3 1066 MHz SO-DIMM Slot, Default 2GB, Max. 4GB
- Graphic Chipset : Integrated Graphic
- 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
1 x RS232 (Optional)
- Storage : 1 x Mini PCIe SSD, Default 32GB
- 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.

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 DDR3 1GB/2GB/4GB	Mechanical : Stainless Chassis
Storage : Mini PCIe SSD	Touch : 5 Wires Resistive (Optional)
	OS : Windows 7 embedded / Windows XP embedded (Optional)

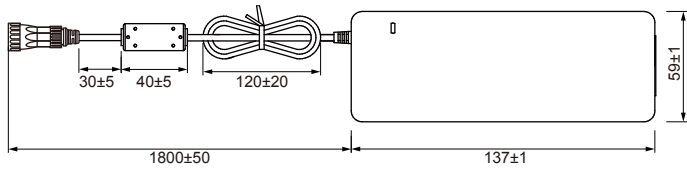


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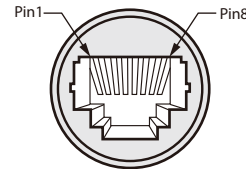
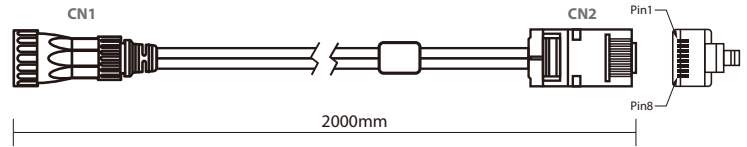
Pin Assignment of cables

Power Cable



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

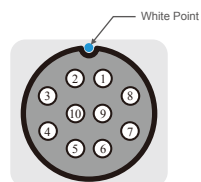
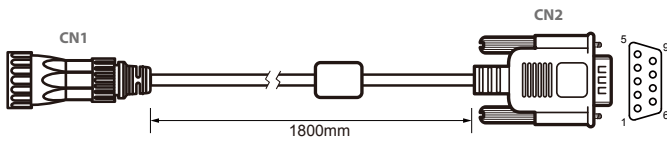
LAN Cable



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

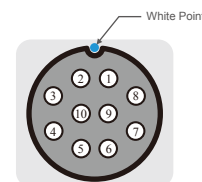
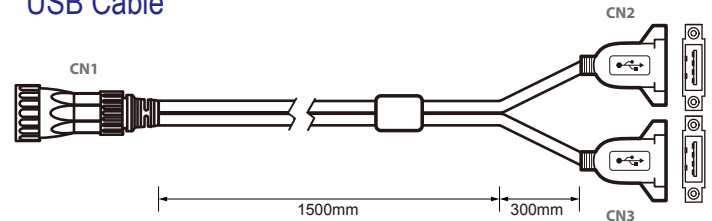
Twist (pins 1, 2)
Twist (pins 3, 6)
Twist (pins 4, 5)
Twist (pins 7, 8)

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 (pins 1, 2)
twisted pair (pins 3, 6)