

# 21.5" Fanless Full IP65/NEMA 4 Panel PC (Intel® Atom™ D2550 Platform)

MODEL #: W22ID3S-65A3

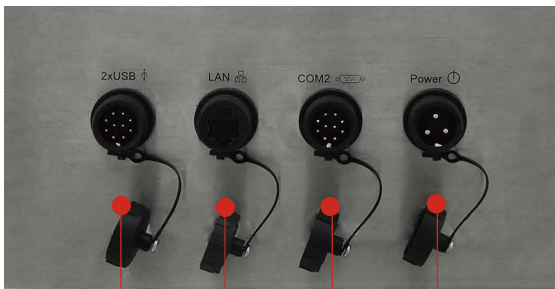
## Mechanical Design



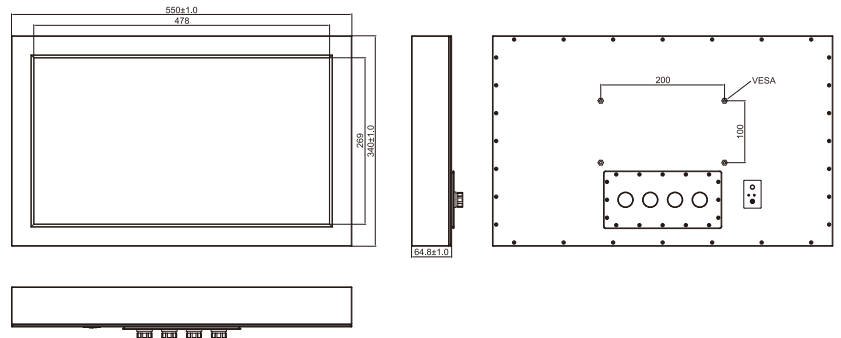
### Features:

- Intel® Atom™ Dual Core D2550 1.86GHz Processor
- Fanless Design
- Full IP65 dust/water resistant
- Stainless Housing with Anti-Corrosion Treatment
- Optical Bonding with Anti-moisture Treatment (Optional)
- 5 Wire Resistive Touch/ Anti-Reflection Protection Glass (Optional)

## IP65 connector / cable



2 x USB2.0 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 : 1920 x 1080
- Brightness : 250 cd/m<sup>2</sup> (typ.)
- Contrast Ratio : 1000 : 1 (typ.)
- Viewing Angles : -85~85(H); -80~80(V)
- Max Colors : 16.7M

### SBC Specifications :

- Processor : Intel® Atom™ Dual Core D2550 1.86GHz Processor
- BIOS : AMI UEFI BIOS
- System Chipset : NM10
- System Memory : Dual DDR3L 1600MHz SO-DIMM Slot, Default 2GB, Max. 4GB
- Graphic Chipset : Integrated Graphic
- Ethernet : 1000 Base-Tx Gigabit Ethernet Compatible
- Audio : Realtek ALC655 codec
- USB : 6 x USB ports, USB 2.0 compliant
- Serial : 2 x RS232, 1 x RS232/422/485 ports 1xRS232(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 more I/O connectors.

### Power Specifications :

- Power Input : 12V DC IN (Lockable Power Jack)
- Power Consumption : 61W (typ.)(Max.backlight & high CPU load)

### Accessories :

- External Power Supply 80W w/power cord

### Environment Considerations :

- Operating Temperature : 0 deg.C to 45deg.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 Max. 4GB	Mechanical : Stainless Chassis
Storage : 2.5" HDD/Mini PCIe SSD	Touch : 5 Wires Resistive(Optional)
	OS : Windows Embedded 7 Standard Windows XP Embedded

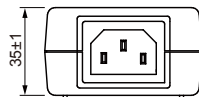
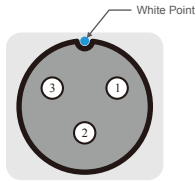
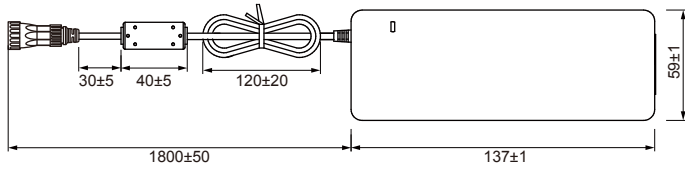


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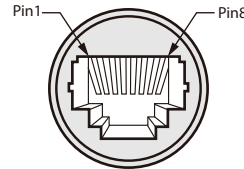
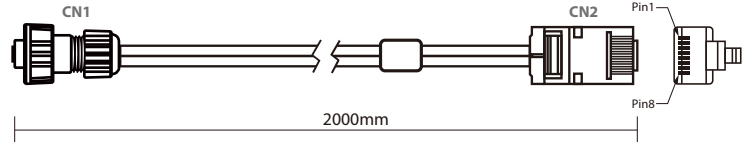
## Pin Assignment of cables

### Power Cable



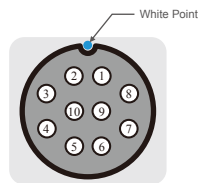
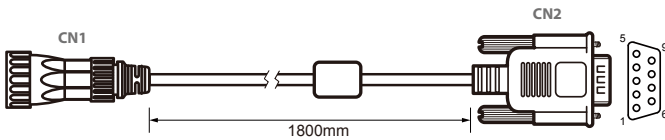
Pin No.	Symbols	Color
CN1-3	GND	Black
CN1-2	shield	
CN1-1	VCC	White

### LAN Cable



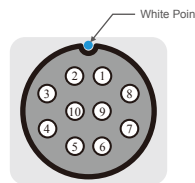
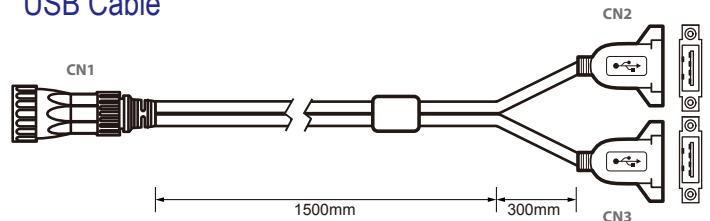
Plug	Wire Color	Conn.	
1	Orange / White	1	Twist
2	Orange	2	
3	Green / White	3	Twist
4	Blue	4	
5	Blue / White	5	Twist
6	Green	6	
7	Brown / White	7	Twist
8	Brown	8	

### 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