

# 23.8" Fanless Full IP65 Resistive Touch Panel PC (7th Generation (Kaby Lake) Intel® Core™ i5-7200U 2.5GHz)

MODEL #: W24IK3S-65A2

## Mechanical Design

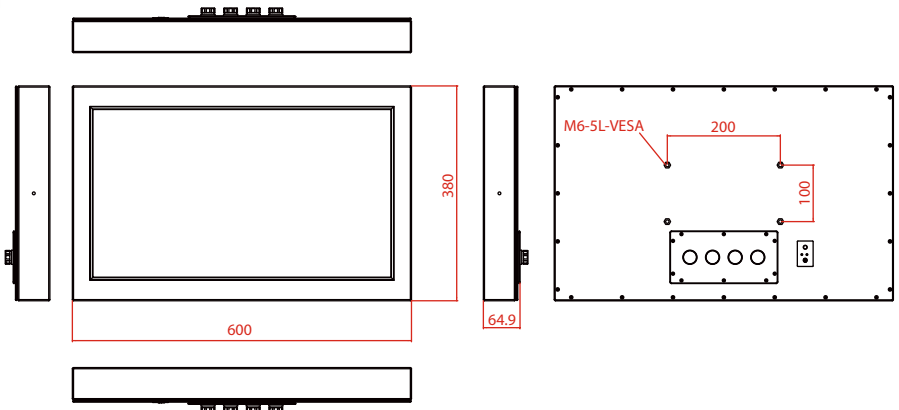


### Features:

- 7<sup>th</sup> Generation (Kaby Lake) Intel® Core™ i5-7200U 2.5GHz (turbo to 3.1GHz)
- Fanless Design
- Full IP65 dust/water resistant
- Stainless Housing with Anti-Corrosion Treatment
- Optical Bonding with Anti-moisture Treatment (Optional)
- Anti-Reflection Protection Glass (Optional)



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

- Size : 23.8 inch
- Resolutions : 1920 x 1080
- Brightness : 250 cd/m<sup>2</sup> (typ.)
- Contrast Ratio : 3000 : 1(typ.)
- Aspect Ratio : 16:9
- Max Colors : 16.7M
- Viewing Angles : -89~89(H); -89~89(V)

### SBC Specifications :

- Processor : Intel® Core i5-7200U 2.5GHz (turbo to 3.1GHz)
- BIOS : Insyde BIOS
- System Chipset : Intel® SoC Integrated
- System Memory : 4GB DDR4-2133 SO-DIMM (Max 16GB)
- Graphic Chipset : Intel® HD Graphics 620
- LAN : Intel® Gigabit-LAN Controller I211AT + PHY I219LM
- Storage : 64GB M.2 B Key SATA III SSD (Options up to 512GB)
- USB : 2 x USB 2.0
- Serial : 1 x RS232
- Power Input : DC-IN
- Audio : Realtek ALC283 HD Audio Codec

\* 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 : 56W

### Environment Considerations :

- Operating Temperature : 0 deg.C to 50 deg.C
- Operating Humidity : 30% to 90% (non condensing)
- IP Rating : Full IP65 Protection
- Mounting : VESA, Yoke Mounting

### Input/ Output Connectors :

- Ethernet LAN : 1 X RJ45-10/100/1000 Mbps
- COM : 1 X RS232
- USB : 2 x USB 2.0
- Power : 1 X 12VDC

### Accessories :

- External Power Adapter 80W w/power cord
- LAN Cable
- Serial Cable
- USB Cable
- VESA screws

### Order Options :

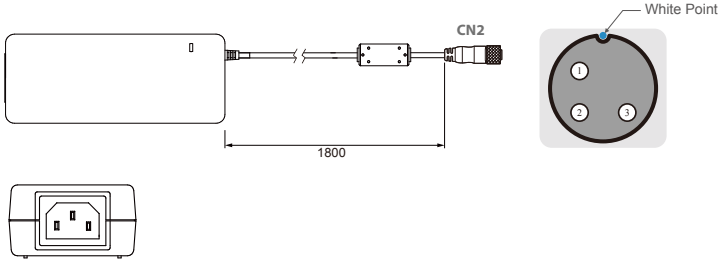
SBC	PANEL PC
RAM : SODIMM DDR4 (up to 16GB)	OS : Windows 10 IoT Enterprise Ubuntu 18.04
Storage : M.2 B Key SATA III (up to 512GB)	

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## Pin Assignment of cables

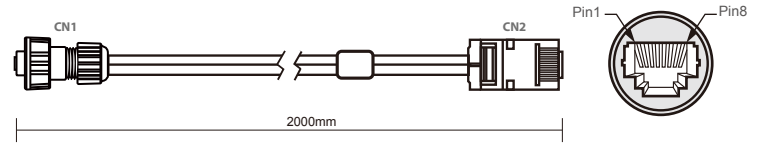
### Power Cable



Pin No.	Symbols	Color
CN1-1	VIN -	NO ASSIGN
CN1-2	VIN -	NO ASSIGN
CN1-3	VIN -	NO ASSIGN

Pin No.	Symbols	Color
CN2-1	VCC+	Flow Adapter
CN2-2	GND	Flow Adapter
CN2-3	VCC -	Flow Adapter

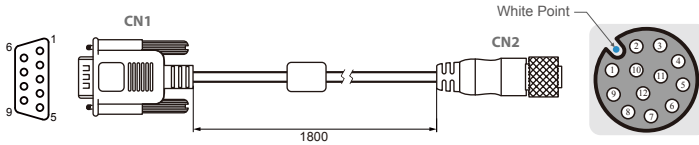
### LAN Cable



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  
Twist  
Twist

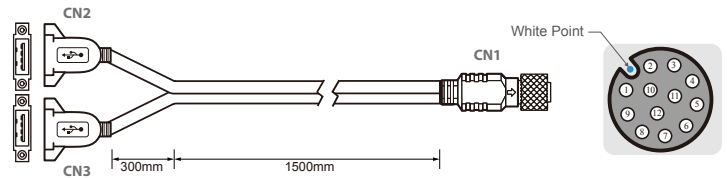
### RS232 Cable



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

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

### USB Cable



Pin No.	Symbols	Color
CN1-2	VCC	RED
CN1-3	D-	WHITE
CN1-4	D+	GREEN
CN1-5	GND	BLACK
CN1-6	VCC	RED
CN1-7	D-	WHITE
CN1-8	D+	GREEN
CN1-9	GND	BLACK
CN1-1	GND	Braid

Pin No.	Symbols	Color
CN2-1	VCC	RED
CN2-2	D-	WHITE
CN2-3	D+	GREEN
CN2-4	GND	BLACK
CN3-1	VCC	RED
CN3-2	D-	WHITE
CN3-3	D+	GREEN
CN3-4	GND	BLACK

twisted pair  
twisted pair

Braid connect to the housing