

# 19" Flat Stainless P-Cap IP69K Panel PC (Intel® 7th Generation Core™ i5 Platform)

Flat Stainless P-Cap Chassis

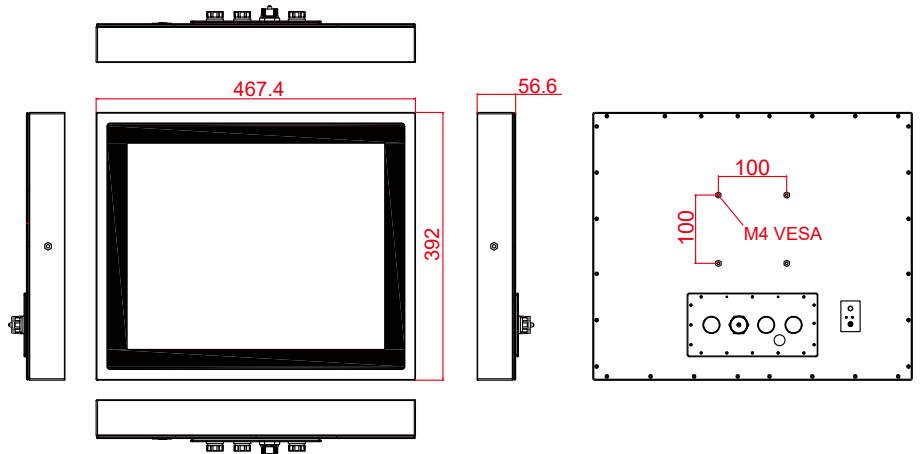
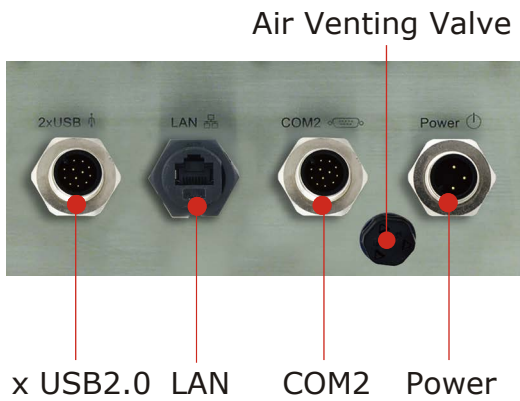
MODEL #: R19IK3S-SPM169



## Features:

- 19", 1280 x 1024 -cap touch with flat design
- 7th Generation (kaby Lake) Intel® Core™ i5-7200U 2.5GHz (turbo to 3.1GHz)
- SUS 316 / AISI 316 stainless steel for food and chemical industries
- Full IP69K waterproof enclosure, good corrosion resistance
- A true flat, easy-to-clean front surface with edge-to-edge design
- Plenty of I/Os, including USB 2.0, RS232 and RJ45-10/100/1000 LAN
- Waterproof ports with adapter cables for external connectivity
- Supports VESA mount
- Supports Glove/ Rain mode (Optional)

## Waterproof 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

### TFT Characteristics

- Resolution : 1280 x 1024
- 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
- Touchscreen : Projected Capacitive Multi-Touch (Default); Non-touch glass (Optional); Anti-glare coating (Optional)

### 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 (typ.)(Max.backlight & high CPU load)

### Environment Considerations

- Operating Temperature : 0 deg.C to 45 deg.C
- Operating Humidity : 30% to 90% (non condensing)
- IP Rating : IP69K, air venting valve

### 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

### Mechanical Specifications :

- Housing : SUS 316/ AISI 316 stainless steel

### Accessories :

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

### Order Options :

| SBC   | PANEL PC                       |
|---|--------------------------------|
| RAM : SODIMM DDR4 2GB/4GB/8GB/16GB                          | OS : Windows 10 IoT Enterprise |
| Storage : 64GB M.2 B Key SATA III SSD (Options up to 256GB) |                                |



Note: All Specifications are subject to change without prior notice!

Revised Date:07-Sep-2020 V1.6

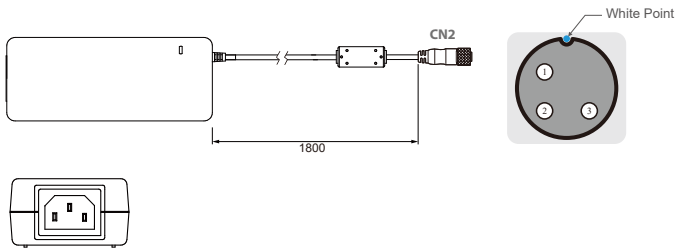
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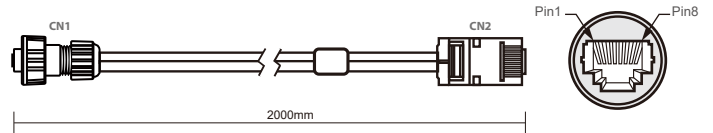
Pin Assignment of Cables

## Power Cable



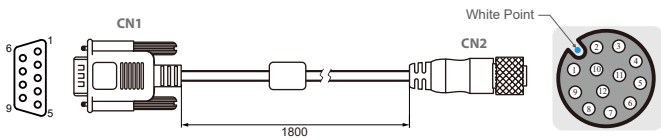
| Pin No. | Symbols | Color     |   | Pin No. | Symbols | Color        |
|---------|---------|-----------|---|---------|---------|--------------|
| CN1-1   | VIN -   | NO ASSIGN | ↔ | CN2-1   | VCC+    | Flow Adapter |
| CN1-2   | VIN -   | NO ASSIGN | ↔ | CN2-2   | GND     | Flow Adapter |
| CN1-3 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

## LAN Cable



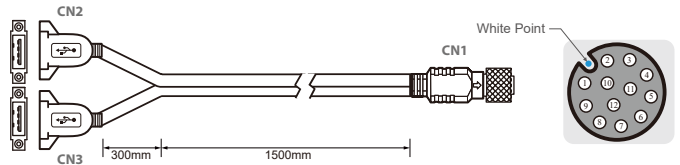
| Plug | Wire Color     | Conn. |       |
|------|----------------|-------|-------|
| 1    | Orange / White | 1     | Twist |
| 2    | Orange         | 2     |       |
| 3    | Green / White  | 3     |       |
| 4    | Blue           | 4     | Twist |
| 5    | Blue / White   | 5     |       |
| 6   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