

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-19A-LLH310I-S18



(Full size images available on web site)

### TPM Support: 2.0 Module Included

#### Type:

- Panel PC
- **Screen:**
  - 19" 5-Wire Resistive, Native Resolution: 1280 x 1024, Front Panel Rating: IP65 / NEMA4
- **Mounting:** Bezel Mounting Hardware Included, Suitable for Mounting in Cut-Out

#### Motherboard:

- Featuring Intel H310 Chipset and 8th and 9th Gen Core i7/i5/i3 (LGA1151) processor
- **Long Production Cycle Motherboard (Through Q1 2025)**
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** VGA + DisplayPort + HDMI
- **Audio:** Realtek ALC887 codec
- **Ports:**
  - 2x USB 2.0 Ports ( 2 Front )
  - 4x USB 3.2 Gen 1 Ports ( 4 Rear )
  - 4x COM Ports (2 RS232 Rear, 2 RS232 Internal Headers)
  - See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)

#### Configuration summary:

- **Processor:** G4900 - 3.1GHz Intel Celeron CPU - Dual Core, 2MB Cache, UHD Graphics 610 (54W) (ERM) - or Better
- **Memory:** 8GB DDR4 2666MHz SODIMM RAM
- **Hard Drive:** 250GB NVMe SSD M.2

2.9GB/1.3GB - Samsung 980

- **Power Supply:** 160w output, 12v input DC-DC Power Supply - AC Adapter Included
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

## Technical Specifications

### MotherBoard Specifications:

#### Motherboard Model

- Motherboard Type: MiniITX
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2025

#### Supported CPU

- Number of Processors: 1
- Processor Type: 8th and 9th Gen Core i7/i5/i3 (LGA1151)

#### Chipset

- Chipset: Intel H310 Chipset

#### Memory

- Memory Type: SO DIMM DDR4 2400MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 32GB

#### On Board Audio

- Audio Type: Realtek ALC887 codec

#### On Board Video

- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: VGA + DisplayPort + HDMI
- VGA Port Out: 1
- Display Port Out: 1
- HDMI Out: 1

#### LAN

- LAN Ports: 2
- LAN Type: 1GbE + 1GbE
- LAN Chipset: Intel GbE LAN chip
- Second LAN Chipset: Intel GbE LAN chip
- Wireless LAN: No Integrated WLAN

### Display Specifications

#### Display

- Screen Size (inches): 19
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 5 : 4
- Native Display Resolution: 1280 x 1024
- Brightness (nits): 350
- Screen Refresh Rate: 60Hz
- Display Area (H): 376.32mm
- Display Area (V): 301.07mm
- Aspect Ratio: 5 : 4
- DisplayColors: 16.7 M
- Contrast Ratio: 1000:1
- Backlight: LED
- Viewing Angle(U) : 80
- Viewing Angle(D) : 80
- Viewing Angle(L) : 80
- Viewing Angle(R) : 80

#### Connectivity

- VGA Port In: 1
- DVI-I In: 1
- HDMI In: 1
- Touchscreen Interface USB Port (Front): 1

#### Mounting Options

- Mounting Options: VESA 75mm x 75mm, VESA 100mm x 100mm, Bezel Mounting Hardware Included, Other options sold separately
- Suggested Cut-Out Dimension (Width): Click Available Downloads Tab > Mechanical Drawings
- Suggested Cut-Out Dimension (Height): Click Available Downloads Tab > Mechanical Drawings

#### Physical

- Width: Click Available Downloads Tab >

### **Drive Interface**

- SATA III Ports (6GB): 4

### **Mini PCIe**

- mini PCIe
- mSATA
- half and/or full size mini PCIe card: full size

### **M.2 Slot Specs**

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCIe Signal
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.

### **Rear IO**

- USB 3.2 Gen 1 Type A Ports (on IO): 4
- Serial (Rear IO): 2
- Audio on IO

### **Headers**

- USB 2.0 Ports (on Headers): 2
- Serial (via Headers): 2
- FAN Connectors: 2
- Audio on Headers
- TPM Support: 2.0 Module Included

### **Environmental**

- Operating Temperature: 0°C to 60°C (32°F to 140°F )
- High Humidity: 95%
- Low Humidity: 5%

### **Operating System Support**

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Value 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- Windows 10 IoT 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End
- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 IoT 2024 LTSC Value
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop
- LINUX Ubuntu Workstation
- Ubuntu Server Edition

### **Compliance of Component**

- CE

### **Mechanical Drawings**

- Height: Click Available Downloads Tab > Mechanical Drawings
- Depth: Click Available Downloads Tab > Mechanical Drawings
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 14lbs
- Shipping Weight: 40lbs

### **Environmental**

- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- High Humidity: 90%
- Low Humidity: 8%
- Storage Temp (High): 60C
- Storage Temp (Low): -10C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 8%

### **Power**

- Power Supply: AC 100~240V/12V DC
- Power Consumption (on): 18Watts

### **Compliance of Component**

- CE
- RoHS
- CCC

### **Warranty**

- Warranty: 1 year

### **Other**

- Features:

### **Industrial Display**

- Screen Size: 19"
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 1280 x 1024
- Brightness (nits): 350

- RoHS
- FCC

#### **Other Features**

- Other Features:
  - 1 x PCI Express x16 slot, running at x16 (PCIEX16)  
(The PCIEX16 slot conforms to PCI Express 3.0 standard.)
  - 1 x M.2 Socket 1 connector for an Intel® CNVi or PCIe wireless module (CNVI)
  - 1 x full size Mini PCIe connector (MSATA\_PCIE)
    - \* The MSATA\_PCIE slot shares bandwidth with the SATA3 2 connector. When an MSATA SSD is populated, the SATA3 2 connector becomes unavailable.
    - \* The MSATA\_PCIE connector can also be used as an MSATA connector.  
(The Mini PCI Express slot conforms to PCI Express 2.0 standard.)
- Motherboard Warranty: 1 Year

#### Chassis Specifications:

##### **General**

- Form Factor: Micro PC
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: Mini ITX
- Slide Rails: Optional

##### **Expansion**

- Full Height Slots: 1
- Max Card Depth: 7.5"
- Internal 2.5" Bays: 2
- Serial Port Punchouts: 3
- Parallel Port Punchouts: 1
- Antennae Punchout: 2

##### **Front Ports**

- USB 2.0 Ports (Front): 2

##### **Cooling System**

- Maximum Fan Count: 2

##### **Physical**

- Depth: 2.60"
- Depth (Inches): 2.6
- Width: 12.30"

- Height: 8.27"
- Shipping Box - Depth: 16"
- Shipping Box - Width: 16"
- Shipping Box - Height: 8"
- Shipping Weight: 11lbs

**Other Features**

- Chassis Warranty: 1 Year

**Power**

- Built-in Chassis Power Supply: AC/DC Power Adapter Included



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