

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-19A-AH310I-S19



(Not all images available on web site)

### 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
- **Low Profile Slots:**
  - 1 - PCIe x16
- **LAN:** 1x Ports (GB (10/100/1000))
- **WiFi:** Integrated Intel 802.11ac WiFi Module + Bluetooth 4.2 - Removable Under Networking Section
- **Video:** DVI-I + HDMI + DisplayPort
- **Audio:** 8-Channel HD Audio by Realtek ALC887
- **Ports:**
  - 4x USB 2.0 Ports ( 2 Front, 2 Rear )
  - 4x USB 3.2 Gen 1 Ports ( 2 Rear, 2 Internal Headers )
  - See specifications for more ports
- **Operating Temperature:** 0°C to 50°C (32°F to 122°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 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

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

#### On Board Audio

- Audio Type: 8-Channel HD Audio by Realtek ALC887

#### On Board Video

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

#### LAN

- LAN Ports: 1
- LAN Type: GB (10/100/1000)
- LAN Chipset: Intel i219V
- Wireless LAN: Integrated Intel 802.11ac WiFi Module + Bluetooth 4.2 - Removable Under Networking Section

#### Drive Interface

### 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 >

- SATA III Ports (6GB): 4

#### **Expansion Slots**

- PCI Express x16 Slots On Motherboard: 1

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

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

#### **Rear IO**

- PS/2 Combo (Mouse/Keyboard)
- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 1 Type A Ports (on IO): 2
- Audio on IO

#### **Headers**

- USB 2.0 Ports (on Headers): 2
- USB 3.2 Gen 1 Ports (on Headers): 2
- FAN Connectors: 2
- Audio on Headers
- Chassis Intrusion

#### **Environmental**

- Operating Temperature: 0°C to 50°C (32°F to 122°F )
- High Humidity: 90%
- Low Humidity: 5%

#### **Operating System Support**

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 IoT Value
- Windows 10 IoT Ent
- Windows 10 IoT Value 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- LINUX Ubuntu Desktop
- LINUX Ubuntu Workstation

#### **Compliance of Component**

- CE
- RoHS
- FCC

#### **Other Features**

- Other Features: - 1 x PCI Express 3.0 x16 Slot (PCIe1: x16 mode)\* - 1 x Vertical M.2 Socket (Key E) with the bundled WiFi-802.11ac module (on the rear I/O) \*Supports NVMe SSD as boot disks 1 x M.2 Socket, supports M Key type 2280 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen2 x4 (20 Gb/s)\*\* \*If M2\_1 is occupied by a SATA-type M.2 device, SATA3\_0 will be disabled.

#### **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
- Low Operating Temp: 00
- 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

- Motherboard Warranty: 1 Year

## Chassis Specifications:

### General

- Form Factor: Embedded PC
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: Mini ITX

### Expansion

- Low Profile Slots: 1
- Max Card Depth: 7.5"
- Internal 2.5" Bays: 2
- Serial Port Punchouts: 2
- Parallel Port Punchouts: 1

### Front Ports

- USB 2.0 Port (Front): 2

### Cooling System

- Maximum Fan Count: 2

### Physical

- Depth: 8.30"
- Depth (Inches): 8.27
- Width: 8"
- Height: 3.50"
- Shipping Box - Depth: 150mm
- Shipping Box - Width: 380mm
- Shipping Box - Height: 27mm
- Shipping Weight: 13lbs

### Other Features

- Chassis Warranty: 1 Year

### Power

- Built-in Chassis Power Supply: Power Adapter  
Included



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