# HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-19A-LLH610I-S18

## 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 H610 Chipset and 12th Gen Core, Pentium Gold and Celeron, LGA1700 processor
- **Long Production Cycle Motherboard (Through Q2 2030)**
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** 1x DisplayPort, 2x HDMI
- **Audio:** Realtek ALC897
- **Ports:**
  2x USB 2.0 Ports ( 2 Front )
  4x USB 3.2 Gen 1 Ports ( 4 Rear )
  2x COM Port (RS232/422/485 Rear)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 60ºC (32ºF to 140ºF)

## Configuration summary:

- **Processor:** i3-12100 - 3.30GHz (up to 4.30GHz) Intel Core CPU - 4 Core, 12MB Cache, UHD Graphics 730 (Base 60W, Max 89W) (ERM)
- **Memory:** 8GB DDR5 5600MHz RAM Non-ECC Unbuffered SODIMM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **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: Q2 2030

**Supported CPU**
- Number of Processors: 1
- Processor Type: 12th Gen Core, Pentium Gold and Celeron, LGA1700

**Chipset**
- Chipset: Intel H610 Chipset

**Memory**
- Memory Type: SO DIMM DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 64GB

**On Board Audio**
- Audio Type: Realtek ALC897

**On Board Video**
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 1x DisplayPort, 2x HDMI
- Display Port Out: 1
- HDMI Out: 2

**LAN**
- LAN Ports: 2
- LAN Type and IPMI: 1GbE + 1GbE
- LAN Chipset: Intel i219V
- Second LAN Chipset: Intel i210AT
- Wireless LAN: No Integrated WLAN

**Drive Interface**
- SATA III Ports (6GB): 3

**M.2 Slot Specs**

## 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**
- HDMI In: 1
- Display Port 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):
- Suggested Cut-Out Dimension (Height):

**Physical**
- Width:
- Height:
- Depth:
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 14lbs

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 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 232/422/485 Ports: 2
- Audio on IO

**Headers**

- USB 2.0 Ports (on Headers): 2
- FAN Connectors: 2
- Audio on Headers
- LVDS
- Chassis Intrusion
- TPM Support: Via 2.0 Header

**Environmental**

- Operating Temperature: 0ºC to 60ºC (32ºF to 140ºF )
- High Humidity: 95%
- Low Humidity: 10%

**Operating System Support**

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- 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

**Compliance of Component**

- CE
- FCC

**Other Features**

- Features:
  1x PCIe 4.0 x16 slot

  1x M.2 Socket 3 with keiy M, type 2242/2260/2280 (SATA/PCIe x4 mode)

  1x M.2 Socket 1 with Key E, type 2230 for WIFI/BT device (PCIe & CNVi)

  * Access to PCI Express slot requires expansion

- 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
  - Wide Voltage 9-36VDC

slot and a riser in some chassis models. Please check Chassis Specification section for more information.

If you have any questions, please discuss with our Sales Engineers

- 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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