

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-12A-LLH310TN-S29



(Full size images available on web site)

### Short Depth, VESA Mountable

#### Type:

- Panel PC
- **Screen:**
  - 12" 5-Wire Resistive, Native Resolution: 800 x 600, 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)**
- **No Available Slots**
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** HDMI + Displayport + Optional VGA
- **Audio:** Realtek ALC887 codec
- **Ports:**
  - 4x USB 2.0 Ports ( 2 Front, 2 Rear )
  - 4x USB 3.2 Gen 1 Ports ( 2 Rear, 2 Internal Headers )
  - 4x COM Ports (2 RS232 Internal Headers, 2 RS232/422/485 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 SODIMM RAM
- **Hard Drive:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **Power Supply:** AC/DC Power 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 2133MHz
- 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: HDMI + Displayport + Optional VGA
- 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): 12
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 4 : 3
- Native Display Resolution: 800 x 600
- Brightness (nits): 400
- Screen Refresh Rate: 60Hz
- Display Area (H): 246mm
- Display Area (V): 184.50mm
- Aspect Ratio: 4 : 3
- DisplayColors: 16.2 M
- Contrast Ratio: 600:1
- Backlight: LED
- Viewing Angle(U) : 65
- Viewing Angle(D) : 75
- 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: Bezel Mounting Hardware Included, Other options sold separately
- Suggested Cut-Out Dimension (Width):
- Suggested Cut-Out Dimension (Height):

#### Physical

- Width:
- Height:
- Depth:

### **Drive Interface**

- SATA III Ports (6GB): 2

### **Expansion Slots**

- PCI Express x4 Slots On Motherboard: 1

### **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
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.

### **Rear IO**

- 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
- Serial (via Headers): 2
- Serial 232/422/485 Ports: 2
- FAN Connectors: 2
- Audio on Headers
- Chassis Intrusion
- DC Power: Supports 12V/19V/24V power adapter of up to 150w

### **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)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Value
- Windows 10 IoT Ent
- 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)

- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 9lbs
- Shipping Weight: 25lbs

### **Environmental**

- MTBF: 50000hours
- Maximum Operating Temperature: 80C
- High Humidity: 90%
- Low Humidity: 8%
- Storage Temp (High): 80C
- Storage Temp (Low): -30C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 8%

### **Power**

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

### **Compliance of Component**

- CE
- CCC

### **Warranty**

- Warranty: 1 year

### **Other**

- Built-in Chassis Power Supply: Wide Voltage Input (9-36VDC)
- Features:

### **Industrial Display**

- Screen Size: 12"
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 800 x 600
- Brightness (nits): 400
- Wide Voltage Input (9-36VDC)

- Windows 11 IoT 2024 LTSC Value
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop

#### **Compliance of Component**

- UL
- CE
- RoHS
- FCC

#### **Other Features**

- Other Features:
  - 1 x PCI Express x4 slot  
(The PCI Express x4 slot conforms to PCI Express 3.0 standard.)
  - 1 x M.2 Socket 1 connector for an Intel® CNVi or a PCIe wireless module (CNVi)
  - 1x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA and PCIe x2 SSD support)
  - 1 x full size Mini PCIe connector (MSATA\_PCIE)  
\* The MSATA\_PCIE connector can also be used as an MSATA connector.  
(The Mini PCIe connector conforms to PCI Express 2.0 standard.)
- Motherboard Warranty: 1 Year

### Chassis Specifications:

#### **General**

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

#### **Expansion**

- Internal 2.5" Bays: 1
- Serial Port Punchouts: 3
- Parallel Port Punchouts: 1

#### **Front Ports**

- USB 2.0 Ports (Front): 2

#### **Physical**

- Depth: 193mm
- Depth (Inches): 7.6
- Width: 215mm
- Height: 45mm

- Shipping Box - Depth: 13"
- Shipping Box - Width: 9"
- Shipping Box - Height: 5"
- Shipping Weight: 5lbs

**Other Features**

- Chassis Warranty: 1 Year

**Power**

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



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