

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-12A-J5040-S19



(Full size images available on web site)

### 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 Pentium SoC and Intel Pentium Quad-Core Processor J5040 (up to 3.2 GHz)
- **Low Profile Slots:**
  - 1 - PCIe x1
- **LAN:** 1x Ports (1GbE (10/100/1000))
- **Video:** VGA + DVI-D + HDMI
- **Audio:** Realtek ALC892
- **Ports:**
  - 5x USB 2.0 Ports ( 2 Front, 2 Rear, 1 Internal Headers )
  - 4x USB 3.2 Gen 1 Ports ( 2 Rear, 2 Internal Headers )
  - 1x COM Port (RS232 Internal Headers)
  - See specifications for more ports
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)

### Configuration summary:

- **Memory:** 8GB DDR4 2666MHz SODIMM RAM
- **Hard Drive:** 250GB SSD SATA 6.0Gb/s 560/530MB/s 2.5" - Samsung 870 EVO
- **Power Supply:** 90w 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: Embedded CPUs (ultra-low power, soldered down)
- Embedded CPU: Intel Pentium Quad-Core Processor J5040 (up to 3.2 GHz)

### Chipset

- Chipset: Intel Pentium SoC

### Memory

- Memory Type: DDR4 2400MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 8GB

### On Board Audio

- Audio Type: Realtek ALC892

### On Board Video

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

### LAN

- LAN Ports: 1
- LAN Type: 1GbE (10/100/1000)
- LAN Chipset: Realtek RTL8111H
- Wireless LAN: No Integrated WLAN

### Drive Interface

- SATA III Ports (6GB): 4

### Expansion Slots

- PCI Express x1 Slots On Motherboard: 1

### M.2 Slot Specs

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

### Environmental

- MTBF: 50000hours

- M.2 Slot #1 Specs
- PCIe Signal
- 2230 - 22 mm x 30 mm.

#### **Rear IO**

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

#### **Headers**

- USB 2.0 Ports (on Headers): 3
- USB 3.2 Gen 1 Ports (on Headers): 2
- Serial (via Headers): 1
- FAN Connectors: 2
- Audio on Headers

#### **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 Entry 2019 LTSC
- Windows 10 IoT 2021 LTSC Entry
- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 IoT 2024 LTSC Entry
- LINUX Ubuntu Desktop

#### **Compliance of Component**

- CE
- FCC

#### **Other Features**

- Other Features:
  - \*USB3\_0\_1 is shared with USB\_0\_1.
- Motherboard Warranty: 1 Year

- 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)

### 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 Ports (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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