

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-22AWHD-J5040-S19



### Type:

- Panel PC
- **Screen:**
  - 21.5" Multi-Touch Projected Capacitive, Native Resolution: 1920 x 1080, Front Panel Rating: Not Rated
- **Mounting:** 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

### Display Specifications

#### Display

- Screen Size (inches): 21.5
- Touch Type: Multi-Touch Projected Capacitive
- Aspect Ratio: 16 : 9
- Native Display Resolution: 1920 x 1080
- Brightness (nits): 250
- Screen Refresh Rate: 60Hz
- Display Area (H): 476.06mm
- Display Area (V): 267.79mm
- Aspect Ratio: 16 : 9
- DisplayColors: 16.7 M
- Contrast Ratio: 3000:1
- Backlight: LED
- Viewing Angle(U) : 178
- Viewing Angle(D) : 178
- Viewing Angle(L) : 178
- Viewing Angle(R) : 178

#### 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, 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: 12lbs
- Shipping Weight: 18lbs

#### Environmental

- MTBF: 30000hours

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

- 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

## Chassis Specifications:

### **General**

- Form Factor: Embedded PC

- Maximum Operating Temperature: 50C
- High Humidity: 90%
- Low Humidity: 5%
- Storage Temp (High): 60C
- Storage Temp (Low): -20C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 5%

### **Power**

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

### **Compliance of Component**

- CCC

### **Warranty**

- Warranty: 1 year

### **Other**

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

21.5" Open Frame Widescreen

## Display Specifications

- Display
  - Screen Size: 21.5"
  - Touch Type: Multi-Touch Projected Capacitive
  - Front Panel Rating: Not Rated
  - Color: Black
  - Native Display Resolution: 1920 x 1080
  - Brightness (nits): 250
  - Aspect Ratio: 16 : 9
  - DisplayColors: 16.7 M
  - Contrast Ratio: 3000:1
  - Backlight: LED
  - Wide Voltage 9-36VDC Power input
- 
- Connectivity
  - Displayport: 1
  - HDMI In: 1

- 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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