

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-12A-LL6412J-S29



### Completely Fanless,

#### Type:

- Fanless 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 Celeron SoC and Intel Celeron J6412 Elkhart Lake Platform (Quad Core 2.0GHz/10W, Turbo 2.6GHz)
- **Long Production Cycle Motherboard (Through Q1 2036)**
- **LAN:** 2x Ports (2.5GbE + 2.5GbE)
- **Video:** VGA
- **Audio:** Onboard Audio
- **Ports:**
  - 6x USB 2.0 Ports ( 2 Front, 2 Rear, 2 Internal Headers )
  - 2x USB 3.2 Gen 1 Ports ( 2 Rear )
  - 6x COM Ports (4 RS232 Internal Headers, 2 RS232/422/485 Internal Headers)
  - See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)

#### Configuration summary:

- **Memory:** 8GB DDR4 3200MHz 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
- Fanless
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2036

### Supported CPU

- Number of Processors: 1
- Processor Type: Embedded CPUs (ultra-low power, soldered down)
- Embedded CPU: Intel Celeron J6412 Elkhart Lake Platform (Quad Core 2.0GHz/10W, Turbo 2.6GHz)

### Chipset

- Chipset: Intel Celeron SoC

### Memory

- Memory Type: DDR4 2666MHz
- Memory Type: Non-ECC
- DIMMS: 1
- Maximum Memory: 32GB

### On Board Audio

- Audio Type: Onboard Audio

### On Board Video

- Video Chipset: Supported by CPU - see Embedded CPU Information
- Video on IO: VGA
- VGA Port Out: 1

### LAN

- LAN Ports: 2
- LAN Type: 2.5GbE + 2.5GbE
- LAN Chipset: Intel I225-V 2.5GbE Ethernet
- Second LAN Chipset: Intel i225-V 2.5GbE Ethernet
- Wireless LAN: No Integrated WLAN

### Drive Interface

- SATA III Ports (6GB): 1

## 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

### **Mini PCIe**

- SIM Card Slot On Motherboard: Nano SIM

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

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCIe Signal
- 2242 - 22 mm x 42 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): 4
- Serial (via Headers): 4
- Serial 232/422/485 Ports: 2
- FAN Connectors: 1
- Audio on Headers
- LVDS
- DC Power: 12V DC-in

### **Management Features**

- Watch Dog

### **Environmental**

- Operating Temperature: 0°C to 60°C (32°F to 140°F )
- High Humidity: 90%
- 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 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

### **Compliance of Component**

- CE
- RoHS
- FCC

### **Other Features**

- Motherboard Warranty: 1 Year

- 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)

## 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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