

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-12A-LL1900J-S29



### Completely Fanless

#### Type:

Fanless Panel PC

**Screen:**

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 J1900 Processor (2.0GHz Quad Core, Burst 2.42GHz) TDP 10W

**Long Production Cycle Motherboard (Through Q1 2020)**

**LAN:** 1x GB (10/100/1000)

**Video:** VGA

**Audio:** Realtek ALC662 HD Audio

**Ports:**

9x USB 2.0 Ports ( 2 Front, 5 Rear, 2 via internal headers )

1x USB 3.0 Port ( 1 Rear )

6x COM Ports (Headers)

1x Parallel Port (Headers)

See specifications for more ports

**Operating Temperature:** 0°C to 60°C (32°F to 140°F)

#### Also Included:

**Memory:** 4GB DDR3 1600MHz SODIMM RAM [Upgradeable]

**Hard Drive:** 500GB SATA 6Gb/s 7200 RPM 32MB 2.5" WD Black [Upgradeable]

**Power Supply:** AC/DC Power Adapter Included

**Operating System:** Not Included -

**Warranty:** One-Year Depot Warranty [Upgradeable]

# Technical Specifications

## MotherBoard Specifications:

### Motherboard Model

- Motherboard Type: MiniITX
- Fanless
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2020

### Supported CPU

- Number of Processors: 1
- Processor Type: Embedded CPUs (ultra-low power, soldered down)
- Embedded CPU: Intel Celeron J1900 Processor (2.0GHz Quad Core, Burst 2.42GHz) TDP 10W

### Chipset

- Chipset: Intel Celeron SoC

### Memory

- Memory Type: DDR3 1333MHz
- Memory Type: Non-ECC
- DIMMS: 1
- Maximum Memory: 8GB

### On Board Audio

- Audio Type: Realtek ALC662 HD Audio

### On Board Video

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

### LAN

- LAN Ports: 1
- LAN Type: GB (10/100/1000)
- LAN Chipset: Realtek RTL8111G
- Wireless LAN: No Integrated WLAN

### Drive Interface

- SATA III Ports (6GB): 1

### mini PCIe

- USB and PCIe signals
- half and/or full size mini PCIe card: full size

### M.2

- M.2

## 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
- Display Area (H): 246.0mm
- Display Area (V): 184.5mm
- 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

- VGA Port In: 0
- DVI-I In: 2
- HDMI In: 3

### Mounting Options

- Mounting Options: Bezel Mounting Hardware Included, Other options sold separately
- Suggested Cut-Out Dimension (Width): 323mm
- Suggested Cut-Out Dimension (Height): 237mm
- Width: 351mm
- Height: 265mm
- Depth: 56mm
- Depth (Inches): 2.2
- Unboxed Weight: 9lbs
- Shipping Weight: 25lbs
- 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

- SATA
- 42mm
- 60mm

#### **Rear IO**

- USB 2.0 Ports (on IO): 5
- USB 3.0 Ports (on IO): 1
- Audio on IO

#### **Headers**

- USB 2.0 Ports (on Headers): 4
- Serial (via Headers): 6
- Parallel Ports: 1
- FAN Connectors: 1

#### **Management Features**

- Watch Dog

#### **Environmental**

- High Humidity: 90%
- Low Humidity: 5%

#### **Operating System Support**

- Windows 7 Ultimate (64-bit)
- Windows 7 Pro (32-bit)
- Windows 7 Pro (64-bit)
- Windows 7 Pro (FES) 32-Bit
- Windows 7 Pro (FES) 64-Bit
- SL-Windows 10PRO to 7PRO 32-bit
- SL-Windows 10PRO to 7PRO 64-bit
- Windows Embedded 7 (32-Bit)
- Windows Embedded 7 (64-Bit)
- Windows 8.1 (32-bit)
- Windows 8.1 (64-bit)
- Windows 8.1 Pro (32-bit)
- Windows 8.1 Pro (64-bit)
- Windows Embedded 8 (32-bit)
- Windows Embedded 8 (64-bit)
- Windows 10 Home (32 Bit)
- Windows 10 Home (64 Bit)
- Windows 10 Pro (32 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 IoT Entry 32-bit
- Windows 10 IoT Ent-Entry

#### **Compliance of Component**

- UL
- CE
- RoHS
- FCC

#### **Other Features**

- Other Features:

- Power Supply: AC 100~240V/12V DC

#### **Compliance of Component**

- CE
- RoHS
- FCC

#### **Environmental**

- Power Consumption (on): 12Watts

#### **Warranty**

- Warranty: 1 year

#### **Other**

- 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

#### 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 Port (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

#### **Compliance of Component**

- UL

M.2 slot supports SATA-Type SSD (2242/2260)

Mini-PCIe slot supports WiFi Signal Only.

Memory Support Upto DDR3L 1333

- Motherboard Warranty: 1 Year

- CE
- RoHS
- FCC

#### **Other Features**

- Chassis Warranty: 1 Year

#### **Power**

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



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