

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-19A-LL1900A-S17-1



### Completely Fanless.

#### Type:

- Fanless Panel PC
- **Screen:**
  - 19" 5-Wire Resistive, Native  
Resolution: 1280 x 1024, 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 2028)**
- **No Available Slots**
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** 1x VGA, 1x HDMI
- **Audio:** Intel HD Audio
- **Ports:**
  - 6x USB 2.0 Ports ( 2 Front, 2 Rear, 2 Internal Headers )
  - 4x USB 3.2 Gen 1 Ports ( 2 Rear, 2 Internal Headers )
  - 5x COM Ports (2 RS232 Internal Headers, 3 RS232/422/485 Rear)
  - 1x Parallel Port (Headers)
- See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)

#### Configuration summary:

- **Memory:** 4GB DDR3L 1600MHz SODIMM  
RAM 1.35V

- **Hard Drive:** 256GB mSATA SSD SATA 6.0Gb/s, 550/500MB/s read/write (or greater)
- **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 2028

#### 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: SO DIMM DDR3 1333MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 8GB

#### On Board Audio

- Audio Type: Intel HD Audio

#### On Board Video

- Video Chipset: Intel 7th generation (Gen 7) Graphics
- Video on IO: 1x VGA, 1x HDMI
- VGA Port Out: 1
- HDMI Out: 1

#### LAN

- LAN Ports: 2
- LAN Type: 1GbE + 1GbE
- LAN Chipset: Realtek RTL8111G

### Display Specifications

#### Display

- Screen Size (inches): 19
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 5 : 4
- Native Display Resolution: 1280 x 1024
- Brightness (nits): 350
- Screen Refresh Rate: 60Hz
- Display Area (H): 376.32mm
- Display Area (V): 301.07mm
- Aspect Ratio: 5 : 4
- DisplayColors: 16.7 M
- Contrast Ratio: 1000:1
- Backlight: LED
- Viewing Angle(U) : 80
- Viewing Angle(D) : 80
- Viewing Angle(L) : 80
- Viewing Angle(R) : 80

#### Connectivity

- DVI-I In: 1
- 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, Bezel Mounting Hardware Included, Other options sold separately
- Suggested Cut-Out Dimension (Width):
- Suggested Cut-Out Dimension (Height):

#### Physical

- Width:
- Height:

- Second LAN Chipset: Realtek RTL8111G
- Wireless LAN: No Integrated WLAN

#### **Drive Interface**

- SATA II Ports (3GB): 2

#### **Expansion Slots**

- PCI Express x1 Slots On Motherboard: 1

#### **Mini PCIe**

- mini PCIe
- mSATA
- half and/or full size mini PCIe card: full size
- Second mini PCIe
- USB and PCIe signals (Internal)
- half and/or full size mini PCIe card: half size

#### **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
- Serial 232/422/485 Ports: 3
- Audio on IO

#### **Headers**

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- Serial (via Headers): 2
- Parallel Ports: 1
- FAN Connectors: 2
- Digital I/O (8 Bit) On Headers
- Audio on Headers
- LVDS

#### **Management Features**

- Watch Dog

#### **Environmental**

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

- Depth:
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 14lbs
- Shipping Weight: 40lbs

#### **Environmental**

- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- High Humidity: 90%
- Low Humidity: 8%
- Storage Temp (High): 60C
- Storage Temp (Low): -10C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 8%

#### **Power**

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

#### **Compliance of Component**

- CE
- RoHS
- CCC

#### **Warranty**

- Warranty: 1 year

#### **Other**

- Features:

#### **Industrial Display**

- Screen Size: 19"
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 1280 x 1024
- Brightness (nits): 350
- Wide Voltage 9-36VDC

- 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 (64 Bit)
- Windows 10 Pro (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Entry
- Windows 10 IoT Entry 2019 LTSC
- Windows 10 IoT 2021 LTSC Entry

#### **Compliance of Component**

- UL
- CE
- RoHS
- FCC

#### **Other Features**

- Other Features:  
1x PCE Express 2.0 x1 Slot

\* Access to PCI Express slot requires expansion slot and a riser in some chassis models. Please check Chassis Specification section for more information.

If you have any questions, please discuss with our Sales Engineers.

- Motherboard Warranty: 1 Year

### Chassis Specifications:

#### **General**

- Form Factor: Micro PC
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: Mini ITX

#### **Expansion**

- Internal 2.5" Bays: 1
- Serial Port Punchouts: 2
- Parallel Port Punchouts: 1
- Antennae Punchout: 2

#### **Front Ports**

- USB 2.0 Ports (Front): 2

#### **Cooling System**

- Maximum Fan Count: 1

**Physical**

- Depth: 8.27"
- Depth (Inches): 8.27
- Width: 7.60"
- Height: 2.60"
- Shipping Box - Depth: 13"
- Shipping Box - Width: 9"
- Shipping Box - Height: 5"
- Shipping Weight: 8lbs

**Other Features**

- Chassis Warranty: 1 Year

**Power**

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



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