

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-22A-LL1900J-S29



### Type:

- Fanless Panel PC
- **Screen:**
  - 22" InfraRed, Native Resolution: 1680 x 1050, 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
- **LAN:** 1x Ports (1GbE (10/100/1000))
- **Video:** VGA
- **Audio:** Realtek ALC662 HD Audio
- **Ports:**
  - 9x USB 2.0 Ports ( 2 Front, 5 Rear, 2 Internal Headers )
  - 1x USB 3.2 Gen 1 Port( 1 Rear )
  - 6x COM Ports (RS232 Internal 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:** 250GB SSD SATA 6.0Gb/s 560/530MB/s 2.5" - Samsung 870 EVO
- **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

### 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: 1GbE (10/100/1000)
- LAN Chipset: Realtek RTL8111G
- Wireless LAN: No Integrated WLAN

### Drive Interface

- SATA III Ports (6GB): 1

### Mini PCIe

- mini PCIe
- USB and PCIe signals (Internal)
- half and/or full size mini PCIe card: full size
- SIM Card Slot On Motherboard: SIM

### M.2 Slot Specs

- M.2 Slot #1 Specs
- M.2 SATA SSD

## Display Specifications

### Display

- Screen Size (inches): 22
- Touch Type: InfraRed
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 16 : 10
- Native Display Resolution: 1680 x 1050
- Brightness (nits): 300
- Screen Refresh Rate: 60Hz
- Display Area (H): 473.76mm
- Display Area (V): 296.10mm
- Aspect Ratio: 16 : 10
- DisplayColors: 16.7 M
- Contrast Ratio: 1000:1
- Backlight: LED
- Viewing Angle(U) : 85
- Viewing Angle(D) : 85
- Viewing Angle(L) : 80
- Viewing Angle(R) : 80

### Connectivity

- VGA Port In: 1
- DVI-I In: 1
- HDMI 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: 20lbs
- Shipping Weight: 45lbs

### Environmental

- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- High Humidity: 90%

- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.

#### **Rear IO**

- USB 2.0 Ports (on IO): 5
- USB 3.2 Gen 1 Type A Ports (on IO): 1
- Audio on IO

#### **Headers**

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

#### **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
- Windows 7 PRO (FES) DGS 32-BIT
- Windows 7 PRO (FES) DGS 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)
- SL-Windows 11PRO to 10PRO 32bit
- 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

- 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): 19Watts

#### **Compliance of Component**

- CE
- RoHS
- FCC

#### **Warranty**

- Warranty: 1 year

#### **Other**

- Features:

#### **Industrial Display**

- Screen Size: 22"
- Touch Type: InfraRed
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 1680 x 1050
- Brightness (nits): 300

- RoHS
- FCC

#### **Other Features**

- Other Features:
  - 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

### 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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