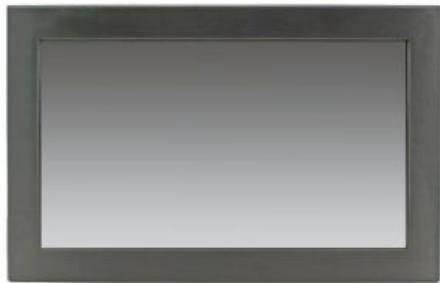# HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-22A-LL1900A-S19-1

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
- **Long Production Cycle Motherboard (Through Q1 2028)**
- **Low Profile Slots:**
  1 - PCIe x1
- **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:** 0ºC to 60ºC (32ºF to 140ºF)

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

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.

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: 0ºC to 60ºC (32ºF to 140ºF)
- 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)

- Unboxed Weight: 20lbs
- Shipping Weight: 45lbs

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): 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

- 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: Embedded PC
- 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