HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-07AW-LLJ1900A-S35

Wide-Temp, Completely Fanless Panel PC

Type:

- Fanless Panel PC
- **Screen:**
  - 7" 5-Wire Resistive, Native Resolution: 800 x 480, 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 Q2 2028)**
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** 1x VGA, 1x HDMI
- **Audio:** Realtek ALC662 HD Audio
- **Ports:**
  4x USB 2.0 Ports (2 Front, 2 Rear)
  4x COM Ports (2 RS232 Internal Headers, 1 RS232/422/485 Rear, 1 RS232/422/485 Internal Headers)
  See specifications for more ports
- **Operating Temperature:** -20ºC to 70ºC (-4ºF to 158ºF)

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:** External AC/DC 60W

Power Brick with power Cord
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model
- Motherboard Type: 3.5" Embedded SBC
- Fanless
- Long Production Cycle
- Long Life: YES
- EOL Date: Q2 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: 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: 1x VGA, 1x HDMI
- VGA Port Out: 1
- HDMI Out: 1

LAN
- LAN Ports: 2
- LAN Type and IPMI: 1GbE + 1GbE
- LAN Chipset: Intel i211AT
- Second LAN Chipset: Intel i211AT
- Wireless LAN: No Integrated WLAN

Drive Interface

Display Specifications

Display
- Screen Size (inches): 7
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 16 : 9
- Native Display Resolution: 800 x 480
- Brightness (nits): 400
- Screen Refresh Rate: 60Hz
- Display Area (H): 154mm
- Display Area (V): 93mm
- Aspect Ratio: 16 : 9
- DisplayColors: 16.2 M
- Contrast Ratio: 800:1
- Backlight: LED
- Viewing Angle(U) : 80
- Viewing Angle(D) : 80
- 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: 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:
- Depth:
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Unboxed Weight: 6lbs
- Shipping Weight: 20lbs

- SATA II Ports (3GB): 1
- Compact Flash: 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
- SIM Card Slot On Motherboard: SIM

M.2 Slot Specs

Rear IO

- USB 2.0 Ports (on IO): 2
- Serial 232/422/485 Ports: 1

Headers

- USB 2.0 Ports (on Headers): 2
- Serial (via Headers): 2
- Serial 232/422/485 Ports: 1
- FAN Connectors: 1
- Digital I/O (8 Bit) On Headers
- Audio on Headers
- TPM Support: 1.2 Module Included
- DC Power: 12V DC-in

Environmental

- Operating Temperature: -20ºC to 70ºC (-4ºF to 158ºF)
- High Humidity: 95%
- Low Humidity: 10%

Operating System Support

- 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 32-bit 2019 LTSC
- Windows 10 IoT Entry 2019 LTSC
- Windows 10 IoT 2021 LTSC Entry
- LINUX Ubuntu Desktop

Compliance of Component

- CE

Other Features

- Motherboard Warranty: 1 Year

Environmental

- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- Low Operating Temp: 00C
- High Humidity: 90%
- Low Humidity: 8%
- Storage Temp (High): 60C
- Storage Temp (Low): -20C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 8%

Power

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

Compliance of Component

- CE
- RoHS
- FCC

Warranty

- Warranty: 1 year

Other

- Built-in Chassis Power Supply: Wide Voltage Input (9-36VDC)
- Features:

Industrial Display

  - Screen Size: 7"
  - Touch Type: 5-Wire Resistive
  - Front Panel Rating: IP65 / NEMA4
  - Native Display Resolution: 800 x 480
  - Brightness (nits): 400
  - Wide Voltage Input (9-36VDC)

Chassis Specifications:

General

- Form Factor: 3.5" Embedded Box
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: 3.5"
- Slide Rails: Optional

Expansion

- Serial Port Punchouts: 2
- Parallel Port Punchouts: 2

Front Ports

- USB 2.0 Ports (Front): 2

Physical

- Depth: 133mm
- Depth (Inches): 5.24
- Width: 163mm
- Height: 47mm
- Shipping Box - Depth: 8"
- Shipping Box - Width: 10"
- Shipping Box - Height: 4"
- Shipping Weight: 2lbs

Other Features

- Chassis Warranty: 1 Year

Power

- Built-in Chassis Power Supply: External AC/DC 60W Power Brick with power Cord