

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-12AWHD-LLJ1900A-S35



(Full size images available on web site)

### Wide-Temp, Completely Fanless Panel PC

#### Type:

- Fanless Panel PC
- **Screen:**
  - 11.6" Multi-Touch Projected Capacitive, Native Resolution: 1920 x 1080, Front Panel Rating: IP65 / NEMA4
- **Mounting:** 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:** VGA + 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:** -20°C to 70°C (-4°F to 158°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:** 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: VGA + HDMI
- VGA Port Out: 1
- HDMI Out: 1

### LAN

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

## Display Specifications

### Display

- Screen Size (inches): 11.6
- Touch Type: Multi-Touch Projected Capacitive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 16 : 9
- Native Display Resolution: 1920 x 1080
- Brightness (nits): 300
- Screen Refresh Rate: 60Hz
- Display Area (H): 255mm
- Display Area (V): 145mm
- Aspect Ratio: 16 : 9
- DisplayColors: 16.7 M
- Contrast Ratio: 1000:1
- Backlight: LED
- Viewing Angle(U) : 178
- Viewing Angle(D) : 178
- Viewing Angle(L) : 178
- Viewing Angle(R) : 178

### Connectivity

- VGA Port In: 1
- DVI-D In: 1
- HDMI In: 1
- Touchscreen Interface USB Port (Front): 1

### Mounting Options

- Mounting Options: VESA 75mm x 75mm, VESA 100mm x 100mm, Side Mounting Brackets 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): 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: -20°C to 70°C (-4°F to 158°F )
- High Humidity: 95%
- Low Humidity: 10%

### **Operating System Support**

- 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 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

- Unboxed Weight: 5lbs
- Shipping Weight: 9lbs

### **Environmental**

- MTBF: 30000hours
- Maximum Operating Temperature: 50C
- Low Operating Temp: 0C
- High Humidity: 90%
- Low Humidity: 5%
- Storage Temp (High): 60C
- Storage Temp (Low): -20C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 5%

### **Power**

- Power Supply: AC 100~240V/12V DC
- Power Consumption (on): 10Watts

### **Compliance of Component**

- CE
- CCC

### **Warranty**

- Warranty: 1 year

- 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

### 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



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