HMI Panel PC Panel PC

Configuration Number: BASE CONFIG
SL-PPC-12A-LL3455J-S29

Completely Fanless, TPM Support: 2.0 Module Included

Type:

- Fanless Panel PC
- **Screen:**
    - 12" 5-Wire Resistive, Native Resolution: 800 x 600, Front Panel Rating: IP65 / NEMA4
- **Mounting:** Bezel Mounting Hardware Included, Suitable for Mounting in Cut-Out

Motherboard:

- Featuring Intel Celeron SoC and Intel Celeron J3455 Processor (1.5GHz Quad Core, Burst 2.3GHz) Intel HD Graphics 500, TDP 10W
- **LAN:** 1x Ports (GB (10/100/1000))
- **Video:** HDMI
- **Audio:** Realtek ALC662 HD Audio
- **Ports:**
  2x USB 2.0 Ports (2 Front)
  4x USB 3.2 Gen 1 Ports (4 Rear)
  2x COM Ports (RS232 Internal Headers)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 60ºC (0ºF to 140ºF)

Configuration summary:

- **Memory:** 4GB DDR3L 1600MHz SODIMM RAM 1.35V
- **Hard Drive:** 120GB M.2 - 2242 SATA SSD - 500/300MB/s read/write (or greater)
- **Power Supply:** AC/DC Power Adapter Included
- **Operating System:** Not Included -

(full size images available on web site)

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 J3455 Processor (1.5GHz Quad Core, Burst 2.3GHz) Intel HD Graphics 500, TDP 10W

Chipset
- Chipset: Intel Celeron SoC

Memory
- Memory Type: SO DIMM DDR3 1600MHz
- 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: HDMI

LAN
- LAN Ports: 1
- LAN Type: GB (10/100/1000)
- LAN Chipset: Realtek RTL8111H
- 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

M.2 Slot Specs

Display Specifications

Display
- Screen Size (inches): 12
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Aspect Ratio: 4 : 3
- Native Display Resolution: 800 x 600
- Brightness (nits): 400
- Screen Refresh Rate: 60Hz
- Display Area (H): 246mm
- Display Area (V): 184.50mm
- Aspect Ratio: 4 : 3
- DisplayColors: 16.2 M
- Contrast Ratio: 600:1
- Backlight: LED
- Viewing Angle(U) : 65
- Viewing Angle(D) : 75
- 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: 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: 9lbs
- Shipping Weight: 25lbs

Environmental
- MTBF: 50000hours
- Maximum Operating Temperature: 80C

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.

Rear IO
- USB 3.2 Gen 1 Type A Ports (on IO): 4
- Audio on IO

Headers
- USB 2.0 Ports (on Headers): 2
- Serial (via Headers): 2
- Audio on Headers
- TPM Support: 2.0 Module Included
- DC Power: 12V DC-in

Management Features
- Watch Dog

Environmental
- Operating Temperature: 0ºC to 60ºC (0ºF to 140ºF)
- High Humidity: 95%
- Low Humidity: 5%

Operating System Support
- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 IoT Entry 2019 LTSC
- LINUX Ubuntu Desktop

Compliance of Component
- CE
- RoHS
- FCC

Other Features
- Other Features:
  Upgradeable to 2x LAN model under Networking Section. 2x LAN model will add 1x VGA port and remove 1x HDMI port.

- Motherboard Warranty: 1 Year

Chassis Specifications:

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

- Low Operating Temp: 00
- High Humidity: 90%
- Low Humidity: 8%
- Storage Temp (High): 80C
- Storage Temp (Low): -30C
- Storage Humidity (High): 90%
- Storage Humidity (Low): 8%

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

Compliance of Component
- CE
- CCC

Warranty
- Warranty: 1 year

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

Industrial Display

- Screen Size: 12"
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 800 x 600
- Brightness (nits): 400
- Wide Voltage Input (9-36VDC)

- Slide Rails: Optional

Expansion

- Internal 2.5" Bays: 1
- Serial Port Punchouts: 3
- Parallel Port Punchouts: 1

Front Ports

- USB 2.0 Port (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