

## HMI Panel PC Panel PC

Configuration Number: BASE CONFIG  
SL-PPC-12A-J3455-H-2LAN



(Full size images available on web site)

**LCD requires 12VDC power supply (included), Separate Computer input is wide voltage input**

### 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
- **Long Production Cycle Motherboard (Through Q3 2031)**
- **LAN:** 2x Ports (1GbE (10/100/1000))
- **Video:** VGA + HDMI
- **Audio:** Realtek ALC662 HD Audio
- **Ports:**
  - 2x USB 3.2 Gen 1 Ports ( 2 Rear )
  - 1x COM Port (RS232/422/485 Rear)
  - See specifications for more ports
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)

### Configuration summary:

- **Hard Drive:** 256GB mSATA SSD SATA 6.0Gb/s, 550/500MB/s read/write (or greater)
- **Power Supply:** Adapter: AC 90~240V / DC12V / 40W

- **Operating System:** Not Included -
- **Toll Free Technical Support:** Yes

# Technical Specifications

## MotherBoard Specifications:

### Motherboard Model

- Motherboard Type: NUC (101x101 mm)
- Long Production Cycle
- Long Life: YES
- EOL Date: Q3 2031
- 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: 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: VGA + HDMI
- VGA Port Out: 1
- HDMI Out: 2

### LAN

- LAN Ports: 2
- LAN Type: 1GbE (10/100/1000)
- LAN Chipset: Realtek RTL8111H
- Second LAN Chipset: Realtek RTL8111H
- Wireless LAN: No Integrated WLAN

### Expansion Slots

## 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

- mini PCIe
- mSATA
- half and/or full size mini PCIe card: full size

#### **Rear IO**

- USB 3.2 Gen 1 Type A Ports (on IO): 2
- Serial 232/422/485 Ports: 1
- Audio on IO

#### **Environmental**

- Operating Temperature: 0°C to 50°C (32°F to 122°F )
- High Humidity: 90%
- Low Humidity: 5%

#### **Operating System Support**

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 IoT Entry 2019 LTSC
- Windows 10 IoT 2021 LTSC Entry
- SL-Windows 11PRO to 10PRO 64bit
- LINUX Ubuntu Desktop

#### **Compliance of Component**

- CE
- RoHS
- FCC

#### **Warranty of Component**

- Motherboard Warranty: 1 Year

- Maximum Operating Temperature: 80C
- 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)

### Chassis Specifications:

#### **General**

- Form Factor: NUC Box
- Front Facing I/O
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm

#### **Expansion**

- Antennae Punchout: 2

#### **Front Ports**

- USB 3.2 Ports (Front): 2

#### **Physical**

- Depth: 109.20mm
- Width: 125mm
- Height: 55.50mm
- Shipping Box - Depth: 167mm
- Shipping Box - Width: 158mm

- Shipping Box - Height: 123.60mm
- Shipping Weight: 3lbs

**Power**

- Built-in Chassis Power Supply: Adapter: AC  
90~240V / DC12V / 40W



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