

# Microbox PC Panel PC

Configuration Number: BASE CONFIG SL-PPC-19A-LLN100EM-S18





# Type:

- Fanless Panel PC
- Screen:
  - 19" 5-Wire Resistive, Native Resolution: 1280 x 1024, Front Panel Rating: IP65 / NEMA4
- Mounting: Bezel Mounting Hardware Included, Suitable for Mounting in Cut-Out

### Motherboard:

- Featuring Intel Celeron SoC and Intel Quad-core Processor N100 (up to 3.4 GHz)
- Long Production Cycle Motherboard (Through Q1 2029)
- LAN: 2x Ports (1GbE + 1GbE)Video: 1x VGA, 1x HDMI
- Audio: Realtek ALC897
- Ports:

3x USB 2.0 Ports (1 Front, 2 Rear) 4x USB 3.2 Gen 1 Ports (2 Rear, 2 Internal Headers) 6x COM Ports (2 RS232 Rear, 3 RS232 Internal Headers, 1 RS232/422/485 Rear) See specifications for more ports

• Operating Temperature: 0°C to 60°C (32°F to 140°F)

# Configuration summary:

- Memory: 8GB DDR4 3200MHz SODIMM RAM
- Hard Drive: 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- Power Supply: AC/DC Power Adapter Included
- Operating System: Not Included -

# **Technical Specifications**

### MotherBoard Specifications:

# Display Specifications

### **Motherboard Model**

Motherboard Type: MiniITX

Fanless

• Long Production Cycle

Long Life: YES

• EOL Date: Q1 2029

### **Supported CPU**

• Number of Processors: 1

 Processor Type: Embedded CPUs (ultra-low power, soldered down)

• Embedded CPU: Intel Quad-core Processor N100 (up to 3.4 GHz)

### Chipset

• Chipset: Intel Celeron SoC

### Memory

• Memory Type: DDR4 3200MHz

Memory Type: Non-ECC

• DIMMS: 1

• Maximum Memory: 16GB

### **On Board Audio**

• Audio Type: Realtek ALC897

### 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: 1GbE + 1GbE

• LAN Chipset: Realtek RTL8111H

Second LAN Chipset: Realtek RTL8111H

Wireless LAN: No Integrated WLAN

#### **Drive Interface**

• SATA III Ports (6GB): 2

### M.2 Slot Specs

### **Display**

• Screen Size (inches): 19

• Touch Type: 5-Wire Resistive

• Front Panel Rating: IP65 / NEMA4

• Aspect Ratio: 5:4

• Native Display Resolution: 1280 x 1024

• Brightness (nits): 350 • Screen Refresh Rate: 60Hz • Display Area (H): 376.32mm

• Display Area (V): 301.07mm

• Aspect Ratio: 5:4 DisplayColors: 16.7 M • Contrast Ratio: 1000:1

• 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: 14lbs

• Shipping Weight: 40lbs

### **Environmental**

• MTBF: 30000hours

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- PCIe Signal
- 2242 22 mm x 42 mm.
- 2260 22 mm x 60 mm.
- 2280 22 mm x 80 mm.
- M.2 E-Key Slot
- PCle Signal
- USB
- 2230 22 mm x 30 mm.

#### Rear IO

- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 1 Type A Ports (on IO): 2
- Serial (Rear IO): 2
- Serial 232/422/485 Ports: 1
- Audio on IO

#### **Headers**

- USB 2.0 Ports (on Headers): 1
- USB 3.2 Gen 1 Ports (on Headers): 2
- Serial (via Headers): 3
- FAN Connectors: 1
- LVDS
- Chassis Intrusion
- TPM Support: Via 2.0 Header
- DC Power: 12V DC-in

### **Environmental**

- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- High Humidity: 95%
- Low Humidity: 10%

#### **Operating System Support**

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT 2021 LTSC Entry
- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 IoT 2024 LTSC Entry
- LINUX Ubuntu Desktop

## **Compliance of Component**

• FCC

### **Other Features**

• Features:

**Expansion slots** 

1x PCI Express 3.0/2.0 x1 slot (x1 mode)

1x M.2 Socket 1 with E key, type 2230 for WIFI/BT

- 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): 18Watts

### **Compliance of Component**

- CE
- RoHS
- CCC

### Warranty

• Warranty: 1 year

### Other

• Features:

# **Industrial Display**

- Screen Size: 19"
- Touch Type: 5-Wire Resistive
- Front Panel Rating: IP65 / NEMA4
- Native Display Resolution: 1280 x 1024
- Brightness (nits): 350
- Wide Voltage 9-36VDC

device (PCIe x1 /USB2.0)

1x M.2 Socket 3 with M key, type 2242/ 2260/ 2280 (SATA/PClex1)

• Motherboard Warranty: 1 Year

# Chassis Specifications:

#### General

• Form Factor: Micro PC

• Color: Black

Material: Metal/SteelMaterial Thickness: 1mm

• Motherboard Compatibility: Mini ITX

• Slide Rails: Optional

### **Expansion**

Full Height Slots: 1
Max Card Depth: 7.5""
Internal 2.5" Bays: 2
Serial Port Punchouts: 3
Parallel Port Punchouts: 1

• Antennae Punchout: 2

#### **Front Ports**

• USB 2.0 Ports (Front): 2

### **Cooling System**

• Maximum Fan Count: 2

### **Physical**

• Depth: 2.60"

• Depth (Inches): 2.6

Width: 12.30"Height: 8.27"

Shipping Box - Depth: 16"Shipping Box - Width: 16"Shipping Box - Height: 8"

• Shipping Weight: 11lbs

### Other Features

• Chassis Warranty: 1 Year

#### **Power**

 Built-in Chassis Power Supply: AC/DC Power Adapter Included



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