

Microbox PC Panel PC

Configuration Number: BASE CONFIG SL-PPC-12AWHD-LLN100EM-S19





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 Quad-core Processor N100 (up to 3.4 GHz)
- Long Production Cycle Motherboard (Through Q1 2029)
- Low Profile Slots:
 - 1 PCle x1
- **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: Power Adapter Included

Operating System: Not Included -Warranty: One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Display Specifications

Motherboard Model

Motherboard Type: MiniITX

Fanless

• Long Production Cycle

Long Life: YESEOL 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: 1HDMI 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

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: 9DisplayColors: 16.7 MContrast Ratio: 1000:1

• Backlight: LED

Viewing Angle(U): 178
Viewing Angle(D): 178
Viewing Angle(L): 178
Viewing Angle(R): 178

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, 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.

Unboxed Weight: 5lbs

Shipping Weight: 9lbs

• SATA III Ports (6GB): 2

Expansion Slots

• PCI Express x1 Slots On Motherboard: 1

M.2 Slot Specs

- 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
- PCIe 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

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

Other

 Built-in Chassis Power Supply: Wide Voltage 9-36VDC input • 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 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: Embedded PC

• Color: Black

Material: Metal/SteelMaterial Thickness: 1mm

• Motherboard Compatibility: Mini ITX

Expansion

Low Profile Slots: 1
Max Card Depth: 7.5""
Internal 2.5" Bays: 2
Serial Port Punchouts: 2
Parallel Port Punchouts: 1

Front Ports

• USB 2.0 Ports (Front): 2

Cooling System

• Maximum Fan Count: 2

Physical

• Depth: 8.30"

• Depth (Inches): 8.27

Width: 8"Height: 3.50"

Shipping Box - Depth: 150mmShipping Box - Width: 380mmShipping Box - Height: 27mm

• Shipping Weight: 13lbs

Other Features

• Chassis Warranty: 1 Year

Power

• Built-in Chassis Power Supply: Power Adapter Included



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