Microbox PC Embedded PC

Configuration Number: BASE CONFIG
SL-EB-LLH610I-S19-NF





FANLESS High Performance Mini PC

Type:

- Microbox PC
- Dimension: 8.30" x 8" x 3.50"

Motherboard:

- Featuring Intel H610 Chipset and 12th Gen Core, Pentium Gold and Celeron, LGA1700 processor
- **Long Production Cycle Motherboard (Through Q2 2030)**
- **Low Profile Slots:**
  1 - PCIe x16
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** 1x DisplayPort, 2x HDMI
- **Audio:** Realtek ALC897
- **Ports:**
  2x USB 2.0 Ports (2 Front)
  4x USB 3.2 Gen 1 Ports (4 Rear)
  2x COM Port (RS232/422/485 Rear)
  See specifications for more ports
- **Operating Temperature:** 0ºC to 60ºC (32ºF to 140ºF)

Configuration summary:

- **Processor:** i3-12100 - 3.30GHz (up to 4.30GHz) Intel Core CPU - 4 Core, 12MB Cache, UHD Graphics 730 (Base 60W, Max 89W) (ERM)
- **Memory:** 8GB DDR5 5600MHz RAM Non-ECC Unbuffered SODIMM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** 160w output, 12v input DC-DC Power Supply - AC Adapter

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

Technical Specifications

MotherBoard Specifications:

Motherboard Model
- Motherboard Type: MiniITX
- Fanless
- Long Production Cycle
- Long Life: YES
- EOL Date: Q2 2030

Supported CPU
- Number of Processors: 1
- Processor Type: 12th Gen Core, Pentium Gold and Celeron, LGA1700

Chipset
- Chipset: Intel H610 Chipset

Memory
- Memory Type: SO DIMM DDR4 2400MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 64GB

On Board Audio
- Audio Type: Realtek ALC897

On Board Video
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 1x DisplayPort, 2x HDMI
- Display Port Out: 1
- HDMI Out: 2

LAN
- LAN Ports: 2
- LAN Type and IPMI: 1GbE + 1GbE
- LAN Chipset: Intel i219V
- Second LAN Chipset: Intel i210AT
- Wireless LAN: No Integrated WLAN

Drive Interface
- SATA III Ports (6GB): 3

Expansion Slots

Chassis Specifications:

General
- Form Factor: Embedded PC
- Color: Black
- Material: Metal/Steel
- Material 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: 150mm
- Shipping Box - Width: 380mm
- Shipping Box - Height: 27mm
- Shipping Weight: 13lbs

Other Features
- Chassis Warranty: 1 Year

Power
- Built-in Chassis Power Supply: Power Adapter Included

- PCI Express x16 Slots On Motherboard: 1

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 1
- M.2 Slot #1 Specs
- M.2 SATA SSD
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.

Rear IO

- USB 3.2 Gen 1 Type A Ports (on IO): 4
- Serial 232/422/485 Ports: 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2
- FAN Connectors: 2
- Audio on Headers
- LVDS
- Chassis Intrusion
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 0ºC to 60ºC (32ºF to 140ºF)
- 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 Value
- Windows 10 IoT 2021 LTSC High End
- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 IoT 2024 LTSC Value
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop

Compliance of Component

- CE
- FCC

Other Features

- Features:
  1x PCIe 4.0 x16 slot

  1x M.2 Socket 3 with keiy M, type 2242/2260/2280 (SATA/PCIe x4 mode)

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

device (PCIe & CNVi)

* Access to PCI Express slot requires expansion slot and a riser in some chassis models. Please check Chassis Specification section for more information.

If you have any questions, please discuss with our Sales Engineers

- Motherboard Warranty: 1 Year

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www.superlogics.com
Phone: 1-508-650-9500

sales@superlogics.com
Fax: 1-508-650-9525