

Microbox PC Embedded PC

Configuration Number: BASE CONFIG
SL-EB-LLH310TN-S19



Type:

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

Motherboard:

- Featuring Intel H310 Chipset and 8th and 9th Gen Core i7/i5/i3 (LGA1151) processor
- **Long Production Cycle Motherboard (Through Q1 2025)**
- **Low Profile Slots:**
 - 1 - PCIe x4
- **LAN:** 2x Ports (1GbE + 1GbE)
- **Video:** HDMI + Displayport + Optional VGA
- **Audio:** Realtek ALC887 codec
- **Ports:**
 - 4x USB 2.0 Ports (2 Front, 2 Rear)
 - 4x USB 3.2 Gen 1 Ports (2 Rear, 2 Internal Headers)
 - 4x COM Ports (2 RS232 Internal Headers, 2 RS232/422/485 Internal Headers)
 - See specifications for more ports
- **Operating Temperature:** 0°C to 50°C (32°F to 122°F)

Configuration summary:

- **Processor:** G4900 - 3.1GHz Intel Celeron CPU - Dual Core, 2MB Cache, UHD Graphics 610 (54W) (ERM) - or Better
- **Memory:** 8GB DDR4 2666MHz SODIMM RAM
- **Hard Drive:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **Power Supply:** Power Adapter Included
- **Operating System:** Not Included -

- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

- Motherboard Type: MiniITX
- Long Production Cycle
- Long Life: YES
- EOL Date: Q1 2025

Supported CPU

- Number of Processors: 1
- Processor Type: 8th and 9th Gen Core i7/i5/i3 (LGA1151)

Chipset

- Chipset: Intel H310 Chipset

Memory

- Memory Type: SO DIMM DDR4 2133MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 32GB

On Board Audio

- Audio Type: Realtek ALC887 codec

On Board Video

- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: HDMI + Displayport + Optional VGA
- Display Port Out: 1
- HDMI Out: 1

LAN

- LAN Ports: 2
- LAN Type: 1GbE + 1GbE
- LAN Chipset: Intel GbE LAN chip
- Second LAN Chipset: Intel GbE LAN chip
- Wireless LAN: No Integrated WLAN

Drive Interface

- SATA III Ports (6GB): 2

Expansion Slots

- PCI Express x4 Slots On Motherboard: 1

Mini PCIe

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

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

M.2 Slot Specs

- 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.
- 2280 - 22 mm x 80 mm.

Rear IO

- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 1 Type A Ports (on IO): 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2
- USB 3.2 Gen 1 Ports (on Headers): 2
- Serial (via Headers): 2
- Serial 232/422/485 Ports: 2
- FAN Connectors: 2
- Audio on Headers
- Chassis Intrusion
- DC Power: Supports 12V/19V/24V power adapter of up to 150w

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)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT Value
- Windows 10 IoT Ent
- Windows 10 IoT Value 2019 LTSC
- Windows 10 IoT Ent 2019 LTSC
- 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

- UL
- CE

- RoHS
- FCC

Other Features

- Other Features:
 - 1 x PCI Express x4 slot
(The PCI Express x4 slot conforms to PCI Express 3.0 standard.)
 - 1 x M.2 Socket 1 connector for an Intel® CNVi or a PCIe wireless module (CNVI)
 - 1x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA and PCIe x2 SSD support)
 - 1 x full size Mini PCIe connector (MSATA_PCIE)
* The MSATA_PCIE connector can also be used as an MSATA connector.
(The Mini PCIe connector conforms to PCI Express 2.0 standard.)
- Motherboard Warranty: 1 Year



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