

Microbox PC Embedded PC

Configuration Number: BASE CONFIG
SL-EB-LLQ670EI-S15



(Not all images available on web site)

Type:

- Microbox PC
- Dimension: 9.45" x 10.35" x 3.74"

Motherboard:

- Featuring Intel Q670 Chipset and 14th/13th/12th Gen Intel Core™ i9/i7/i5/i3, LGA1700 processor
- **Long Production Cycle Motherboard (Through Q1 2029)**
- **Full Height Slots:**
 - 1 - PCIe x16
- **LAN:** 2x Ports (2.5GbE + 1GbE)
- **RAID:** 0,1 NVMe Only
- **Video:** 3x DisplayPort, 1x HDMI
- **Audio:** Realtek ALC897
- **Ports:**
 - 6x USB 2.0 Ports (2 Front, 4 Rear)
 - 3x USB 3.2 Gen 1 Ports (1 Rear, 2 Internal Headers)
 - 2x USB 3.2 Gen 2 Ports (2 Rear)
 - 1x USB 3.2 Gen 2 Type-C Port (1 Rear)
 - 5x COM Ports (3 RS232 Internal Headers, 1 RS232/422/485 Rear, 1 RS232/422/485 Internal Headers)
- See specifications for more ports
- **Operating Temperature:** 0°C to 60°C (32°F to 140°F)

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 4800MHz RAM Non-ECC Unbuffered DIMM

- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** 220W Flex ATX Power Supply - 115/230VAC Auto switching
- **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 2029

Supported CPU

- Number of Processors: 1
- Processor Type: 14th/13th/12th Gen Intel Core™ i9/i7/i5/i3, LGA1700

Chipset

- Chipset: Intel Q670 Chipset

Memory

- Memory Type: SO DIMM DDR5 4800MHz
- 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: 3x DisplayPort, 1x HDMI
- Display Port Out: 3
- HDMI Out: 1

LAN

- LAN Ports: 2
- LAN Type and IPMI: 2.5GbE + 1GbE
- LAN Chipset: Intel i210AT
- Second LAN Chipset: Intel i225-LM 2.5GbE Ethernet
- Wireless LAN: No Integrated WLAN

Chassis Specifications:

General

- Form Factor: Embedded PC
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: Mini ITX

Expansion

- Full Height Slots: 1
- Low Profile Slots: 2

Front Ports

- USB 2.0 Ports (Front): 2

Cooling System

- Maximum Fan Count: 2
- Included Fans: 2

Physical

- Depth: 9.45"
- Depth (Inches): 9.45
- Width: 10.35"
- Height: 3.74"
- Shipping Box - Depth:
- Shipping Box - Width:
- Shipping Box - Height:
- Shipping Weight:

Other Features

- Chassis Warranty: 1 Year

Power

- Remote Server Management:

Drive Interface

- SATA III Ports (6GB): 3
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5

Expansion Slots

- 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

- PS/2 Mouse on IO
- PS/2 Keyboard on IO
- USB 2.0 Ports (on IO): 4
- USB 3.2 Gen 1 Type A Ports (on IO): 1
- USB 3.2 Gen 2 Type A Ports (on IO): 2
- USB 3.2 Gen 2 Type C Ports (on I/O): 1
- Serial 232/422/485 Ports: 1
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.0 Type A Internal: 1
- Serial (via Headers): 3
- Serial 232/422/485 Ports: 1
- FAN Connectors: 2
- Audio on Headers
- LVDS
- Chassis Intrusion
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 0°C to 60°C (32°F to 140°F)
- High Humidity: 95%
- 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 2021 LTSC Value
- Windows 10 IoT 2021 LTSC High End

- 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 5.0 x16 slot

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

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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