

Microbox PC Embedded PC

Configuration Number: BASE CONFIG
SL-EB-Z890A-S15



(Not all images available on web site)

Type:

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

Motherboard:

- Featuring Intel Z890 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Full Height Slots:**
1 - PCIe x16
- **LAN:** 1x Ports (2.5GbE (10/100/1000/2500))
- **WiFi:** Wi-Fi 7 + BT 5.4
- **Video:** 1x HDMI, 2x Intel Thunderbolt™ 4
- **Audio:** ESS SABRE9260Q DAC
- **Ports:**
5x USB 2.0 Ports (2 Front, 2 Rear, 1 Internal Headers)
3x USB 3.2 Gen 1 Ports (1 Rear, 2 Internal Headers)
3x USB 3.2 Gen 2 Ports (3 Rear)
1x USB 3.2 Gen 2 Type-C Port (1 Internal Headers)
2x Thunderbolt™ 4 (supports USB 4.0) Type-C Port (Rear)
See specifications for more ports
- **Operating Temperature:** 10°C to 35°C (50°F to 95°F)

Configuration summary:

- **Processor:** Intel Core™ Ultra 5 Processor 245K Processor - 14 Cores (6P + 8E), 24MB Intel Smart Cache, 159W (PL2)
- **Memory:** 8GB DDR5 4800MHz RAM Non-ECC Unbuffered DIMM
- **Hard Drive:** 1TB PCIe 5.0 NVMe SSD M.2

- 7,150/6,300MB/s - Samsung 990 EVO Plus
- **Power Supply:** 600W 1U FLEX ATX Power Supply - 80+ Platinum Efficient
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

- Motherboard Type: MiniITX

Supported CPU

- Number of Processors: 1
- Processor Type: Intel Core™ Ultra Processors (Series 2), LGA1851

Chipset

- Chipset: Intel Z890 Chipset

Memory

- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 128GB

On Board Audio

- Audio Type: ESS SABRE9260Q DAC

On Board Video

- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 1x HDMI, 2x Intel Thunderbolt™ 4
- HDMI Out: 1
- Thunderbolt™ video outputs: 2

LAN

- LAN Ports: 1
- LAN Type: 2.5GbE (10/100/1000/2500)
- LAN Chipset: Intel 2.5Gb Ethernet
- Wireless LAN: Wi-Fi 7 + BT 5.4

Drive Interface

- SATA III Ports (6GB): 2
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1

Expansion Slots

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:

- PCI Express x16 Slots On Motherboard: 1

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 2
- M.2 Slot #1 Specs
 - 2230 - 22 mm x 30 mm.
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- M.2 Slot #2 Specs
 - 2230 - 22 mm x 30 mm.
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 2280 - 22 mm x 80 mm.
- None

Rear IO

- USB 2.0 Ports (on IO): 2
- USB 3.2 Gen 1 Type A Ports (on IO): 1
- USB 3.2 Gen 2 Type A Ports (on IO): 3
- USB 3.2 Gen 2x2 Type C Ports (on I/O): 1
- Thunderbolt™ 4 (supports USB 4.0) Type-C Port: 2
- SPDIF Connector: 1

Headers

- USB 2.0 Ports (on Headers): 3
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.2 Gen 2 Type-C (on Headers): 1
- FAN Connectors: 4
- Audio on Headers
- TPM Support: TPM via Intel Platform Trust Technology

Environmental

- Operating Temperature: 10°C to 35°C (50°F to 95°F)
- High Humidity: 95%
- Low Humidity: 10%

Operating System Support

- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 Pro for WS (64 Bit)
- Windows 11 IoT 2024 LTSC High End

Compliance of Component

- CE
- RoHS
- FCC

Other Features

- Features:
Expansion Slot

1 x PCIe 5.0 x16 slot (supports x16 mode)

Total Supports 2 x M.2 slots and 2 x SATA
6Gb/s ports*

Intel Core™ Ultra Processors(Series 2)**

M.2_1 slot (Key M), type

2230/2242/2260/2280 (supports PCIe 5.0 x4
mode)

M.2_2 slot (Key M), type

2230/2242/2260/2280 (supports PCIe 5.0 x4
mode)

2 x SATA 6Gb/s ports***

* Intel Rapid Storage Technology supports
PCIe RAID 0/1, SATA RAID 0/1.

** M.2_2 slot shares bandwidth with
PCIEX16(G5). When M.2_2 slot is occupied with
SSD device, PCIEX16(G5) will run
x8 only.

*** Install ROG FPS Card to support 2 x
SATA 6Gb/s ports.

Graphics

1 x HDMI™ port**

2 x Intel Thunderbolt™ 4 ports (USB
Type-C) support DisplayPort and Thunderbolt™
video outputs***

* 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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