

Microbox PC Embedded PC

Configuration Number: BASE CONFIG
SL-EB-Z790STR-S15



Type:

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

Motherboard:

- Featuring Intel Z790 Chipset and 14th/13th/12th Gen Intel Core™ /Pentium™ /Celeron™ processor
- **Full Height Slots:**
1 - PCIe x16
- **LAN:** 1x Ports (2.5 Gigabit 10/100/1000/2500 Mb/s)
- **WiFi:** Wi-Fi 6E + BT
- **RAID:** NVMe 0,1
- **Video:** HDMI + Thunderbolt 4 + Thunderbolt 4
- **Audio:** High Definition Audio CODEC ALC4050
- **Ports:**
4x USB 2.0 Ports (2 Front, 2 Rear)
2x USB 3.2 Gen 1 Ports (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:** 0°C to 0°C (32°F to 0°F)

Configuration summary:

- **Processor:** G7400- 3.70GHz Intel Pentium Gold CPU - Dual Core, 6MB Cache, UHD Graphics 710 (Base 46W) (ERM)

- **Memory:** 8GB DDR5 4800MHz RAM Non-ECC Unbuffered DIMM
- **Hard Drive:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **Power Supply:** 400W 1U FLEX ATX Power Supply - 80+ Gold 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: 14th/13th/12th Gen Intel Core™/Pentium™/Celeron™

Chipset

- Chipset: Intel Z790 Chipset

Memory

- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 2
- Maximum Memory: 64GB

On Board Audio

- Audio Type: High Definition Audio CODEC ALC4050

On Board Video

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

LAN

- LAN Ports: 1
- LAN Type: 2.5 Gigabit 10/100/1000/2500 Mb/s
- LAN Chipset: Intel 2.5Gb Ethernet
- Wireless LAN: Wi-Fi 6E + BT

Drive Interface

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

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

Expansion Slots

- PCI Express x16 Slots On Motherboard: 1

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 2
- M.2 Slot #1 Specs
- 2280 - 22 mm x 80 mm.
- M.2 Slot #2 Specs
- 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 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
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 2
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.2 Gen 2 Type-C (on Headers): 1
- FAN Connectors: 3
- Audio on Headers

Environmental

- Operating Temperature: 0°C to 0°C (32°F to 0°F)

Operating System Support

- 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 Pro for WS (64 Bit)
- Windows 11 IoT 2024 LTSC Value
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop
- Ubuntu Server Edition

Compliance of Component

- CE
- RoHS
- FCC

Other Features

- Features:

1 x HDMI port***

2 x Intel Thunderbolt™ 4 ports (USB

Type-C) support DisplayPort and Thunderbolt™

video outputs****

* Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates.

*** Supports 4K@60Hz as specified in HDMI

Intel 14th & 13th & 12th Gen Processors*

1 x PCIe 5.0 x16 slot (supports x16 or x8/x8 mode)

* Please check the PCIe bifurcation table on the support site

(<https://www.asus.com/support/FAQ/1037507/>).

- To ensure compatibility of the device installed, please refer to <https://www.asus.com/support/> for the list of supported peripherals.

A resolution support depends on processors' or graphic cards' resolution.

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

Intel 14th & 13th & 12th Gen Processors

M.2_1 slot (Key M), type 2280 (supports PCIe 5.0 x4 mode// PCIe 4.0 x4 mode)***

M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)

2 x SATA 6Gb/s ports****

*** M.2_1 comes from Intel Z790 Chipset when switched to PCIe 4.0 x4 mode

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

2 x SATA 6Gb/s ports****

*AMD RAIDXpert2 Technology supports both NVMe RAID 0/1 and SATA RAID 0/1.

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

- Motherboard Warranty: 1 Year



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