

Microbox PC Embedded PC

Configuration Number: BASE CONFIG

SL-EB-Z790A-S15





Type:

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

Motherboard:

- Featuring Intel Z790 Chipset and 13th & 12th Gen Intel Core[™], Pentium Gold and Celeron processor
- Full Height Slots:
 - 1 PCle x16
- **LAN:** 2x Ports (2.5GbE + 1GbE)
- WiFi: Wi-Fi 6E + BT
 RAID: NVMe 0,1,5
- Video: 1x DisplayPort + HDMI
- Audio: 7.1 CH HD Audio (Realtek ALC897 Audio Codec)
- Ports:

3x USB 2.0 Ports (2 Front, 1 Rear) 2x USB 3.2 Gen 1 Ports (2 Internal Headers)

4x USB 3.2 Gen 2 Ports (4 Rear) 1x USB 3.2 Gen 2 Type-C Port (1 Internal Headers)

See specifications for more ports

• Operating Temperature: 5°C to 50°C (41°F to 122°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: 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

Supported CPU

• Number of Processors: 1

Processor Type: 13th & 12th Gen Intel Core[™],
 Pentium Gold and 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: 7.1 CH HD Audio (Realtek ALC897 Audio Codec)

On Board Video

 Video Chipset: Supported by CPU - depends on CPU selected

• Video on IO: 1x DisplayPort + HDMI

• Display Port Out: 1

• Embedded DisplayPort Out: 1

• HDMI Out: 1

LAN

• LAN Ports: 2

• LAN Type: 2.5GbE + 1GbE

• LAN Chipset: Intel i226-V 2.5GbE Ethernet

Second LAN Chipset: Intel i219V
Wireless LAN: Wi-Fi 6E + BT

Drive Interface

• SATA III Ports (6GB): 4

RAID

• RAID Type: Software RAID

Chassis Specifications:

General

• Form Factor: Embedded PC

• Color: Black

Material: Metal/SteelMaterial Thickness: 1mm

• Motherboard Compatibility: Mini ITX

Expansion

Full Height Slots: 1Low 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:

• RAID Levels Supported on Motherboard: 0, 1, 5, 10

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
- PCIe Signal
- 2280 22 mm x 80 mm.
- M.2 Slot #2 Specs
- M.2 SATA SSD
- PCIe Signal
- 2280 22 mm x 80 mm.

Rear IO

- USB 2.0 Ports (on IO): 1
- USB 3.2 Gen 2 Type A Ports (on IO): 4
- USB 3.2 Gen 2x2 Type C Ports (on I/O): 1
- 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: 5°C to 50°C (41°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 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:

Storage

CPU:

- 1 x Hyper M.2 Socket (M2_1, Key M), supports type 2280 PCle Gen4x4 (64 Gb/s) mode* Chipset:
- 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2280 SATA3 6.0 Gb/s & PCle Gen4x4 (64 Gb/s) modes*
- 4 x SATA3 6.0 Gb/s Connectors

*Supports Intel Volume

Management Device

(VMD)

Supports NVMe SSD as

boot disks

RAID

- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices - Supports RAID 0, RAID 1 and RAID 5 for M.2
- * Requires additional M.2 NVMe expansion cards to support RAID 5

NVMe storage devices*

Slots CPU:

- 1 x PCle 5.0 x16 Slot (PCIE1), supports x16

mode*
Chipset:

- 1 x Vertical M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module and Intel CNVio/CNVio2

(Integrated WiFi/BT)

*Supports

PCle riser

cards to

extend one

x16 slot to

two x8 slots

Supports

NVMe SSD

as boot

disks

* Access to

PCI Express

slot requires

expansion

slot and a

riser in

some

chassis

models.

Please

check

Chassis

Specificatio

n section for

more

information.

If you have

any

questions,

please

discuss with

our Sales

Engineers.

• Motherboard Warranty: 1 Year



www.superlogics.com Phone: 1-508-650-9500 sales@superlogics.com Fax: 1-508-650-9525