

4U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-4U-AZ790PA-SA



(All view images available on web site)

Type:

- 4U Rack Mount Industrial PC
- Depth: 18.43", Max Card Depth: Length w/o expansion card retainer: 426mm, Length w/ expansion card retainer: 337mm", Locking Front Bezel

Motherboard:

- Featuring Intel Z790 Chipset and 13th Gen Intel Core™ Processors (LGA1700) processor
- **Full Height Slots:**
3 - PCIe x16
- **LAN:** 2x Ports (2.5GbE + 10GbE)
- **WiFi:** Wi-Fi 6E + BT
- **RAID:** 0,1,5,10
- **Video:** HDMI + DisplayPort + Intel Thunderbolt™ 4
- **Audio:** 8-Channel High Definition Audio CODEC Realtek ALC S1220A
- **Ports:**
4x USB 2.0 Ports (4 Internal Headers)
2x USB 3.2 Gen 1 Ports (2 Front)
6x USB 3.2 Gen 2 Ports (6 Rear)
1x USB 3.2 Gen 2 Type-C Port (1 Internal Headers)
2x Thunderbolt™ 4 (supports USB 4.0) Type-C Port (Rear)
1x COM Port (RS232 Internal Headers)
See specifications for more ports
- **Operating Temperature:** 0°C to 40°C (32°F to 104°F)

Configuration summary:

- **Processor:** i5-13400 - 2.50GHz (up to 4.60GHz) Intel Core CPU - 10 Cores, 20MB

Cache, UHD Graphics 730 (Base 65W, Max 154W) (ERM)

- **Memory:** 2 x 8GB DDR5 4800MHz RAM Non-ECC Unbuffered DIMM
- **Hard Drive:** 250GB NVMe SSD M.2 2.9GB/1.3GB - Samsung 980
- **Power Supply:** 600W Power Supply
- **Operating System:** Not Included -
- **Warranty:** One-Year Depot Warranty

Technical Specifications

MotherBoard Specifications:

Motherboard Model

- Motherboard Type: ATX

Supported CPU

- Number of Processors: 1
- Processor Type: 13th Gen Intel Core™ Processors (LGA1700)

Chipset

- Chipset: Intel Z790 Chipset

Memory

- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 4
- Maximum Memory: 128GB

On Board Audio

- Audio Type: 8-Channel High Definition Audio CODEC Realtek ALC S1220A

On Board Video

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

LAN

- LAN Ports: 2
- LAN Type: 2.5GbE + 10GbE
- LAN Chipset: Marvell AQtion 10Gb Ethernet
- Second LAN Chipset: Intel i225-V 2.5GbE Ethernet
- Wireless LAN: Wi-Fi 6E + BT

Chassis Specifications:

General

- Form Factor: 4U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Redundant Power Supply Capable
- Slide Rails: Optional

Expansion

- Full Height Slots: 7
- Max Card Depth: Length w/o expansion card retainer: 426mm, Length w/ expansion card retainer: 337mm"
- External 5.25" Bays: 2
- Internal 2.5" Bays: 1

Front Ports

- USB 3.2 Ports (Front): 2
- USB Type-C (Front): 1
- Front Audio Ports: 1

Cooling System

- Maximum Fan Count: 4
- Included Fans: 2

Physical

- Depth: 18.43"
- Width: 16.93"
- Height: 6.93"
- Shipping Box - Depth:
- Shipping Box - Width:
- Shipping Box - Height:
- Shipping Weight: 25lbs

Drive Interface

- SATA III Ports (6GB): 8
- RAID
- RAID Type: Software RAID
- RAID Levels Supported on Motherboard: 0, 1, 5, 10

Expansion Slots

- PCI Express x16 Slots On Motherboard: 3

M.2 Slot Specs

- Total M.2 NVMe SSD Slots: 4
- M.2 Slot #1 Specs
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.
- 22110 - 22 mm x 110 mm.
- M.2 Slot #2 Specs
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.
- M.2 Slot #3 Specs
- PCIe Signal
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.
- M.2 Slot #4 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

- USB 3.2 Gen 2 Type A Ports (on IO): 6
- Thunderbolt™ 4 (supports USB 4.0) Type-C Port: 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 4
- USB 3.2 Gen 1 Ports (on Headers): 2
- USB 3.2 Gen 2 Type-C (on Headers): 1
- Serial (via Headers): 1
- FAN Connectors: 8
- Audio on Headers
- Chassis Intrusion
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 0°C to 40°C (32°F to

Other Features

- Features:

Expansion card

- Length w/ expansion card retainer: 337mm
- Length w/o expansion card retainer: 426mm
- Width w/ GPU holder: 116mm
- Width w/o GPU holder: 154mm

Limitation of CPU cooler

- w/ GPU holder: 130mm
- w/o GPU holder: 148mm

- Chassis Warranty: 1 Year

104°F)

- High Humidity: 95%
- Low Humidity: 5%

Operating System Support

- Windows 10 Home (64 Bit)
- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (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

- RoHS
- FCC

Other Features

- Features:

Intel 13th & 12th Gen Processors*

2 x PCIe 5.0 x16 slots (support x16 or x8/x8 modes)

Intel Z790 Chipset**

1 x PCIe 4.0 x16 slot (supports x4 mode)

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.

** Support 4K@60Hz as specified in HDMI 2.1.

*** Support 8K@60Hz as specified in DisplayPort 1.4.

**** Output at TBT4_E1 and TBT4_E2, the USB Type-C ports right under RJ45 ports, each requires a USB-C to DisplayPort adapter cable. For display connection and video output configuration regarding DP IN and Intel Thunderbolt™ 4 ports, please refer to the user manual for more details. VGA resolution support depends on processors' or graphic cards' resolution.

Total supports 4 x M.2 slots and 8 x SATA 6Gb/s ports*

Intel 13th & 12th Gen Processors

M.2_1 slot (Key M), type 2242/2260/2280/22110
(supports PCIe 4.0 x4 mode)

Intel Z790 Chipset

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

M.2_3 slot (Key M), type 2242/2260/2280/22110
(supports PCIe 4.0 x4 mode)

M.2_4 slot (Key M), type
2242/2260/2280 (supports PCIe 4.0 x4 & SATA
modes)**

8 x SATA 6Gb/s ports**

* Intel Rapid Storage Technology supports NVMe
RAID 0/1/5, SATA RAID 0/1/5/10.

** M.2_4 slot shares bandwidth with SATA6G_5~8.
SATA6G5~8 will be suspended once either a SATA
or NVMe device is detected at M.2_4.

- Motherboard Warranty: 1 Year



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