

# 4U Rack Mount Industrial PC Rackmount

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



(Full size images available on web site)

## Type:

- 4U Rack Mount Industrial PC
- Depth: 16.89", Max Card Depth: 375mm"

## 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 and NVMe 0,1,5
- **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:** i5-12400 - 2.50GHz (up to 4.40GHz) Intel Core CPU - 6 Cores, 18MB Cache, UHD Graphics 730 (Base 65W, Max 117W) (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

#### Drive Interface

- SATA III Ports (6GB): 8

### Chassis Specifications:

#### General

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

#### Expansion

- Full Height Slots: 8
- Max Card Depth: 375mm"
- Internal 3.5" Bays: 3
- Internal 2.5" Bays: 8

#### Front Ports

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

#### Cooling System

- Maximum Fan Count: 3

#### Physical

- Depth: 16.89"
- Depth (Inches): Click Available Downloads Tab > Mechanical Drawings.
- Width: 17"
- Height: 6.96"
- Shipping Box - Depth: 21"
- Shipping Box - Width: 21"
- Shipping Box - Height: 11"
- Shipping Weight: 30lbs

#### Other Features

- Features:
  - 8x full height PCIe card slot cutouts

- 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 104°F )
- High Humidity: 95%

- Maximum card height: 158mm (card and power connector must be ≤158mm tall)
- Maximum card length: 375mm (with 25mm thick front fans)
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- LIQUID COOLING NOTE: radiators reduce the available depth inside the case for long GPUs
- Inside of case is 399mm deep
- Thickness of radiator + thickness of case fans + GPU length must equal less than 399mm total.
- Chassis Warranty: 1 Year

- 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](http://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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