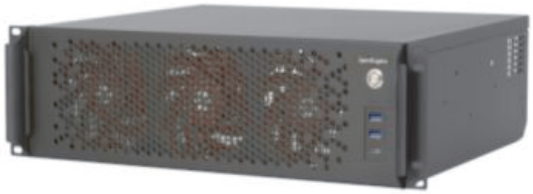
3U Liquid Cooled Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-3U-AZ890PA-SE



Type:

- 3U Liquid Cooled Rack Mount Industrial PC
- Depth: 16.89", Max Card Depth: 375mm"

Motherboard:

- Featuring Intel Z890 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Full Height Slots:**
  3 - PCIe x16
- **LAN:** 2x Ports (2.5GbE + 10GbE)
- **WiFi:** Wi-Fi 7 + BT 5.4
- **RAID:** NVMe 0,1,5
- **Video:** 1x HDMI, 2x Intel Thunderbolt™ 5, 1x Intel Thunderbolt™ 4
- **Audio:** Realtek ALC1220P Surround Sound High Definition Audio CODEC
- **Ports:**
  3x USB 2.0 Ports (1 Rear, 2 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™ 5 Type-C Port (Rear)
  1x Thunderbolt™ 4 (supports USB 4.0) Type-C Port (Rear)
  1x COM Port (RS232 Internal Headers)
  See specifications for more ports
- **Operating Temperature:** 10ºC to 35ºC (50ºF to 95ºF)

Configuration summary:

- **Processor:** Intel Core Ultra 5 225 Processor - 10 Cores (6P + 4E), 20MB

Cache, 121W (PL2)
- **Memory:** 2 x 16GB DDR5 5600MHz RAM Non-ECC Unbuffered DIMM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** 700W SFX Form Factor Auto-Switching Power Supply, Fully Modular, 80+ Platinum
- **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: Intel Core™ Ultra Processors (Series 2), LGA1851

Chipset
- Chipset: Intel Z890 Chipset

Memory
- Memory Type: DDR5 4800MHz
- Memory Type: Non-ECC
- DIMMS: 4
- Maximum Memory: 256GB

On Board Audio
- Audio Type: Realtek ALC1220P Surround Sound High Definition Audio CODEC

On Board Video
- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 1x HDMI, 2x Intel Thunderbolt™ 5, 1x Intel Thunderbolt™ 4
- HDMI Out: 1
- Thunderbolt™ video outputs: 2

LAN
- LAN Ports: 2
- LAN Type and IPMI: 2.5GbE + 10GbE
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Marvell AQtion 10Gb

Chassis Specifications:

General
- Form Factor: 3U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: E-ATX
- Slide Rails: Optional

Expansion
- Full Height Slots: 8
- Max Card Depth: 375mm"
- Internal 2.5" Bays: 1

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): 17
- Width: 17"
- Height: 5.22"
- Shipping Box - Depth: 21"
- Shipping Box - Width: 21"
- Shipping Box - Height: 10"
- Shipping Weight: 28lbs

Other Features
- Features:
    - Eight(8) full height PCIe card slot cutouts

Ethernet
- Wireless LAN: Wi-Fi 7 + BT 5.4

Drive Interface
- SATA III Ports (6GB): 4
- 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: 5
- M.2 Slot #1 Specs
- 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
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.
- M.2 Slot #3 Specs
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.
- M.2 Slot #4 Specs
- 2242 - 22 mm x 42 mm.
- 2260 - 22 mm x 60 mm.
- 2280 - 22 mm x 80 mm.
- M.2 Slot #5 Specs
- M.2 SATA SSD
- 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): 1
- USB 3.2 Gen 2 Type A Ports (on IO): 6
- Thunderbolt™ 4 (supports USB 4.0) Type-C Port: 1
- Thunderbolt™ 5 Type-C Port (Rear): 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
- Serial (via Headers): 1
- FAN Connectors: 9
- Maximum card height: 115mm
- Maximum card length with no fans / no AIO cooler: 400mm
- Maximum card length with 3x Noctua A12x25 fans: 375mm
- Maximum card length with Asetek 360mm AIO and Noctua A12x25 fans: 348mm
- Maximum card length with Asetek 360mm AIO and Push/Pull Noctua A12x25 fans: 322mm
- Case includes eight(8) non-vented PCIe slot filler blank brackets (Sliger Part Number: CXSC1020A)
- Chassis Warranty: 1 Year

- Audio on Headers
- TPM Support: Via 2.0 Header

Environmental

- Operating Temperature: 10ºC to 35ºC (50ºF to 95ºF)
- High Humidity: 95%
- Low Humidity: 5%

Operating System Support

- 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

  Intel Core™ Ultra Processors (Series 2) *
  2 x PCIe 5.0 x16 slots (supports x16 or x8/x8 modes)
  Intel Z890 Chipset
  *1 x PCIe 4.0 x16 slot (supports x4 mode)

  Storage

  Total supports 5 x M.2 slots and 4 x SATA 6Gb/s ports*
  Intel Core™ Ultra Processors (Series 2) *
  M.2_1 slot (Key M), type 2242/2260/2280/22110 (supports PCIe 5.0 x4 mode)
  M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)
  Intel Z890 Chipset
  M.2_3 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)
  M.2_4 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 modes)
  M.2_5 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 & SATA modes)**
  4 x SATA 6Gb/s ports
  * Intel Rapid Storage Technology supports PCIe RAID 0/1/5/10, SATA RAID 0/1/5/10, M.2 slot from CPU only supports RAID 0/1/5.
  ** M.2_5 slot shares bandwidth with PCIe 4.0 x16 slot. When M.2_5 slot is operating, PCIe 4.0 x16 slot will be disabled.

  Graphics

1 x HDMI™ port**
2 x Intel Thunderbolt™ 5 ports (USB Type-C) support DisplayPort and Thunderbolt™ video outputs***
1 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.

* 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