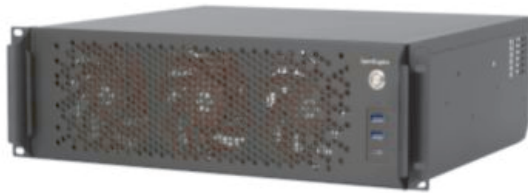


3U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-3U-AX870PA-SGX



Type:

- 3U Rack Mount Industrial PC
- Depth: 15", Max Card Depth: 324mm"

Motherboard:

- Featuring AMD X870E and AMD Socket AM5 for AMD Ryzen™ 9000 & 8000 & 7000 Series Desktop Processors processor
- **Full Height Slots:**
3 - PCIe x16
- **LAN:** 2x Ports (2.5GbE + 10GbE)
- **WiFi:** Wi-Fi 7 + BT 5.4
- **RAID:** NVMe 0,1,5,10
- **Video:** 1x HDMI
- **Audio:** 7.1 CH HD Audio (Realtek ALC1220 Audio Codec)
- **Ports:**
7x USB 2.0 Ports (1 Rear, 6 Internal Headers)
2x USB 3.2 Gen 1 Ports (2 Front)
7x USB 3.2 Gen 2 Ports (7 Rear)
1x USB 3.2 Gen 2 Type-C Port (1 Internal Headers)
2x USB 4 Type-C Ports (2 Rear)
1x COM Port (RS232 Internal Headers)
See specifications for more ports
- **Operating Temperature:** 10°C to 35°C (50°F to 95°F)

Configuration summary:

- **Processor:** AMD Ryzen 5 7600X - Hexa-core (6 Core, 12 Threads) 4.70 GHz, 5.30 GHz Overclocking Speed, 32 MB L3 Cache - Socket AM5, Radeon Graphics - 105W
- **Memory:** 2 x 16GB DDR5 4800MHz RAM

- Non-ECC Unbuffered DIMM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** 350W SFX-form factor auto-switching 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: AMD Socket AM5 for AMD Ryzen™ 9000 & 8000 & 7000 Series Desktop Processors

Chipset

- Chipset: AMD X870E

Memory

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

On Board Audio

- Audio Type: 7.1 CH HD Audio (Realtek ALC1220 Audio Codec)

On Board Video

- Video Chipset: Supported by CPU - depends on CPU selected
- Video on IO: 1x HDMI
- HDMI Out: 1

LAN

- LAN Ports: 2
- LAN Type: 2.5GbE + 10GbE
- LAN Chipset: Marvell AQtion 10Gb Ethernet
- Second LAN Chipset: Intel 2.5Gb Ethernet
- Wireless LAN: Wi-Fi 7 + BT 5.4

Drive Interface

- SATA III Ports (6GB): 4

Chassis Specifications:

General

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

Expansion

- Full Height Slots: 3
- Max Card Depth: 324mm"
- 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: 15"
- Width: 17"
- Height: 5.22"
- Shipping Box - Depth: 21"
- Shipping Box - Width: 19"
- Shipping Box - Height: 12"
- Shipping Weight: 18lbs

Other Features

- Features:
Three (3) Full height PCIe card slot cutouts
As of 03/22/2025 this chassis does not have the single vertical PCIE slot.

3x Full Height Horizontal PCIe slots with one PCIe

- 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
 - 2242 - 22 mm x 42 mm.
 - 2260 - 22 mm x 60 mm.
 - 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.
- 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.
 - 22110 - 22 mm x 110 mm.

Rear IO

- USB 2.0 Ports (on IO): 1
- USB 3.2 Gen 2 Type A Ports (on IO): 7
- USB 3.2 Gen 2x2 Type C Ports (on I/O): 1
- USB 4.0 Type C Ports (on I/O): 2
- Audio on IO

Headers

- USB 2.0 Ports (on Headers): 6
- 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

Environmental

- Operating Temperature: 10°C to 35°C (50°F to 95°F)
- High Humidity: 90%
- Low Humidity: 5%

Operating System Support

- Windows 11 Home (64 Bit)
- Windows 11 Pro (64 Bit)
- Windows 11 Pro for WS (64 Bit)
- LINUX Ubuntu Desktop

5.0 16x riser for large 3-slot GPU

Maximum card width: 72mm or 3.5-slot

Maximum card height: 150mm (including power connectors)

Maximum card length with 3x 25mm thick front fans: 324mm

Maximum card length with Asetek 360mm AIO and 3x 25mm thick front fans: 296mm

Total Internal Depth: 349mm

Thickness of radiator + thickness of case fans + GPU length must equal less than 349mm total.

Case includes a rear support bridge to prevent GPU sag and reduce chances of shipping damage

- Chassis Warranty: 1 Year

Power

- Remote Server Management:

Compliance of Component

- CE
- RoHS
- FCC

Other Features

- Features:

Graphics

1 x HDMI™ port**

2 x USB4 (40Gbps) ports support USB Type-C display outputs***

Expansion Slots

AMD Ryzen™ 9000 & 7000 Series Desktop Processors*

2 x PCIe 5.0 x16 slots with Q-Release Slim (supports x16 or x8/x8** or x8/x4/x4 modes***)

AMD Ryzen™ 8700 & 8600 & 8400 Series Desktop Processors*

1 x PCIe 4.0 x16 slots with Q-Release Slim (only supports PCIe16(G5)_1 & total bandwidth of x8, PCIe16(G5)_2 will be disabled)

AMD Ryzen™ 8500 & 8300 Series Desktop Processors*

1 x PCIe 4.0 x16 slots with Q-Release Slim (only supports PCIe16(G5)_1 & total bandwidth of x4, PCIe16(G5)_2 will be disabled)

AMD X870E Chipset

1 x PCIe 4.0 x16 slot (supports x4 mode)

* Please check the PCIe bifurcation table on the support site

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

** When you use both PCIe16(G5)_1 and PCIe16(G5)_2, they will run at x8 each.

*** PCIe16(G5)_2 shares bandwidth with M.2_2 slot. When M.2_2 is enabled, PCIe16(G5)_1 will run x8, and PCIe16(G5)_2 will run at x4.

Storage

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

AMD Ryzen™ 9000 & 7000 Series Desktop Processors

M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)

M.2_2 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)*

AMD Ryzen™ 8000 Series Desktop Processors

M.2_1 slot (Key M), type 2242/2260/2280

(supports PCIe 4.0 x4 mode)

M.2_2 slot is not supported

AMD X870E Chipset

M.2_3 slot (Key M), type 2242/2260/2280

(supports PCIe 4.0 x4 mode)

M.2_4 slot (Key M), type 2242/2260/2280/22110

(supports PCIe 4.0 x4 mode)

4 x SATA 6Gb/s ports

* PCIEX16(G5)_2 slot shares bandwidth with

M.2_2.

AMD RAIDXpert2 Technology

Ryzen™ 7000 series processors: PCIe RAID 0/1/10

Ryzen™ 8000 series processors: PCIe RAID 0/1

Ryzen™ 9000 series processors: PCIe RAID

0/1/5/10

X870/B850/X670/B650/A620 chipset: SATA RAID

0/1/10

- Motherboard Warranty: 1 Year



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