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:**
  1 - 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:** 10ºC to 35ºC (50ºF to 95ºF)

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 5600MHz 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 and IPMI: 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

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: 10ºC to 35ºC (50ºF to 95ºF)
- High Humidity: 90%
- Low Humidity: 5%

Operating System Support

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

Compliance of Component

- CE
- RoHS

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:

- 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 PCIEX16(G5)_1 & total bandwidth of x8, PCIEX16(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 PCIEX16(G5)_1 & total bandwidth of x4, PCIEX16(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 PCIEX16(G5)_1 and PCIEX16(G5)_2, they will run at x8 each.
  *** PCIEX16(G5)_2 shares bandwidth with M.2_2 slot. When M.2_2 is enabled, PCIEX16(G5)_1 will run x8, and PCIEX16(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