

5U Rack Mount Workstation Rackmount

Configuration Number: BASE CONFIG
SL-5U-AX870PA-SA



Type:

- 5U Rack Mount Workstation
- Depth: 20.87", Max Card Depth: Length: 455mm (without installing front fans and radiators)"

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 5600MHz RAM Non-ECC Unbuffered DIMM
- **Hard Drive:** 500GB M.2 2280 NVMe SSD or greater 5,000/3,000MB/s
- **Power Supply:** 550W Fully Modular ATX Power Supply - 80+ Bronze
- **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

Chassis Specifications:

General

- Form Factor: 5U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Redundant Power Supply Capable
- Slide Rails: Optional

Expansion

- Full Height Slots: 8
- Max Card Depth: Length: 455mm (without installing front fans and radiators)"
- Internal 3.5" Bays: 4
- Internal 2.5" Bays: 4

Front Ports

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

Cooling System

- Maximum Fan Count: 6
- Included Fans: 3

Physical

- Depth: 20.87"
- Width: 17.30"
- Height: 8.66"
- Shipping Weight: 71lbs

Other Features

- Features:
 - Expansion card
 - Length: 455mm (without installing front fans and

Drive Interface

- SATA III Ports (6GB): 4
- 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 Pro (64 Bit)

radiators)

Width w/ expansion card
retainer: 157mm

Width w/o expansion
card retainer: 198mm

Limitation of Height w/

CPU cooler expansion
card

retainer:

181mm

Height w/o

expansion

card

retainer:

192mm

Limitation of

height w/ expansion

card retainer:

192mm

Limitation of

height w/ expansion

card retainer:

192mm

Limitation of

height w/ expansion

card retainer:

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card retainer:

192mm

Limitation of

height w/ expansion

card retainer:

192mm

Limitation of

height w/ expansion

card retainer:

192mm

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

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)

cage:
440m
m
(W) x
220m
m (H)
x
485m
m
(D),
46.95
liters
Incl.
rear
fan
cage:
17.3"
(W),
8.66"
(H),
20.87
" (D)
Excl.
rear
fan
cage:
17.3"
(W),
8.66"
(H),
19.1"
(D)

- Chassis Warranty: 1 Year

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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