3U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-3U-W880ACE-SGX





Type:

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

Motherboard:

- Featuring Intel W880 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Full Height Slots:**
  1 - PCIe x16
- **LAN:** 3x Ports (2.5GbE + 2.5GbE + IPMI)
- **RAID:** NVMe 0,1,5,10
- **Video:** 1x HDMI, 1x Intel Thunderbolt™ 4, 1x VGA port from AST2600
- **Audio:** Realtek ALC1220P Surround Sound High Definition Audio CODEC
- **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)
  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:** 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 W880 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, 1x Intel Thunderbolt™ 4, 1x VGA port from AST2600
- VGA Port Out: 1
- HDMI Out: 1
- Thunderbolt™ video outputs: 1

LAN
- LAN Ports: 3
- LAN Type and IPMI: 2.5GbE + 2.5GbE + IPMI
- LAN Chipset: Intel 2.5Gb Ethernet
- Second LAN Chipset: Intel 2.5Gb Ethernet
- Third LAN Chipset: Realtek 1Gb Ethernet dedicated for AST2600
- Wireless LAN: No Integrated WLAN

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 5.0 16x riser for large 3-slot GPU

Drive Interface

- SATA III Ports (6GB): 8
- SAS 6G Ports: 1
- RAID
- 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
- 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
- 2280 - 22 mm x 80 mm.

Rear IO

- USB 3.2 Gen 2 Type A Ports (on IO): 6
- USB 3.2 Gen 2x2 Type C Ports (on I/O): 1
- Thunderbolt™ 4 (supports USB 4.0) Type-C Port: 1

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: 6
- Audio on Headers
- TPM Support: Via 2.0 Header

Environmental

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

Operating System Support

- Windows 10 Pro (64-Bit)
- Windows 10 Pro WS (64-Bit)
- SL-Windows 11PRO to 10PRO 64bit
- Windows 10 IoT 2021 LTSC High End
- Windows 11 Pro (64 Bit)
- Windows 11 Pro for WS (64 Bit)
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop

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:

- Ubuntu Server Edition

Compliance of Component

- CE
- RoHS
- FCC

Other Features

- Features:
  Expansion Slots

  Intel Core™ Ultra Processors (Series 2)*
  2 x PCIe 5.0 x16 slots*** (supports x16 or x8/x8 modes)**
  Intel W880 Chipset**
  1 x PCIe 4.0 x16 slot (supports x4 mode)**

  Storage

  Total supports 4 x M.2 slots and 8 x SATA 6Gb/s ports*
  Intel Core™ Ultra Processors (Series 2)
  M.2_1 slot (Key M), type 2242/2260/2280 (supports PCIe 5.0 x4 mode)
  M.2_2 slot (Key M), type 2280 (supports PCIe4.0 x4 mode)
  Intel W880 Chipset**
  M.2_3 slot (Key M), type 2242/2260/2280 (supports PCIe 4.0 x4 mode)
  M.2_4 slot (Key M), type 2280 (supports PCIe 4.0 x4 mode)
  SlimSAS_1 connector supports PCIe 4.0 x4 mode or up to 4 SATA devices via an adapter cable. The cable is purchased separately. **
  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.
  **SlimSAS connector connected to a U.2 device via an adapter cable does not support VMD/RST.

  Graphics

  1 x HDMI™ port**
  1 x Intel Thunderbolt™ 4 port (USB Type-C) support DisplayPort and Thunderbolt™ video outputs***
  1 x VGA port from AST2600
  * Graphics specifications may vary between CPU types. Please refer to www.intel.com for any updates.
  **Supports 4K@60Hz as specified in HDMI 2.1.
  ***In Thunderbolt™ 4 mode, supports up to

8K@60Hz x1 with DSC, maximum total bandwidth up to 23.8Gbps, for resolution support please check DisplayPort 2.1 specs. In DP alt mode, supports up to UHBR20.
**** VGA resolution support depends on processors' or graphic cards' resolution.
******While installing the operating system, please ensure that your monitor is connected to the HDMI port on the back I/O panel or to a discrete graphics card.

- Motherboard Warranty: 1 Year

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