

2U Rack Mount Industrial PC Rackmount

Configuration Number: BASE CONFIG
SL-2U-W880ACE-SJ



Type:

- 2U Rack Mount Industrial PC
- Depth: 17", Max Card Depth: 404mm"

Motherboard:

- Featuring Intel W880 Chipset and Intel Core™ Ultra Processors (Series 2), LGA1851 processor
- **Low Profile Slots:**
3 - PCIe x16
- **LAN:** 3x Ports (2.5GbE + 2.5GbE + IPMI)
- **RAID:** 0,1,5,10 and 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:** 10°C to 35°C (50°F to 95°F)

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:** 600W 1U FLEX ATX Power Supply - Cybenetics 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: 2U Rackmount
- Front Changeable Air Filter
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: SSI EEB
- Slide Rails: Optional

Expansion

- Low Profile Slots: 7
- Max Card Depth: 404mm"
- Internal 2.5" Bays: 5

Front Ports

- USB 3.2 Ports (Front): 2

Cooling System

- Maximum Fan Count: 4

Physical

- Depth: 17"
- Depth (Inches): 17
- Width: 17"
- Height: 3.46"
- Shipping Box - Depth: 20.50"
- Shipping Box - Width: 20.50"
- Shipping Box - Height: 7.50"
- Shipping Weight: 16lbs

Other Features

- Features:
Storage

Five (5) 2.5" drives up to 7mm thick
Up to five(5) 7mm 2.5" SSDs in the rear drive cage when not using 3.5" HDD mounts
Two (2) 3.5" drives up to 20mm thick
Up to two(2) 3.5" Hard Disk Drives [HDDs]

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

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
 - 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: 10°C to 35°C (50°F to 95°F)
- 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)

OR

One(1) full-sized 3.5" HDD, and one(1) 2.5" SSD up to 15mm thick

- Chassis Warranty: 1 Year

Power

- Remote Server Management:

- Windows 11 Pro for WS (64 Bit)
- Windows 11 IoT 2024 LTSC High End
- LINUX Ubuntu Desktop
- 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 PCIe 4.0 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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