

2U Rack Mount Industrial PC Rackmount

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



Type:

- 2U Rack Mount Industrial PC
- Depth: 17.72"

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:** 800W 1+1 redundant PSU 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: 2U Rackmount
- Color: Black
- Material: Metal/Steel
- Material Thickness: 1mm
- Motherboard Compatibility: E-ATX
- Redundant Power Supply Capable
- Slide Rails: Optional

Expansion

- Low Profile Slots: 7
- 2.5" Hot Swap Bays: 4

Front Ports

- USB 3.2 Ports (Front): 2

Cooling System

- Maximum Fan Count: 4
- Included Fans: 4

Physical

- Depth: 450mm
- Depth (Inches): 17.7
- Width: 438mm
- Height: 88mm
- Shipping Box - Depth: 580mm
- Shipping Box - Width: 655mm
- Shipping Box - Height: 244mm
- Shipping Weight: 29lbs

Power

- Built-in Chassis Power Supply: 800W 1+1 redundant PSU 80+ Platinum
- Remote Server Management:

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)

- 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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