

Ultra SuperServer SYS-220U-TNR

2U Ultra with 24 NVMe/SAS/SATA bays, 8 PCIe slots



More details here

Key Applications

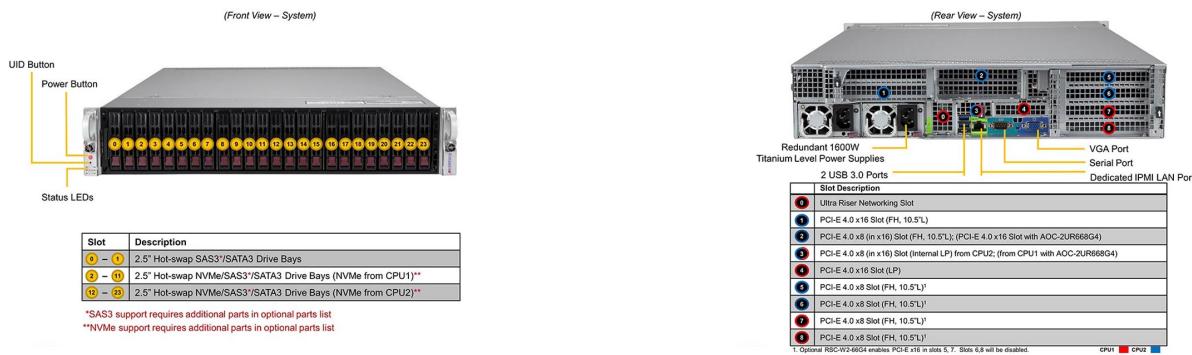
Virtualization, HPC, Cloud Computing, High End Enterprise Server, Software Defined Storage, Application Tier Service Provider, 5G/Telco,

Key Features

- Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable Processors;
- Intel® C621A Chipset;
- 32 DIMM Slots; Up to 8TB DRAM; Up to 8TB Intel® Optane™ Persistent Memory (up to 12TB with DRAM); 3200/2933/2666 ECC DDR4 LRDIMM; RDIMM; Intel® Optane™ Persistent Memory 200 series;
- 1 PCIe 4.0 x16 (LP)
1 PCIe 4.0 x16 (FH, 10.5" L)
5 PCIe 4.0 x8 (FH, 10.5" L)
1 internal PCIe 4.0 x8 (in x16 slot, LP);
- Flexible networking options;
- 22x 2.5" hot-swap hybrid NVMe/SATA/SAS drive bays + 2x2.5" hot-swap SATA/SAS drive bays;
- 4 heavy duty fans with optimal fan speed control;
- 1600W redundant Titanium level power supplies;



Form Factor	2U Rackmount Enclosure: 437 x 89 x 717.2mm (17.2" x 3.5" x 28.2") Package: 625 x 253 x 1154mm (24.6" x 9.96" x 45.43")
Processor	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 40C/80T; Up to 60MB Cache per CPU
GPU	Max GPU Count: Up to 4 double-width or 6 single-width GPUs Supported GPU: NVIDIA PCIe: T4, RTX A6000, RTX A5000, A40, A30, A16, A2, A100, A10
System Memory	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 3200MT/s ECC DDR4 RDIMM/LRDIMM Supports Intel® Optane™ persistent memory 200 series
Drive Bays Configuration	Default: Total 24 bays <ul style="list-style-type: none"> • 22 front hot-swap 2.5" NVMe/SAS*/SATA drive bays • 2 front hot-swap 2.5" SAS*/SATA drive bays (*SAS support may require additional storage controller and/or cables)
Expansion Slots	Default <ul style="list-style-type: none"> • 1 PCIe 4.0 x16 FH/10.5" L slot • 5 PCIe 4.0 x8 FH/10.5" L slots • 1 PCIe 4.0 x8 LP slot • 1 PCIe 4.0 x16 LP slot
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1/5/10 support Chipset: Intel® C621A Network Connectivity: 2 RJ45 10GBASE-T with Intel® X710-AT2 (optional) 2 RJ45 10GBASE-T with Intel® X710-TM4 (optional) 2 SFP+ 10GbE with Intel® X710-TM4 (optional) No NIC option supported
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) Video: 1 VGA port DOM: 2 SuperDOM (Disk on Module) ports



System Cooling

Fans: Up to 4x 8cm heavy duty fans with optimal fan speed control
Air Shroud: 2 Air Shrouds

Power Supply

1x 1600W Redundant Titanium Level (96%) Hot-plug power supply

System BIOS

BIOS Type: AMI 32MB SPI Flash EEPROM

Management

SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!

PC Health Monitoring

CPU: Monitors for CPU Cores, Chipset Voltages, Memory
7 +1 Phase-switching voltage regulator
FAN: Fans with tachometer monitoring
Status monitor for speed control
Pulse Width Modulated (PWM) fan connectors
Temperature: Monitoring for CPU and chassis environment
Thermal Control for fan connectors

Dimensions and Weight

Weight: Gross Weight: 63 lbs (28.6 kg)
Net Weight: 37 lbs (16.8 kg)
Available Color: Black Front & Silver Body

Operating Environment

Operating Temperature: 10°C to 35°C (50°F to 95°F)
Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)
Operating Relative Humidity: 8% to 90% (non-condensing)
Non-operating Relative Humidity: 5% to 95% (non-condensing)

Motherboard

[Super X12DPU-6](#)

Chassis

[CSE-219U3TS-R1K62P-T](#)