Ultra SuperServer SYS-120U-TNR

1U Ultra with 12 NVMe/SAS/SATA bays

More details here

Key Applications

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



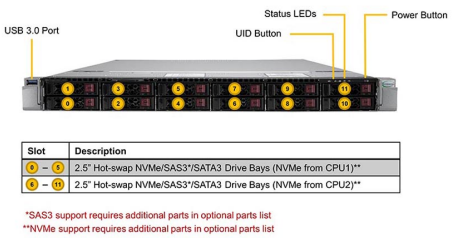
Key Features

- 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;
- 2 PCIe 4.0 x16 (FH, 10.5"L)
  1 PCIe 4.0 x16 (LP)
  1 Internal PCIe 4.0 x16;
- Flexible networking options;
- 12x2.5" hot-swap hybrid NVMe/SATA/SAS drive bays;
- 8 heavy duty fans with optimal fan speed control;
- 1200W redundant Titanium level power supplies;

Form Factor	1U Rackmount Enclosure: 437 x 43 x 739mm (17.2" x 1.7" x 29.1") Package: 605 x 203 x 950mm (23.81" x 7.99" x 37.4")
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 2 double-width or 2 single-width GPU(s) Supported GPU: NVIDIA PCIe: T4, A16, A2, A100
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 12 bay(s) • 12 front hot-swap 2.5" NVMe/SAS*/SATA drive bay(s) (*SAS support may require additional storage controller and/or cables, please see the optional parts list for details)
Expansion Slots	Default • 1 PCIe 4.0 x16 LP slot(s) • 1 PCIe 4.0 x16 LP slot(s) • 2 PCIe 4.0 x16 FH/10.5"L slot(s)
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(s) USB: 2 USB 3.0 port(s) (rear) 1 USB 3.0 port(s) (front) Video: 1 VGA port(s) DOM: 2 SuperDOM (Disk on Module) port(s)

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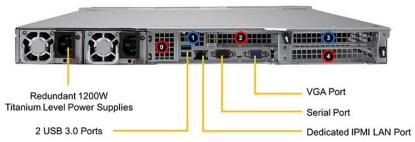
(Front View – System)



Slot	Description
0 – 5	2.5" Hot-swap NVMe/SAS3*/SATA3 Drive Bays (NVMe from CPU1)**
6 – 11	2.5" Hot-swap NVMe/SAS3*/SATA3 Drive Bays (NVMe from CPU2)**

*SAS3 support requires additional parts in optional parts list
**NVMe support requires additional parts in optional parts list

(Rear View – System)



	Slot Description
0	Ultra Riser Networking Slot
1	PCI-E 4.0 x16 Slot (Internal LP)
2	PCI-E 4.0 x16 Slot (LP)
3	PCI-E 4.0 x16 Slot (FH, 10.5"L)
4	PCI-E 4.0 x16 Slot (FH, 10.5"L)

CPU1 CPU2

System Cooling	Fans: 8x 4cm heavy duty fans with optimal fan speed control Air Shroud: 2 Air Shroud(s)
Power Supply	1x 1200W 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: 41 lbs (18.6 kg) Net Weight: 26.5 lbs (12.2 kg) Available Color: Black Front & Silver Body
Operating Environment	Operating Temperature: 10°C ~ 35°C (50°F ~ 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-119UH3TS-R1K22P-T**

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