

# Ultra SuperServer SYS-610U-TNR

1U Ultra with 4 NVMe/SAS/SATA bays



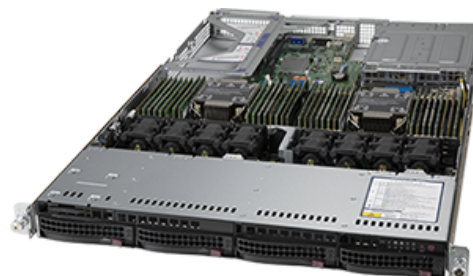
More details here

## Key Applications

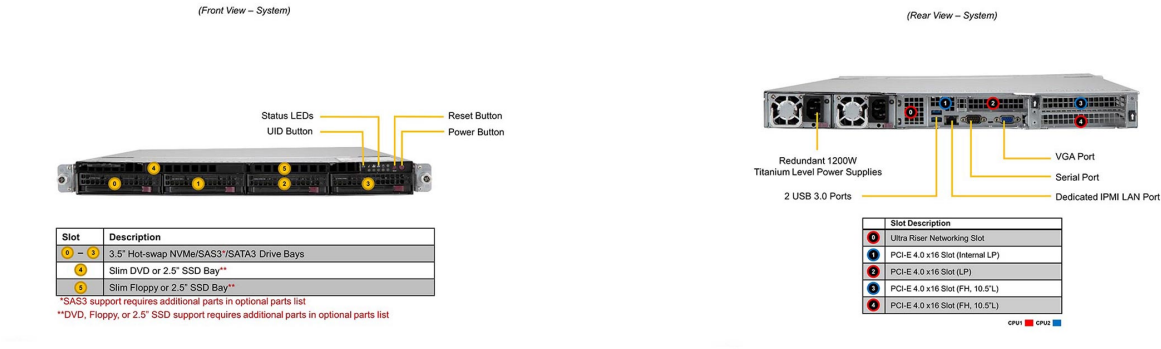
Virtualization, HPC, Cloud Computing, High End Enterprise Server, Software Defined Storage, Application Tier Service Provider, 5G/Telco,

## 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;
- 4x3.5" 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 754mm (17.2" x 1.7" x 29.7") 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 GPUs Supported GPU: NVIDIA PCIe: T4, RTX A4000, A30, 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 4 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 2.5" NVMe*/SAS*/SATA drive bays</li> </ul> (*NVMe/SAS support may require additional storage controller and/or cables)
Expansion Slots	Default <ul style="list-style-type: none"> <li>• 1 PCIe 4.0 x16 (in x16) LP slot</li> <li>• 1 PCIe 4.0 x16 (in x16) LP slot</li> <li>• 2 PCIe 4.0 x16 (in x16) FH/10.5"L slots</li> </ul>
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	<p>Fans: Up to 8x 4cm heavy duty fans with optimal fan speed control</p> <p>Air Shroud: 2 Air Shrouds</p>
Power Supply	<p>1x 1200W Redundant Titanium Level (96%) Hot-plug power supply</p>
System BIOS	<p>BIOS Type: AMI 32MB SPI Flash EEPROM</p>
Management	<p>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!</p>
PC Health Monitoring	<p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory 7 +1 Phase-switching voltage regulator</p> <p>FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors</p> <p>Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors</p>
Dimensions and Weight	<p>Weight: Gross Weight: 44.5 lbs (20.2 kg) Net Weight: 29.5 lbs (13.4 kg)</p> <p>Available Color: Black Front &amp; Silver Body</p>
Operating Environment	<p>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)</p>
Motherboard	<p><a href="#">Super X12DPU-6</a></p>
Chassis	<p>CSE-819U3TS-R1K22P-T</p>