

SYS-4029GP-TRT

4U GPU Server. Dual Root System for balanced performance & higher CPU to GPU communication



- 3D Rendering
- Cloud and Virtualization needs
- Compute Intensive Application
- Dual Root System for balanced performance & higher CPU to GPU communication
- Dual Socket P (LGA 3647) support 2nd Gen. Intel® Xeon® Scalable processors (Cascade Lake/Skylake)†
- 24 DIMMs; up to 6TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM††
- 8 PCI-E 3.0 x16 slots (support up to 8 double width GPU), 2 PCI-E 3.0 x8, 1 PCI-E 3.0 x4
- Up to 24 Hot-swap 2.5" drive bays; 8x 2.5" SATA drives supported with included H/W, 2x 2.5" NVMe drives supported with included H/W, 1 NVMe based M.2 SSD
- 2x 10GBase-T LAN ports via Intel C622
- 8 Hot-swap 92mm RPM cooling fans
- 2000W (2+2) Redundant Power Supplies Titanium Level (96%+)



Product SKUs	
SYS-4029GP-TRT	SuperServer 4029GP-TRT (Black)
Motherboard	Super X11DPG-OT-CPU
Processor/Cache	
CPU	Dual Socket P (LGA 3647) 2nd Gen. Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)†, 3 UPI up to 10.4GT/s Support CPU TDP 70-205W
Cores	Up to 28 Cores
Note	† BIOS version 3.0a or above is required to support 2nd Gen. Intel® Xeon® Scalable processors
System Memory	
Memory Capacity	24 DIMM slots Up to 6TB 3DS ECC DDR4-2933MHz† RDIMM/LRDIMM Supports Intel® Optane™ DCPMM††
Memory Type	2933†/2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM
Note	† 2933MHz in two DIMMs per channel can be achieved by using memory purchased from Supermicro †† Cascade Lake only.
On-Board Devices	
Chipset	Intel® C622 chipset
SATA	SATA3 (6Gbps) with RAID 0, 1, 5, 10
Network Controllers	Dual Port 10GbE from C622
IPMI	Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	ASPEED AST2500 BMC
Input / Output	
SATA	10 SATA3 (6Gbps) ports
LAN	2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	4 USB 3.0 ports (rear)
Video	1 VGA Connector
COM Port	1 COM port (header)
System BIOS	
BIOS Type	AMI 32Mb SPI Flash ROM

SYS-4029GP-TRT

4U GPU Server. Dual Root System for balanced performance & higher CPU to GPU communication

Management	
Software	Intel® Node Manager IPMI 2.0 KVM with dedicated LAN SSM, SPM, SUM SuperDoctor® 5 Watchdog
PC Health Monitoring	
CPU	Monitors for CPU Cores, Chipset Voltages, Memory. 4+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
Chassis	
Form Factor	4U Rackmountable Rackmount Kit (MCP-290-00057-0N)
Model	CSE-418GTS-R4000BP2
Drive Bays / Storage	
Hot-swap	Up to 24x 2.5" SAS/SATA drive bays 8x 2.5" SATA supported natively 2x 2.5" NVMe supported natively
M.2	1 NVMe based M.2 SSD Form Factors: 2260, 2280, 22110
Expansion Slots	
PCI-Express	8 PCI-E 3.0 x16 (double-width) slots 2 PCI-E 3.0 x8 slots 1 PCI-E 3.0 x4 slot
Fans	8 Hot-swap 92mm cooling fans
Shrouds	1 Air Shroud (MCP-310-41808-0B)
Power Supply	2000W Redundant Power Supplies with PMBus
Total Output Power	1000W/1800W/1980W/2000W
Dimension (W x H x L)	73.5 x 40 x 265 mm
Input	100-120Vac / 12.5-9.5A / 50-60Hz 200-220Vac / 10-9.5A / 50-60Hz 220-230Vac / 10-9.8A / 50-60Hz 230-240Vac / 10-9.8A / 50-60Hz 200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)
+12V	Max: 83.3A / Min: 0A (100-120Vac) Max: 150A / Min: 0A (200-220Vac) Max: 165A / Min: 0A (220-230Vac) Max: 166.7A / Min: 0A (230-240Vac) Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)
12Vsb	Max: 2.1A / Min: 0A
Output Type	25 Pairs Gold Finger Connector
Certification	Titanium Level
Operating Environment	
RoHS	RoHS Compliant
Environmental Spec.	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)