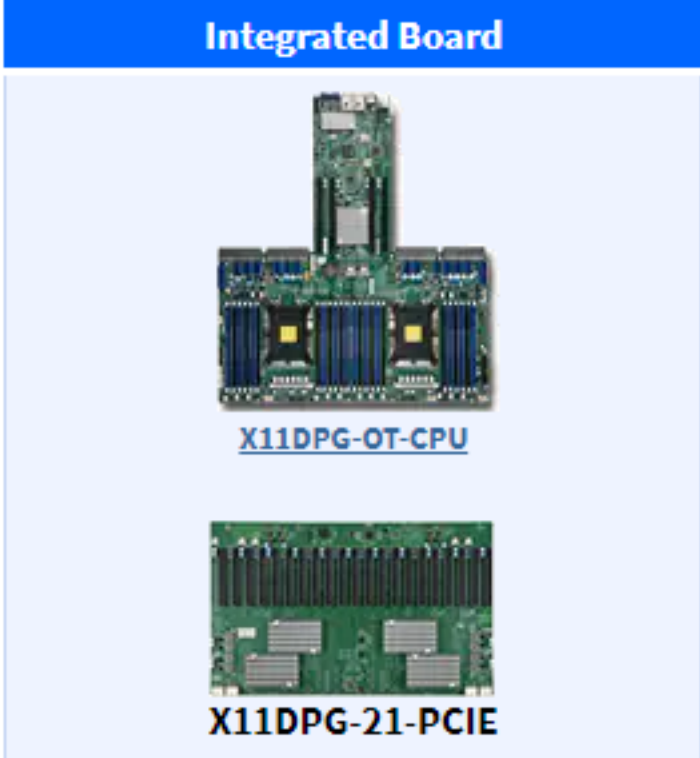


SuperServer 6049GP-TRT



4U Dual Processor System with 20 Single-Width NVIDIA T4 GPUs



Views: | [Angled View](#) | [Top View](#) | [Front View](#) | [Rear View](#) |

- [Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [Drive Options](#) | [NVMe Options](#) | [Tested M.2 List](#) | [Manuals](#)
- [OS Certification Matrix](#) | [Compatible GPU List](#)

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

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Key Applications

- AI/ML, Deep Learning Training and Inference
- Big Data Analytics
- High Performance Computing (HPC)
- Research Laboratory/National Laboratory
- Video Transcoding
- High Performance Computing (HPC)
- Video Transcoding

Key Features

1. Supports 20 NVIDIA® T4 PCI-E Single-Width GPUs
2. Dual Socket P (LGA 3647) support 2nd Gen Intel® Xeon® Scalable processors (Cascade Lake/Skylake)[‡]
3. 24 DIMMs; up to 6TB 3DS ECC DDR4-2933MHz[†] RDIMM/LRDIMM, Supports Intel® Optane™ DCPMM^{††}
4. 20 PCI-E 3.0 x16 support up to 20 single width GPU; 1 PCI-E 3.0 x8 (FH, FL in x16 slot)
5. 24 Hot-swap 3.5" drive bays or 22 Hot-swap 3.5" drive bays + 2 U.2 NVMe 2.5" drives
6. 2x 10GBase-T LAN ports
7. 8 Hot-swap 92mm RPM cooling fans
8. 2000W (2+2) Redundant Power Supplies **Titanium Level (96%+)**

Specifications ^

Product SKUs	
SYS-6049GP-TRT	SuperServer 6049GP-TRT
Motherboard	
Super X11DPG-OT-CPU	
Processor	
CPU	Dual Socket P (LGA 3647) 2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors [‡] , 3 UPI up to 10.4GT/s Support CPU TDP 70-205W
Cores	Up to 28 Cores
Note	[‡] BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)
GPU	
Supported GPUs	20 Double-Width/Single-Width PCI-E 3.0 x16 Card (Full Height Full Length) NVIDIA T4 Compatible GPU list
CPU-GPU Interconnect	PCI-E Gen 3 x16 Switch CPU-GPU Interconnect
GPU-GPU Interconnect	PCI-E, NVIDIA® NVLink™ Bridge (Optional)
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. Contact your Supermicro sales rep for more info.
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	24 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
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-848GTS-R4000P
Dimensions	
Height	7.0" (178mm)
Width	17.2" (437mm)
Depth	32.1" (815mm)
Weight	Net Weight: 65.5 lbs (29.7 kg) Gross Weight: 100 lbs (45.3 kg)
Available Colors	Black
Drive Bays / Storage	
Hot-swap	24 Hot-swap 3.5" drive bays or 22 Hot-swap 3.5" drive bays + 2 U.2 NVMe 2.5" drives
M.2	M.2 Interface: 1 PCI-E 3.0 x4 Form Factors: 2280, 22110 Key: M-Key
Expansion Slots	
PCI-Express	20 PCI-E 3.0 x16 (FHHL) slots - supporting up to 20 NVIDIA T4 Single-Width GPUs 1 PCI-E 3.0 x8 (FH, FL in x16) slot
System Cooling	
Fans	8x 92mm RPM Hot-Swappable Cooling Fans
Power Supply	
2000W Redundant Power Supplies with PMBus	
Total Output Power	1000W: 100 – 120Vac 1800W: 200 – 220Vac 1980W: 220 – 230Vac 2000W: 230 – 240Vac 2000W: 200 – 240Vac (UL/CUL only)
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 [Test Report]
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)

Parts List ^

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