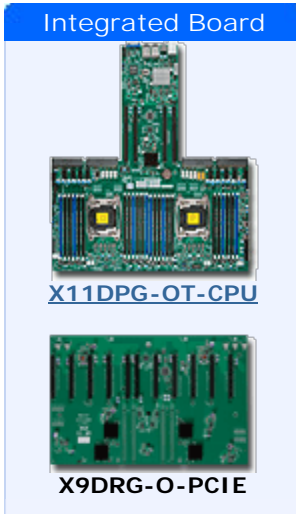


# SuperServer 4029GP-TRT



## Key Features

- 3D Rendering
- Astrophysics, Chemistry
- Cloud and Virtualization needs
- Cloud Computing
- Compute Intensive Application

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
2. Up to 3TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 24 DIMM slots
3. 8 PCI-E 3.0 x16 slots (support up to 8 double width GPU), 2 PCI-E 3.0 x8, 1 PCI-E 2.0 x4
4. Up to 24 Hot-swap 2.5" drive bays; 8x 2.5" drives supported natively
5. 2x 10GBase-T LAN ports via Intel C622
6. 8 Hot-swap 92mm RPM cooling fans
7. 2000W (2+2) Redundant Power Supplies Titanium Level (96%+)

- ▶ [Drivers & Utilities](#)
- ▶ [BIOS](#)
- ▶ [IPMI](#)
- ▶ [Tested Memory](#)
- ▶ [Tested M.2 List](#)
- ▶ [OS Certification Matrix](#)

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

## Specifications

### Product SKUs

- SYS-4029GP-TRT
  - SuperServer 4029GP-TRT (Black)

### Motherboard

[Super X11DPG-OT-CPU](#)

### Processor/Cache

- CPU
  - Dual Socket P (LGA 3647)
  - Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
  - Support CPU TDP 70-205W
- Cores
  - Up to 28 Cores with Intel® HT Technology

- GPU Support
  - Please refer to: [Compatible GPU list](#)

### System Memory

- Memory
  - 24 DIMM slots

### Chassis

- Form Factor
  - 4U Rackmountable
  - Rackmount Kit (MCP-290-00057-0N)
- Model
  - CSE-418GTS-R4000B

### Dimensions



- Height
  - 7.0" (178mm)
- Width
  - 17.2" (437mm)
- Depth
  - 29" (737mm)
- Weight
  - Net Weight: 65.5 lbs (29.7 kg)
  - Gross Weight: 100 lbs (45.3 kg)
- Available Colors
  - Black

### Drive Bays

- Hot-swap
  - Up to 24 Hot-swap 2.5" SAS/SATA drive bays
  - 8x 2.5" drives supported natively

### Expansion Slots

Capacity	Up to 3TB ECC 3DS LRDIMM, 1TB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	<ul style="list-style-type: none"> <li>2666/2400/2133MHz ECC DDR4 SDRAM</li> </ul>
<b>On-Board Devices</b>	
Chipset	<ul style="list-style-type: none"> <li>Intel® C622 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) with RAID 0, 1, 5, 10</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual Port 10GbE from C622</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>ASPEED AST2500 BMC</li> </ul>
<b>Input / Output</b>	
SATA	<ul style="list-style-type: none"> <li>10 SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2 RJ45 10GBase-T LAN ports</li> <li>1 RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>4 USB 3.0 ports (rear)</li> </ul>
Video	<ul style="list-style-type: none"> <li>1 VGA Connector</li> </ul>
COM Port	<ul style="list-style-type: none"> <li>1 COM port (rear)</li> </ul>
<b>System BIOS</b>	
BIOS Type	<ul style="list-style-type: none"> <li>AMI 32Mb SPI Flash ROM</li> </ul>
<b>Management</b>	
Software	<ul style="list-style-type: none"> <li>Intel® Node Manager</li> <li>IPMI 2.0</li> <li>KVM with dedicated LAN</li> <li>SSM, SPM, SUM</li> <li>SuperDoctor® 5</li> <li>Watchdog</li> </ul>
<b>PC Health Monitoring</b>	
CPU	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, Chipset Voltages, Memory.</li> <li>4+1 Phase-switching voltage regulator</li> </ul>
FAN	<ul style="list-style-type: none"> <li>Fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Pulse Width Modulated (PWM) fan connectors</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>Thermal Control for fan connectors</li> </ul>

PCI-Express	<ul style="list-style-type: none"> <li>8 PCI-E 3.0 x16 (double-width) slots</li> <li>2 PCI-E 3.0 x8 slots</li> <li>1 PCI-E 2.0 x4 slot</li> </ul>
<b>System Cooling</b>	
Fans	<ul style="list-style-type: none"> <li>8 Hot-swap 92mm cooling fans</li> </ul>
Shrouds	<ul style="list-style-type: none"> <li>1 Air Shroud (MCP-310-41808-0B)</li> </ul>
<b>Power Supply</b>	
2000W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> <li>1000W/1800W/1980W/2000W</li> </ul>
Dimension (W x H x L)	<ul style="list-style-type: none"> <li>73.5 x 40 x 265 mm</li> </ul>
Input	<ul style="list-style-type: none"> <li>100-120Vac / 12.5-9.5A / 50-60Hz</li> <li>200-220Vac / 10-9.5A / 50-60Hz</li> <li>220-230Vac / 10-9.8A / 50-60Hz</li> <li>230-240Vac / 10-9.8A / 50-60Hz</li> <li>200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)</li> </ul>
+12V	<ul style="list-style-type: none"> <li>Max: 83.3A / Min: 0A (100-120Vac)</li> <li>Max: 150A / Min: 0A (200-220Vac)</li> <li>Max: 165A / Min: 0A (220-230Vac)</li> <li>Max: 166.7A / Min: 0A (230-240Vac)</li> <li>Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)</li> </ul>
12Vsb	<ul style="list-style-type: none"> <li>Max: 2.1A / Min: 0A</li> </ul>
Output Type	<ul style="list-style-type: none"> <li>25 Pairs Gold Finger Connector</li> </ul>
Certification	  <ul style="list-style-type: none"> <li>UL/cUL/CB/BSMI/CE/CCC Titanium Level [ Test Report ]</li> </ul>
<b>Operating Environment</b>	
RoHS	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
Environmental Spec.	<ul style="list-style-type: none"> <li>Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)</li> <li>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)</li> <li>Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>Non-operating Relative Humidity: 5% to 95% (non-condensing)</li> </ul>

## Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X11DPG-OT-CPU	1	Super X11DPG-OT-CPU Motherboard
	MBD-X9DRG-O-PCIE	1	Super X9DRG-O-PCIE Motherboard
	CSE-418GTS-R4000B	1	CSE-418GTS-R4000B Chassis
<b>Backplane</b>	BPN-SAS3-216A-N4	1	24-port 2U SAS3 12Gbps hybrid backplane, support up to 20x 2.5-inch SAS3/SATA3 HDD/SSD and 4x SAS3/SATA3/NVMe Storage Devices
<b>Cable 1</b>	CBL-0449L	2	HDD power extension for X8OBN, special 8 pin to 4 HDD. 45cm. 18AWG
<b>Cable 2</b>	CBL-PWEX-1028	8	GPU,2x4F/CPU to 2x4F/CPU,P4.2, 30CM,16AWG, 10A/pin, -40~105C
<b>Cable 3</b>	CBL-SAST-0507-01	2	MINI SAS HD-MINI SAS,6G,INT,80CM,SB,28AWG
<b>Cable 4</b>	CBL-SAST-0972	2	OcuLink V. 1.0 source to MiniSAS HD,INT,PCIe, 70CM,34AWG,RoH
<b>Parts</b>	MCP-130-41801-0B	1	Black plastic palm cover for X9DRG-O-PCIE
<b>Riser Card</b>	RSC-X9DRG-O	4	RSC-X9DRG-O
<b>Heatsink / Retention</b>	SNK-P0068APS4	2	2U Active CPU Heat Sink Supporting Narrow Bolster Plate Mounting Mechanism for X11 Purley Platform
<b>Power Supply</b>	PWS-2K05A-1R	4	1U 2000W Redundant Titanium Power Supply W/PMbus 73.5x40x265mm,RoHS/REACH
<b>FAN 1</b>	FAN-0151L4	8	92x92x38 mm, 11.5K RPM, SC418G Middle Fan w/ Housing,RoHS/REACH,PBF
<b>Rear Window</b>	MCP-240-84802-0N	1	21 slot rear window for SC418X

Optional Parts List			
	Part Number	Qty	Description
<b>Other GPUs Cables</b>	CBL-PWEX-1040	8	GPU,2x4M/CPU to two (2x3F+2x1F)/PCIe,P4.2, 5CM,16/20AWG, 10.5A/pin(16AWG), 8A/pin(20AWG), -25~85C,RoHS
<b>AOC-S3008L-L8i (SAS3)</b>	CBL-SAST-0531	1	Mini-SAS HD to Mini-SAS HD
<b>AOC-S3108L-H8IR-16DD (SAS3)</b>	CBL-SAST-0531	1	Mini-SAS HD to Mini-SAS HD
<b>AOC-S3108L-H8IR (SAS3)</b>	CBL-SAST-0531	1	Mini-SAS HD to Mini-SAS HD
<b>Super Cap for LSI 3108</b>	BKT-BBU-BRACKET-05	1	Mounting Bracket for LSI BBUs
	BTR-TFM8G-LSICVM02	1	LSI Super Cap
<b>Global Services &amp; Support</b>	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)