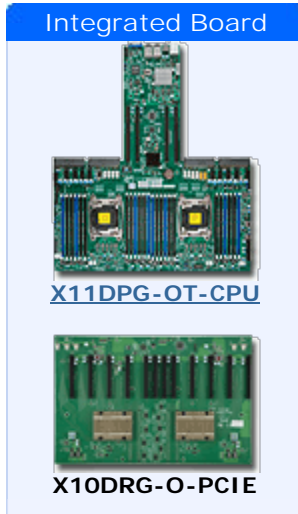


SuperServer 4029GP-TRT2



Key Features

- Artificial Intelligence
- Big Data Analytics
- High-performance Computing
- Research Lab/National Lab
- Astrophysics, Business Intelligence

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. 11 PCI-E 3.0 x16 (FH, FL) slots
1 PCI-E 3.0 x8 (FH, FL in x16 slot)
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-TRT2
 - SuperServer 4029GP-TRT2 (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	<ul style="list-style-type: none"> Up to 3TB ECC 3DS LRDIMM, 1TB ECC RDIMM, DDR4 up to 2666MHz
Memory Type	<ul style="list-style-type: none"> 2666/2400/2133MHz ECC DDR4 SDRAM
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C622 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1, 5, 10
Network Controllers	<ul style="list-style-type: none"> Dual Port 10GbE from C622
IPMI	<ul style="list-style-type: none"> Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Graphics	<ul style="list-style-type: none"> ASPEED AST2500 BMC
Input / Output	
SATA	<ul style="list-style-type: none"> 10 SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none"> 2 RJ45 10GBase-T LAN ports 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 4 USB 3.0 ports (rear)
Video	<ul style="list-style-type: none"> 1 VGA Connector
COM Port	<ul style="list-style-type: none"> 1 COM port (rear)
System BIOS	
BIOS Type	<ul style="list-style-type: none"> AMI 32Mb SPI Flash ROM
Management	
Software	<ul style="list-style-type: none"> Intel® Node Manager IPMI 2.0 KVM with dedicated LAN SSM, SPM, SUM SuperDoctor® 5 Watchdog
PC Health Monitoring	
CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, Chipset Voltages, Memory. 4+1 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none"> Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and chassis environment Thermal Control for fan connectors

PCI-Express	<ul style="list-style-type: none"> 11 PCI-E 3.0 x16 (FH, FL) slots 1 PCI-E 3.0 x8 (FH, FL, in x16) slot
System Cooling	
Fans	<ul style="list-style-type: none"> 8 Hot-swap 92mm cooling fans
Shrouds	<ul style="list-style-type: none"> 1 Air Shroud (MCP-310-41808-0B)
Power Supply	
2000W Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1800W/1980W/2000W
Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 265 mm
Input	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]

Operating Environment	
RoHS	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPG-OT-CPU	1	Super X11DPG-OT-CPU Motherboard
	MBD-X10DRG-O-PCIE	1	Super X10DRG-O-PCIE Motherboard
	CSE-418GTS-R4000B	1	CSE-418GTS-R4000B Chassis
Backplane	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
Cable 1	CBL-0449L	2	HDD power extension for X8OBN, special 8 pin to 4 HDD. 45cm. 18AWG
Cable 2	CBL-PWEX-1028	8	GPU,2x4F/CPU to 2x4F/CPU,P4.2, 30CM,16AWG, 10A/pin, -40~105C
Cable 3	CBL-SAST-0507-01	2	MINI SAS HD-MINI SAS,6G,INT,80CM,SB,28AWG

Cable 4	CBL-SAST-0972	2	OcuLink V. 1.0 source to MiniSAS HD,INT,PCIe, 70CM,34AWG,RoH
Parts	MCP-130-41802-0B	1	Black plastic palm cover for X10DRG-O-PCIE
Riser Card	RSC-X9DRG-O	4	RSC-X9DRG-O
Heatsink / Retention	SNK-P0068APS4	2	2U Active CPU Heat Sink Supporting Narrow Bolster Plate Mounting Mechanism for X11 Purley Platform
Power Supply	PWS-2K05A-1R	4	1U 2000W Redundant Titanium Power Supply W/PMbus 73.5x40x265mm,RoHS/REACH
FAN 1	FAN-0151L4	8	92x92x38 mm, 11.5K RPM, SC418G Middle Fan w/ Housing,RoHS/REACH,PBF
Rear Window	MCP-240-84802-0N	1	21 slot rear window for SC418X

Optional Parts List

	Part Number	Qty	Description
Other GPUs Cables	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
AOC-S3008L-L8i (SAS3)	CBL-SAST-0531	1	Mini-SAS HD to Mini-SAS HD
AOC-S3108L-H8IR-16DD (SAS3)	CBL-SAST-0531	1	Mini-SAS HD to Mini-SAS HD
AOC-S3108L-H8IR (SAS3)	CBL-SAST-0531	1	Mini-SAS HD to Mini-SAS HD
Super Cap for LSI 3108	BKT-BBU-BRACKET-05	1	Mounting Bracket for LSI BBUs
	BTR-TFM8G-LSICVM02	1	LSI Super Cap
Global Services & Support	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
	OSNBD3/2/1	-	3/2/1-year onsite NBD service
Software	SFT-OOB-LIC	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)