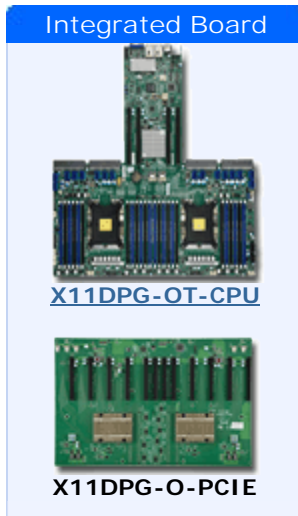


SuperServer 4029GP-TRT3



Key Features

- AI /Deep Learning
- Support up to 8 GPUs

1. Dual Socket P (LGA 3647) support Intel® Xeon® Scalable Processors
2. Up to 3TB 3DS ECC 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
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](#) ▶ [NVMe Options](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#)
- ▶ [Compatible GPU List](#) ▶ [Drive Options](#)

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-TRT3
 - SuperServer 4029GP-TRT3 (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 Capacity
 - 24 DIMM slots
 - Up to 3TB 3DS ECC L/RDIMM, up to DDR4-2666MHz
- Memory Type
 - 2666/2400/2133MHz ECC DDR4 RDIMM/LRDIMM

On-Board Devices

Chassis

- Form Factor
 - 4U Rackmountable
 - Rackmount Kit (MCP-290-00057-0N)
- Model
 - CSE-418GTS-R4000BP2

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 / Storage

- Hot-swap
 - Up to 24x 2.5" SAS/SATA drive bays
 - 8x 2.5" SAS/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
 - 11 PCI-E 3.0 x16 (FH, FL) slots
 - 1 PCI-E 3.0 x8 (FH, FL, in x16) slot

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

System Cooling	
Fans	<ul style="list-style-type: none"> 8x 92mm heavy duty counter-rotating fans with air shroud & optimal fan speed control

Power Supply	
2000W Redundant Power Supplies with PMBus	

Total Output Power	<ul style="list-style-type: none"> 1000W/1800W/1980W/2000W
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Dimension (W x H x L)	<ul style="list-style-type: none"> 73.5 x 40 x 265 mm
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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)
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+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)
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12Vsb	<ul style="list-style-type: none"> Max: 2.1A / Min: 0A
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Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
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Certification	  <ul style="list-style-type: none"> UL/cUL/CB/BSMI/CE/CCC Titanium Level [Test Report]
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Operating Environment	
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RoHS	<ul style="list-style-type: none"> RoHS Compliant
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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)
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Parts List

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X11DPG-OT-CPU	1	Super X11DPG-OT-CPU Motherboard
	MBD-X11DPG-O-PCIE	1	Super X11DPG-O-PCIE Motherboard
	CSE-418GTS-R4000BP2	1	CSE-418GTS-R4000BP2 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
* Cable 5	CBL-0071L	1	CBL,FRONT CNTL,16 TO 16 PIN,RA,RND TUBE,75CM,28AWG
* Cable 6	CBL-0174L	4	PWCD,US,NEMA5-15P TO IEC60320 C13,6FT,14AWG,15A,125V,RoHS/REACH
* FAN 1	FAN-0151L4	8	92x92x38 mm, 11.5K RPM, SC418G Middle Fan w/ Housing,RoHS/REACH,PBF
* Drive Tray(s)	MCP-220-00047-0B	24	Black gen 3rd hot-swap 2.5inch HDD tray
* Rear Window	MCP-240-84802-0N	1	21 slot rear window for SC418X
* Parts	MCP-260-41801-0N	1	IO shield for X9DRG-O in SC418G
* Front Panel	MCP-280-82601-0N	1	Front control board adapter (TB826) for SC216,826,936,846
* Rail Set	MCP-290-00057-0N	1 set	Rail set, quick/quick, default for 4U 17.2"; W
* Rail Set	MCP-290-00060-0N	1	Threaded rail adapter default for round hole rack
* Drive Tray(s)	MCP-290-21301-0B	3	Black 2.5" HDD dummy cover for SC213,216 (Cover 8 HDD)
* Rail Set	MCP-290-00115-0N	1	Inner rail, quick-release type
* Rail Set	MCP-290-00117-0N	1	Outer rail, quick-release type
* FAN 2	MCP-340-00044-0N	1	92x92x38 mm, 11.5K RPM, 4-pin PWM Bare Fan

Notes:

1. Parts with * are inside the chassis
2. Excessive parts might not be shipped, including but not limited to excessive drive trays, fans, riser brackets, air shrouds, IO shields, cables.....etc.

Optional Parts List

	Part Number	Qty	Description
NVIDIA Quadro & Generic GPU Cables	CBL-PWEX-1040	1 per GPU	GPU,2x4M/CPU to two (2x3F+2x1F)/PCIe,P4.2, 5CM,16/20AWG, 10.5A/pin(16AWG), 8A/pin(20AWG), -25~85C,RoHS
Storage Control Card and Cable for 2x Hybrid NVMe/SAS Drive Bays	AOC-S3008L-L8e & CBL-SAST-0531	1 AOC + 2 CBL	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 122 HDD, HBA
	AOC-S3008L-L8i & CBL-SAST-0531	1 AOC + 2 CBL	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 63 HDD, RAID 0,1,1E
	AOC-S3108L-H8iR & CBL-SAST-0531	1 AOC + 2 CBL	Std LP, 8 internal ports, 12Gb/s per port- Gen3, 240 HDD, RAID 0,1,5,6,10,50,60
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 • eStore	1	OOB Management Package (per node license)
Software	SFT-DCMS-Single	1	DataCenter Management Package (per node license)