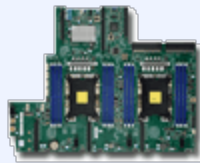


SuperServer 1029GQ-TRT



Integrated Board



[X11DGQ](#)

Key Features

- Supports up to 4 NVIDIA® GPUs in 1U
- Support Active/Passive GPUs
- GPU health monitoring with Fan speed control

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
2. Up to 1.5TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 12 DIMM slots
3. 4 PCI-E 3.0 x16 (FHFL) slots, 2 PCI-E 3.0 x16 (LP) slots
4. 2 Hot-swap 2.5" SAS/SATA drive bays, 2 Internal 2.5" drive bays
5. 2x 10GBase-T LAN ports via Intel X540
6. 9 Heavy duty 4cm counter-rotating fans with air shroud & optimal fan speed control
7. 2000W Redundant Power Supplies **Titanium Level (96%)**

[▶ Drivers & Utilities](#)
[▶ BIOS](#)
[▶ IPMI](#)
[▶ Tested Memory](#)
[▶ Manuals](#)
[▶ OS Certification Matrix](#)
[▶ 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-1029GQ-TRT** ■ SuperServer 1029GQ-TRT (**Black**)

Motherboard

Super X11DGQ

Processor/Cache

- CPU**
- Dual Socket P (LGA 3647)
 - Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
 - Support CPU TDP 70-165W

- Cores** ■ Up to 28 Cores with Intel® HT Technology

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

System Memory

- Memory Capacity**
- 12 DIMM slots
 - Up to 1.5TB ECC 3DS LRDIMM, 1.5TB ECC RDIMM, DDR4 up to 2666MHz

- Memory Type** ■ 2666/2400/2133MHz ECC DDR4 SDRAM

Chassis

- Form Factor** ■ 1U Rackmount

- Model** ■ **CSE-118GQETS-R2K05P2**

Dimensions and Weight

- Height** ■ 1.7" (43mm)

- Width** ■ 17.2" (437mm)

- Depth**
- 35.2" (894mm)
 - 39.3" (997mm) with rails

- Package** ■ 24" (H) x 8" (W) x 46" (D)

- Weight**
- Net Weight: 45 lbs (15.9 kg)
 - Gross Weight: 58 lbs (21.8 kg)

- Available Color** ■ Black

Front Panel

- Buttons**
- Power On/Off button
 - System Reset button

- LEDs**
- Power LED
 - Hard drive activity LED
 - Network activity LEDs
 - System Overheat LED / Fan fail LED /UID LED

On-Board Devices

Chipset	▪ Intel® C621 chipset
SATA	▪ SATA3 (6Gbps) with RAID 0, 1, 5, 10
Network Connectivity	▪ Intel® X540 Dual Port 10GBase-T ▪ Virtual Machine Device Queues reduce I/O overhead ▪ Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
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	▪ 4 SATA3 (6Gbps) ports
LAN	▪ 2 RJ45 10GBase-T ports ▪ 1 RJ45 Dedicated IPMI LAN port
USB	▪ 2 USB 3.0 ports (rear)
Video	▪ 1 VGA port
Serial Header	▪ 1 Fast UART 16550 header

System BIOS

BIOS Type	▪ AMI 32Mb SPI Flash ROM
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Management

Software	▪ Intel® Node Manager ▪ IPMI 2.0 ▪ KVM with dedicated LAN ▪ SSM , SPM , SUM ▪ SuperDoctor® 5 ▪ Watch Dog
Power Configurations	▪ ACPI / APM Power Management

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

Expansion Slots

PCI-Express	▪ 4 PCI-E 3.0 x16 (FHFL) slots ▪ 2 PCI-E 3.0 x16 (LP) slots
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Drive Bays

Hot-swap	▪ 2 Hot-swap 2.5" SAS/SATA drive bays
Fixed	▪ 2 Internal 2.5" drive bays

System Cooling

Fans	▪ 9 Heavy duty 4cm counter-rotating fans with air shroud & optimal fan speed control
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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	<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	▪ Max: 2.1A / Min: 0A
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Output Type	▪ 25 Pairs Gold Finger Connector
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Certification	 
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Operating Environment

RoHS	▪ 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-X11DGQ	1	Super X11DGQ Motherboard
	CSE-118GQETS-R2K05P2	1	CSE-118GQETS-R2K05P2 Chassis
Add-on Card / Module	AOM-PIO-I2XT-P	1	AOM-PIO-I2XT
Backplane	BPN-SAS3-118GQE	1	2-port 1U SAS3 12Gbps backplane, support up to 2x 2.5-inch SAS3/SATA3 HDD/SSD

Cable 1	CBL-0484L	4	SATA,INT,ROUND,ST-ST,55CM,30AWG
Cable 2	CBL-PWEX-1026	3	GPU,2x4F/RA/CPU to 2x4F/CPU,P4.2, 35CM, 17AWG, 8A/pin, -25~85C, RoHS
Cable 3	CBL-PWEX-1027	1	GPU,2x4F/RA/CPU to 2x4F/CPU,P4.2, 14CM, 17AWG, 8A/pin, -25~85C, RoHS
Manual	MNL-1810-QRG	1	SYS-1028GQ-TR(T) Quick Reference Guide,HF,RoHS/REACH
Riser Card	RSC-G-A6	1	U RHS Active Rear Riser card with 1 PCI-E x16,HF,RoHS
Riser Card	RSC-G-A66	1	1U LHS Active GPU Riser card with two PCI-E x16 Slots,HF,RoH
Riser Card	RSC-GR-6-X	3	1U LHS GPU riser card with one PCI-E x16 slot,HF,RoHS
Heatsink / Retention	SNK-P0067PS	2	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Power Supply	PWS-2K05A-1R	2	1U 2000W Redundant Titanium Power Supply W/PMbus 73.5x40x265mm,RoHS/REACH
FAN 1	FAN-0163L4	9	40x40x56 mm, 23.3K-20.3K RPM, Counter-rotating Fan
Rear Window	MCP-240-11807-0N	1	SC118GQE Rear Window for 2x PCI-FL or 4th GPU
Fans	FAN-0163L4	8	40x40x56 mm 23.3K-20.3K RPM Counter-rotating Fan
Rail Set	MCP-290-11809-0N	1	Rail set, Quick/Quick, Auto Latch, travel 535mm Short Version, Post to Post 685mm

Optional Parts List

	Part Number	Qty	Description
GTX GPU cables	CBL-PWEX-1061	3	GPU,2x4F/RA/CPU to 2 (2x3F+2x1F)/PCIe,P4.2,34CM,17/20AWG
	CBL-PWEX-1062	1	GPU,2x4F/RA/CPU to 2 (2x3F+2x1F)/PCIe,P4.2,25CM,17/20AWG
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)

Note: For Coprocessors, GPUs, VCA, FPGA cards not listed in table above please contact sales to discuss compatibility.