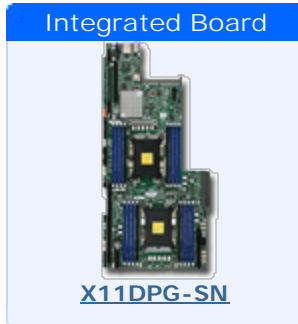


SuperServer 1029GP-TR



Barebones and Complete System must be bundled with at least one SIOM or network card per system

[▶ Drivers & Utilities](#) ▶ [BIOS](#) ▶ [IPMI](#) ▶ [Tested Memory](#) ▶ [Manuals](#) ▶ [OS Certification Matrix](#) ▶ [Drive Options](#)

Coming Soon

Key Features

- Supports up to 3 GPUs in 1U
- Support Passive GPUs
- 2D/3D and CAD Applications
- Astrophysics, Chemistry
- Cloud and Virtualization

1. Dual socket P (LGA 3647) supports Intel® Xeon® Scalable Processors, 3 UPI up to 10.4GT/s
2. Up to 2TB ECC 3DS LRDIMM, up to DDR4-2666MHz; 16 DIMM slots
3. 4 PCI-E 3.0 x16 (FHFL) slots, 1 PCI-E 3.0 x8 (in x16, LP) slots
4. 2 Hot-swap 2.5" SAS/SATA drive bays, 2 Hot-swap 2.5" SAS/SATA/NVMe drive bays
5. 1 **SIOM** for flexible Networking
6. 10 Counter rotating fans with optimal fan speed control
7. 1600W Redundant Power Supplies Platinum Level (94%)

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

Specifications

Product SKUs

SYS-1029GP-TR ■ SuperServer 1029GP-TR (Black)

Motherboard

Super X11DPG-SN

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

Note * 165W support ambient up to 25C.

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

System Memory

Memory Capacity ■ 16 DIMM slots
 ■ Up to 2TB ECC 3DS LRDIMM, 2TB ECC RDIMM, DDR4 up to 2666MHz

Chassis

Form Factor ■ 1U Rackmount
 Model ■ CSE-118GH-R1K66B2

Dimensions and Weight

Height ■ 1.7" (43mm)
 Width ■ 17.2" (437mm)
 Depth ■ 30.6" (777mm)

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 /

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® C621 chipset
SATA	<ul style="list-style-type: none"> SATA3 (6Gbps) with RAID 0, 1, 5, 10
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"> 2 SATA3 (6Gbps) ports, 2 miniSAS ports
LAN	<ul style="list-style-type: none"> 1 RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 2 USB 3.0 ports (rear)
Video	<ul style="list-style-type: none"> 1 VGA port
Serial Header	<ul style="list-style-type: none"> 1 Fast UART 16550 header
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 Watch Dog
Power Configurations	<ul style="list-style-type: none"> ACPI / APM Power Management
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

UID LED	
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 4 PCI-E 3.0 x16 (FHFL) slots 1 PCI-E 3.0 x8 (in x16, LP) slot
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 4 Hot-swap 2.5" drive bays
System Cooling	
Fans	<ul style="list-style-type: none"> 10 Heavy duty 4cm counter-rotating fans with air shroud & optimal fan speed control
Power Supply	
1600W 1U Redundant Power Supplies with PMBus	
Total Output Power	<ul style="list-style-type: none"> 1000W/1600W
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"> 100-127Vac / 12.9A Max / 50-60Hz 200-240Vac / 9.5A Max / 50-60Hz
+12V	<ul style="list-style-type: none"> Max: 82A / Min: 0.1A (100-127Vac) Max: 132A / Min: 0.1A (200-240Vac)
12V SB	<ul style="list-style-type: none"> Max: 2A / Min: 0.2A
Output Type	<ul style="list-style-type: none"> 25 Pairs Gold Finger Connector
Certification	  Platinum 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-SN	1	Super X11DPG-SN Motherboard
	CSE-118GH-R1K66B2	1	CSE-118GH-R1K66B2 Chassis
Backplane	BPN-SAS3-118GH-N2	1	1U 4-Port Hybrid Backplane Supports 2 x 2.5" SAS3/SATA3 HDD/SSD and 2 x 2.5" SAS3/SATA3/NVMe Storage Device for GPU Platform,HF,RoHS
Cable 1	CBL-0296L	5	4 pin to 4 pin fan extension cord, for PWM fan. 23cm. 24AWG
Cable 2	CBL-PWEX-1027	2	GPU,2x4F/RA/CPU to 2x4F/CPU,P4.2, 14CM, 17AWG, 8A/pin, -25~85C, RoHS
Cable 3	CBL-PWEX-1028	1	GPU,2x4F/CPU to 2x4F/CPU,P4.2, 30CM,16AWG, 10A/pin, -40~105C
Cable 4	CBL-PWEX-1064	1	8pin CPU 12V to 4pin x 2pcs 280mm,HF,RoHS
Cable 5	CBL-SAST-0974-1	2	OcuLink v 1.0,INT,PCIe NVMe SSD, 37CM,34AWG

Cable 6	CBL-SAST-1020	1	MINI SAS HD(LA)-MINI SAS(LA),INT,85CM,30AWG
Riser Card	RSC-G-A66-X	1	1U LHS Active GPU Riser Card with 2 PCI-Ex16 for X10 MBs
Riser Card	RSC-R1UG-E16-X9	1	RSC-R1UG-E16-X9
Riser Card	RSC-R1UG-E16AR+II	1	RSC-R1UG-E16AR+II
Riser Card	RSC-R1UG-E16R+II	1	RSC-R1UG-E16R+II
Heatsink / Retention	SNK-P0067PS	1	1U Passive CPU Heat Sink for X11 Purley Platform Equipped with a Narrow Retention Mechanism
Heatsink / Retention	SNK-P0067PSMB	1	1U Passive High Performance Front CPU Heat Sink w/ an 18-mm Wide Middle Air Channel for X11 Purley Platform Equipped w/ a Narrow Retention Mechanism/Bolster
Power Supply	PWS-1K66P-1R	2	1U 1600W Redundant Platinum Power Supply 73.5mm width,RoHS/REACH,PBF
FAN 1	FAN-0141L4	10	40x40x56 mm 20.5K RPM / 17.6K RPM Counter-rotating Fan
Rear Window	MCP-240-00144-0N	1	SC118GQ/GH T-Shape Rear Window for 2x PCI + 1x LP,HF,RoHS/REACH,PBF
Rear Window	MCP-240-11811-0N	1	SC118GH 1U3 GPU Chassis X11DPG + SIOM Rear Window
Rail Set	MCP-290-00054-0N	1	Rail set, quick/quick, optional for 1U 17.2"W SC815

Optional Parts List

	Part Number	Qty	Description
AOC-S3008L-L8i (SAS3)	CBL-SAST-0593	1	Internal Mini-SAS HD to Mini-SAS HD 60cm
AOC-S3108L-H8IR-16DD (SAS3)	CBL-SAST-0593	1	Internal Mini-SAS HD to Mini-SAS HD 60cm
AOC-S3108L-H8IR (SAS3)	CBL-SAST-0593	1	Internal Mini-SAS HD to Mini-SAS HD 60cm
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)