

SuperServer 1028GQ-TR



Available Color: Black



Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v3 family; QPI up to 9.6GT/s
2. Up to 1TB ECC, up to DDR4 2133MHz; 16x DIMM slots
3. 4x PCI-E 3.0 x16 slots (4x GPU/ Xeon Phi cards opt.), 2x PCI-E 3.0 x8 (in x16) LP slot
4. Intel i350 Dual port GbE LAN
5. 2x 2.5" Hot-swap drive bays, 2x 2.5" internal drive bays
6. 9x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
7. 2000W 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-1028GQ-TR ■ SuperServer 1028GQ-TR (Black)

Motherboard

Super X10DGO

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP) *
 ■ Dual Socket R3 (LGA 2011)

Cores / Cache ■ Up to 18 Cores / Up to 45MB Cache

System Bus ■ QPI up to 9.6 GT/s

Note * Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

GPU/Xeon Phi ■ SF/K2/K40M/K80/Xeon Phi

Chassis

Form Factor ■ 1U Rackmount

Model ■ CSE-118GQE-R2K03P

Dimensions and Weight

Height ■ 1.7" (43mm)

Width ■ 17.2" (437mm)

Depth ■ 35.2" (894mm)

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
 ■ 2x Network activity LEDs

System Memory

Memory Capacity	<ul style="list-style-type: none">16x 288-pin DDR4 DIMM slotsUp to 1TB ECC LRDIMM, 512GB ECC RDIMM
Memory Type	<ul style="list-style-type: none">2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	<ul style="list-style-type: none">RDIMM: 64GB, 16GB, 8GB, 4GBLRDIMM: 64GB, 32GB
Memory Voltage	<ul style="list-style-type: none">1.2 V
Error Detection	<ul style="list-style-type: none">Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none">Intel® C612 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.2.0IPMI 2.0 with virtual media over LAN and KVM-over-LAN supportASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none">Intel® i350 Dual Port Gigabit EthernetVirtual Machine Device Queues reduce I/O overheadSupports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Graphics	<ul style="list-style-type: none">ASPEED AST2400 BMC

Input / Output

SATA	<ul style="list-style-type: none">4x SATA3 (6Gbps) ports
LAN	<ul style="list-style-type: none">2x RJ45 Gigabit Ethernet ports1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none">2x USB 3.0 ports (2 via headers)
Video	<ul style="list-style-type: none">1x VGA Connector
Serial Port	<ul style="list-style-type: none">1x Serial header

System BIOS

BIOS Type	<ul style="list-style-type: none">128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none">Plug and Play (PnP)APM 1.2DMI 2.3PCI 2.3ACPI 1.0 / 2.0 / 3.0USB Keyboard supportSMBIOS 2.7.1UEFI

- System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express	<ul style="list-style-type: none">4x PCI-E 3.0 x16 slots (4x GPU/Xeon Phi cards optional)2x PCI-E 3.0 x8 (in x16) low-profile slot
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Drive Bays

Hot-swap	<ul style="list-style-type: none">2x 2.5" Hot-swap drive bays
Fixed	<ul style="list-style-type: none">2x 2.5" internal drive bays

System Cooling

Fans	<ul style="list-style-type: none">9x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control
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Power Supply

2000W 1U Redundant Power Supply	
AC Input	<ul style="list-style-type: none">1000W @ 100-120V, 12.5A Max., 50-60Hz2000W @ 200-240V, 10A Max., 50-60Hz
DC Output	<ul style="list-style-type: none">1000W: +12V/83.3A; +12Vsb/3.5A2000W: +12V/166.7A; +12Vsb/3.5A
Certification	  Platinum Level [Test Report]

PC Health Monitoring

CPU	<ul style="list-style-type: none">Monitors for CPU Cores, +1.5V, +3.3V, +5V, +12V, +5 Stdbv, +3.3 Stdbv, VBAT, Memory Voltages.5 Phase-switching voltage regulator
FAN	<ul style="list-style-type: none">Total of nine 4-pin PWM fans9x fans with tachometer monitoringStatus monitor for speed controlStatus monitor for on/off controlLow noise fan speed control
Temperature	<ul style="list-style-type: none">Monitoring for CPU and chassis environmentCPU thermal trip supportThermal Control for 9x Fan ConnectorsPSU I²C temperature sensing logicThermal Monitor 2 (TM2) supportPECI
LED	<ul style="list-style-type: none">Power Fail / Overheat LEDSuspend-state Indicator LEDUID LED
Other Features	<ul style="list-style-type: none">SDDC Support

Operating Environment / Compliance

RoHS	<ul style="list-style-type: none">RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none">Operating Temperature: 10°C to 35°C (50°F to 95°F)Non-operating Temperature: -40°C to 70°C (-40°F to 158°F)Operating Relative Humidity: 8% to 90% (non-condensing)Non-operating Relative Humidity: 5% to 95% (non-condensing)

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DGQ	1	Super X10DGQ Motherboard
	CSE-118GQE-R2K03P	1	CSE-118GQE-R2K03P Chassis
Add-on Card / Module	AOM-PIO-I2G	1	AOM-PIO-I2G
Backplane	BPN-SAS3-118GQE	1	12Gb/s Backplane supports 2x2.5" SAS/SATA HDD/SSD
Cable 1	CBL-0484L	4	55cm 30AWG SATA S-S cable
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1810	1	1028GQ-TR(T) Manual,HF,RoHS/REACH
Riser Card	RSC-GR-6	1	RSC-GR-6
Riser Card	RSC-G-6	3	LHS 1U GPU Riser with PCI-Ex16,RoHS/REACH
Riser Card	RSC-GR-A88	1	RSC-GR-A88
Heatsink / Retention	SNK-P0057P	2	1U High Performance Passive CPU Heat Sink for X9, X10 Systems Equipped w/ a Square ILM MB
Power Supply	PWS-2K03P-1R	2	1U 2000W Redundant Power Supply Platinum 73.5mm width.,RoHS/REACH
Fans	FAN-0163L4	9	40x40x56 mm 23.3K-20.3K RPM Counter-rotating Fan

Optional Parts List			
	Part Number	Qty	Description
Cable	CBL-PWEX-0782	1	NVIDIA Tesla K80/M60/M40 Cable
	CBL-PWEX-0783	2	
	CBL-PWEX-0814	1	
Cable	CBL-PWEX-0784	1	NVIDIA Tesla K40 Cable
	CBL-PWEX-0785	2	
	CBL-PWEX-0786	1	
Cable	CBL-PWEX-0790	1	NVIDIA GeForce TitanX, GTX980TI Cable
	CBL-PWEX-0791	2	
	CBL-PWEX-0792	1	
Cable	CBL-PWEX-0815	1	NVIDIA GeForce GTX980 Cable
	CBL-PWEX-0816	2	
	CBL-PWEX-0817	1	
Cable	CBL-PWEX-0787	1	Intel Xeon Phi Cable
	CBL-PWEX-0788	2	
	CBL-PWEX-0789	1	
Onsite Service Program	OS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	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)