SuperServer 1028GQ-TRT









X10DGQ

Available Color: Black





Key Features

- 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. Dual port 10GbE LAN
- 5. 2x 2.5" Hot-swap drive bays, 2x 2.5" internal drive bays
- 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.

LEDs

Specifications

Product SKUs

SYS-1028GQ-TRT

SuperServer 1028GQ-TRT (Black)

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Super X10DGQ

<u>oapor Arobo a</u>					
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					

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 buttonSystem Reset button		
	■ Power LED		

Hard drive activity LED

2x Network activity LEDs

ystem Mem	orv				
system Mem	■ 16x 288-pin DDR4 DIMM slots				
Memory	■ Up to 1TB ECC LRDIMM, 512GB ECC				
Capacity	RDIMM				
Memory	2133/1866/1600MHz ECC DDR4 SDRAN				
Туре	72-bit				
DIMM Sizes	 RDIMM: 64GB, 16GB, 8GB, 4GB LRDIMM: 64GB, 32GB 				
Memory	■ 1.2 V				
Voltage					
Error	Correcte single bit errors				
Detection	Corrects single-bit errors				
n-Board Dev	licas				
Chipset	■ Intel® C612 chipset				
SATA	SATA3 (6Gbps) with RAID 0, 1, 5, 10				
O, (1) (Support for Intelligent Platform				
	Management Interface v.2.0				
IPMI	■ IPMI 2.0 with virtual media over LAN and				
	KVM-over-LAN support				
	ASPEED AST2400 BMC				
	Dual Port 10GbEVirtual Machine Device Queues reduce I/C				
Network Controllers	overhead				
	Supports 10GBASE-T, 100BASE-TX, and				
	1000BASE-T, RJ45 output				
Graphics	ASPEED AST2400 BMC				
nput / Outpu	t				
SATA	■ 4x SATA3 (6Gbps) ports				
LAN	2x RJ45 Gigabit Ethernet ports				
LAN	1x RJ45 Dedicated IPMI LAN port				
USB	2x USB 3.0 ports (2 via headers)				
Video	 1x VGA Connector 				
Serial Port	■ 1x Serial header				
Victoria PLOS					
System BIOS					
BIOS Type	■ 128Mb SPI Flash EEPROM with AMI® BIOS				
	■ Plug and Play (PnP)				
	• APM 1.2				
	■ DMI 2.3				
BIOS	PCI 2.3				
Features	ACPI 1.0 / 2.0 / 3.0USB Keyboard support				
	SMBIOS 2.7.1				
	■ UEFI				

System Overheat LED / Fan fail LED / **UID LED**

PCI-Express ■ 4x PCI-E 3.0 x16 slots (4x GPU/Xeon Phi cards optional)

2x PCI-E 3.0 x8 (in x16) low-profile slot

Hot-swap

2x 2.5" Hot-swap drive bays

Fixed

■ 2x 2.5" internal drive bays

Fans

9x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed

Power Supply

2000W 1U Redundant Power Supply

AC Input

■ 1000W @ 100-120V, 12.5A Max., 50-

2000W @ 200-240V, 10A Max., 50-60Hz

DC Output

■ 1000W: +12V/83.3A; +12Vsb/3.5A

2000W: +12V/166.7A; +12Vsb/3.5A

Certification





Platinum Level [Test Report]

CPU

Monitors for CPU Cores, +1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages.

5 Phase-switching voltage regulator

FAN

Total of nine 4-pin PWM fans

9x fans with tachometer monitoring Status monitor for speed control

Status monitor for on/off control

Low noise fan speed control

Monitoring for CPU and chassis environment

CPU thermal trip support

Temperature

Thermal Control for 9x Fan Connectors

■ PSU I²C temperature sensing logic

■ Thermal Monitor 2 (TM2) support

PECI

LED

Power Fail / Overheat LED Suspend-state Indicator LED

UID LED

Other

Features

SDDC Support

Operating Environment / Compliance

RoHS

Spec.

RoHS Compliant

Environmental

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-I2XT-P	1	AOM-PIO-I2XT		
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-G-6	3	LHS 1U GPU Riser with PCI-Ex16,RoHS/REACH		
Riser Card	RSC-GR-6	1	RSC-GR-6		
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 CBL-PWEX-0783 CBL-PWEX-0814	1 2 1	NVIDIA Tesla K80/M60/M40 Cable			
Cable	CBL-PWEX-0784 CBL-PWEX-0785 CBL-PWEX-0786	1 2 1	NVIDIA Tesla K40 Cable			
Cable	CBL-PWEX-0790 CBL-PWEX-0791 CBL-PWEX-0792	1 2 1	NVIDIA GeForce TitanX, GTX980TI Cable			
Cable	CBL-PWEX-0815 CBL-PWEX-0816 CBL-PWEX-0817	1 2 1	NVIDIA GeForce GTX980 Cable			
Cable	CBL-PWEX-0787 CBL-PWEX-0788 CBL-PWEX-0789	1 2 1	Intel Xeon Phi Cable			
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)			