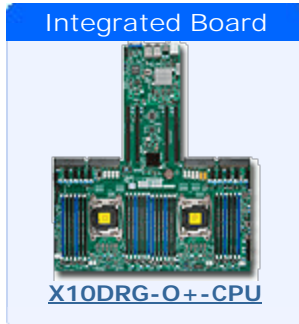


SuperServer 4028GR-TR



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 1.5TB ECC, up to DDR4 2133MHz; 24x DIMM slots
3. Expansion slots:
8 PCI-E 3.0 x16 (double-width) slots
2 PCI-E 3.0 x8 (in x16) slots
1 PCI-E 2.0 x4 (in x16) slot
4. Dual GbE LAN with Intel® i350
5. 24x 2.5" Hot-swap drive bays
6. 8x 92mm RPM Hot-Swap cooling fans
7. 1600W Redundant (2+2) 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-4028GR-TR ■ SuperServer 4028GR-TR (Black)

Motherboard

Super X10DRG-O+-CPU

Processor/Cache

CPU ■ Intel® Xeon® processor E5-2600 v3 family (up to 160W 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 Support

■ M40/K40M/K80/Xeon Phi

System Memory

Memory Capacity ■ 24x 288-pin DDR4 DIMM slots
■ Up to 1.5TB ECC LRDIMM, 768GB ECC RDIMM

Chassis

Form Factor ■ 4U Rackmountable
■ Rackmount Kit (MCP-290-00057-0N)
Model ■ CSE-418GTS-R3200B

Dimensions

Height ■ 7.0" (178mm)
Width ■ 17.2" (437mm)
Depth ■ 29" (737mm)
Weight ■ Net Weight: 80 lbs (36.2 kg)
■ Gross Weight: 135 lbs (61.2 kg)
Available Colors ■ Black

Drive Bays

Hot-swap ■ 24x 2.5" Hard drive bays

Expansion Slots

PCI-Express ■ 8x PCI-E 3.0 x16 (double-width) slots
■ 2x PCI-E 3.0 x8 (in x16) slots
■ 1x PCI-E 2.0 x4 (in x16) slot

Backplane

SAS/SATA HDD Backplane

System Cooling

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: 32GB, 16GB, 8GB, 4GB LRDIMM: 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.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support ASPEED AST2400 BMC
Network Controllers	<ul style="list-style-type: none"> Dual Gigabit Ethernet Ports with Intel® i350 Virtual Machine Device Queues reduce I/O overhead Supports 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 LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 4x USB 3.0 ports
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 1.2 DMI 2.3 PCI 2.3 ACPI 1.0 / 2.0 / 3.0 USB Keyboard support SMBIOS 2.7.1 UEFI

Fans	<ul style="list-style-type: none"> 8x 92mm RPM Hot-Swappable Cooling Fans
Shrouds	<ul style="list-style-type: none"> 1x Air Shroud (MCP-310-84806-0B) 1x Air Shroud (MCP-310-84807-0B)

Power Supply

1000W/1600W 1U Redundant Power Supply	
AC Input	<ul style="list-style-type: none"> 1000W @ 100-127V, 12.9A Max., 50-60Hz 1600W @ 200-240V, 9.5A Max., 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/82A; +12Vsb/2A 1600W: +12V/132A; +12Vsb/2A
Certification	 Platinum Level [Test Report]

PC Health Monitoring

CPU	<ul style="list-style-type: none"> Monitors for CPU Cores, +1.2V, 1.5V, +3.3V, +12V, (+3V, 1.0V, 1.2V, 1.8V, 1.1V) Standby, VBAT, Memory, Chipset Voltages. 4-Phase-switching voltage regulator with auto-sense from 0.6V-1.35V
FAN	<ul style="list-style-type: none"> 4-pin fan headers with tachometer status monitoring Low noise fan speed control mode
Temperature	<ul style="list-style-type: none"> Monitoring for CPU and system environment Thermal Control for 8x fan connectors
Other Features	<ul style="list-style-type: none"> Chassis intrusion detection

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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X10DRG-O+-CPU	1	Super X10DRG-O+-CPU Motherboard
	CSE-418GTS-R3200B	1	CSE-418GTS-R3200B Chassis
Air Shroud	MCP-310-41806-0B	1	Mylar CPU air shroud for SC418G (X9DRG-OF-CPU),PBF
Air Shroud	MCP-310-41807-0B	1	Mylar PCIe air shroud for SC418G (X9DRG-O-PCIE),PBF
Backplane	BPN-SAS3-216A	1	24x 2.5"HDD backplane, support SAS-3 12Gb/s,mini-SAS HD connector,new 29-pin SAS-3 receptacles,support power control stagger spin,pre-charge resistor,fuse protect and SGPIO encl mgmt,RoHS/REACH,PBF
Cable 1	CBL-0449L	2	HDD power extension for X8OBN, special 8 pin to 4 HDD. 45cm. 18AWG
Cable 2	CBL-PWEX-0582	8	8 pin to two 6+2 pin 12V GPU power cable, 30 cm 16/20 AWG,HF,RoHS/REACH,PBF
Cable 3	CBL-SAST-0591	2	cross-over mini SAS HD to 4 SATA w/SB, S. 75cm. 30AWG,HF,RoHS/REACH,PBF
Label	LBL-0108	1	CAUTION LABEL FOR REDUNDANT PWR SYSTEMS
Manual	MNL-1800-QRG	1	SYS-4028GR-TR(T) Quick Reference Guide,HF,RoHS/REACH
Riser Card	RSC-X9DRG-O	4	RSC-X9DRG-O
Heatsink / Retention	SNK-P0048PS	2	2U Passive CPU Heat Sink for X9, X10 Generation Systems Equipped w/ a Narrow ILM MB
Power Supply	PWS-1K66P-1R	4	1U 1600W Redundant Platinum Power Supply 73.5mm width,RoHS/REACH,PBF
Fan	FAN-0151L4	8	92x92x38 mm, 11.5K RPM, SC418G Middle Fan w/ Housing,RoHS/REACH,PBF

Optional Parts List

	Part Number	Qty	Description
Cable	CBL-PWEX-0665	-	PCIe 8 pin female(black) to CPU 8 pin female(white), K80/M60/M40 GPU power for 300W card, 30cm, 18AWG
Top Cover	MCP-230-41803-0N	-	Top cover for SC418G with GTX card support
Onsite Service Program	QS4HR3/2/1	-	3/2/1-year onsite 24x7x4 service
Onsite Service Program	QSNBD3/2/1	-	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)