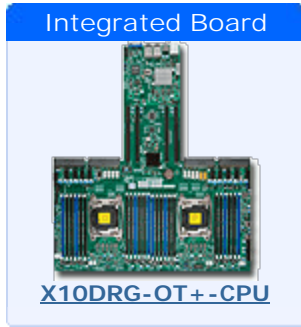


# SuperServer 4028GR-TRT



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 10GBase-T LAN with Intel® X540
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-TRT	■ SuperServer 4028GR-TRT (Black)
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### Motherboard

Super X10DRG-OT+-CPU

### Processor/Cache

CPU	■ Intel® Xeon® processor E5-2600 v3 family (up to 160W TDP) * ■ Dual Socket R3 (LGA 2011)
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Cores / Cache	■ Up to 18 Cores / Up to 45MB Cache
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System Bus	■ QPI up to 9.6 GT/s
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Note \* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

<a href="#">GPU/Xeon Phi Support</a>	■ M40/K40M/K80/Xeon Phi
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### System Memory

Memory	■ 24x 288-pin DDR4 DIMM slots
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### Chassis

Form Factor	■ 4U Rackmountable
Model	■ Rackmount Kit (MCP-290-00057-0N)
	■ 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
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### 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
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### Backplane

SAS/SATA HDD Backplane

### System Cooling

Capacity	Up to 1.5TB ECC LRDIMM, 768GB ECC RDIMM
Memory Type	<ul style="list-style-type: none"> <li>2133/1866/1600MHz ECC DDR4 SDRAM</li> <li>72-bit</li> </ul>
DIMM Sizes	<ul style="list-style-type: none"> <li>RDIMM: 32GB, 16GB, 8GB, 4GB</li> <li>LRDIMM: 64GB, 32GB</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>1.2 V</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>Corrects single-bit errors</li> </ul>

#### On-Board Devices

Chipset	<ul style="list-style-type: none"> <li>Intel® C612 chipset</li> </ul>
SATA	<ul style="list-style-type: none"> <li>SATA3 (6Gbps) with RAID 0, 1, 5, 10</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>Support for Intelligent Platform Management Interface v.2.0</li> <li>IPMI 2.0 with virtual media over LAN and KVM-over-LAN support</li> <li>ASPEED AST2400 BMC</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>Dual Port 10GbE</li> <li>Virtual Machine Device Queues reduce I/O overhead</li> <li>Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> </ul>
Graphics	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>

#### Input / Output


SATA	<ul style="list-style-type: none"> <li>4x SATA3 (6Gbps) ports</li> </ul>
LAN	<ul style="list-style-type: none"> <li>2x RJ45 10GBase-T LAN ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
USB	<ul style="list-style-type: none"> <li>4x USB 3.0 ports</li> </ul>
Video	<ul style="list-style-type: none"> <li>1x VGA Connector</li> </ul>
Serial Port	<ul style="list-style-type: none"> <li>1x Serial header</li> </ul>

#### System BIOS

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

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

#### Power Supply

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

#### PC Health Monitoring

CPU	<ul style="list-style-type: none"> <li>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.</li> <li>4-Phase-switching voltage regulator with auto-sense from 0.6V-1.35V</li> </ul>
FAN	<ul style="list-style-type: none"> <li>4-pin fan headers with tachometer status monitoring</li> <li>Low noise fan speed control mode</li> </ul>
Temperature	<ul style="list-style-type: none"> <li>Monitoring for CPU and system environment</li> <li>Thermal Control for 8x fan connectors</li> </ul>
Other Features	<ul style="list-style-type: none"> <li>Chassis intrusion detection</li> </ul>

#### Operating Environment / Compliance

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

## Parts List

### Parts List - (Items Included)

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

### Optional Parts List

	Part Number	Qty	Description
<b>Cable</b>	CBL-PWEX-0665	-	PCIe 8 pin female(black) to CPU 8 pin female(white), K80/M60/M40 GPU power for 300W card, 30cm, 18AWG
<b>Top Cover</b>	MCP-230-41803-0N	-	Top cover for SC418G with GTX card support
<b>Onsite Service Program</b>	<a href="#">OS4HR3/2/1</a>	-	3/2/1-year onsite 24x7x4 service
<b>Onsite Service Program</b>	<a href="#">OSNBD3/2/1</a>	-	3/2/1-year onsite NBD service
<b>Software</b>	SFT-OOB-LIC	1	OOB Management Package (per node license)
<b>Software</b>	SFT-DCMS-Single	1	DataCenter Management Package (per node license)