

# SuperServer 1028GQ-TRT

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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. Dual port 10GbE 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%+)**

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

## Specifications

Product SKUs	
<b>SYS-1028GQ-TRT</b>	▪ SuperServer 1028GQ-TRT (Black)
Motherboard	
<b>Super X10DGQ</b>	
Processor/Cache	
<b>CPU</b>	▪ Intel® Xeon® processor E5-2600 v3 family (up to 145W TDP) * ▪ Dual Socket R3 (LGA 2011)
<b>Cores / Cache</b>	▪ Up to 18 Cores / Up to 45MB Cache
<b>System Bus</b>	▪ QPI up to 9.6 GT/s
<b>Note</b>	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.
<b>GPU/Xeon Phi Support</b>	▪ K1/K2/K40M/K80/Xeon Phi
System Memory	
<b>Memory Capacity</b>	▪ 16x 288-pin DDR4 DIMM slots ▪ Up to 1TB ECC LRDIMM, 512GB ECC RDIMM
<b>Memory Type</b>	▪ 2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
<b>DIMM Sizes</b>	▪ RDIMM: 32GB, 16GB, 8GB, 4GB ▪ LRDIMM: 64GB, 32GB
<b>Memory Voltage</b>	▪ 1.2 V
<b>Error Detection</b>	▪ Corrects single-bit errors
On-Board Devices	
<b>Chipset</b>	▪ Intel® C612 chipset
<b>SATA</b>	▪ SATA3 (6Gbps) with RAID 0, 1, 5, 10

Chassis	
<b>Form Factor</b>	▪ 1U Rackmount
<b>Model</b>	▪ CSE-118GQE-R2K03P
Dimensions and Weight	
<b>Height</b>	▪ 1.7" (43mm)
<b>Width</b>	▪ 17.2" (437mm)
<b>Depth</b>	▪ 35.2" (894mm)
<b>Package</b>	▪ 24" (H) x 8" (W) x 46" (D)
<b>Weight</b>	▪ Net Weight: 45 lbs (15.9 kg) ▪ Gross Weight: 58 lbs (21.8 kg)
<b>Available Color</b>	▪ Black
Front Panel	
<b>Buttons</b>	▪ Power On/Off button ▪ System Reset button
<b>LEDs</b>	▪ Power LED ▪ Hard drive activity LED ▪ 2x Network activity LEDs ▪ System Overheat LED / Fan fail LED / UID LED
Expansion Slots	
<b>PCI-Express</b>	▪ 4x PCI-E 3.0 x16 slots (4x GPU/Xeon Phi cards optional) ▪ 2x PCI-E 3.0 x8 (in x16) low-profile slot
Drive Bays	
<b>Hot-swap</b>	▪ 2x 2.5" Hot-swap drive bays
<b>Fixed</b>	▪ 2x 2.5" internal drive bays
System Cooling	
	▪ 9x 4cm heavy duty counter-rotating

<b>IPMI</b>	<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>
<b>Network Controllers</b>	<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>
<b>Graphics</b>	<ul style="list-style-type: none"> <li>ASPEED AST2400 BMC</li> </ul>
<b>Input / Output</b>	
<b>SATA</b>	<ul style="list-style-type: none"> <li>4x SATA3 (6Gbps) ports</li> </ul>
<b>LAN</b>	<ul style="list-style-type: none"> <li>2x RJ45 Gigabit Ethernet ports</li> <li>1x RJ45 Dedicated IPMI LAN port</li> </ul>
<b>USB</b>	<ul style="list-style-type: none"> <li>2x USB 3.0 ports (2 via headers)</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>1x VGA Connector</li> </ul>
<b>Serial Port</b>	<ul style="list-style-type: none"> <li>1x Serial header</li> </ul>
<b>System BIOS</b>	
<b>BIOS Type</b>	<ul style="list-style-type: none"> <li>128Mb SPI Flash EEPROM with AMI® BIOS</li> </ul>
<b>BIOS Features</b>	<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>

<b>Fans</b>	fans with air shroud & optimal fan speed control
<b>Power Supply</b>	
2000W 1U Redundant Power Supply	
<b>AC Input</b>	<ul style="list-style-type: none"> <li>1000W @ 100-120V, 12.5A Max., 50-60Hz</li> <li>2000W @ 200-240V, 10A Max., 50-60Hz</li> </ul>
<b>DC Output</b>	<ul style="list-style-type: none"> <li>1000W: +12V/83.3A; +12Vsb/3.5A</li> <li>2000W: +12V/166.7A; +12Vsb/3.5A</li> </ul>
<b>Certification</b>	 <b>Platinum Level [ Test Report ]</b>
<b>PC Health Monitoring</b>	
<b>CPU</b>	<ul style="list-style-type: none"> <li>Monitors for CPU Cores, +1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages.</li> <li>5 Phase-switching voltage regulator</li> </ul>
<b>FAN</b>	<ul style="list-style-type: none"> <li>Total of nine 4-pin PWM fans</li> <li>9x fans with tachometer monitoring</li> <li>Status monitor for speed control</li> <li>Status monitor for on/off control</li> <li>Low noise fan speed control</li> </ul>
<b>Temperature</b>	<ul style="list-style-type: none"> <li>Monitoring for CPU and chassis environment</li> <li>CPU thermal trip support</li> <li>Thermal Control for 9x Fan Connectors</li> <li>PSU I<sup>2</sup>C temperature sensing logic</li> <li>Thermal Monitor 2 (TM2) support</li> <li>PECI</li> </ul>
<b>LED</b>	<ul style="list-style-type: none"> <li>Power Fail / Overheat LED</li> <li>Suspend-state Indicator LED</li> <li>UID LED</li> </ul>
<b>Other Features</b>	<ul style="list-style-type: none"> <li>SDDC Support</li> </ul>
<b>Operating Environment / Compliance</b>	
<b>RoHS</b>	<ul style="list-style-type: none"> <li>RoHS Compliant</li> </ul>
<b>Environmental Spec.</b>	<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

[See Parts List](#)

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