Supermicro SuperServer SYS-4028GR-TR2 4U DP 24xSFF 2xGbE RED PSU

Part number: SYS-4028GR-TR2

Chassis Form Factor	Rack 4U
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets	2
Supported CPU's	Intel Xeon E5-2600v4 Intel Xeon E5-2600v3
Max CPU TDP	160 W
Chipset	Intel C612 Wellsburg
Memory Type	DDR4 ECC 3DS LRDIMM DDR4 ECC LRDIMM DDR4 ECC RDIMM
Memory Speed	2400 MHz 2133 MHz 1866 MHz 1600 MHz
# of DIMM's	24
Max Memory Size	3072 GB
Integrated GPU	Aspeed AST2400
# of 2.5 hot-swap bays	24
Backplanes	SAS/SATA
# of PCIe x16 3.0	11
# of PCIe x8 3.0	1
# of USB Ports	4 x USB 3.0 (rear) 1 x USB 3.0 Type A 4 x USB 2.0 (header)
# of SATA Ports	10
Storage Controllers	6 x AHCI iSATA 6Gb/s 4 x sSATA 6Gb/s
Integrated RAID	0,1,5,10
# of Serial Ports	1 x Fast UART 16550 (header)
# of 1GbE Ports	2 x RJ45
Network Controllers	Intel i350 Dual Port Gigabit Ethernet
Integrated BMC	IPMI 2.0 KVM-over-LAN Virtual Media over LAN IPMI Dedicated RJ45 PHY
BMC chip	Aspeed AST2400
TPM	1 x TPM 1.2 20-pin Header
Power Supply	Redundant
PSU Wattage	2000 W
PSU Certification	80+ Titanium

Product SKUs

SYS-4028GR-TR2 • SuperServer 4028GR-TR2 (**Black**)

Motherboard

Super X10DRG-O+-CPU

Processor/Cache

CPU	• Intel® Xeon® processor E5-2600 **v4**† / v3 family (up to 160W TDP) * • Dual Socket R3 (LGA 2011)
Cores / Cache	• Up to **22 Cores**† / Up to **55MB**† Cache
System Bus	• QPI up to 9.6 GT/s
Note	† BIOS version 2.0 or above is required
Note	* Please contact Supermicro Technical Support for additional information about frequency optimized CPUs and specialized system optimization.

System Memory

Memory Capacity	• 24x 288-pin DDR4 DIMM slots • Up to 3TB† ECC 3DS LRDIMM, 1.5TB ECC RDIMM
Memory Type	• **2400**†/2133/1866/1600MHz ECC DDR4 SDRAM 72-bit
DIMM Sizes	• RDIMM: 64GB, 32GB, 16GB, 8GB, 4GB • LRDIMM: 64GB, 32GB • 3DS LRDIMM: 128GB
Memory Voltage	• 1.2 V
Error Detection	• Corrects single-bit errors

On-Board Devices

Chipset	• Intel® C612 chipset
SATA	• SATA3 (6Gbps) with RAID 0, 1, 5, 10
IPMI	• 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	• 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	• ASPEED AST2400 BMC

Input / Output

SATA	• 10 SATA3 (6Gbps) ports
LAN	• 2 RJ45 Gigabit Ethernet LAN ports • 1 RJ45 Dedicated IPMI LAN port
USB	• 4 USB 3.0 ports
Video	• 1 VGA Connector
Serial Port	• 1 Serial header

System BIOS

BIOS Type	• 128Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	• 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

Chassis

Form Factor	• 4U Rackmountable • Rackmount Kit (MCP-290-00057-0N)
Model	• **CSE-418GTS-R4000B**

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	• 24 Hot-swap 2.5" hard drive bays

Expansion Slots

PCI-Express	• 11 PCI-E 3.0 x16 (FH, FL) slots • 1 PCI-E 3.0 x8 (in x16) slots • Single Root Complex

Backplane

SAS/SATA HDD Backplane

System Cooling

Fans	• 8 Hot-swap 92mm cooling fans
Shrouds	• 1 Air Shroud (MCP-310-84808-0B)

Power Supply

2000W Redundant Power Supplies with PMBus

Total Output Power	• 1000W/1800W/1980W/2000W
Dimension (W x H x L)	• 73.5 x 40 x 265 mm
Input	• 100-120Vac / 12-9.5A / 50-60Hz • 200-220Vac / 10-9.5A / 50-60Hz • 220-230Vac / 10-9.8A / 50-60Hz • 230-240Vac / 10-9.8A / 50-60Hz • 200-240Vac / 11.8-9.8A / 50-60Hz (UL/cUL only)
+12V	• Max: 83.3A / Min: 0A (100-120Vac) • Max: 150A / Min: 0A (200-220Vac) • Max: 165A / Min: 0A (220-230Vac) • Max: 166.7A / Min: 0A (230-240Vac) • Max: 166.7A / Min: 0A (200-240Vac) (UL/cUL only)
12Vsb	• Max: 2.1A / Min: 0A
Output Type	• 25 Pairs Gold Finger Connector
Certification	UL/cUL/CB/BSMI/CE/CCC **Titanium Level** **[Test Report]**

PC Health Monitoring

CPU	• 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	• 4-pin fan headers with tachometer status monitoring • Low noise fan speed control mode
Temperature	• Monitoring for CPU and system environment • Thermal Control for 8 fan connectors
Other Features	• Chassis intrusion detection

Operating Environment / Compliance

RoHS	• RoHS Compliant
Environmental Spec.	• 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)

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