

SuperServer 4028GR-TRT



Integrated Board



[./products/motherboard/Xeon/C600/X10DRG-OT_-CPU.cfm](https://products/motherboard/Xeon/C600/X10DRG-OT_-CPU.cfm)

[X10DRG-OT+-CPU](https://products/motherboard/Xeon/C600/X10DRG-OT_-CPU.cfm) ([./products/motherboard/Xeon/C600/X10DRG-OT_-CPU.cfm](https://products/motherboard/Xeon/C600/X10DRG-OT_-CPU.cfm))

[X10DRG-OT_-CPU.cfm](https://products/motherboard/Xeon/C600/X9DRG-O-PCIE-X10DRG-OT_-CPU.cfm)



X9DRG-O-PCIE

Views: | [Angled View](#) (/a_images/products/views/4028GR-TRT_angle.jpg) | [Top View](#) (/a_images/products/views/4028GR-TRT_top.jpg) | [Front View](#) (/a_images/products/views/4028GR-TRT_front.jpg) | [Rear View](#) (/a_images/products/views/4028GR-TRT_rear.jpg) |

[Drivers & Utilities](#) | [BIOS](#) | [IPMI](#) | [Tested Memory](#) | [Manuals](#)

[OS Certification Matrix](/en/support/resources/certification/SYS-4028GR-TRT) (</en/support/resources/certification/SYS-4028GR-TRT>)

[Compatible GPU List](/en/support/resources/gpu) (</en/support/resources/gpu>)

[Quick-References Guide](#) | [Drive Options](#)

Key Features

1. Dual socket R3 (LGA 2011) supports Intel® Xeon® processor E5-2600 v4[†]/ v3 family; QPI up to 9.6GT/s
2. Up to **3TB[†]** ECC 3DS LRDIMM , up to DDR4- **2400[†]**MHz ; 24 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. 24 Hot-swap 2.5" drive bays
6. 8 Hot-swap 92mm cooling fans
7. 1600W Redundant (2+2) Power Supplies; **Platinum Level (94%+)**

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

Specifications

Product SKUs

SYS-4028GR-TRT

SuperServer 4028GR-TRT (**Black**)

Motherboard

(/products/motherboard/Xeon/C600/X10DRG-OT_-CPU.cfm)**Super X10DRG-OT+-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.

GPU/Xeon Phi Support (</support/resources/GPU>)

NVIDIA® Tesla® K10/K40/K80/M40/M60/Xeon Phi

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 Port 10GbE

Virtual Machine Device Queues reduce I/O overhead

Supports 10GBASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output

Graphics

ASPEED AST2400 BMC

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: 65.5 lbs (29.7 kg)

Gross Weight: 100 lbs (45.3 kg)

Available Colors

Black

Drive Bays

Hot-swap

24 Hot-swap 2.5" hard drive bays

Expansion Slots

PCI-Express

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

Backplane

SAS/SATA HDD Backplane

System Cooling

Fans

8 Hot-swap 92mm cooling fans

Shrouds

1 Air Shroud (MCP-310-41808-0B)

Power Supply

1600W 1U Redundant Power Supplies with PMBus

Total Output Power

1000W: 100 – 127Vac

1600W: 200 – 240Vac

Dimension

(W x H x L)

73.5 x 40 x 265 mm

Input

100-127Vac / 12.9A Max / 50-60Hz

200-240Vac / 9.5A Max / 50-60Hz

+12V

Max: 82A / Min: 0.1A (100-127Vac)

Max: 132A / Min: 0.1A (200-240Vac)

12V SB

Max: 2A / Min: 0.2A

Input / Output

SATA

10 SATA3 (6Gbps) ports

LAN

2 RJ45 10GBase-T 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

Output Type

25 Pairs Gold Finger Connector

Certification



(<http://>

www.plugloadsolutions.com/80PlusPowerSuppliesDetail



[id=69&type=2](http://www.plugloadsolutions.com/80PlusPowerSuppliesDetail?id=69&type=2)) **Platinum Level**

[[Test Report \(https://](https://)

cleareresult5.sharepoint.com/:b:/s/PLS/

[EciniscplbROpXErJZtQJZQBFeS9VdkieSPiYXfcRQgzwQ](https://cleareresult5.sharepoint.com/:b:/s/PLS/EciniscplbROpXErJZtQJZQBFeS9VdkieSPiYXfcRQgzwQ)

PC Health Monitoring

CPU

Monitors for CPU Cores, +1.2V, 1.5V, +3.3V, +12V, (+3V, 1.0V, 1.2V, 1.8V, 1.:

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)

Parts List

Certain products may not be available in your region

[Global SKU \(/en/products/SMC_global_skus\)](https://www.supermicro.com/en/products/SMC_global_skus)
