Supermicro SuperServer SYS-1028GQ-TR 1U DP 2xSFF 2xGbE RED PSU

Part number: SYS-1028GQ-TR

Chassis Form Factor	Rack 1U
CPU Socket	LGA 2011 (Socket R3)
# of CPU sockets	2
Supported CPU's	Intel Xeon E5-2600v4 Intel Xeon E5-2600v3
Max CPU TDP	145 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	16
Max Memory Size	2048 GB
Integrated GPU	Aspeed AST2400
# of 2.5 fixed bays	2
# of 2.5 hot-swap bays	2
# of PCIe x16 3.0	4
# of PCIe x8 3.0	2
# of USB Ports	2 x USB 3.0 (header)
# of SATA Ports	6
Storage Controllers	6 x AHCI iSATA 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+ Platinum
Chassis Dimensions	437 x 43 x 894mm

Poniżej prezentujemy szczegółowy opis techniczny oferowanego produktu:

Product SKUs

SYS-1028GQ-TR	• SuperServer 1028GQ-TR (**Black**)

Motherboard

Super X10DGQ

Processor/Cache

CPU	• Intel® Xeon® processor E5-2600 **v4**†/ v3 family (up to 145W 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	• K1/K2/K10/K40/K80/M40/M60/Xeon Phi

System Memory

Memory Capacity	• 16x 288-pin DDR4 DIMM slots • Up to 2TB† ECC 3DS LRDIMM, 1TB 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	• Intel® i350 Dual Port Gigabit Ethernet • 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	• 4x SATA3 (6Gbps) ports
LAN	• 2x RJ45 Gigabit Ethernet ports • 1x RJ45 Dedicated IPMI LAN port
USB	• 2x USB 3.0 ports (2 via headers)
Video	• 1x VGA Connector
Serial Port	• 1x 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	• 1U Rackmount
Model	• **CSE-118GQE-R2K03P**

Dimensions and Weight

Height	• 1.7" (43mm)
Width	• 17.2" (437mm)
Depth	• 35.2" (894mm) • 39.3" (997mm) with rails
Package	• 24" (H) x 8" (W) x 46" (D)
Weight	• Net Weight: 45 lbs (15.9 kg) • Gross Weight: 58 lbs (21.8 kg)
Available Color	• Black

Front Panel

Buttons	• Power On/Off button • System Reset button
LEDs	• Power LED • Hard drive activity LED • 2x Network activity LEDs • System Overheat LED / Fan fail LED / UID LED

Expansion Slots

PCI-Express	• 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

Hot-swap	• 2x 2.5" Hot-swap drive bays
Fixed	• 2x 2.5" internal drive bays

System Cooling

Fans	• 9x 4cm heavy duty counter-rotating fans with air shroud & optimal fan speed control

Power Supply

2000W 1U 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 / 11.8-9.8A / 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: 0.1A (100-120Vac) • Max: 150A / Min: 0.1A (200-220Vac) • Max: 165A / Min: 0.1A (220-230Vac) • Max: 166.7A / Min: 0.1A (230-240Vac) • Max: 166.7A / Min: 0.1A (200-240Vac) (UL/cUL only)
12V SB	• Max: 3.5A / Min: 0A
Output Type	• 25 Pairs Gold Finger Connector
Certification	**Platinum Level** [Test Report]

PC Health Monitoring

CPU	• Monitors for CPU Cores, +1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, VBAT, Memory Voltages. • 5 Phase-switching voltage regulator
FAN	• Total of nine 4-pin PWM fans • 9x fans with tachometer monitoring • Status monitor for speed control • Status monitor for on/off control • Low noise fan speed control
Temperature	• Monitoring for CPU and chassis environment • CPU thermal trip support • Thermal Control for 9x Fan Connectors • PSU I²C temperature sensing logic • Thermal Monitor 2 (TM2) support • PECI
LED	• Power Fail / Overheat LED • Suspend-state Indicator LED • UID LED
Other Features	• SDDC Support

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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