SuperServer 6027TR-D70RF

Integrated Board

Super X9DRT-HF

Available Colors: Black

▸ Drivers & Utilities ▸ BIOS ▸ IPMI ▸ Tested Memory ▸ Tested HDD
▸ Manuals ▸ OS Certification Matrix ▸ Quick-References

Key Features

Two hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:

1. Dual socket R (LGA 2011) supports Intel® Xeon® processor E5-2600 and **E5-2600 v2** family†
2. Up to 512GB ECC DDR3, up to 1866MHz; 8x DIMM sockets
3. 3x PCI-E 3.0 (x8) slots (1x low-profile and 2x full-height full-length)
4. Intel® i350 Dual port Gigabit Ethernet
5. 6x Hot-swap 3.5" SATA3/SAS HDD Bays
6. 1280W Redundant Digital PS **Platinum Level (95%)**
7. Support 1 Full-height Full-length PCI-E x16 GPU card per node w/ GPU Kit

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

Specifications

Product SKUs

SYS-6027TR-D70RF	SuperServer 6027TR-D70RF (**Black**)

Motherboard

Super X9DRT-HF

Processor/Cache

CPU	Dual Socket R (LGA 2011) Intel® Xeon® processor E5-2600 and **E5-2600 v2** family† (up to 135W TDP *) * Please contact your Supermicro sales representative for additional details
Note	† BIOS version 3.0 or above is required
Cache	Up to 30MB
System Bus	QPI up to 8 GT/s

System Memory

Memory Capacity	8x 240-pin DDR3 DIMM sockets Up to 512GB DDR3 ECC LRDIMM Up to 256GB DDR3 ECC Registered memory (RDIMM)
Memory Type	1866/1600/1333/1066/800MHz ECC DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	32GB, 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	1.5 V, 1.35 V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	Intel® C602 Chipset
SAS	LSI 2008 SAS (6Gbps) RAID 0, 1, 10 support (Optional: AOC-SAS2-RAID5-KEY) RAID 5 support Note: In order to support the LSI RAID Controllers, both CPU socket must be populated
SATA	SATA 2.0 & 3.0 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 Nuvoton WPCM450 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 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	Matrox G200eW

Input / Output (per Node)

Serial ATA	2x SATA 3.0 ports (6Gbps) 5x SATA 2.0 ports (3Gbps)
SAS	8x SAS ports (6Gbps)
LAN	2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	3x USB 2.0 ports total (2x rear + 1x Type A)
VGA	1x VGA port
Serial Port / Header	1x Fast UART 16550 port / 1 Header

Chassis

Form Factor	2U Rackmount
Model	**CSE-827HD-R1K28B**

Dimensions

Width	17.25" (438mm)
Height	3.47" (88mm)
Depth	28.5" (724mm)
Gross Weight	85 lbs (38.6kg)
Available Colors	Black

Front Panel

Buttons	Power On/Off button System Reset button UID button
LEDs	Power status LED HDD activity LED 2x Network activity LEDs Universal Information (UID) LED

Expansion Slots (per Node)

PCI-Express	3x PCI-E 3.0 (x8) slots (1x Low-profile and 2x Full-height Full-length)

Drive Bays (per Node)

Hot-swap	6x Hot-swap 3.5" SATA3/SAS2 HDD trays

System Cooling

Fans	4x 8cm heavy duty PWM fans with optimal fan speed control

Power Supply

1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2

AC Input	1000W Output @ 100-140V, 8-12A, 50-60Hz 1280W Output @ 180-240V, 6-8A, 50-60Hz
DC Output	1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
Certification	Platinum Certified [Test Report]

System BIOS

BIOS Type	128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	Plug and Play (PnP) APM 1.2 PCI 2.2 ACPI 1.0 / 2.0 USB Keyboard support SMBIOS 2.3 UEFI

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

See Parts List

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