SuperServer 6027TR-D71RF

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/SAS2 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-D71RF	▪ SuperServer 6027TR-D71RF (**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 2108 SAS (6Gbps) w/ Hardware RAID support ▪ RAID 0, 1, 5, 6, 10, 50, 60 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 SAS2 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	80 PLUS PLATINUM, 80 Plus Digital — **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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