

SuperServer 6027AX-72RF-HFT3 (Complete System Only)



Available Colors:

Black



Integrated Board



Super [X9DAX-7F-HFT](#)

Key Features

- **Cooling Optimized Solution**
- **Supports Hyper-Speed**
- **Qualified low latency NICs [here](#)**
- **Low latency/jitter optimization [guide here](#)**

1. **Dual Intel® Xeon® processor E5-2687W v2 (Ivy Bridge)**
2. Up to 512GB DDR3 1600MHz ECC Registered DIMM; 16x DIMM slots
Default: 8x 8GB 1866MHz DDR3 RDIMM
3. 2x PCI-E 3.0 x16, 3x PCI-E 3.0 x8, 1x UIO PCI-E 3.0 x8 (for SMC UIO) or 1x PCI-E 2.0 x4 (in x8)
4. I/O ports: 2 GbE LAN, 4 USB 3.0, 2 HD/AC97, 1 IPMI dedicated LAN ports, and 2 IEEE 1394 Header
5. 8x 3.5" Hot-swap HDD Bays
Support SAS2 HW RAID via LSI 2208; 2x 3.5" Hot-swap SATA3 HDD Bays
6. 1280W Redundant Power Supplies
Platinum Level (95%)

Due to the complexity of integration, this product is sold as completely assembled systems only (including but not limited to CPUs, memory, and HDDs). Please contact your Supermicro sales rep for special requirements.

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

Specifications

Product SKUs

- SYS-6027AX-72RF-HFT3**
- SuperServer 6027AX-72RF-HFT3 (Black)

Motherboard

Super X9DAX-7F-HFT

Processor/Cache

- CPU**
- **Dual Intel® Xeon® processor E5-2687W v2 (Ivy Bridge) (up to 150W TDP)**
 - Dual Socket R (LGA 2011)

Note † BIOS version 3.0 or above is required

Cache ▪ Up to 20MB

System Bus ▪ QPI up to 8 GT/s

System Memory

- 8x 8GB DDR3 ECC 1866MHz RDIMM (Default)

Chassis

Form Factor ▪ 2U Rackmount

Model ▪ **CSE-829BTQ-R1K28LPB**

Dimensions

Width ▪ 17.2" (437mm)

Height ▪ 3.5" (89mm)

Depth ▪ 27.7" (704mm)

Gross Weight ▪ 52 lbs (23.6kg)

Available Colors ▪ Black

Front Panel



Buttons

- Power On/Off button
- System Reset button

LEDs

- Power status LED
- Hard drive activity LED
- 2x Network activity LEDs
- System Overheat LED

Memory Capacity	<ul style="list-style-type: none"> 16x 240-pin DDR3 DIMM slots Supports up to 512 GB DDR3 ECC Registered memory (RDIMM)
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)
On-Board Devices	
Chipset	<ul style="list-style-type: none"> Intel® C602 Chipset
SATA	<ul style="list-style-type: none"> SATA 2.0 3Gbps with RAID 0, 1, 5, 10 SATA 3.0 6Gbps with RAID 0, 1
SAS	<ul style="list-style-type: none"> SAS2 from LSI 2208 RAID 0, 1, 5, 6, 10, 50, 60 support
IPMI	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Matrox G200eW
Audio	<ul style="list-style-type: none"> RealTek ALC889 7.1 High Definition Audio with S/PDIF header
Input / Output	
Serial ATA	<ul style="list-style-type: none"> 2x SATA 3.0 ports (6Gbps) 8x SATA 2.0 ports (3Gbps)
SAS	<ul style="list-style-type: none"> 8x SAS2 ports (6Gbps)
LAN	<ul style="list-style-type: none"> 2x RJ45 Gigabit Ethernet LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	<ul style="list-style-type: none"> 4x USB 3.0 (2 front, 2 rear) and 4x USB 2.0 ports
Audio	<ul style="list-style-type: none"> Line-in / Line-out / Microphone Ports
Video	<ul style="list-style-type: none"> 1x VGA port
Serial Port / Header	<ul style="list-style-type: none"> 2x Fast UART 16550 ports

	Power fail LED
Expansion Slots	
PCI-Express	<ul style="list-style-type: none"> 2 PCI-E 3.0 x16 slots 3 PCI-E 3.0 x8 slots 1 UIO PCI-E 3.0 x8 (for SMC UIO) or 1 PCI-E 2.0 x4 (in x8) slot
Drive Bays	
Hot-swap	<ul style="list-style-type: none"> 10x 3.5" Hot-swap SAS/SATA HDD trays
Display	
LCD Screen	<ul style="list-style-type: none"> Front panel LCD display
Backplane	
	1x SAS2 / SATA backplane
System Cooling	
Fans	<ul style="list-style-type: none"> 4x PWM fans w/ optimal fan speed control
Heatsink	<ul style="list-style-type: none"> 2x Passive CPU Heat Sink
Power Supply	
	1280W Redundant High-efficiency Digital Power Supplies w/ PMBus 1.2
AC Input	<ul style="list-style-type: none"> 1000W Output @ 100-140V, 8-12A, 50-60Hz 1280W Output @ 180-240V, 6-8A, 50-60Hz
DC Output	<ul style="list-style-type: none"> 1000W: +12V/83A; +5Vsb/4A 1280W: +12V/106.7A, +5Vsb/4A
Certification	  Platinum Certified [Test Report]
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> RoHS Compliant
Environmental Spec.	<ul style="list-style-type: none"> 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

Parts List - (Items Included)

	Part Number	Qty	Description
Motherboard / Chassis	MBD-X9DAX-7F-HFT	1	Super X9DAX-7F-HFT Motherboard
	CSE-829BTQ-R1K28LPB	1	2U Chassis
Cooling Fan	FAN-0118L4	4	80 x 80 x 38 mm, 9.5K RPM, 4-pin PWM Fan, Hot Swap
CPU	P4X-DPE52687WV2-SR19V	2	IVY B. R 8C E5-2687WV2 3.4G 25M 8GT 150W 2011 M1,HF,RoHS/REACH,PBF
Heat Sink	SNK-P2048P	2	2U Passive CPU Heat Sink for X9 Hyper-speed Series Servers
Memory	MEM-DR380L-HL02-ER18 (Hynix)	8	8GB DDR3-1866 2R*8 ECC REG DIMM,HF,RoHS/REACH,PBF
	MEM-DR380L-SL03-ER18 (Samsung)		or 8GB DDR3-1866 2Rx8 LP ECC REG DIMM,HF,RoHS/REACH,PBF
Power Supply	PWS-1K28P-SQ	2	1U 1280W, redundant single output power supply