

SuperServer 6026TT-GIBXRF

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2 Integrated Boards



Super X8DTT-HIBXF+

Key Features

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

1. Intel® Xeon® processor 5600/5500 series, with QPI up to 6.4 GT/s
2. Up to 192GB** DDR3 1333/ 1066/ 800MHz ECC Registered DIMM / 48GB Unbuffered DIMM
3. 1 (x16) PCI-E 2.0 for Double-Width GPU
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Dual Intel® 82574L Gigabit Ethernet Controller
6. 6x Hot-sw ap SATA Drive Bays
7. 1400W Gold-level High-efficiency Redundant Pow er Supply
8. Mellanox ConnectX DDR Infiniband 20Gbps Controller w / QSFP connector

Available Colors:

Black



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

Specifications

Product SKUs	
SYS-6026TT-GIBXRF	SuperServer 6026TT-GIBXRF (Black)
Motherboard	
2x Super X8DTT-HIBXF+	
Processor/Cache	
CPU	- Dual 1366-pin LGA Sockets - Supports up to two Intel® 64-bit Xeon® processor(s) of the same type below :
	- Intel® Xeon® Processor X5600/E5600/L5600 Series (Westmere) 40W - 95W - Intel® Xeon® Processor X5500/E5500/L5500 Series (Nehalem-EP) 38W - 95W
QPI	up to 6.4 GT/s
System Memory	
Memory Capacity	12x 240-pin DIMM slots - Supports up to 192 GB** 1333 / 1066 / 800MHz DDR3 ECC Registered memory - Supports up to 48 GB 1333 / 1066 / 800MHz DDR3 ECC / Non ECC Unbuffered memory - Memory Mirroring supported
	1333 / 1066 / 800MHz ECC Registered / ECC or Non ECC Unbuffered DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
Memory Type	
DIMM Sizes	1GB, 2GB, 4GB , 8GB** , 16GB**
Memory Voltage	1.5 V / 1.35 V
Error Detection	- Corrects single-bit errors - Detects double-bit errors (using ECC memory) - Supports Intel® x4 and x8 Single Device Data Correction (SDDC)
On-Board Devices (per Node)	
Infiniband	Mellanox ConnectX DDR Infiniband 20Gbps Controller
Chipset	- Intel® 5520 (Tylersburg) chipset - ICH10R
SATA	- Intel ICH10R SATA 3.0Gbps Controller - RAID 0, 1, 5, 10 support
IPMI	- Support for Intelligent Platform Management Interface v.2.0 - IPMI 2.0 w ith virtual media over LAN and KVM-over-LAN support - Nuvoton WPCM450 BMC
Network Controllers	- Dual Intel® 82574L Gigabit Ethernet Controller - Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	Matrox G200eW
Super I/O	Winbond W83527HG chip
Clock Generator	932S421 chip
Input / Output (per Node)	
Serial ATA	- Six Serial ATA ports 6 SATA hard drives supported
LAN	2x RJ45 LAN ports 1x RJ45 Dedicated IPMI LAN port
USB	2 rear + 1 header (2 Ports) 4 total USB ports, 2.0 Compliant / 1.1 Compliant
VGA	1x VGA Port
Serial Port	1 Fast UART 16550 serial port
Infiniband	1 External QSFP Infiniband Connector
System BIOS (per Node)	
BIOS Type	32Mb SPI Flash EEPROM w ith AMI® BIOS
BIOS Features	- Plug and Play (PnP) - PCI 2.2 - ACPI up to 3.0 - USB Keyboard support

Chassis	
Form Factor	2U Rackmount
Model	CSE-827HD-R1400B
Dimensions	
Height	3.5" (89mm)
Width	17.2" (437mm)
Depth	28.5" (724mm)
Gross Weight	85 lbs (38.6kg)
Available Colors	Black
Front Panel (per Node)	
Buttons	- Power On/Off button - UID button
LEDs	- Power LED (on power button) - Network activity LED - System Overheat/fan fail/power fail/ LED - UID LED (on UID button)
Expansion Slots (per Node)	
PCI-Express	1 (x16) PCI-E 2.0 for Double-Width GPU
Drive Bays (per Node)	
Hot-sw ap	6x 3.5" SATA Hot-sw ap drive bays
Hard drive Backplane	
2U Hard drive Backplane	
System Cooling	
Fans	4x Cooling Fans
Power Supply	
1400W high-efficiency (1+1) redundant power supply with PMBus	
AC Input	1100W Output @ 100-140V, 13.5-9.5A, 50-60Hz 1400W Output @ 180-240V, 9.5-7.0A, 50-60Hz
DC Output	1100W: +12V/92A; +5Vsb/4A 1400W: +12V/116A; +5Vsb/4A
With Distributor	+5V: 30 Amp +3.3V: 24 Amp -12V: 0.6 Amp
Certification	Gold Certified [Test Report]
PC Health Monitoring	
CPU	- Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdbby, +3.3 Stdbby, VBAT, Memory Voltages. - CPU Core 6-Phase-switching voltage regulator
FAN	- Total of four 4-pin PWM fans 4x 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 4x Fan Connectors - PSU P°C 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°to 35°C (50°to 95°F) - Non-operating Temperature: -40°to 70° C (-40°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-X8DTT-HIBXF+	2	Super X8DTT-HIBXF+ Motherboard
	CSE-827HD-R1400B	1	2U Black Chassis
Backplane	BPB-827ADP-X8-H+	2	BPB-SASADP;SAS827-X8DTT-H+;no cable req
Backplane	BPB-SAS-827HD	1	Sup 6x3.5 SATA hdd; hot sw ap
Backplane	BPB-ADP-PWR	2	BPB-ADP-PWR
Cable 1	CBL-0333L	4	6+2 pin to 8 pin GPU power extension from MB, 30cm. 18/20AWG
CD	CDR-X8	1	For X8 series
Riser Card	RSC-R2UT-E16R-O-P	2	RSC-R2UT-E16R-O-P
Heatsink / Retention	SNK-P0037P	4	1U PASSIVE CPU HS FOR INTEL LGA1366 (HTP)
Power Supply	PWS-1K41P-1R	2	1400W 1U GOLD LEVEL PWS W/ PMBUS & WX3
Fan 1	FAN-0129L4	4	80x80x38 mm 11K RPM SC217, SC827 Chassis Middle Fan
Mounting Rails	MCP-290-00053-0N	1	Rail set, quick/quick, default for 2,3U 17.2"W

Optional Parts List			
	Part Number	Qty	Description
NVIDIA GPU card support	AOC-GPU-NV-C2050 + MCP-310-82712-0B (each GPU card)	-	NVIDIA C2050 TESLA Fermi GPU/active HS (w / 3GB cache mem.) Additional mylar air shroud for SC827HD with C2050 GPU
	AOC-GPU-NV-C2070 + MCP-310-82712-0B (each GPU card)	-	NVIDIA C2070 TESLA Fermi GPU/active HS (w / 6GB cache mem.) Additional mylar air shroud for SC827HD with C2070 GPU

** Please check 'Tested Memory List' for compatibility