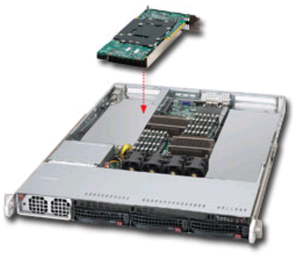
SuperServer 6016T-GIBQF



Integrated Boards

X8DTT-IBQF

Available Colors: Black

▸ Drivers & Utilities ▸ BIOS ▸ Tested Memory / HDD ▸ Manuals

Key Features

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 (FHFL)
4. Integrated IPMI 2.0 with KVM and Dedicated LAN
5. Intel® 82576 Dual-Port Gigabit Ethernet Controller
6. 3x Hot-swap SATA Drive Bays
7. 1400W Gold-level High-efficiency Power Supply
8. Mellanox ConnectX-2 QDR Infiniband 40Gbps Controller w/ QSFP connector

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

Specifications

Product SKUs

SYS-6016T-GIBQF	SuperServer 6016T-GIBQF (**Black**)

Motherboards

Super X8DTT-IBQF

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 sockets 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
Memory Type	1333 / 1066 / 800MHz ECC Registered / ECC or Non ECC Unbuffered DDR3 SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	1GB, 2GB, 4GB , 8GB** , 16GB**
Memory Voltage	1.5 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

Infiniband	Mellanox ConnectX-2 QDR Infiniband 40Gbps Controller
Chipset	Intel® 5520 (Tylersburg) chipset ICH10R + IOH-36D
SATA	Intel ICH10R SATA 3.0Gbps Controller RAID 0, 1, 5, 10 support (Windows) RAID 0, 1, 10 support (Linux)
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® 82576 Dual-Port Gigabit Ethernet Controller Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output **Intel® I/OAT 3** support for fast, scaleable, and reliable networking **VMDq** support for better performance of virtualization 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	Matrox G200eW 8 MB DDR2
Super I/O	Winbond W83527HG chip
Clock Generator	932S421 chip

Input / Output

Serial ATA	Six Serial ATA ports Six 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

BIOS Type	32Mb SPI Flash EEPROM with AMI® BIOS
BIOS Features	Plug and Play (PnP) PCI 2.2 ACPI up to 3.0 USB Keyboard support

Chassis

Form Factor	1U Rackmount
Model	CSE-818G-1400B

Dimensions

Height	1.7" (43mm)
Width	17.2" (437mm)
Depth	28.2" (716mm)
Gross Weight	38 lbs (17.2 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	1 (x16) PCI-E (FHFL)

Drive Bays

Hot-swap	3x 3.5" Hot-swap drive bays

Backplane

SAS/SATA HDD Backplane
(SAS support requires optional SAS controller)

System Cooling

Fans	4x 4cm heavy-duty counter-rotating PWM fans with optimal fan speed control

Power Supply

1400W high-efficiency power supply with PMBus

AC Input	1200W: 100 - 140V, 50 - 60Hz, 10.5 - 14.7 Amp 1400W: 180 - 240V, 50 - 60Hz, 7.2 - 9.5 Amp
DC Output +5V standby	4 Amp
DC Output +12V	100 Amp @ 100-140V 117 Amp @ 180-240V
Certification	80 PLUS GOLD — **80 PLUS Gold Certified** [Test Report]

PC Health Monitoring

CPU	Monitors for CPU Cores,+1.5V, +3.3V, +5V, +12V, +5 Stdby, +3.3 Stdby, 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 I^2C 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

See Parts List

** Please check 'Tested Memory List' for compatibility

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