

SuperServer 6046T-TUF

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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-6046T-TUF	▪ SuperServer 6046T-TUF (Black)
Motherboard	
Super X8DTE-F	
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 5600 Series (Westmere) ▪ Intel® Xeon®Processor 5500 Series (Nehalem-EP)
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
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 / 1.35V
Error Detection	▪ Corrects single-bit errors ▪ Detects double-bit errors (using ECC memory) ▪ Supports Intel® x4 and x8 Single Device Data Correction (SDCC)
On-Board Devices	
Chipset	▪ Intel® 5520 (Tylersburg) chipset ▪ ICH10R + IOH-36D
SATA	▪ Intel ICH10R SATA 3.0Gbps Controller ▪ RAID 0, 1, 5, 10 support (Window s) ▪ 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	▪ 2x Intel® 82574L Gigabit Ethernet Controllers ▪ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output ▪ 1x Realtek RTL8201N PHY (dedicated IPMI)
Graphics	▪ Matrox G200eW 16 MB DDR2
Super I/O	▪ Winbond 83827HF chip
Expansion Slots	
PCI-Express	▪ 4 (x8) PCIe 2.0 slots ▪ 1 (x4) PCIe 2.0 slot ▪ 1 (x4) PCIe slot
Input / Output	
Serial ATA	▪ Six Serial ATA ports ▪ Six SATA hard drives supported
Floppy	▪ 1 Floppy controller; 1.44 MB
LAN	▪ 2x RJ45 LAN ports ▪ 1x RJ45 Dedicated IPMI LAN port
USB	▪ 4x USB rear ports ▪ 2x USB on-board (TypeA) ▪ 4x USB internal headers ▪ Total 8 USB 2.0 Compliant
VGA	▪ 1x VGA Port
Keyboard / Mouse	▪ PS/2 keyboard and mouse ports
Serial Port / Header	▪ 1 Fast UART 16550 serial port ▪ 1 Fast UART 16550 serial header (Option)
System BIOS	
BIOS Type	▪ 32Mb SPI Flash EEPROM with AMI® BIOS ▪ Legacy BIOS by default
BIOS Features	▪ Plug and Play (PhP) ▪ PCI 2.2 ▪ ACPI up to 3.0 ▪ USB Keyboard support

Chassis	
Form Factor	▪ 4U Rackmount
Model	▪ CSE-842TQ-865B
Dimensions	
Height	▪ 7.0" (178mm)
Width	▪ 17.2" (437mm)
Depth	▪ 20.5" (521mm)
Gross Weight	▪ 35 lbs (15.9 kg)
Available Colors	▪ 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 ▪ Power Fail LED
Ports	▪ 2x USB ports, 1x COM port
Drive Bays	
Hot-swap	▪ 5x 3.5" (8x 2.5" optional kits; SATA Hot-swap Drive Bays) ▪ Enterprise SATA HDD only recommended
Peripheral Bay (s)	▪ 3x 5.25" Peripheral Drive Bays ▪ 1x Slim DVD-ROM (optional) Drive Bay
SAS / SATA Backplane	
SAS / SATA Hard Drive Backplane	
System Cooling	
Fans (Tool-less)	▪ 1x Front Intake 9cm PWM cooling fan ▪ 2x Rear 8cm PWM cooling fans
Power Supply	
865W AC power supply (cooling-redundant) w/ PFC	
AC Voltage	▪ 100 - 240V, 50-60Hz, 12-6 Amp
+5V standby	▪ 6.5 Amp
+12V	▪ 70 Amp
+5V	▪ 30 Amp
+3.3V	▪ 30 Amp
-12V	▪ 1 Amp
Certification	 Certified
PC Health Monitoring	
CPU	▪ Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V Standby, +5V Standby, VBAT, HT, Memory, Chipset Voltages. ▪ 6-Phase-switching voltage regulator
FAN	▪ Total of eight fan headers supporting up to 8 fans ▪ Eight 4-pin fan headers ▪ 8x fans with tachometer status monitoring ▪ Support 3-pin fans (w/o speed control) ▪ Low noise fan speed control
Temperature	▪ Monitoring for CPU and chassis environment ▪ Thermal Control for 8x fan connectors ▪ PECI
Other Features	▪ Chassis intrusion detection ▪ Chassis intrusion header
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-condensing Relative Humidity: 5 to 95% (non-condensing)
Awards / Reviews	
Electronic Design	"...The name (Supermicro) has been synonymous with top notch quality and cutting edge performance. Not surprisingly it earned Electronic Design's Best of 2010 Award for its 4U SuperServer 6046T-TUF..."

Parts List

Parts List - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X8DTE-F	1	Super X8DTE-F Motherboard
	CSE-842TQ-865B	1	4U Chassis
Backplane	BPN-SAS-842TQ	1	4U SC842 5x3.5inch Hotsw ap SAS/SATA w ith SES2
Cable 1	CBL-0044L	5	SATA CABLE 57.5CM FLAT S-S PBF. 26AWG flat
Cable 2	CBL-0157L	2	8 pin to 8 pin ribbon SGPIO cable w ith tube , 40cm, PBF
CD	CDR-X8	1	For X8 series
Power Supply	PWS-865-PQ	1	865W PS2 POWER SUPPLY W/2 8CM FANS
Cable 3	CBL-0087	1	Front Control Cable Round 16 pin to 16 pin Ribbon 20
Cable 4	CBL-0084L	1	Front control cable 16 pin split, 6
Cable 5	CBL-0286L	2	4 to 4 pin rear fan pw r ext w / square header, 30cm (PWM). 24AWG
Cable 6	CBL-0336L	1	4 pin to 4 pin MIDDLE FAN POWER EXTENSION (PWM) 57CM,24AWG
Fan 1	FAN-0082L4	2	80x80x38 mm 4-pin PWM Fan Assembly for SC743, SC745
Fan 2	FAN-0097L4	1	92x92x38 mm, 5K RPM, 4-pin PWM w / Housing for SC842

Optional Parts List			
	Part Number	Qty	Description
Front Bezel	MCP-210-84201-0B	-	Black 4U Plastic Front Bezel Assembly for SC842
Heatsink	SNK-P0040AP4	-	4U+ ACTIVE CPU HS FOR SC743 W/ X8 DP WS MB
Mounting Rails	MCP-290-00057-0N	-	Quick release rail (extendable 26.5" to 36.4")
Mounting Rails	MCP-290-00058-0N	-	Quick release rail (extendable 19" to 26.6")
Parts	MCP-420-84202-0N	-	Add-On Card Holder (7 Slots) for SC842