

Products ☐ Systems ☐ 4U ☐ [8045C-3RB]



Available Colors: Black ☐

- ☐ Drivers & Utilities
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Product SKUs	
SYS-8045C-3RB	<ul style="list-style-type: none">SuperServer 8045C-3RB (Black)
Motherboard	
Super X7QC3	
Processor/Cache	
CPU	<ul style="list-style-type: none">Quad 604-pin FC-PGA6 SocketsSupports up to four Intel® 64-bit Xeon® MP processor(s) of the same type below :6-Core Intel® Xeon® Processor 7400 sequenceQuad-Core Intel® Xeon® Processor 7300 sequenceDual-Core Intel® Xeon® Processor 7200 sequence
System Bus	<ul style="list-style-type: none">1066 MHz systembus
Operating System Software	<ul style="list-style-type: none">Supports 64-bit Operating SystemsSupports 32-bit Operating Systems
System Memory	
Memory Capacity	<ul style="list-style-type: none">Twenty-four 240-pin DIMM socketsSupports up to 192 GB 667 / 533MHz DDR2 ECC FB-DIMM memoryQuad branch memory busMemory must be populated in pairsMemory Mirroring supported
Memory Type	<ul style="list-style-type: none">667 / 533MHz FB-DIMM (Fully Buffered DIMM) DDR2 ECC SDRAM 72-bit, 240-pin gold-plated DIMMs
DIMM Sizes	<ul style="list-style-type: none">1GB, 2GB, 4GB, 8GB
Memory Voltage	<ul style="list-style-type: none">1.8V only1.5V (AMB)
Error Detection	<ul style="list-style-type: none">Corrects single-bit errorsDetects double-bit errors (using ECC memory)Supports Intel® x4 and x8 Single Device Data Correction (SDDC)
On-Board Devices	
Chipset	<ul style="list-style-type: none">Intel® 7300 (Clarksboro) chipsetESB2
SAS	<ul style="list-style-type: none">LSI 1068E Serial-Attached SCSI (SAS) ControllerSAS Dual-Channel (internal)Each SAS channel supports up to 4 SAS / SATA drives for a total of up to 8 SAS or SATA hard drivesHbst RAID 0, 1, & 10 support (Optional RAID 5 w/ ACC-iButton68)SGPIO
SATA	<ul style="list-style-type: none">Intel ESB2 SATAII ControllerRAID 0, 1, 5, 10 support (Windows)RAID 0, 1, 10 support (Linux)
IPMI	<ul style="list-style-type: none">Support for Intelligent Platform Management Interface v.2.0200-pin IPMI slot (SIMSO)(Optional: ACC-SIMSO(+))For Dedicated LAN, cable CBL-0177L must be used (cable sold separately)
Network Controllers	<ul style="list-style-type: none">Intel® 82575EB Dual-Port Gigabit Ethernet ControllerSupports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 outputIntel® I/OAT support for fast, scaleable, and reliable networking
Graphics	<ul style="list-style-type: none">ATI ES1000 controller with 32 MB of video memory
Super I/O	<ul style="list-style-type: none">Winbond 83627HF chip
Clock Generator	<ul style="list-style-type: none">CK410B chip
Input / Output	
SAS	<ul style="list-style-type: none">8 SAS / SATA ports
Serial ATA	<ul style="list-style-type: none">Six Serial ATA ports
IDE	<ul style="list-style-type: none">Single IDE channel supports up to two UDMA IDE devices (IDE-M, IDE-S) including CF cardSupports UDMA Mode 5, PIO Mode 4, and ATA/100Compact Flash (40-pin connector, IDE 1, single channel) slot
LAN	<ul style="list-style-type: none">2x RJ45 LAN ports
USB	<ul style="list-style-type: none">2x USB rear ports3x USB internal header5 total USB ports, 2.0 Compliant / 1.1

Key Features

- Quad Intel® 64-bit Xeon® MP Support 1066 MHz FSB
- Up to 192GB DDR2 ECC FB-DIMM
- 1 (x8) PCI-e (using x16 slot), 1 (x8) PCI-e (using x8 slot) & 1 (x4) PCI-e (using x8 slot) 1x 64-bit 133MHz PCI-X
- Intel® 7300 (Clarksboro) Chipset
- LSI 1068e Dual Channel 8-Port SAS Controller
- 5 x 3.5" Hot-swap SAS/SATA Drive Bays
- Intel® 87575EB Dual-port Gigabit Ethernet Controller
- 1200W High-efficiency Redundant Hot-swap Power Supply

Chassis	
Form Factor	<ul style="list-style-type: none">Tower / 4U RackmountableOptional Rackmount Kit (MCP-290-00001-00)
Model	<ul style="list-style-type: none">SC748TQ-R1200
Dimensions	
Height	<ul style="list-style-type: none">17.8" (452mm)
Width	<ul style="list-style-type: none">7.0" (178mm)
Depth	<ul style="list-style-type: none">29.4" (746mm)
Gross Weight	<ul style="list-style-type: none">87 lbs (39.5kg)
Available Colors	<ul style="list-style-type: none">Black, Beige
Front Panel	
Buttons	<ul style="list-style-type: none">Power On/Off buttonSystem Reset button
LEDs	<ul style="list-style-type: none">Power LEDHard drive activity LED2x Network activity LEDsSystem Overheat / Fan Fail LEDPower Fail LED
Ports	<ul style="list-style-type: none">2x USB Ports
Drive Bays	
Hot-swap	<ul style="list-style-type: none">5x 3.5" SAS / SATA Hard DrivesAdditional three 3.5" SAS/SATA Hard Drives available with optional M35 Mobile Rack
Peripheral Bay(s)	<ul style="list-style-type: none">3x 5.25" Peripheral Drive Bays
Expansion Slots	
PCI-Express	<ul style="list-style-type: none">1 (x8) PCI-e (using x16) slot1 (x8) PCI-e (using x8) slot1 (x4) PCI-e (using x8) slot
PCI-X	<ul style="list-style-type: none">1x 64-bit 133MHz PCI-X (3.3V) slots
SAS Backplane	
SAS/SATA Hard Drive Backplane	
System Cooling	
Fans	<ul style="list-style-type: none">3x 5000 RPM Hot-Swappable Cooling Fans3x 5000 RPM Hot-Swappable Rear Exhaust Fan
Shrouds	<ul style="list-style-type: none">1x Air Shroud
Power Supply	
1200W (1 + 1) Redundant high-efficiency power supply w/ PFC	
1200W	
+5V standby	<ul style="list-style-type: none">4 Amp
+12V	<ul style="list-style-type: none">100 Amp
900W	
+5V standby	<ul style="list-style-type: none">4 Amp
+12V	<ul style="list-style-type: none">74 Amp
With Power Distributor	<ul style="list-style-type: none">+5V: 20 Amp+3.3V: 20 Amp-12V: 0.6 Amp
PC Health Monitoring	
CPU	<ul style="list-style-type: none">Monitors for CPU Cores, +1.8V, +3.3V, +5V, ±12V, +3.3V Stdby, +5 Stdby, VBAT, HT, Memory, ChipsetCPU Core 6-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	<ul style="list-style-type: none">Total of nine 4-pin fans9x fans with tachometer monitoringStatus monitor for speed controlStatus monitor for on/off controlSupport for 3-pins (w/ speed control)Low noise fan speed controlPulse Width Modulated (PWM) fan connectors
Temperature	<ul style="list-style-type: none">Monitoring for CPU and chassis environmentCPU thermal trip supportThermal Control for 9x Fan ConnectorsPSU P°C temperature sensing logicThermal Monitor 2 (TM2) supportPECI
LED	<ul style="list-style-type: none">CPU / System Overheat LEDSuspend-state Indicator LED
Other	<ul style="list-style-type: none">Chassis intrusion detectionChassis intrusion header

	Compliant
VGA	<ul style="list-style-type: none"> 1x VGA Port
Keyboard / Mouse	<ul style="list-style-type: none"> PS/2 keyboard and mouse ports
Serial Port / Header	<ul style="list-style-type: none"> 1 Fast UART 16550 serial port 1 Header
System BIOS	
BIOS Type	<ul style="list-style-type: none"> 8Mb Flash EEPROM with AMI® BIOS
BIOS Features	<ul style="list-style-type: none"> Plug and Play (PnP) APM 1.2 DM 2.3 PCI 2.2 ACPI 1.0/2.0 USB Keyboard support HardWare BIOS Virus protection SM BIOS 2.3

Features	<ul style="list-style-type: none"> • Chipkill Support
Operating Environment / Compliance	
Environmental Spec.	<ul style="list-style-type: none"> • 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 - (Items Included)			
	Part Number	Qty	Description
Motherboard / Chassis	MBD-X7QC3	1	Super X7QC3 Motherboard
	CSE-748S-R1200B	1	4U SC748S-R1200B Black Chassis
Air Shroud	CSE-PT0125	1	Air Shroud
Backplane	CSE-SAS-MB5TQ	1	SAS/SATA Hard Drive Backplane
Cable(s)	CBL-0051L	1	60cm Round Floppy Cable
	CBL-0084	1	16-pin Front Control Split Connector
	CBL-0087	1	20" 16-pin to 16-pin Round Ribbon Cable
	CBL-0097L-02	2	50cm IPASS to 4 SATA Cable
	CBL-0209L	1	210mm 4-pin to 3-pin Fan Power Cable
Drive Bay(s)	CSE-PT36-B0	3	5.25" Black Dummy Tray with Rail
	CSE-MB5TQ	1	5-Drive Disk Array Mobile Rack
Driver Disk	CDR-INTC-Q	1	Driver CD
Fan(s)	FAN-0081	3	5000 RPM Rear Cooling Fan
	FAN-0090	3	5000 RPM Housing Fan
Heatsink Components	SNK-F0029P	4	Custom Passive Heatsink for Intel Quad
I/O Shield	CSE-PT55L	1	Color I/O Shield with Gasket
Power Supply	PWS-1K22-1R	2	SP1K22-1R 1200W Redundant Power Module
	MCP-250-00003-00	1	SC748 Dummy Power Supply Cover
	PDB-PT748-8824	1	Power Distributor Board
Retention Module / Bracket	BKT-0021L	2	CPU Bracket for X7QC3 Motherboard

Optional Parts List			
	Part Number	Qty	Description
IPMI Add-on Cards	ACC-SIMSO	-	IPM 2.0 w/ Virtual Media Over LAN & Dedicated LAN
	ACC-SIMSO+	-	IPM 2.0 w/ Virtual Media Over LAN, Dedicated LAN & KVM Over LAN
	CBL-0177L	-	Cable CBL-0177L is required to support dedicated LAN
Mounting Rails	MCP-290-00001-00	-	4U Chassis Rail Kit (Includes Side Handles)
	MCP-290-00059-0B	-	4U Chassis Rail Kit (Includes Side Handles) for Rev. K Chassis