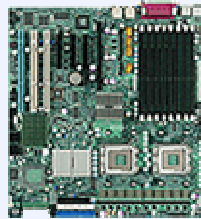




Integrated Board



Super X7DBE

Key Features

1. Dual Intel® 64-bit Xeon® Quad-Core or Dual-Core, with 667 / 1066 / 1333 MHz FSB
2. Up to 32GB DDR2 667 & 533 SDRAM Fully Buffered DIMM (FB-DIMM)
3. 2 (x8) & 1 (x4) PCI-Express, 2x 64-bit 133MHz PCI-X, 1x 64-bit 100MHz PCI-X Low-profile Expansion Slots
4. Intel® (ESB2/Gilgal) 82563EB Dual-port Gigabit Ethernet Controller
5. 6 x 3.5" Hot-swap SATA Drive Bays
6. 550W Power Supply

- ▶ [Drivers & Utilities](#)
- ▶ [BIOS](#)
- ▶ [Recommended Memory](#)
- ▶ [Manuals](#)

Specifications

Product SKUs

- SYS-6025B-T • SuperServer 6025B-T (Beige)
- SYS-6025B-TB • SuperServer 6025B-T (Black)

Motherboard

Chassis

- Form Factor • 2U Rackmount
- Model • **SC823TQ-550LP**

Dimensions

## Super X7DBE

### Processor/Cache

- Dual 771-pin LGA Sockets
- Supports up to two **Intel® 64-bit Xeon®** processor(s) of the same type below:

### CPU

- **Quad-Core Intel® Xeon® Processor 5300 sequence (Clovertown processor)** up to 2.66 GHz
- **Dual-Core Intel® Xeon® Processor 5100/5000 sequence (Woodcrest/Dempsey processor)** up to 3.73 GHz
- **NOTE: Motherboard PCB revision 2.0 or above is required to support Xeon® 5100 (Woodcrest) processors**

### System Bus

- 1333 / 1066 / 667 MHz system bus

### Operating System Software

- Supports 64-bit Operating Systems
- Supports 32-bit Operating Systems

### System Memory

### Memory Capacity

- Eight 240-pin DIMM sockets
- Supports up to 32 GB 667 / 533MHz DDR2 ECC FB-DIMM memory
- Dual branch memory bus
- Memory must be populated in pairs

### Memory Type

- 667 / 533MHz FB-DIMM (Fully Buffered DIMM) ECC DDR2 SDRAM 72-bit, 240-pin gold-plated DIMMs

**Height** 3.5" (89mm)

**Width** 16.8" (426mm)

**Depth** 25.6" (650mm)

**Gross Weight** 51 lbs (23.1kg)

**Available Colors** Beige, Black

### Front Panel

#### Buttons

- Power On/Off button
- System Reset button
- Power LED

#### LEDs

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

#### Ports

2x USB Ports (optional)

### Expansion Slots

**PCI-Express**

- 2 (x8) PCI-e slots
- 1 (x4) PCI-e (using x8) slot

**PCI-X**

- 2x 64-bit 133MHz PCI-X (3.3V) slots
- 1x 64-bit 100MHz PCI-X (3.3V) slot

### Drive Bays

**Hot-swap Peripheral Bay(s)** 6x 3.5" SATA Hot-swap drive trays  
1x 5.25" full-height peripheral bay

### Peripheral Drive(s)

**DVD-ROM**

- Panasonic 8x DVD, 24x CD DVD-ROM Drive

**Floppy**

- TEAC 3.5" 1.44MB Floppy Drive (beige / black)

### SATA Backplane

1x 2U SATA Backplane w/ Enclosure Management

### System Cooling

DIMM Sizes	<ul style="list-style-type: none"> <li>• 512 MB, 1GB, 2GB, 4GB</li> </ul>	Fans	<ul style="list-style-type: none"> <li>• 4x 80mm 6300 RPM fans</li> </ul>
Memory Voltage	<ul style="list-style-type: none"> <li>• 1.8 V only</li> <li>• 1.5V(AMB)</li> </ul>	Shroud	<ul style="list-style-type: none"> <li>• 1x Air Shroud</li> </ul>
Error Detection	<ul style="list-style-type: none"> <li>• Corrects single-bit errors</li> <li>• Detects double-bit errors (using ECC memory)</li> <li>• Supports Intel® x4 and x8 Single Device Data Correction (SDDC)</li> </ul>	Power Supply	<p>550W power supply with PFC [ 24-pin, (8-pin, 4-pin)=12V ]</p>
On-Board Devices		AC Voltage	<ul style="list-style-type: none"> <li>• 100 - 240V, 47-63Hz, 9/3.5 Amp</li> </ul>
Chipset	<ul style="list-style-type: none"> <li>• Intel® 5000P (Blackford) chipset</li> <li>• MCH + PXH + ESB2</li> </ul>	DC Output	<ul style="list-style-type: none"> <li>• +5V &amp; +3.3V : Max = 50A</li> </ul>
SATA	<ul style="list-style-type: none"> <li>• Intel ESB2 SATA 3.0Gbps Controller</li> <li>• RAID 0, 1, 5, 10 support</li> </ul>	+5V	<ul style="list-style-type: none"> <li>• 35.0 Amp</li> </ul>
IPMI	<ul style="list-style-type: none"> <li>• Support for Intelligent Platform Management Interface v.2.0</li> <li>• 200-pin IPMI slot (SIMLP)</li> <li>• <b><u>(Optional: AOC-SIMLP)</u></b></li> </ul>	+5V standby	<ul style="list-style-type: none"> <li>• 2.0 Amp</li> </ul>
Network Controllers	<ul style="list-style-type: none"> <li>• Intel® (ESB2/Gilgal) 82563EB Dual-Port Gigabit Ethernet Controller</li> <li>• Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output</li> <li>• Intel® I/OAT support for fast, scaleable, and</li> </ul>	-5V	<ul style="list-style-type: none"> <li>• 0.8 Amp</li> </ul>
		+12V	<ul style="list-style-type: none"> <li>• 42.0 Amp</li> </ul>
		-12V	<ul style="list-style-type: none"> <li>• 1.0 Amp</li> </ul>
		+3.3V	<ul style="list-style-type: none"> <li>• 30.0 Amp</li> </ul>
		PC Health Monitoring	
		CPU	<ul style="list-style-type: none"> <li>• Monitors for CPU Cores, +3.3V, +5V, ±12V, +1.2V</li> <li>• 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V</li> </ul>
		FAN	<ul style="list-style-type: none"> <li>• Total of four 3-pin and four pin fan headers supporting up to 8 fans</li> <li>• 8x fans with tachometer status monitoring</li> <li>• Status monitor for speed control</li> <li>• Status monitor for on/off control</li> <li>• Low noise fan speed control</li> <li>• Pulse Width Modulated (PWM) fan connectors</li> </ul>
		Temperature	<ul style="list-style-type: none"> <li>• Monitoring for CPU and chassis environment</li> <li>• CPU thermal trip support</li> </ul>

		reliable networking		<ul style="list-style-type: none"> <li>• Thermal Control for 8x fan connectors</li> <li>• PSU I<sup>2</sup>C temperature sensing logic</li> <li>• Thermal Monitor 2 (TM2) support</li> </ul>
Graphics		<ul style="list-style-type: none"> <li>• ATI ES1000 controller with 16 MB of video memory</li> </ul>		
Super I/O		<ul style="list-style-type: none"> <li>• Winbond 83627HG chip</li> </ul>	LED	<ul style="list-style-type: none"> <li>• CPU / System Overheat LED</li> </ul>
Input / Output			Other Features	<ul style="list-style-type: none"> <li>• Chassis intrusion detection</li> <li>• Chassis intrusion header</li> <li>• SDDC Support</li> </ul>
Serial ATA	<ul style="list-style-type: none"> <li>• Six Serial ATA ports</li> <li>• Six SATA hard drives supported</li> </ul>			<b>Operating Environment / Compliance</b> <ul style="list-style-type: none"> <li>• Operating Temperature: 10° to 35° C (50° to 95° F)</li> <li>• Non-operating Temperature: -40° to 70° C (-40° to 158° F)</li> </ul>
IDE	<ul style="list-style-type: none"> <li>• Single EIDE channel supports up to two UDMA IDE devices (IDE-M, IDE-S) including CF(Compact Flash) Card</li> <li>• Compact Flash (40-pin connector, IDE 1, single channel) slot</li> <li>• Supports UDMA Mode 5, PIO Mode 4, and ATA/100</li> </ul>		Environmental Spec.	<ul style="list-style-type: none"> <li>• Operating Relative Humidity: 8% to 90% (non-condensing)</li> <li>• Non-operating Relative Humidity: 5 to 95% (non-condensing)</li> </ul>
Floppy	<ul style="list-style-type: none"> <li>• 1 Floppy controller; 1.44 MB, 2.88 MB</li> </ul>			
LAN	<ul style="list-style-type: none"> <li>• 2x RJ45 LAN port</li> </ul>			
USB	<ul style="list-style-type: none"> <li>• 2x USB rear ports</li> <li>• 3x USB internal headers</li> <li>• Total 5 USB 2.0 Compliant / 1.1 Compliant</li> </ul>			
VGA	<ul style="list-style-type: none"> <li>• 1x VGA Port</li> </ul>			
Keyboard / Mouse	<ul style="list-style-type: none"> <li>• PS/2 keyboard and mouse ports</li> </ul>			
Serial Port / Header	<ul style="list-style-type: none"> <li>• 1 Fast UART 16550 serial port</li> <li>• 1 Fast UART 16550 serial header</li> </ul>			
Parallel Port	<ul style="list-style-type: none"> <li>• 1 ECP / EEP parallel port</li> </ul>			
System BIOS				

- BIOS Type
- 8Mb Flash EEPROM with Phoenix® BIOS
- BIOS Features
- Plug and Play (PnP)
  - SMBIOS 2.3
  - DMI 2.1
  - PCI 2.2
  - ACPI 1.0
  - USB Keyboard support
  - Hardware BIOS Virus protection

### Parts List

#### Parts List - (Items Included)

	Part Number	Qty	Description
<b>Motherboard / Chassis</b>	MBD-X7DBE-O-P	1	Super X7DBE Motherboard
	CSE-823TQ-550LP(B)	1	2U SC823TQ-550LP Chassis (B = Black)
<b>Backplane</b>	BPN-SAS-823TQ	1	SAS / SATA Backplane [ <a href="#">Manual</a> ]
<b>Cable(s)</b>	CBL-0044L	3	2Ft, SATA Cable
	CBL-0157L	2	8-pin to 8-pin Ribbon Cable For SGPIO
	CBL-0169L	1	55cm 2U DVD Cable
	CBL-0178L	3	48cm Flat Straight-straight SATA Cable
<b>CD</b>	CDR-X7	1	Driver CD
<b>Drive Tray(s)</b>	CSE-PT17L-OEM(B)	6	Drive Tray (B = Black)
	CSE-PT41L-OEM(B)	1	5.25" Drive Bay Dummy Tray (B = Black)
<b>Fan(s)</b>	FAN-0070	4	2U, 8cm 6300 RPM Fan
<b>Heatsink / Retention</b>	SNK-P0025P	2	Please refer to our <a href="#">Thermal Components Matrix</a>
<b>Mounting Rails</b>	CSE-PT25	1	2U Chassis Mounting Rails
<b>Peripheral Drives</b>	DVM-PNSC-824(B)	1	Panasonic 8x DVD, 24x CD, DVD-ROM Drive
	FPD-PNSC-02(01)	1	Panasonic 1.44MB Floppy Drive (01 = Black)
<b>Power Supply</b>	PWS-0047	1	SP-552-2C 550W 2U power supply
<b>Air Shroud</b>	CSE-PT43	1	2U Air Shroud

#### Optional Parts List

	Part Number	Qty	Description
<b>IPMI</b>	AOC-SIMLP	-	IPMI 2.0 w/ Virtual Media Over LAN
	AOC-SIMLP+	-	IPMI 2.0 w/ Virtual Media + KVM Over LAN