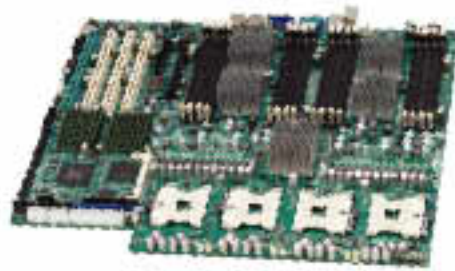# SUPER® X6QT8 Serverboard Specifications

1. **Dual-core Intel Xeon MP 7000 Sequence supported**
2. Intel E8501 Chipset
3. Up to 64GB of ECC Reg. DDRII 400 SDRAM
4. Dual Intel PCI-Express Gigabit Ethernet ports
5. Adaptec dual channel Ultra320 SCSI controller;
   AOC-LPZCR1 (Supermicro zero-channel RAID) supported
6. ATI ES1000 16MB PCI graphics controller
7. 3 64-bit PCI-X 133MHz, 1 PCI-X 100MHz
   1 PCI Express x8 (in x16 slot), 1 PCI Express x4 (in x8 slot)
8. IPMI 2.0 for server management

Processor/Cache

Processor	Dual-core Intel® Xeon MP 7000 Sequence
Cache	2M/L2 cache
Sysem Bus	800/667MHz

Chipset

	Intel® E8501 chipset . MCH + Intel ICH5R+ PXH + Intel 82571

System Memory

Memory Capacity	Sixteen DIMM sockets for up to 64GB of ECC DDRII 400 memory (Memory must be populated in pairs)
Memory Type	DDRII 400 registered SDRAM 72-bit ECC, 240-pin gold-plated DIMMs
DIMM Sizes	4 GB, 2 GB, 1 GB, 512MB, 256MB, 128 MB
Memory Voltage	1.8 V only
Error Detection	Corrects single-bit errors, detects doublebit errors (using ECC memory), and supports Intel® Single Device Data Correction (SDDC)

Integrated On-Board

SCSI	Adaptec 7902 dual channel Ultra320 SCSI; AOC-LPZCR1 (Supermicro Zero-channel RAID) support
LAN	Dual LAN with Intel® 82571 PCI-Express Gigabit Ethernet controller
SATA	Intel ICH5R controller for 2 SATA (3 Gbps) ports
Graphics	ATI® ES1000 16MB PCI graphics controller
Super I/O controller	National® chip

Input/Output

PCI-X/PCI Express	3 PCI-X 133MHz, 1 PCI-X 100MHz, 1 PCI Express x8 (in x16 slot) & 1 PCI Express x4 (in x8 slot)
SATA	Two ports
IDE	ATA/100 EIDE channels for a total of two IDE devices backward compatible
USB	Four USB 2.0-compliant ports (two USB rear connectors, two internal header)
Serial ports	Two serial ports (1 port & 1 header)
Floppy controller	1.44MB support
Keyboard/Mouse	Two PS/2 ports

Serverboard Management

Hardware	Watch Dog, NMI, IPMI 2.0
Software	Super● Doctor III, IPMI 2.0
Thermal Control	3-pin fan speed control & overheat LED indication
PC Health Monitoring	Monitors CPU voltages, +3.3V, +5V, +12V, -12V & +5V standby and total of 8-fan status, supports system mangement utility, chassis intrusion header
Other Features	ACPI power management, internal/external modem ring-on, WOL, control of power-on mode for recovery from AC power loss, SDDC, TM2 & CPU thermal trip support for processor protection
BIOS	AMI 8 Mb Flash ROM

Mechanical

Recommended Chassis	SC818
Serverboard Size	Proprietary ATX 16" x 14.3"

For the most current product information, visit: www.supermicro.com