

1. Quad-core Intel<sup>®</sup> Xeon<sup>®</sup> Harpertown/Wolfdale/5300/5100 Sequence supported
2. Intel<sup>®</sup> 5400 (Seaburg) chipset 1600/1333/1066MHz FSB
3. 64GB of ECC Fully-Buffered DIMM (FBD) DDRII 667/533 SDRAM
4. 1 (x16) PCI-E Generation II slot
5. ATI ES1000 32MB Graphics
6. Intel<sup>®</sup> ESB2 for 4 SATA (3 Gbps); RAID 0, 1, 10
7. Intel<sup>®</sup> 82563EB Dual-port Gigabit Ethernet controllers
8. Infiniband 20Gbps Controller (X7DWT-INF only)
9. SIMSO 2.0 slot for IPMI 2.0 server management



## Processor/Cache

Processor	Quad-core Intel <sup>®</sup> Xeon <sup>®</sup> Harpertown/Wolfdale/5300/5100 Sequence
Cache	12M/L2 cache
System Bus	1600/1333/1066MHz

## Chipset

Intel<sup>®</sup> 5400 (Seaburg) chipset  
MCH + Intel ESB2

## System Memory

Memory Capacity	Eight DIMM sockets for up to 64 GB of fully-buffered DIMM (FBD) DDRII 667/533 memory (Memory must be populated in pairs)
Memory Type	Fully-Buffered DIMM (FBD) DDRII 667/533 SDRAM 72-bit ECC, 240-pin gold-plated DIMMs
DIMM Sizes	8GB, 4GB, 2GB, 1GB, 512MB
Memory Voltage	1.8V / 1.5V (AMB)
Error Detection	Corrects single-bit errors, detects double-bit errors (using ECC memory), and supports Intel <sup>®</sup> Single Device Data Correction (SDDC)

## Integrated On-Board

SATA; RAID	Intel ESB2 for 4 SATA with host RAID 0, 1, 10 support
LAN	Dual LAN with Intel <sup>®</sup> 82563EB Gigabit Ethernet controller
Infiniband	Mellanox MT25204AD-FCC-D Single port (X7DWT-INF only)
Video	ATI ES 1000 controller with 32MB of video memory
Super I/O controller	Winbond <sup>®</sup> 83627 chip

## Input/Output

PCI-X/PCI Express	1 (x16) PCI-E Generation II slot
SATA	Four ports
USB	For USB 2.0-compliant ports ( two USB rear connectors, two internal headers)
Serial ports	1x serial port
Infiniband	1 External infiniband connector (X7DWT-INF only)
VGA	1x VGA port

## Serverboard Management

Hardware	Watch Dog, NMI, SIMLP 2.0 slot
Software	Super <sup>®</sup> Doctor III, IPMI 2.0
Thermal Control	Proprietary fan headers
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	Phoenix 8 Mb Flash ROM

## Mechanical

Recommended Chassis	SC808TQ-980
Serverboard Size	Proprietary 16" x 6.5"