4-Way Server Solution

Thunder K8QSD PRO
S4882UG2NR-D

Quad AMD Opteron™ Platform

- Supports up to four AMD Opteron™ single-core and dual-core processors
- Total of 16 DIMM sockets support up to 32 GB of DDR memory
- Dual channel U320 SCSI with ZCR support (optional)
- Two Broadcom® based Gigabit Ethernet LAN ports
- Integrated Serial ATA RAID w/ RAID 0, 1, 0+1 support (optional)
- Integrated ATI® Rage™ XL graphics controller

(Specifications are subject to change without notice. Items pictured may only be representative.)
**Specifications**

**Processors**
- Quad PGA 940-pin ZIF sockets
- Supports up to four AMD OpteronTM 8000 series single-core and dual-core processors
- Four onboard 3-phase VRMs
- Integrated 128-bit DDR Memory Controller

**Chipset**
- AMD-8131™ HyperTransport PCI-X Tunnel
- AMD-811™ HyperTransport I/O Hub
- Windsor W83627HF Super I/O chip
- Total five Hardware Monitoring IC.
- One ADM1027 and four LM63

**Memory**
- 128-bit dual channel memory bus
- Total sixteen 184-pin 2.5-Volt DDR DIMM sockets (4 on each CPU)
- Supports up to 32 GB Registered DDR
- Supports ECC and ECC with Chipkill type memory modules
- Supports single- / dual- / four-rank PC1600, PC2100, PC2700 & PC3200 DDR memory

**Expansion Slots**
- Two independent PCI-X buses
- Two 64-bit 66/33 MHz (3.3-Volt) PCI-X slots from PCI-X bridge A
- Two 64-bit 133/100/66/33 MHz (3.3-Volt) PCI-X slots from PCI-X bridge B
- One legacy 32-bit 33MHz (5-Volt) PCI slot
- Total of five usable slots

**Integrated I/O**
- One floppy connector supports one device
- Two 9-pin serial ports (one connector and one header) and One 25-pin parallel port pin-header
- Two USB v2.0 connectors through VT6212

**System Management**
- Total nine 3-pin fan headers with tachometer monitoring
- Four fan headers with (PWM) speed control
- One 2-pin Chassis Intrusion header
- Temperature, voltage and fan monitoring

**Integrated Enhanced IDE Controller**
- Provides two IDE dual-drive ports for up to four IDE devices
- Supports for UDMA 33/66/100/133 IDE drives and ATAPI compliant devices

**Integrated PCI Graphics**
- ATR Rage™ XL PCI graphics controller
- 8MB Frame Buffer of video memory

**Integrated Serial ATA Controller (manufacturing option)**
- One Silicon Image S1311 controller
- Four SATA 1.0 ports
- Supports up four SATA drives
- Supports RAID 0, 1, 10

**Integrated Dual Channel SCSI (manufacturing option)**
- LSI 53C1030 U320 SCSI controller
- Dual-channel Ultra320 SCSI
- Connects to PCI-X Bridge A
- Supports LSI ZCR (Zero Channel RAID)

**Integrated LAN Controllers**
- Broadcom® BCM5704C dual-channel Gigabit Ethernet controller
- Two RJ-45 LAN connectors with LEDs
- Connected to PCI-X Bridge A
- Two Front Panel LED headers

**BIOS**
- Phoenix BIOS
- 4MB LPC Flash ROM
- Watchdog timer
- USB boot support
- 48-bit LBA Support
- Supports PXE via Ethernet
- ACPI 2.0 & 1.0b support

**Form Factor**
- SSI MEB footprint (13" x 16" / 330.2mm x 406.4mm)
- EPS12V power connectors
- One serial port and one VGA connector
- Stacked USB 2.0 (two) connectors
- Stacked PS/2 keyboard and mouse connectors
- Two RJ-45 side-by-side LAN connectors with LEDs

**Regulatory**
- FCC Class B (Declaration of Conformity)
- European Community CE (Declaration of Conformity)