Thunder K8SR (S2881)

Ideal Dual AMD Opteron™ processor based Server for Rackmounts

- Supports up to two AMD Opteron™ processors
- Dual channel Adaptec® SCSI w/ ZCR support (optional)
- Two Broadcom® Gigabit Ethernet LAN ports
- Integrated ATI® RAGE™ XL graphics controller
- Integrated Serial ATA RAID w/ RAID 0, 1, 10 support
- IPMI remote management through Tyan SMDC (optional)

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

**Processors**
- Dual mPGA 940-pin ZIF sockets
- Supports one or two AMD Opteron™ processors
- Integrated 128-bit DDR Memory Controller

**Chipset**
- AMD-8131™ PCI-X Tunnel
- AMD-8111™ I/O Hub
- Winbond® W83627HF Super I/O chip
- Analog Devices® ADT7463 hardware monitoring IC

**Memory**
- 128-bit dual channel memory bus
- Total eight 184-pin 2.5-Volt DDR DIMM sockets (4 per CPU)
- Supports up to 16 GB Registered DDR
- Supports ECC type memory modules
- Supports PC3200, PC2700, PC2100, & 1600 DDR

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

**Integrated I/O**
- One floppy connector supports up to two drives
- One 25-pin parallel port header and two serial (one connector, one header)
- Four USB 1.1 ports (Two rear connector and two front panel connectors)
- One 15-pin VGA connector
- PS/2 mouse and keyboard connectors

**System Management**
- Total seven 3-pin fan headers with tachometer monitoring
- Five fan headers with (PWM) speed control
- One 2-pin chassis intrusion header
- Temperature, voltage, and fan monitoring
- Port 80th 7 segment display

**Integrated SATA RAID Controller**
- One Silicon Image® SISL3144 controller
- Four SATA 1.0 ports
- Supports RAID 0, 1, or 10 support (optional)
- Supports up to four SATA drives

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

**TYAN Riser Card Support**
- Supports M2043, M2044
- 2U Riser Cards
- Supports M2033 1U Riser Card

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

**Integrated PCI Graphics Controller**
- ATI® RAGE™ XL PCI controller w/ 8 MB memory

**Low Profile Back Panel I/O Ports**
- Stacked PS/2 mouse and keyboard ports
- Stacked USB 1.1 ports (x2)
- One 9-pin UART serial port
- One 15-pin VGA port
- Two RJ45 Gigabit Ethernet Base-T ports with LEDs

**Integrated Dual Channel SCSI**
- (manufacturing option)
- Adaptec® AIC7902W dual channel U320 SCSI controller
- Connected to PCI-X Bridge A
- Adaptec® ZCR support through SO-DIMM device

**BIOS**
- AMI® BIOS 8.0 on 4Mbit LPC Flash ROM
- Supports ACPI 2.0, SRAT support
- Serial Console Redirect
- PXE via Ethernet, USB device boot
- 48-bit LBA support
- SMBIOS v2.3, BBS 1.1

**Intelligent Platform Management Interface**
- TYAN Server Management Daughter card (optional)
  - (via 2x25-pin header)
  - Supports IPMI 1.5 specifications
  - Flexible Windows and Linux based management
  - Supports KCS and BT styles
  - Supports RMCP and SNMP protocols
  - Supports ASF standard and EMP
  - 1C serial multi-master controllers and UARTs
  - Built-in IPMI connector
  - Remote power on/off and reset support (IPMI-over LAN)

**Form Factor**
- SSI SEB v3.0 footprint
  - (12" x 13"; 305mm x 330.2mm), fits many E-ATX and SSI-compliant chassis
- EPS12V/SSI (24 + 8 pin) power connectors

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