Thunder K8S Pro
(S2882)

High-End Dual AMD Opteron™ processor based Server for Rackmounts

- Supports up to two AMD Opteron™ processors
- Dual channel SCSI w/ ZCR support (optional)
- Three Ethernet LOM; two Gigabit Ethernet, one Fast Ethernet
- Integrated Serial ATA RAID w/ RAID 0, 1, 0 + 1 support
- Integrated ATI® RAGE™ XL graphics controller
- IPMI remote management through Tyan SMDC (optional)

(Specifications are subject to change without notice. Items pictured may only be representative.)
**Processors**
- Dual PGA 940-pin ZIF sockets
- Supports one or two AMD Opteron™ processors
- Integrated 128-bit DDR Memory Controller

**Chipset**
- AMD-8117™ PCI-X Tunnel
- AMD-8111™ I/O Hub
- Winbond® W83627HF Super I/O chip
- Analog Devices® ADM1027 hardware monitoring IC

**Memory**
- 128-bit dual channel memory bus
- Total eight 184-pin 2.5-Volt DDR DIMM sockets (4 on CPU 1 and 4 on CPU 2)
- Supports up to 16 GB Registered DDR
- Supports ECC type memory modules
- Supports PC2200, PC2700, PC2100, & PC1600 DDR

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

**Integrated I/O**
- One floppy connector supports up to two drives
- One 9-pin serial port connector
- One 25-pin parallel port connector
- Four USB 1.1 ports
- Power/IDE LED connectors
- Three front panel LAN activity LED 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

**Integrated SATA RAID Controller**
- One Silicon Image® S3114 controllers
- Supports SATA port for up to four SATA drives
- Supports RAID 0, 1, 0 + 1
- Connected to legacy 32-bit 33MHz PCI bus

**Integrated PCI IDE Controller**
- Dual channel master mode supports up to four IDE devices
- Supports UDMA 133/100/66/33 IDE drives and ATA100 compliant devices

**Integrated LAN Controller**
- Broadcom® BCM5704C dual channel Gigabit Ethernet LAN controller
- Intel® 82551QM 10/100 Ethernet controller

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

**Back Panel I/O Ports**
- Stacked PS/2 mouse and keyboard ports
- Stacked USB 1.1 ports (x2) + RJ45 10/100 Base-T port (x1) w/ activity LED
- One 9-pin UART serial port
- One 15-pin VGA port
- Two RJ45 Gigabit Ethernet Base-T ports w/ activity LED

**Integrated Dual Channel SCSI**
- (manufacturing option)
  - Adaptec® Alc7902W dual channel U320 SCSI controller
  - Adaptec Zero Channel RAID ready

**BIOS**
- AMI BIOS 8.0 on 4Mbit LPC Flash ROM
- Supports APM 1.2 & ACPI 1.0
- PnP, DM2.0, WM2.0 power management
- Power management S1, S4, and S5 support

**Intelligent Platform Management Interface**
- Tyan Server Management Daughter card (via IPMI header)
- Supports IPMI 1.5 specifications
- Flexible Windows and Linux based management
- Supports KCS and BT styles
- Supports RMCP and SNA protocols
- Supports ASIF standard and EMP
- I²C serial multi-master controllers and UARTs
- Built-in IPMB connector
- Remote power on/off and reset support (IPMI-over LAN)

**Form Factor**
- Extended ATX footprint (13" x 12"

**Power**
- Onboard VRM, 4-phase PWM
- EPS12V universal power connectors

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