Thunder K8WE
S2895

Workstation Solutions

Dual AMD Opteron Workstation Platform w/x16 PCIe SLI support

- Dual AMD Opteron™ 200 Series Processor
- Two PCI Express x16 slots support SLI technology
- Two Integrated dual port SATA II Controllers support up to 4 drives
- Dual-channel U320 SCSI controller
- Dual IEEE 1394a port
- (2) NVIDIA MAC GbE LAN

(Specifications are subject to change without notice. Items pictured may only be representative.)
**S P E C I F I C A T I O N S**

**Processors**
- Supports one or two AMD Opteron™ 200 processors
- Two onboard 4-phase VRMs
- Three Hyper Transport™ links support up to 6.4GB/s data transfer rate each link
- 144-bit DDR interface (128-bit data + 16 bit ECC)
- Scalable 32bit and 64bit computing
- Secure computing with Nx register support

**Chipset**
- Nvidia nForce Professional 2200 (CKB-04)
- Nvidia nForce Professional 2050 (I/O:4)
- AMD 6131™ PCI-X Tunnel
- SMIC Super I/O

**Memory**
- 128-bit dual channel (interleaved) memory bus
- Total Eight DDR-1 DIMM sockets (Four per GPU)
- Supports up to 16GB Registered DDR
- Supports ECC with Chipkill Technology
- Supports DDR400, DDR333, or DDR266

**Expansion Slots**
- Two x16 PCI Express full speed expansion slots
  - Slot 1 PCI-E x16 from nForce Professional 2200
  - Slot 3 PCI-E x16 from nForce Professional 2050
  - Two independent 64-bit PCI-X buses
  - Slot 4 and Slot 5 support PCI-X 100 MHz max
  - Slot 8 supports PCI-X 133 MHz max
  - One 32-bit 33MHz PCI v2.3 (Slot 2)
  - Total of six usable slots

**Integrated I/O**
- One floppy connector
- One serial port connector
- Eight USB 2.0 EHCI ports (four rear connectors + four pin headers)
- PS/2 mouse and keyboard connectors
- Two FireWire (IEEE 1394a) ports (one rear connector and one internal pin header)

**System Management**
- Total six 4-pin fan headers with PWM and tachometer monitoring
- One 3-pin Chassis Intrusion header
- Watchdog Timer support
- Temperature, voltage and fan monitoring

**Integrated ATA-133**
- One ATA-133 IDE Channel for up to two devices

**Integrated SATAII Controllers**
- Two integrated dual port SATA II Controllers
- Four SATA connectors support up to four drives
- 3 Gb/s per direction per channel
- NVRaid 2.0 Support
- RAID 0, 1, 0+1

**Integrated Secure Network Processor**
- Two IEEE 802.3 Nvidia MAC 1000/100/10 Ethernet (First from nForce Professional 2200, Second from nForce Professional 2050)
- Supports WOL and PXE
- Supports Ethernet Jumbo Frames (9018 Bytes)
- Full Duplex Gigabit Ethernet support
- NVIDIA Firewall for secure network communications

**Integrated FireWire (IEEE 1394a) Controller**
- TI™ TSB43AB22A IEEE 1394a PCI controller
- Two FireWire ports (one rear connector and one internal pin header)

**Integrated Audio**
- Enhanced AC’97 2.3 compliant audio link
- Analog Devices 19818 codec
- CD-in/Aux-in connectors

**Integrated 3GCl Controller (Mfg. Option)**
- LSI 53C1300 U320 SCSI controller
- Two U320 68-pin SCSI connectors
- Connected to PCI-X Bridge B

**BIOS**
- PhoenixBIOS® on 8Mbit LPC Flash ROM
- ACPI 2.0
- Serial Console Redirect
- USB device boot
- WOL and PXE support
- 48-bit LBA Support

**Form Factor**
- SSI EEB v3.5 Footprint (12”x13”)
- EPS12V/VS1 v3.3 Workstation (24 + 8) power connectors (Split Plane design recommended)
- Serial (one)
- Stacked PS2 keyboard and mouse connectors
- Two dual port USB 2.0 connectors (total 4 ports)
- Two RJ-45 LAN connector with LEDs
- Audio Line-in, Line-out, Mic-in jacks
- One IEEE 1394A port

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