

# Themis RES-32s Server



## Themis' Rugged, Rackmountable, 3RU Dual UltraSPARC IIIi Server

Themis Computer's new RES-32s™ dual-processor server delivers the robust design features of Themis' Rugged Enterprise Server (RES) family in an efficient, three rack unit (3RU) chassis. The RES-32s is a high performance dual SMP system design, ideal for use in mission critical applications. Combining the Sun Blade™ 2500 design with Themis' proprietary thermal and mechanical design techniques, the RES-32s is distinguished by its ruggedized design, reliable operation in high shock and vibration environments, and six 64-bit PCI slots.

### UltraSPARC IIIi based for high performance and reliability

Featuring the Sun Microsystems™ 1.28GHz UltraSPARC® IIIi processor, Themis' RES-32s provides OEMs and systems integrators a space efficient server ready for fast integration into mission-critical applications. Designed for deployment in demanding environments, the RES-32s can withstand shock loads of 25G. The RES-32s flexible design provides six vertical PCI slots, two hot swappable SCSI drives, CD-RW/DVD drive, and an optional DDS tape. Themis' new RES-32s supports either a Sun XVR-100 graphics adaptor, XVR-600 graphics adaptor or a XVR-1200 high performance graphics card, enabling the system to provide outstanding 3-D graphics performance.

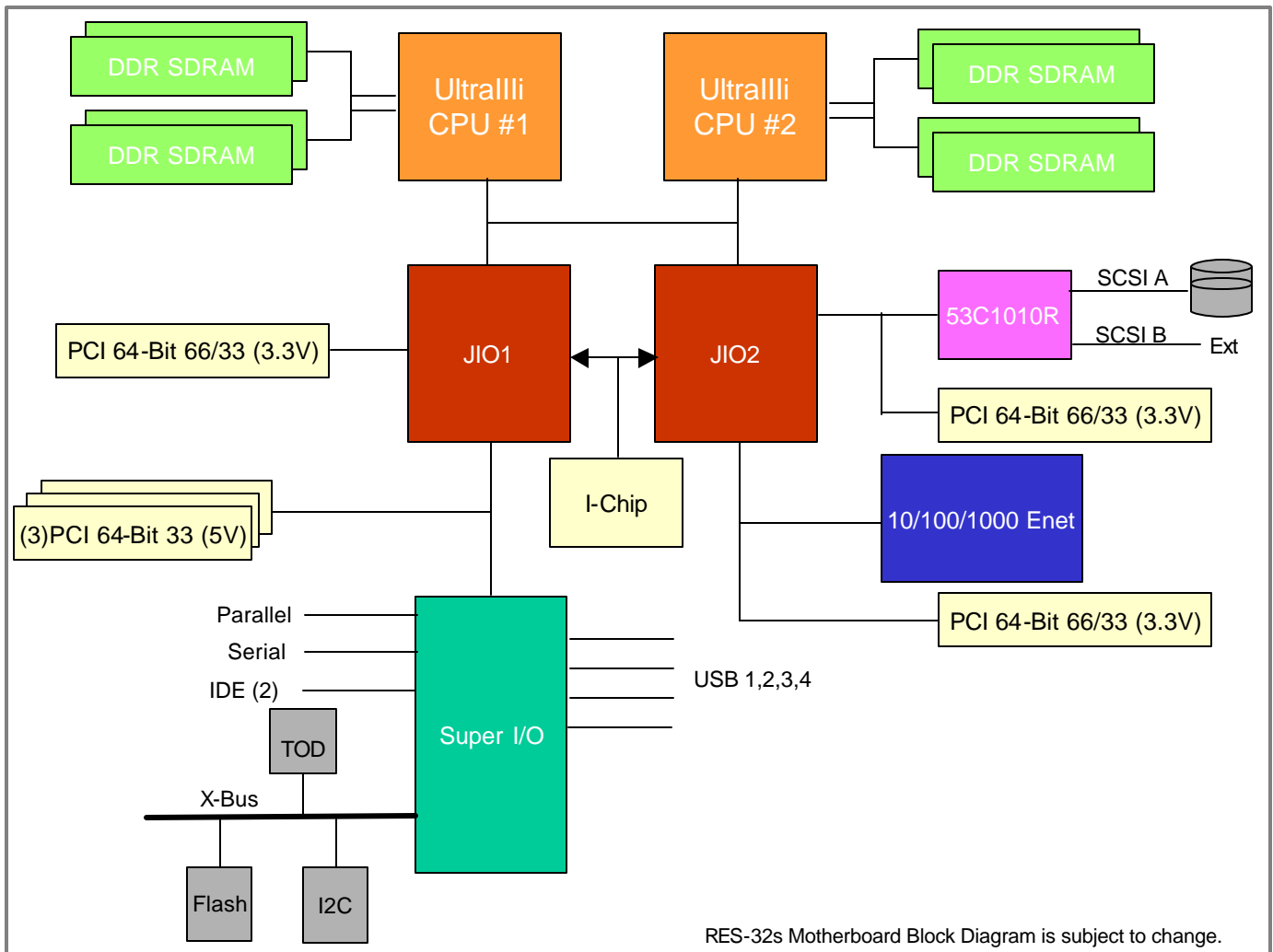
The system's modular design allows users versatile configurability and system expansion. The RES-32s is easily expanded through the addition of Sun® or other commercially available, off the shelf networking cards, I/O, peripherals and other value-added options to meet current and future system requirements.

### Themis RES-32s Features

- Dual-processor Sun UltraSPARC IIIi server
- 1.28GHz UltraSPARC IIIi processors with 1MB L2 cache
- Rackmountable Sun Blade 2500 design
- Up to 4GB of DDR266 SDRAM memory per processor
- 1 or 2 removable SCSI Hard Disk Drives, up to 146GB each
- HDD/CD-RW/DVD storage options
- Supports optional FC-AL Sun StorEdge™ MultiPack
- Optional InfiniBand ports for TPX-4 connectivity
- Designed for reliability in extended operating environments
- Temperature/fan speed monitor
- Compact, rack-optimized design for space constrained environments
- Optional rackmount slides
- Shock: 25G @ 40msec (MIL-STD-901D)
- Operational range: 0° to 50° C
- Humidity: Up to 90% non-condensing
- Modular design for easy upgrade and service – all FRUs may be changed in < 30 minutes
- Sun Solaris™ 8 and 9<sup>1</sup> Operating Environment support

<sup>1</sup>Solaris 9 support after April 4, 2004

# RES-32s Motherboard Block Diagram



## RES-32s Specifications

- Single or dual 1.28GHz UltraSPARC IIIi processors
- Up to 8GB DDR266 SDRAM, ECC protected memory
- Rear panel access and I/O:
  - One (1) 10/100/1000-BaseT ports
  - One (1) RS-232 Serial port (DB9)
  - Four (4) USB ports
  - Six (6) full-length 64-bit PCI slots (3 64-bit/66MHz, 3 64-bit/33MHz)
  - Power connector and switch
  - Audio: Line-In / Line-Out / Microphone
  - One (1) Parallel port
  - One SCSI (Ultra160) port
- Supports Sun type 6 USB keyboard, Sun USB mouse
- Sun Solaris 8 and 9 Operating Environment support
- Rugged case and extruded aluminum chassis

### Front panel incorporates the following:

- Up to Two (2) Ultra160 SCSI drives Hard Disk Drives (up to 146GB per drive)
- CD-RW/DVD drive
- DAT Tape drive (optional)
- Status LEDs
- Airflow direction: Front to Rear
- Operating Shock: up to 25 G @ 40 ms
- Operating Temperature: 0 - 50°C
- Operating Humidity: up to 90% non-condensing
- Power Supply: Up to two, 110/220 VAC autoranging, N+1 hot swappable (50/60 or 400 Hz)
- Safety: UL 1950, CSA 950
- RFI/EMI: FCC Class B
- Dimensions (HWD): 3U (133 mm) x 17.1" (19") x 20.0" (508.0 mm)



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