

Themis RES-32XEL Rugged Enterprise Server



Intel Xeon-based 3RU Server

Themis' RES-32XEL, a 3U Dual-Processor server, combines the robust design of its Rugged Enterprise Server (RES) family with three PCI-X slots, two PCI-Express, one PCI slot and storage expandability. The rugged RES-32XEL reflects Themis' extensive expertise designing high performance systems for use in demanding environments. This system combines the proven Intel Xeon™ processor with Themis' advanced thermal and mechanical design techniques to achieve I/O configuration flexibility and high reliability in shock and vibration environments of up to 25G.

The RES-32XEL can be configured with single or dual high speed Intel Xeon processors. Featuring PCI, PCI-Express and PCI-X expansion slots, and a wealth of I/O and storage options, the RES-32XEL allows users versatile configurability and system expansion. The RES-32XEL is easily expanded through the addition of commercially available, off the shelf networking cards, I/O, peripherals and other value-added options to meet current and future system requirements.

Intel Xeon Technology and Expandability for Outstanding Performance

The RES-32XEL's fast Intel Xeon processor and advanced system board provides innovative technologies including EM64T support and next generation PCI-Express for graphics. The RES-32XEL offers outstanding platform performance, dependability, and value. Its expansion versatility provides ample headroom for integration with current and future server platforms.

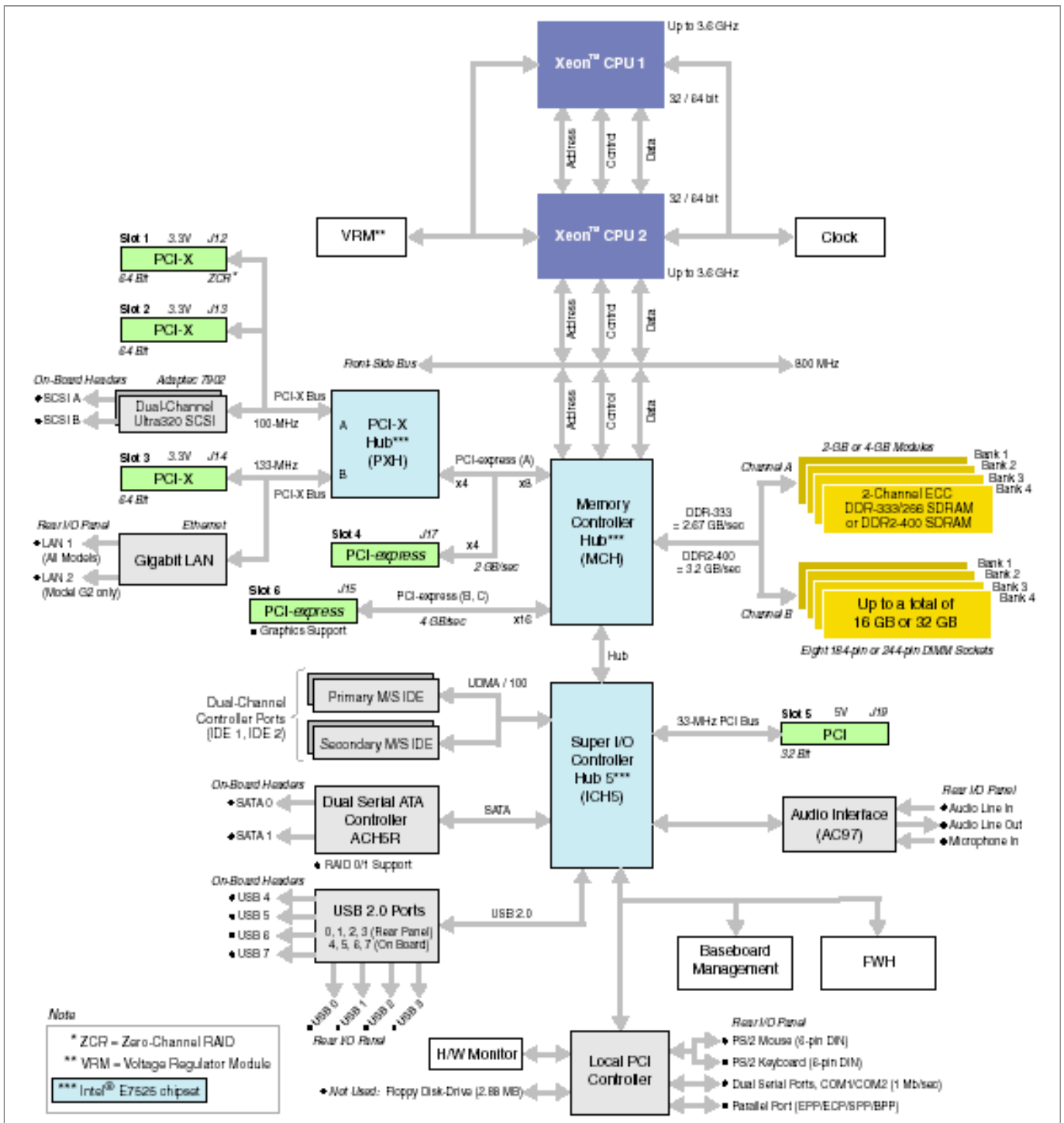
RES-32XEL Features:

- Designed for High Reliability in harsh operating environments
- Rack-optimized design for unique user requirements
- Hard Disk/CD-RW/DVD-RW/Floppy storage options
- Extensive use of Specially Coated Aluminum and Stainless Steel fasteners provide for Light Weight, Excellent Corrosion Resistance, and Durability
- Suspend to RAM and Wake-on-LAN system management
- Modular design for easy upgrade and service
- Optional rack-mount slides
- Zero-Channel RAID Support
- Linux, Windows®, and Solaris® Support
- High Definition 5.1 Channel Audio
- IPMI v2.0 support

RES-32XEL Specifications

- Single or Dual Intel Xeon processors
- Up to 32GB ECC registered memory
- Rear panel access and I/O:
 - Two (2) Gigabit Ethernet port (RJ45)
 - One (1) RS-232 Serial ports (DB9)
 - One (1) Parallel Port (ECP/EEP)
 - PS/2 Keyboard and Mouse ports
 - Four (4) USB ports
 - Power connector and switch
 - Line In/Out, Microphone In (3.5mm Jacks)
- Four (4) PCI slots
 - Two (2) 64-bit 133 MHz PCI-X
 - One (1) 64-bit/100 MHz PCI-X
 - One (1) 32-bit/33 MHz PCI
- Two PCI-Express slots
 - One (1) x16, One (1) x4
- Front panel incorporates the following:
 - Two (2) removable SCSI drives with One (1) Floppy drive or Three (3) removable SCSI drives with no Floppy drive
 - CD-RW/DVD-RW drive (optional)
 - DAT/DDS drive (optional)
 - Status LEDs, reset switch
- Airflow direction: Front to Rear
- Operating Shock: up to 25 G @ 12-40 ms (MIL-901D)
- Operating Vibration: 0.9grms from 10 – 2000Hz
- Operating Temperature: 0 - 50°C
- Humidity: up to 90% non-condensing
- Dual redundant fans
- Power Supply: Dual redundant, N+1 hot swappable 110/220 VAC (460 Watt) autoranging power supplies (50/60Hz, 400Hz)
- Safety: UL 1950, CSA 950
- RFI/EMI: FCC class B
- Dimensions (HWD): 3U (133 mm) x 17" (19") x 20.0" (508.0 mm)

RES-32XEL Motherboard Block Diagram



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