Themis RES-32XR3
Rugged Enterprise Server

New Intel Quad-Core Xeon based 3U Server

Themis' new RES-32XR3™, a 3 Rack Unit (3U) Quad-Processor server, combines the robust design of its Rugged Enterprise Server (RES) family with the latest quad-core 5500 series Xeon processors. The rugged RES-32XR3 reflects Themis' extensive expertise designing high performance systems for use in demanding environments. This new system combines the Intel 5500 series Xeon™ processors 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-32XR3 can be configured with one or two Intel Quad-Core Xeon 5500 Series Processors. Featuring multiple expansion slots, extensive high speed I/O, and multiple storage options the RES-32XR3 allows users versatile configurability and system expansion. The RES-32XR3 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.

RES-XR3 Family Features:

Mechanical
- Designed for High Reliability in harsh operating environments
- Rack-optimized design for unique user requirements
- Extensive use of specially coated aluminum for light weight and corrosion resistance.
- Stainless steel in selected areas to add strength and stiffness
- Modular design for easy upgrade and service
- Optional Rack-Mount Slides
- Airflow direction: Front to Rear
- Optional dust filter

Management and Operating System
- Suspend to RAM and Wake-on-LAN system management
- IPMI v2.0 support
- Linux, Windows®, and Solaris® Support

RES-32XR3 Specifications:
- One or Two Quad-Core 5500 Series Intel Xeon Processors
- Up to 144GB ECC DDRIII-667 memory
- Dimensions (HWD): 3U x 17" x 20.0"
                    133 mm x 431.8 mm x 508 mm
- Front panel I/O:
  - Up to Eight (8) Removable 2.5" SAS or SATA disk drives
  - CD-RW/DVD-RW Drive (optional)
  - Status LEDs, power switch

Environmental*
- Operating Shock: 3 axis, 25G, 20ms
- Operating Vibration: 3.0 Grms, 8 Hz to 2000 Hz
- Operating Temperature: 0°C – Up to 65°C
- MIL-STD-810G
- Humidity: up to 90% non-condensing

* Environmental specifications are configuration dependent.

Reliability
- Hot Swappable fans
- Power Supply Options:
  - Single or redundant 110/220 VAC, 650 Watt (50/60Hz, 400Hz)
  - Single or redundant 18-36 VDC, 400 Watt, 32 Amp
  - Single or redundant 36-72 VDC, 650 Watt, 18 Amp
- Hot Swappable Disk Drives
- Zero-Channel RAID Support

- Rear panel access and I/O*:
  - Two (2) Gigabit Ethernet Ports (RJ45)
  - One (1) or two (2) RS-232 Serial Port (DB9)
  - PS/2 Keyboard and Mouse Ports
  - Up to Four (4) USB 2.0 Ports
  - Power connector and switch
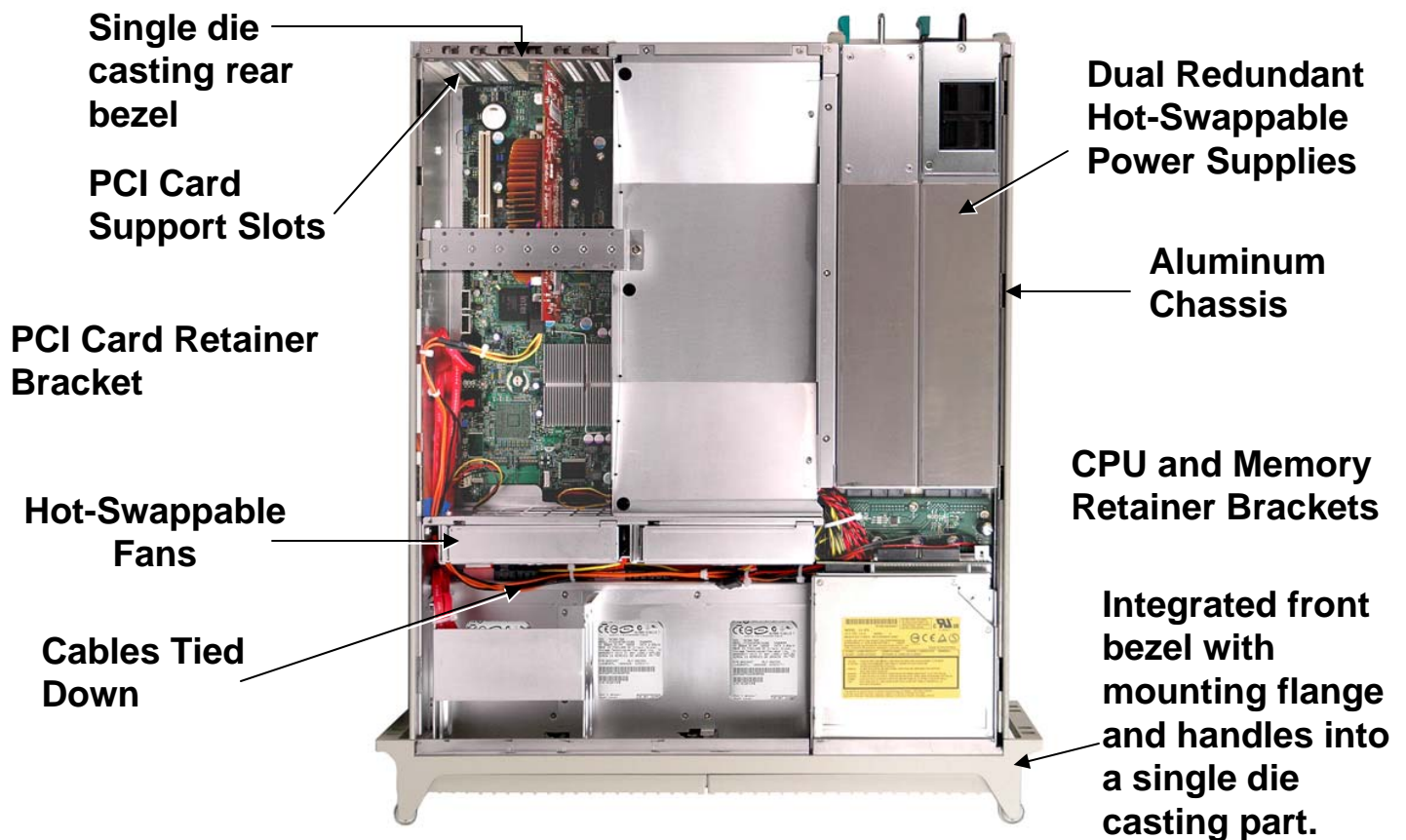
* Rear panel I/O may vary with configuration

Contact your Themis sales representation for other Expansion and I/O options.

RES-32XR3

RES-32XR3 shown with optional front panel dust filters

Single die casting rear bezel

PCI Card Support Slots

PCI Card Retainer Bracket

Hot-Swappable Fans

Cables Tied Down

Dual Redundant Hot-Swappable Power Supplies

Aluminum Chassis

CPU and Memory Retainer Brackets

Integrated front bezel with mounting flange and handles into a single die casting part.

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intel
Xeon
Inside