

Themis RES-32XR3 Rugged Enterprise Server



Intel Four & Six Core Xeon based 3U Server 17" and 20" Depth Rackmount Chassis

Themis' RES-32XR3™, 3 Rack Unit (3RU) servers in two chassis depths, combines the robust design of its Rugged Enterprise Server (RES) family with the latest four and six core 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® 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 35G.

The RES-32XR3 can be configured with one or two Intel 5500 or 5600 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® and Windows® OS support

Environmental*

- Operating Shock: 3 axis, 35G, 25ms
- Operating Vibration: 3.0 Grms, 8 Hz to 2000 Hz
- Operating Temperature: 0°C – Up to 65°C
- Humidity: up to 90% non-condensing
- MIL-STD-810G (Shock and Vibration)
- MIL-STD-740 (Quiet Operation, 54db or less)

* 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, 500 Watt, 32 Amp
 - Single or redundant 36-72 VDC, 650 Watt, 18 Amp
- Hot Swappable Disk Drives
- Zero-Channel RAID Support

RES-32XR3 Specifications:

- One or Two 5500 or 5600 Series Intel Xeon Processors
- Up to 144GB DDR3 ECC memory
- RES-32XR3 Dimensions (HWD): 3RU x 17" x 20"
133 mm x 431.8 mm x 508 mm
- RES-32XR3-S Dimensions (HWD): 2RU x 17" x 17.0"
133 mm x 431.8 mm x 431.8 mm

- Expansion
 - Up to seven (7) PCI-E Slots
 - PCI-X and PCI available on some configurations
 - Expansion slots vary with configuration

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

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 Six (6) USB 2.0 Ports
- Power connector and switch

* Rear panel I/O will vary with configuration

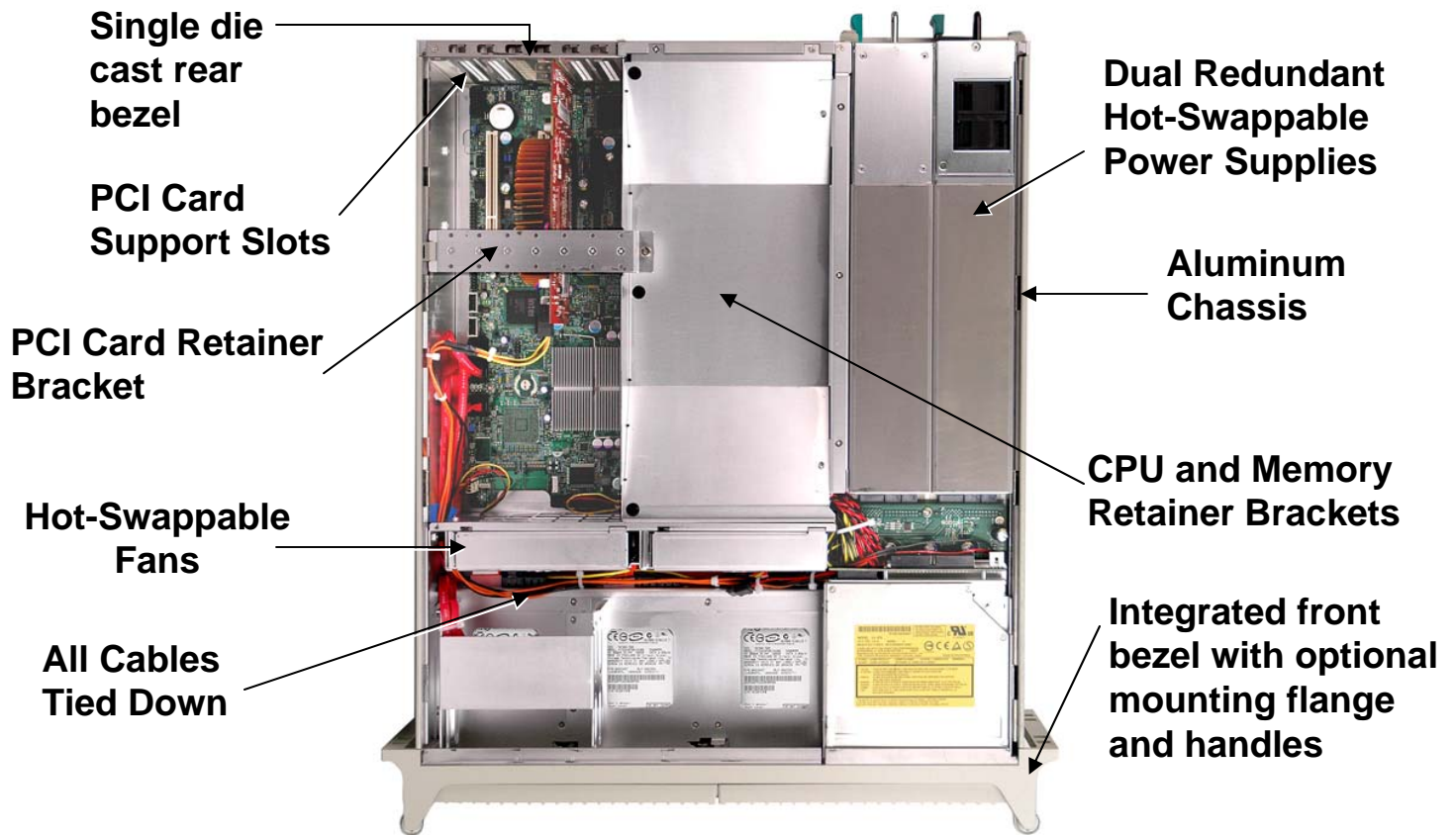
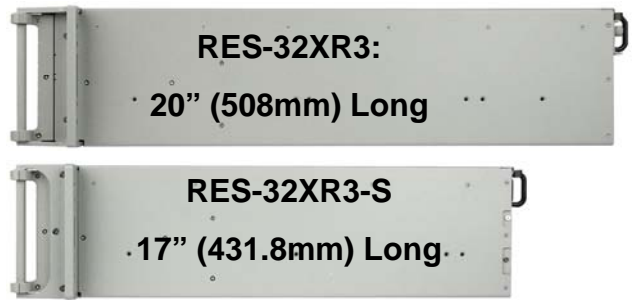
Contact your Themis sales representation for other Expansion and I/O options.



RES-32XR3



RES-32XR3 shown with optional front panel dust filters



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