

# Themis RES-31XR3 Rugged Enterprise Server



## Intel Four & Six Core Xeon based 3U Server Shallow Depth Rackmount Chassis

Themis' RES-31XR3™, 3 Rack Unit (3RU) server combines the robust design of its Rugged Enterprise Server (RES) family with the latest four and six core Intel® Xeon® processors. The rugged RES-31XR3 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 compact RES-31XR3 is configured with one Intel 5500 or 5600 Series Processor. Featuring multiple expansion slots, extensive high speed I/O, and multiple storage options, the RES-31XR3 allows users versatile configurability and system expansion. The RES-31XR3 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® 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 (hot swappable) :
  - Single or redundant 750 Watt 110/220 VAC, (50/60Hz, 400Hz)
  - Single or redundant 500 Watt 18-36 VDC, 32 Amp
  - Single or redundant 650 Watt 36-72 VDC, 18 Amp
- Hot Swappable Disk Drives

### RES-31XR3 Specifications:

- One 5500 or 5600 Series Intel Xeon Processor
- Up to 24GB DDR3 ECC memory
- RES-31XR3 Dimensions (HWD): 3RU x 17.07" x 17"  
(133 mm x 433.6 mm x 431.8 mm)

- Expansion
  - Up to six (6) expansion slots (PCI-E, PCI-X and PCI)
  - 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
- Status LEDs, power switch

#### Rear panel access and I/O\*:

- Two (2) Gigabit Ethernet Ports (RJ45)
- One (1) or two (2) RS-232 Serial Ports (DB9)
- PS/2 Keyboard and Mouse Ports
- Up to four (4) USB 2.0 Ports
- Power connector

\* Rear panel I/O will vary with configuration

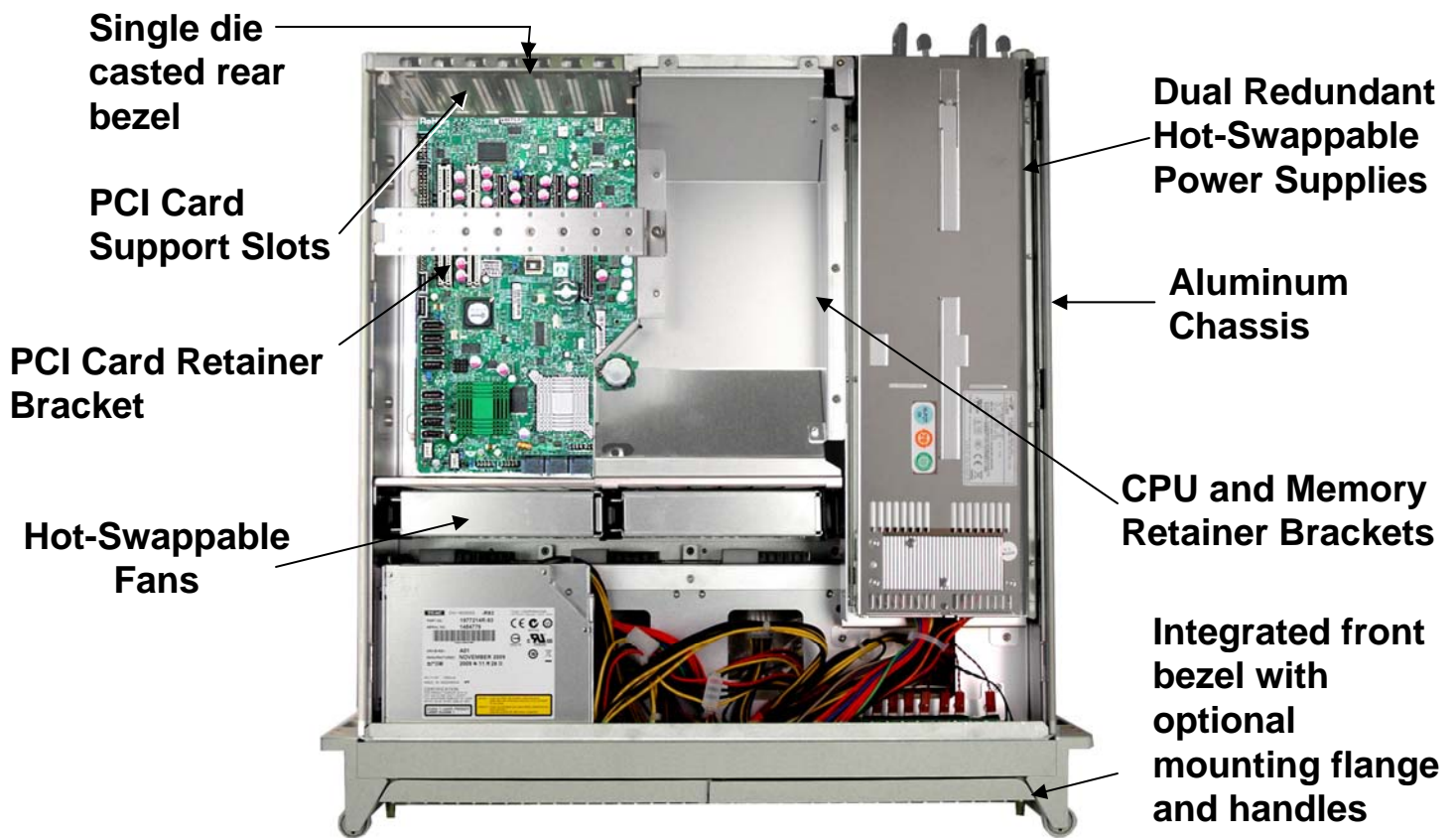
Contact your Themis sales representation for other Expansion and I/O options.



# RES-31XR3



RES-31XR3 shown with optional front panel dust filters



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