

Themis RES-12XR3 Rugged Enterprise Server



Intel Four & Six Core Xeon 1U Server 17" and 20" Depth Rackmount Designs

Themis' RES-12XR3™ 1 Rack Unit (1RU) servers in two chassis depths, combines the robust design of the Rugged Enterprise Server (RES) family with the latest 5500 and 5600 series Intel® Xeon® processors. The rugged RES-12XR3 reflects Themis' extensive expertise designing high performance systems for use in demanding environments. This new system combines the Intel four and six core 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-12XR3 can be configured with one or two Intel Xeon 5500 or 5600 Series Processors. Featuring multiple expansion slots, extensive high speed I/O, and multiple storage options the RES-12XR3 allows users versatile configurability and system expansion. The RES-12XR3 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 55°C
- Humidity: up to 90% non-condensing
- MIL-STD-810G (Shock and Vibration)

* 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-12XR3 Specifications:

- One or Two 5500 or 5600 Series Intel Xeon Processors
- Up to 96GB DDR3 ECC memory
- RES-12XR3 Dimensions (HWD): 1RU x 17" x 20.0"
45 mm x 431.8 mm x 508 mm
- RES-12XR3-S Dimensions (HWD): 1RU x 17"x 17.0"
45 mm x 431.8mm x 431.8mm

- 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 and switch
 - One (1) VGA port

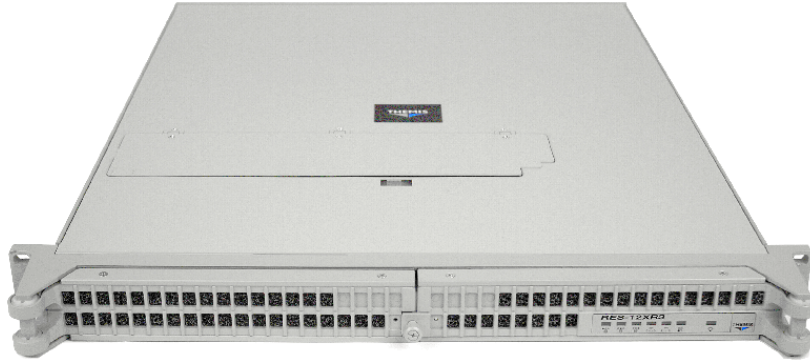
* Rear panel I/O may vary with configuration

- Front panel I/O:
 - Up to Three (3) Removable 2.5" SATA disk drives
 - CD-RW/DVD-RW Drive (optional)
 - Status LEDs, power switch
- Expansion
 - One (1) PCI-E 2.0 x16 Slot or
 - Two (2) PCI-E 2.0 x8 Slots or
 - One (1) PCI-X Slot

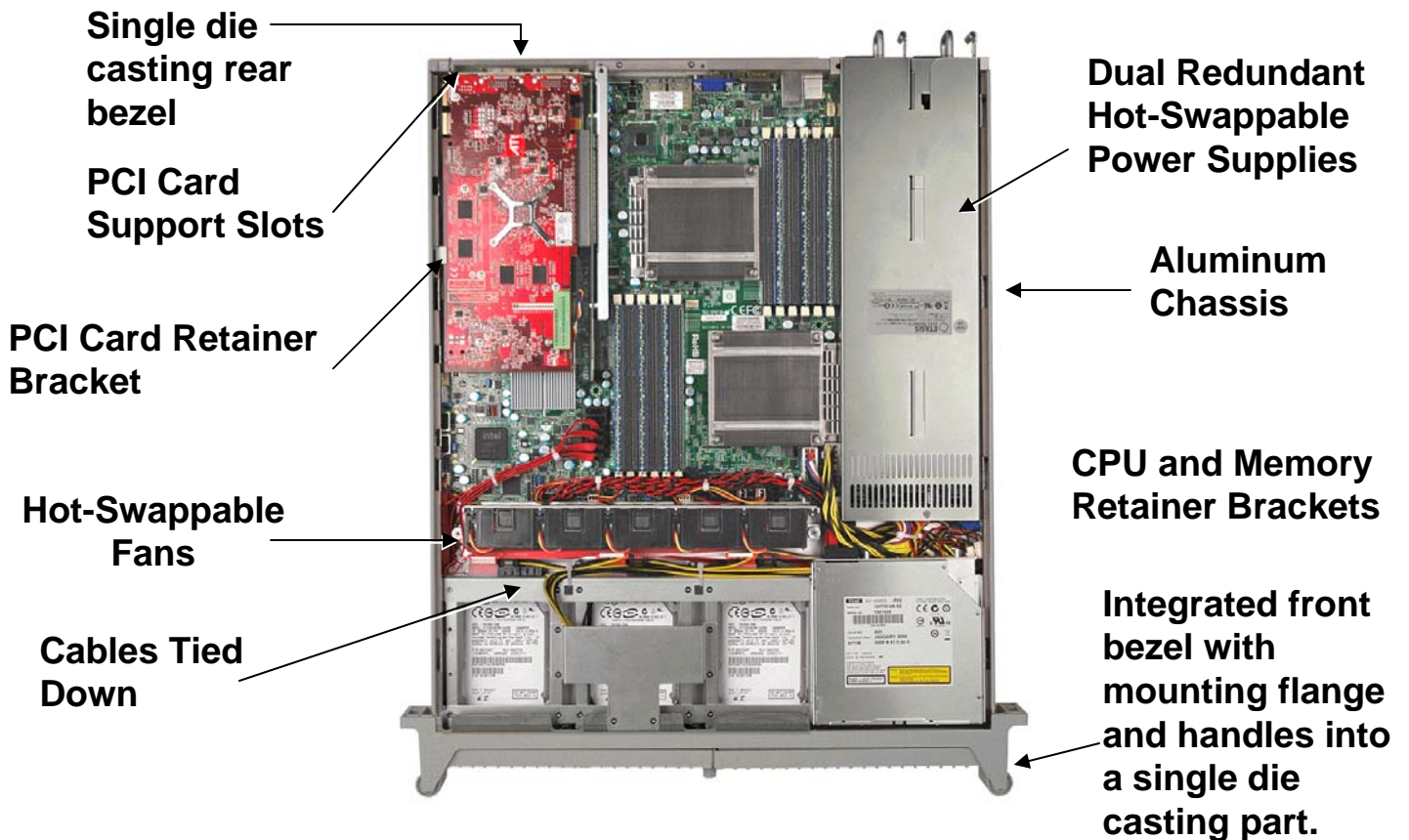
Contact your Themis sales representation for other Expansion and I/O options.



RES-12XR3



RES-12XR3 shown with optional front panel dust filters



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