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Find the *Mercury Computer Systems / Themis RES-32DCX* at our website: *Click HERE*



Themis RES-32DCX
Rugged Enterprise Server

Intel Dual and Quad Core Xeon based 3U Server

Themis' RES-32DCX, a 3 Rack Unit (3U) Dual-Processor server, combines the robust design of it's Rugged Enterprise Server (RES) family with the latest Xeon Dual and Quad core 64-bit processors. The rugged RES-32DCX reflects Themis' extensive expertise designing high performance systems for use in demanding environments. This new system combines Intel Dual and Quad Core Xeon™ processors, the Intel 5000X (Greencreek) chipset, with Themis' advanced thermal and mechanical design techniques. The RES-32DCX achieves I/O configuration flexibility and provides high reliability in shock and vibration environments of up to 25G.

The RES-32DCX can be configured with one or two Intel Dual or Quad Core Xeon processors. Featuring multiple expansion slots, extensive high speed I/O, and multiple storage options the RES-32DCX allows users versatile configurability and system expansion. The RES-32DCX 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 Dual and Quad Core Xeon and Server Chipset Technology offer Expandability and Outstanding Performance

The RES-32DCX's fast Intel Multiple Core Xeon processor provides innovative technologies such as Virtualization Technology (VT), Hyper Pipelined Technology, Execution Trace Cache, Advanced Dynamic Execution, Advanced Transfer Cache, Streaming SIMD Extensions 3 (SSE3) and Extended Memory 64 Technology (EM64T) and next generation PCI-Express for graphics. The RES-32DCX offers outstanding platform performance, dependability, and value. Its expansion versatility provides ample headroom for integration with current and future server platforms. The new Intel 5000X and ESB2 chipset represents the latest in Intel server architecture, providing the highest possible performance and scalability.

Themis Rugged Enterprise Server Features

- Designed for High Reliability in harsh operating environments
- Rack-optimized design for unique user requirements
- Extensive use of specially coated light-weight aluminum
- Excellent corrosion resistance, and durability
- Modular I/O design for easy upgrade and service
- Optional rack-mount slides
- Airflow direction: front to rear
- Operating Shock: up to 25G @ 12-40 ms (MIL-901D)
- Operating Vibration: 0.9G (rms) from 10 – 2000Hz
- Operating Temperature: 0°C - 50°C
- Humidity: up to 90% non-condensing
- Safety: UL 1950, CSA 950
- RFI/EMI: FCC class B
- Linux, Windows®, and Solaris® Support

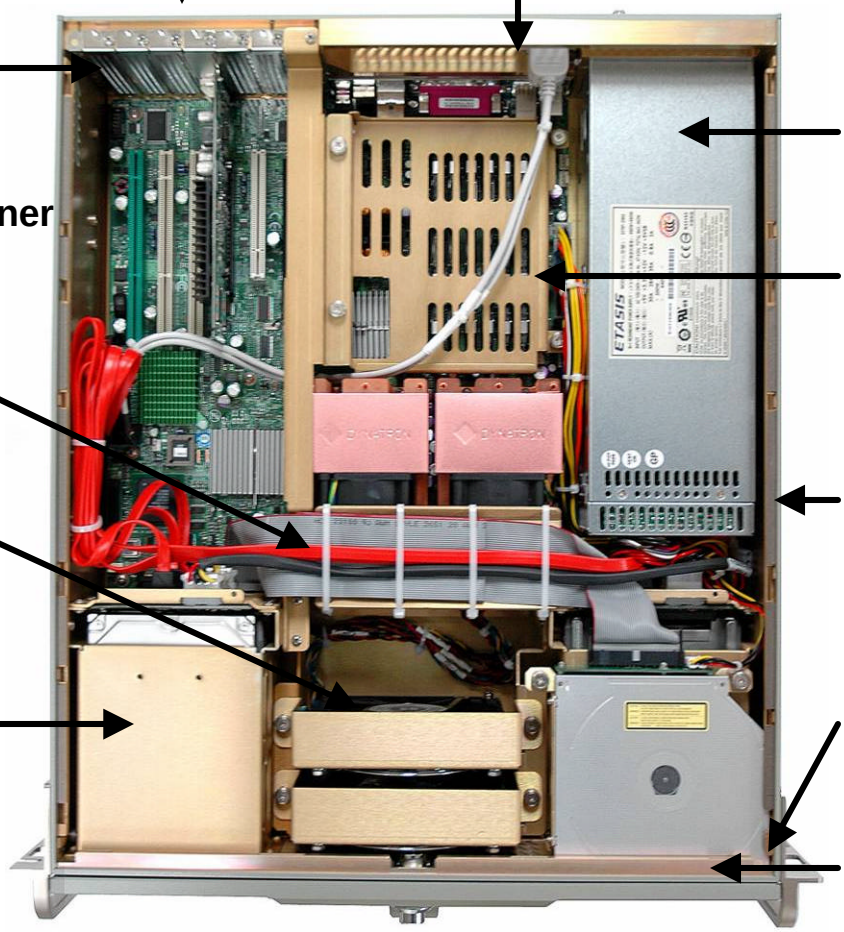
RES-32DCX Specifications

- One or two Dual-Core 5100 Series Intel Xeon processors up to 3.0 GHz, 4MB L2 Cache, 1333MHz FSB
- One or Two Quad-Core 5300 Series Intel Xeon processors up to 2.33GHz, 8MB L2 Cache, 1333MHz FSB
- Up to 32GB ECC registered DDRII-667 FB-DIMM SDRAM memory
- Intel 5000X (Greencreek) and ESB2 chipset
- Rear panel access and I/O:
  - Two (2) Gigabit Ethernet port (RJ45)
  - One (1) RS-232 Serial port (DB9)
  - One (1) Parallel Port (ECP/EEP)
  - PS/2 Keyboard and Mouse ports
  - Four (4) USB 2.0 ports
  - Optional two (2) additional USB 2.0 ports on Back Panel
  - Power connector and switch
  - Line In, Line Out, Microphone In (3.5mm Jacks)
- Expansion slots:
  - Two (2) 64-bit 133 MHz PCI-X slots
  - One (1) 64-bit/100 MHz PCI-X ZCR slot
  - One (1) 32-bit/33 MHz PCI slot
  - Two PCI-Express slots - One (1) x16, One (1) x4 slot
- Front panel storage and I/O:
  - Up to five (5) Removable Ultra320 SCSI or SATA-2 Drives
  - CD-RW/DVD-RW drive (optional)
  - DAT/DDS Tape drive (optional)
  - Floppy Drive (optional)
  - Status LEDs, reset switch
- Functional Features
  - IPMI v2.0 support
  - Suspend to RAM and Wake-on-LAN system management
  - Zero-Channel RAID Support
- Dual redundant cooling fans
- Power Supply: Dual redundant, N+1 hot swappable 110/220 VAC (460 Watt) autoranging (50/60Hz, 400Hz)
- Dimensions (HWD): 3U (133 mm) x 17" (431.8 mm) x 20" (508 mm)

THEMIS

intel Xeon inside™

RES-32DCX Internals – What Makes Them So Rugged?



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