

Themis RES-12DCX-2.5 Rugged Enterprise Server



New Intel Quad Core Xeon 1RU Server

Preliminary Datasheet

Themis' new RES-12DCX-2.5, a 1 Rack Unit (1RU) Dual-Processor server, combines the robust design of its Rugged Enterprise Server (RES) family with quad core 64-bit processing power. The rugged RES-12DCX-2.5 reflects Themis' extensive expertise designing high performance systems for use in demanding environments. This new system combines Intel Quad Core Xeon™ processors and the Intel 5000P (Blackford) chipset, with Themis' advanced thermal and mechanical design techniques. The RES-12DCX-2.5 achieves I/O configuration flexibility and provides high reliability in shock and vibration environments of up to 25G.

The RES-12DCX-2.5 can be configured with one or two quad core Intel Xeon 5300 or 5400 Series Processors. Featuring two flexible expansion slots, extensive high speed I/O, and multiple storage options the RES-12DCX-2.5 allows users versatile configurability and system expansion. The RES-12DCX-2.5 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.

Flexible Mechanical Design Offers Expandability and Outstanding Performance in a Small Space

The RES-12DCX-2.5's 20 inch deep, 1RU high chassis packs up to eight cores of processor power into a compact footprint. Three 2.5 inch disk drive bays can provide over 500 GBytes of storage. Two expansion slots enable I/O configurability. The RES-12DCX-2.5 brings state-of-the art server technology to demanding environments with its small size, rugged construction, and multi-core processors.

The Intel 5000P chipset provides the highest possible performance and scalability. The 5000P is the central hub for all data passing through the core system elements; such as the two Multiple-Core Xeon processors, and supports a 1333MHz system bus and up to 32Gbytes DDR2-667 SDRAM memory.

RES-12DCX-2.5 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
- Storage: Three 2.5" removable HDDs and one CD-RW/DVD-RW
- Two additional USB 2.0 Ports (optional) on Back Panel
- Suspend to RAM and Wake-on-LAN system management
- Zero-Channel RAID Support
- Linux, Windows®, and Solaris® Support
- IPMI v2.0 support

RES-12DCX-2.5 Specifications:

- One or Two Quad-Core Low Power 5300 Series Intel Xeon processors
- Up to 32GB ECC registered DDRII-667 FB-DIMM SDRAM memory
- Intel 5000P (Blackford) Chipset
- ATI ES1000 16MByte PCI Color Graphics Controller
- Rear panel access and I/O:
 - Two (2) Gigabit Ethernet Ports (RJ45)
 - One (1) RS-232 Serial Port (DB9)
 - One (1) VGA port
 - PS/2 Keyboard and Mouse Ports
 - Two (2) USB 2.0 Ports
 - Expansion for up to four (4) external SAS drives
 - Power connector and switch
- Two Expansion Slots: One Full and One Half Height
 - Two x8 PCI-Express **OR**
 - Two PCI-X **OR**
 - One x8 PCI-Express and One PCI-X
- Front panel incorporates the following:
 - Up to Three (3) Removable 2.5" SAS or SATA-2 Drives
 - CD-RW/DVD-RW Drive (optional)
 - Status LEDs, reset switch
- Airflow direction: Front to Rear
- Operating Shock: up to 25G @ 12-20 ms (MIL-901D)
- Operating Vibration: 0.9G (rms) from 10 – 2000Hz
- Operating Temperature: 0° - 55°C sea level
- Humidity: up to 90% non-condensing
- Redundant Power Supply: 110/220 VAC, 650 Watt (50/60Hz, 400Hz)
- Safety: UL 1950, CSA 950
- RFI/EMI: FCC class B
- Dimensions (HWD): 1RU (89 mm) x 17" (431.8 mm) x 20.0" (508 mm)





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