

# RR-2740

## 2U Rackmount Server

### Powered by Dell



**RAVE's RR-2740 is designed to be the cornerstone of today's competitive enterprise. Engineered in response to input from IT professionals, it is the next-generation 2U rack server created to efficiently address a wide range of key business applications. The RR-2740 runs the Intel® Xeon® 5500 Series Processors and helps you lower the total cost of ownership with enhanced virtualization capabilities, improved energy efficiency, and innovative system management tools.**

#### STRONG IT FOUNDATION

As an IT professional, you want a data center built to allow for organic growth and the ability to scale based on your company's changing requirements. You need complete solutions that allow you to focus your time and money on managing and growing your business. RAVE understands your needs and responds with an expanding portfolio of enterprise servers, storage technologies, and services with a single goal: to help you simplify IT.

#### PURPOSEFUL DESIGN

The RR-2740 takes advantage of RAVE's system commonality. Once your IT managers learn one system, they understand how to manage next-generation RAVE servers. Logical component layout and power supply placement also provide a straightforward installation and redeployment experience. Featuring 18 DIMM slots and 4 integrated network connections, the RR-2740 delivers the critical components to virtualization and database performance. The Intel Xeon Processor 5500 Series adapts to your software in real time, processing more tasks simultaneously. Using Intel® Turbo Boost Technology, the RR-2740 can increase performance during peak usage periods. You can then help reduce operating costs and energy usage with Intel® Intelligent Power Technology, which proactively puts your server into lower power states when demand decreases. Increased memory slots also save money by enabling you to use smaller, less-expensive DIMMs to meet your computing needs.

#### ENHANCED VIRTUALIZATION

Featuring Intel Xeon-based architecture, embedded hypervisors, large memory capacity, and integrated I/O, the next-generation RAVE's RR-2740 delivers better overall system performance and greater virtual machine-per-server capacity. With optional factory-integrated virtualization capabilities, you get tailored solutions – built with the latest technologies from RAVE and our trusted partners – which allow you to streamline deployment and simplify virtual infrastructures. Choose your hypervisor from market leaders such as VMware®, Citrix®, and Microsoft®, and enable virtualization with a few mouse clicks.

#### ENERGY-OPTIMIZED TECHNOLOGIES

Using the latest Energy Smart technologies, the RR-2740 reduces power consumption while increasing performance capacity versus the previous generation servers. Enhancements include efficient power supply units right-sized for system requirements, improved system-level design efficiency, policy-driven power and thermal management, and highly efficient standards-based Energy Smart components. RAVE's advanced thermal control delivers optimal performance at minimal system and fan power consumption resulting in our quietest 2U servers to date. These enhancements maximize energy efficiency across our latest core data center servers without compromising enterprise performance.

#### Rave Computer

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Integrated Solutions from Design to Delivery

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FEATURES	RAVE RR-2740 Server	
Form Factor	2U rack height	
Processors	Latest Dual-Core or Quad-Core Intel® Xeon® 5500 Processor Series	
Processor Sockets	2	
Interconnect	Intel® QuickPath Interconnect (QPI)	
Cache	4MB and 8MB	
Chipset	Intel® 5520	
Memory	Up to 144GB (18 DIMM slots*); 1GB/2GB/4GB/8GB DDR3, 800MHz, 1066MHz or 1333MHz	
I/O Slots	2 PCIe x8 + 2 PCIe x4 G2 Or 1 x16 + 2 x4 G2	
Drive Controller	PERC6/i or SAS6/iR, PERC 5/E and PERC 6/E	
RAID Controller	Optional PERC 5/i integrated SAS/SATA II daughtercard controller with 256MB cache, PERC 5/e adapter, PERC 6/i, and SAS 6/iR	
Drive Bays	8 x 2.5" Hard Drive Option or 6 x 3.5" Hard Drive Option; Optional flex bay expansion to support half-height TBU Up to four 3.5" drives with optional flex bay OR Up to eight 2.5" SAS or SATA drives with optional flex bay	
Maximum Internal Storage	6TB SATA or Near Line SAS	
Hard Drives	2.5" SAS (10K RPM): 36GB, 73GB, 146GB, 147GB, 300GB 2.5" SAS (15K RPM) 36GB, 73GB 2.5" SATA II (5.4K RPM): 80GB, 160GB, 250GB 2.5"SATA II (7.2K RPM): 80GB, 120GB, 160GB, 250GB	3.5" SATA (7.2K): 80 GB,160GB, 250GB, 500GB, 750GB, 1TB 3.5" SAS (10K): 400GB 3.5" SAS (15K): 73GB, 146GB, 300GB, 450GB 3.5" Near-Line SAS (7.2K): 500GB, 750GB, 1TB
Network Interface Cards	Four embedded Broadcom® NetXtreme II™ 5709c Gigabit Ethernet NIC with failover and load balancing; TOE (TCPIP Offload Engine) supported on Microsoft® Windows Server® 2003 SP1 or higher with Scalable Networking Pack; Optional 1GBe and 10GBe add-in NICs	
Power Supply	Energy Smart – Two hot-plug high-efficient 570W PSU OR High Output Two hot-plug 870W PSUs	
Availability	DDR3, Spare Bank; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; PERC 6/i; optional PERC5/i integrated daughtercard controller with battery-backed cache; hot-plug redundant cooling; tool-less chassis; fibre and SAS cluster support; validated for Dell/EMC SAN	
Video	Matrox G200 with 8MB of cache	
Remote Management	iDRAC6	
Systems Management	Dell™ OpenManage™	
Rack Support	4-post (Dell rack), 3rd party Versa rails, sliding rails and Cable Management Arm	
Fans	Standard redundant cooling	
Acoustics	Typically configured** 2.5" chassis in 23 +/- 2 C ambient Idle: LwA-UL*** = 5.5 bels, LpAm**** = 39 dBA	
Operating Systems	Microsoft Windows Server 2008 Standard and Enterprise Edition, x64 Standard and Enterprise Edition, Windows Server 2008, Small Business Server Standard Edition, Windows Server 2008 Data Center Edition, Microsoft® Windows® Essential Business Server 2008, Windows Server 2008 with Hyper-V™, Novell® SUSE® Linux 10 SP2 Red Hat® Linux® Enterprise v5, WS, AS, ES and ES x86-64; Red Hat® Linux® Enterprise v5; SUSE® Linux Enterprise Server 10 x86-64 Red Hat® Linux® Enterprise v5.2 x86-64 Red Hat® Linux® Enterprise v5.2 x86 Sun® Solaris™ 10	
Embedded Hypervisors	VMware® Infrastructure 3, standard or enterprise; with VMware ESXi 3.5 Citrix® XenServer®, Dell Express & Enterprise Editions	

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