RR-1640 Server

Inspired by customer feedback, RAVE's RR-1640 server is engineered to simplify data center operations, improve energy efficiency, and lower total cost of ownership. System commonality, purposeful design, and service options combine to deliver a rack server solution that can help you better manage your enterprise.

STRONG IT FOUNDATION

RAVE's RR-1640 is a key building block for today's data center. Designed for versatility and high performance, it provides many of the virtualization, system management, and energy-efficiency features you need now and the scalability necessary to change as your business grows. This general-purpose Intel®-based 2-socket 1U server is ideal for corporate data centers and remote sites that require a dense, highly available single- or dual-processor server at an excellent value.

ENHANCED VIRTUALIZATION

Featuring Intel® Xeon®-based architecture, embedded hypervisors, expanded memory footprint, and I/O, the RR-1640 delivers exceptional overall system performance and significant virtual machine-per-server capacity versus the previous generation. 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

RAVE's advanced thermal control helps optimize performance while minimizing system power consumption, ultimately driving energy efficiency across our latest core data center servers. These enhancements, over previous generations, 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 is designed to deliver optimal performance at minimum system and fan power consumption resulting in our quietest mainstream 1U servers to date.

PURPOSEFUL DESIGN

The RR-1640 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.

Main: (800) 966-7283
Fax: (586) 939-7431
7171 Sterling Ponds Court
Sterling Heights, MI 48312
www.rave.com

RR-1640

FEATURES	RAVE RR-1640
Form Factor	1U rack height
Processors	Up to two Quad-Core or Dual-Core Intel® Xeon® Processor 5500 Series
Processor Sockets	2
Interconnect	Intel® QuickPath Interconnect (QPI)
L2/L3 Cache	4MB and 8MB
Chipset	Intel 5520 (Tylersberg)
Memory	Up 96GB (12 DIMM slots/6 per-processor): 1GB/2GB/4GB/8GB DDR3 800MHz, 1066MHz or 1333MHz
I/O Slots	Two x8 Gen2 slots
Drive Controller	PERC6/i or SAS6/iR, PERC 5/E and PERC 6/E
RAID Controller	Optional PERC 6/i integrated SAS/SATA daughtercard controller with 256MB cache, PERC 5/e adapter, PERC 6/i and SAS 6/iR PERC 6i utilizing battery backed 256MB DDRII 667
Drive Bays	Internal hard drive bay and hot-plug backplane. Up to six 2.5" SAS, or SSD Drives
Maximum Internal Storage	
Hard Drives	2.5" SAS (15K RPM): 73GB, 146GB, 300GB 2.5" SAS (10K RPM): 73GB, 146GB, 300GB 2.5" SSD: 25GB, 50GB
Network Interface Cards	Two dual port embedded Broadcom® NetXtreme II™ 5709c Gigabit Ethernet NIC with failover and load balancing. Optional 1GBe and 10GBe add-in NICs
Power Supply	Two hot-plug high-efficient 502W Energy Smart PSU or two hot-plug 717W High Output PSUs
Availability	DDR3 memory; ECC; hot-plug hard drives; optional hot-plug redundant power supplies; dual embedded NICs with failover and load balancing support; optional PERC6/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	Integrated Matrox G200, 8MB shared video memory
Remote Management	iDRAC6
Systems Management	Dell™ OpenManage™
Fans	Standard redundant cooling
Acoustics	Typically configured* 2.5" chassis in 23 ± 2 Cambient Idle: LwA-UL** = 5.3 bels, LpAm*** = 35 dBA
Rack Support	Support for sliding ReadyRails™ for 4-post Racks and Static ReadyRails™ for 4-post & 2-post Racks
Operating Systems	Microsoft® Windows Server® 2008, with Hyper-V™ Microsoft Windows Storage Server Novell® Netware® Novell SUSE® Linux® Red Hat® Linux® Enterprise Sun® Solaris™
(Optional) Embedded Hypervisors	Citrix® XenServer® Dell Express Edition Citrix XenServer Dell Enterprise Edition VMware® ESXi 3.5

Main: (800) 966-7283
Fax: (586) 939-7431
7171 Sterling Ponds Court
Sterling Heights, MI 48312 R
www.rave.com