

Huawei Tecal RH2285 V2 Rack Server





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Huawei Tecal RH2285 V2 rack server (RH2285 V2 for short) is a new-generation 2 U (87.5 mm or 3.44 in.) rack server developed by Huawei to meet server application requirements of various enterprise services. It features large storage capacity, superb computing performance, flexible scalability, and high reliability.

Product Features

Superb Performance to Enrich Service Applications

- A maximum of two Intel® Xeon® E5-2400 series CPUs are configured, providing a maximum main frequency of 2.3 GHz and a maximum L3 cache of 20 MB. Quad-core, six-core, and eight-core CPUs are configured based on service requirements, providing flexible computing resources.
- A maximum of 12 double data rate 3 (DDR3) 800/1066/1333/1600 MHz registered dual in-line memory modules (RDIMMs) or load-reduced DIMMs (LRDIMMs) are supported, providing a maximum memory capacity of 384 GB. This provides enriched memory resources for virtual applications of servers and improves the virtualization performance.

Flexible Scalability to Support Application Acceleration

- Four Peripheral Component Interconnect Express (PCIe) slots are provided for installing PCIe x8 or PCIe x16 cards, facilitating high-availability input/output (I/O) expansion.
- Huawei E52000 series high-performance solid state disk (SSD) cards and intelligent network interface cards (iNICs) can be installed, improving the storage and network I/O performance and accelerating applications.
- High-performance graphics processing units (GPUs) can be installed, improving the graphics processing performance and floating-point computing performance.

Large Capacity and High Reliability to Enhance Application Stability

- Eight 2.5-inch serial attached SCSI (SAS) or Serial Advanced Technology Attachment (SATA) disks can be installed. Alternatively, twelve 3.5-inch and two 2.5-inch SAS or SATA disks can be installed. Hard disks are hot-swappable, providing a maximum storage capacity of 38 TB. This meets the large storage capacity application requirements of servers.
- The redundant array of independent disks (RAID) technology, an industry-leading storage technology, is used, supporting RAID 0, 1, 10, 5, 50, 6, and 60 and providing a 512 MB or 1 GB cache. Battery backup units (BBUs) and super capacitors can be installed. RAID state transition, RAID

configuration memory, self-diagnosis, and remote Web setting are used to protect data reliability.

- Power supply units (PSUs) and fans work in redundancy mode. Maintenance can be performed without service interruption.
- Multi-level security mechanisms such as the trusted platform module (TPM) and embedded black box are used, ensuring system reliability.

Delicate Design to Improve IT System Efficiency and Reduce Power Consumption

- Hot-swappable PSUs and fans work in redundancy mode, supporting online replacement.
- Two ports for installing an embedded Universal Serial Bus (USB) flash drive and an embedded USB flash memory card are provided, supporting quick operating system startup and embedded virtualization software.
- Web user interfaces (UIs) are provided for managing the access from users, supporting multiple remote management methods such as keyboard, video, and mouse (KVM) over IP, virtual media, remote firmware upgrade, remote startup and shutdown, and resetting.
- The 80 Plus Platinum PSUs are used, providing a maximum efficiency of 94% under 50% load. This reduces the power loss and improves the power utilization.
- The system power consumption is monitored in real time, facilitating the implementation of the comprehensive energy saving policy. The power capping and power control functions are provided for controlling the power consumption. Optimized heat dissipation design and highly efficient fans are used to reduce the power consumption in heat dissipation. Hard disks are not powered on at the same time, and the CPU frequency is degraded, reducing the startup power consumption. Partition-based and intelligent fan speed regulation and intelligent CPU frequency regulation are used, saving energy and reducing power consumption. The preceding technologies help reduce the power consumption of servers.

Technical Specifications

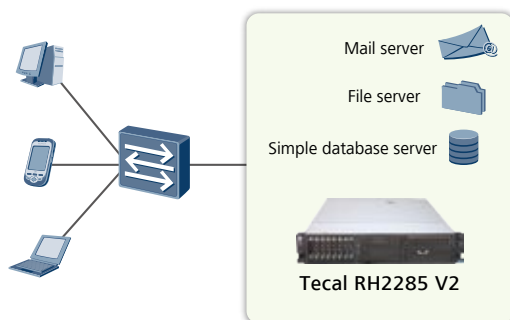
Category	Item	Technical Specification
Entire system	Shelf	Dimensions (H x W x D): 87.5 mm (2 U) x 447 mm x 740 mm (3.44 in. x 17.60 in. x 29.13 in.)
	Power supply	Hot-swappable 80 Plus Platinum PSUs that work in 1+1 redundancy mode, providing 110 V/220 V AC power supply and -48 V DC power supply
Main board	CPU	A maximum of two Intel® Xeon® E5-2400 series CPUs
	DIMM	12 DDR3 800/1066/1333/1600 MHz RDIMM or LRDIMM slots, providing a maximum memory capacity of 384 GB
	Storage	Eight 2.5-inch SAS/SATA disks, or twelve 3.5-inch and two 2.5-inch SAS/SATA disks (hot-swappable) Multiple RAID functions and super capacitors supported
	Network	Two onboard gigabit Ethernet (GE) ports
	I/O expansion	Four PCIe cards supported
Management	Management	<ul style="list-style-type: none"> Integrated with the baseboard management controller (BMC), providing an independent 10/100 Mbit/s out-of-band management network port and supporting the command-line interface (CLI) Intelligent Platform Management Interface (IPMI) 2.0, Simple Network Management Protocol (SNMP) v3, SNMP Trap v1, common information model (CIM), and Web Services for Management (WS-MAN) supported Serial over LAN (SOL), KVM over IP, Web UI, CLI, IPMITools, and virtual media supported Power capping and power control supported Failover supported
Operating system	Operating system	Microsoft Windows Server 2008 SP2 32-bit Microsoft Windows Server 2008 R2 SP1 64-bit Red Hat Enterprise Linux 6. Update 1 Server for x86/Intel EM64T SUSE Linux Enterprise Server 11 Service Pack 1 for x86/Intel EM64T Oracle Enterprise Linux 6.1 Server X86_64 Oracle Server VM 3.0.2 Citrix XenServer 5.6.0 Citrix XenServer 6.0.0 VMware ESXi 4.1.0 VMware ESXi 5.0.0
Certification	Certification	China Compulsory Certification (CCC), Conformity with European (CE), Underwriters Laboratories (UL), and Federal Communications Commission (FCC)

Application Scenarios

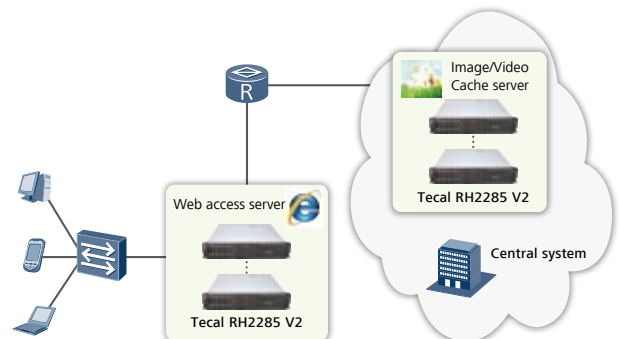
RH2285 V2 applies to the following scenarios:

- Basic enterprise applications such as the mail server, database server, and file server
- Internet applications such as the Web server and online game server

Basic Enterprise Application Scenario



Internet Application Scenario



For more information, you can:



Call 0755-28560000/400-830-2118, contact the local office of Huawei, or access <http://support.huawei.com/support>.



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