HUAWEI Tecal RH2285H V2
Rack Server

Professional • Trusted • Future-oriented

Trademark Notice

, **HUAWEI**, and are trademarks or registered trademarks of Huawei Technologies Co., Ltd.

Other trademarks, product, service and company names mentioned are the property of their respective owners.

General Disclaimer

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base
Bantian Longgang
Shenzhen 518129, P.R. China
Tel: +86-755-28780808
Version No.: M3-035260-20130410-C-2.0

enterprise.huawei.com

HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI Tecal RH2285H V2 Rack Server

(RH2285H V2)

to reduce power consumption for cooling. Hard disks are not powered on at the same time, and the processor frequency is degraded, reducing the startup power consumption. Partition-based, intelligent fan speed adjustment and intelligent CPU frequency adjustment are employed. These combine to decrease power consumption to form a fully green solution.

Superb performance enriches service applications

- Supports two Intel® Xeon® E5-2400 series processors. These 4-core, 6-core, and 8-core processors are configured based on service requirements, providing flexible computing resources.
- Supports 12 DDR3 DIMMs, providing a maximum memory capacity of 384 GB.

Flexible scalability supports application acceleration

- Provides 6 PCIe slots, facilitating high-availability I/O expansion.
- Supports HUAWEI ES series high-performance PCIe SSD cards and intelligent network interface cards (iNICs), which improve storage and network I/O performance and acceleration applications.
- Supports high-performance GPUs, improving graphics processing and floating-point computing performances.

Large capacity and high reliability enhance application stability

- Supports eight 2.5-inch SAS/SATA HDDs or SSDs. Alternatively, twelve 3.5-inch SAS/SATA HDDs and two 2.5-inch SAS/SATA HDDs or SSDs, or twenty-six 2.5-inch SAS/SATA HDDs or SSDs can be installed. Hard disks are hot-swappable. This meets servers' large application storage capacity requirements.
- Uses industry-leading RAID technology, supporting RAID 0, 1, 10, 5, 50, 6 and 60, and provides a 512 MB or 1 GB cache; supports an optional BBU and supercapacitor, RAID state migration, RAID configuration memory, self-diagnosis, and remote Web setting to ensure data reliability.
- Provides multi-level security mechanisms such as the Trusted Platform Module (TPM) and embedded black box function to ensure system reliability.

Elegant design improves IT system efficiency and reduces power consumption

- Supports hot-swappable redundant PSUs and fan modules and online replacement.
- Provides an embedded USB flash drive for quick OS startup and embedded virtualization software.
- Provides WebUIs for managing user access, supporting KVM over IP, virtual media, remote firmware upgrades, startup, shutdown, and reset.
- Uses 80 Plus Platinum PSUs, which provide a power efficiency of 94% under a 50% load, thus reducing power loss and increasing power utilization.
- Monitors system power consumption in real-time, implementing comprehensive energy saving policies. Power capping and power control functions control power consumption.
- Optimized thermal design and highly efficient fan modules are used

Large storage capacity

RH2285H V2 (26 hard disks)

RH2285H V2 (14 hard disks)

RH2285H V2 (8 hard disks)

The Tecal RH2285H V2 rack server (RH2285H V2) is a next-generation 2U 2-socket rack server. Featuring two Intel® Xeon® E5-2400 series processors, the RH2285H V2 provides large storage capacity, flexible scalability, and superb cost-effectiveness, making it an ideal hardware platform for big data and distributed storage applications.

Technical Specifications

Form factor	2U rack server
Number of processors	1 or 2
Processor	Intel® Xeon® E5-2400 series Core options: 4, 6, or 8 Maximum dominant frequency: 2.4 GHz(6 Cores) / 2.3 GHz(8 Cores) L3 cache: up to 20 MB
Memory	12 DDR3 RDIMMs/LRDIMMs, up to 384 GB
Internal storage	Options: • 8 x 2.5" SAS/SATA HDDs or SSDs • 12 x 3.5" SAS/SATA HDDs and 2 x 2.5" SAS/SATA HDDs or SSDs • 26 x 2.5" SAS/SATA HDDs or SSDs
RAID support	RAID 0, 1, 10, 5, 50, 6, and 60 RAID cache: 512 MB or 1 GB Power-off protection: • BBU (3 x 24 hours) • Supercapacitor
LOM network port	2 onboard GE ports or 4 onboard GE ports or 2 onboard 10GE ports
Expansion slot	Up to 6 PCIe slots 1 processor: • 1 PCIe 3.0 x4 • 1 PCIe 2.0 x4 • 1 PCIe slot for a RAID controller card 2 processors: • 1 PCIe 3.0 x4 • 1 PCIe 2.0 x4 • 1 PCIe slot for a RAID controller card • (Optional 1) 1 PCIe 3.0 x16 and 1 PCIe 3.0 x8 • (Optional 2) 3 PCIe 3.0 x8
USB port	6 (front: 2, rear: 2, built-in: 2)
Fan module	Support hot-swappable counter-rotating fan modules in N+1 redundancy mode
PSU	2 hot-swappable 1+1 redundant PSUs: • AC: 460 W or 800 W • −48 V DC: 800 W
Management	UEFI, Huawei iMana support IPMI, SOL, KVM over IP, and virtual media One 10/100 Mbit/s RJ45 management network port
Operating systems supported	Microsoft Windows Server Red Hat Enterprise Linux SUSE Linux Enterprise Server Oracle Enterprise Linux / Oracle Server VM Solaris CentOS Citrix XenServer VMware ESX / VMware ESXi
Power supply	110 V/220 V AC or −48 V DC
Operating temperature	5°C–40°C (41°F–104°F)
Dimensions	Height: 87.5 mm (3.44 in.) Width: 447 mm (17.60 in.) Depth: 740 mm (29.13 in.)