

HUAWEI Tecal RH5885 V2 Rack Server





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HUAWEI TECHNOLOGIES CO., LTD.



HUAWEI Tecal RH5885 V2 Rack Server

(RH5885 V2)

Powerful processing performance

- The 4-socket RH5885 V2 (scalable to 8 sockets) supports Intel® Xeon® E7-8800/4800 series 6-core, 8-core, or 10-core processors, each with a maximum frequency of 2.66 GHz and a maximum L3 cache of 30 MB.
- Four QuickPath Interconnect (QPI) buses connect processors and input/output hubs (IOHs), providing a maximum unidirectional transmission rate of 6.4GT/s.
- The RH5885 V2 supports up to two high performance GPUs, significantly improving its graphic processing and floating-point computing performances.
- The RH5885 V2 supports HUAWEI PCIe SSD cards to eliminate system I/O bottlenecks.

Flexible scalability

- Scalable to eight sockets using Huawei QPI cables.
- Supports 64 RDIMMs that provide 2 TB memory for four sockets, and 128 RDIMMs that provide 4 TB memory for eight sockets
- Provides nine PCIe 2.0 slots
- Offers optional onboard Ethernet configurations: four GE ports or two 10GE ports

High reliability with 35 fault-tolerant features

- Hot-swappable, 1+1 redundant PSUs
- Hot-swappable, N+1 redundant fan modules
- Hot-swappable PCIe cards
- Memory mirroring, and failed DIMM isolation
- Scalable Memory Interconnect (SMI) protection:
 - SMI packet retry
 - SMI lane failover
- QPI data transmission enhancement features:
 - Cyclic redundancy check (CRC) on the QPI links
 - QPI packet retry
 - QPI clock failover
- Black box function helps locate faults after unexpected system breakdowns

Easy maintenance

The RH5885 V2 adopts a modular design, simplifying maintenance and reducing downtime due to upgrades and component replacement. Most of the components can be maintained without opening the chassis cover. The swap time of each component is less than 1 minute. The swappable modules include:



RH5885 V2 (4 sockets)



RH5885 V2 (8 sockets)

The Huawei Tecal RH5885 V2 is a high performance 4-socket or 8-socket rack server. It supports Intel® Xeon® E7-8800/4800 series processors and can accommodate up to 80 cores with 4 TB memory. It offers enhanced system reliability thanks to its 35 RAS features. The RH5885 V2 is an ideal choice for deploying mission-critical applications such as large-scale databases, business intelligence analysis and ERP.

- Highly efficient PSUs (hot-swappable)
- PCIe devices (hot-swappable)
- Hard disks (hot-swappable)
- Fan modules (hot-swappable)
- QPI cables, BMC module, LOM cards, and DIMMs

Environmental protection

- Platinum PSUs with a power conversion rate of 94%
- Smart fan speed and processor frequency adjustment
- Real-time power consumption monitoring
- Smart hard disk power management

Technical Specifications

	RH5885 V2 (4 sockets)	RH5885 V2 (8 sockets)
Form factor	4U rack server	8U rack server
Number of processors	2 or 4	8
Processor model	Intel® Xeon® E7-8800/4800 series Core options: 6, 8, or 10 L3 cache: up to 30 MB	Intel® Xeon® E7-8800 series Core options: 8 or 10 L3 cache: up to 30 MB
Memory	64 DDR3 DIMMs, up to 2 TB	128 DDR3 DIMMs, up to 4 TB
Internal storage	8 x 2.5" SAS/SATA HDDs or SSDs and two rear 2.5" SATA HDDs	16 x 2.5" SAS/SATA HDDs or SSDs
RAID support	RAID 0, 1, 10, 5, 50, 6, 60 Cache: 1 GB (Optional) BBU	RAID 0, 1, 10, 5, 50, 6, 60 Cache: 1 GB (Optional) BBU
LOM network port	4 x GE ports or 2 x 10GE ports	8 x GE ports or 4 x 10GE ports
Expansion slot	9 PCIe 2.0 slots	16 PCIe 2.0 slots
USB port	5 (front: 2, rear: 2, built-in: 1)	5 (front: 2, rear: 2, built-in: 1)
Fan module	6 hot-swappable counter-rotating fan modules, N+1 redundant	12 hot-swappable counter-rotating fan modules, N+1 redundant
PSU	2 hot-swappable PSUs, 1+1 redundant	4 hot-swappable PSUs, 1+1 redundant
Management	Built-in BMC IPMI 2.0, SNMP v3, SNMP Trap v1, CIM, and WS-MAN SOL, KVM over IP, Web UI, CLI, IPMI tools, and virtual media Black box function	
Operating systems supported	Red Hat Enterprise Linux 6. Update 1 Server for x86/Intel EM64T Red Hat Enterprise Linux 5. Update 6 Server for x86/Intel EM64T SUSE Linux Enterprise Server 11 Service Pack 1 for x86/Intel EM64T Windows Server 2012 Windows Server 2008, R2 SP1 64-bit Citrix XenServer 6.0.0 VMware ESXi 4.1.0 & VMware ESXi 5.0.0	
Power supply	110 V or 220 V AC	
Operating temperature	5°C to 35°C	
Dimensions	Height: 176 mm (6.93 in.) Width: 447 mm (17.60 in.) Depth: 790 mm (31.10 in.)	Height: 352 mm (13.86 in.) Width: 447 mm (17.60 in.) Depth: 790 mm (31.10 in.)