

# HUAWEI FusionServer RH2288H V3



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HUAWEI TECHNOLOGIES CO., LTD.



# HUAWEI FusionServer RH2288H V3

The HUAWEI FusionServer RH2288H V3 (RH2288H V3 for short) is a new-generation 2U dual-socket rack server. It provides flexible resource expansion capabilities as well as high computing performance. It is an ideal choice for Internet, big data, cloud computing, high-performance computing (HPC), and enterprise key applications.

- Provides large local storage space to quickly respond to fast data increase
- Supports up to two high-performance processors to implement efficient computing.
- Ensures high energy efficiency by using intelligent fine-grained power control technologies.
- Provides a touchscreen management panel to facilitate management.

## High performance allows rapid respond to business growth

- Supports up to two Intel® Xeon® E5-2600 v3 processors. Each processor supports a maximum of 18 cores and provides two 9.6 GT/s QuickPath Interconnect (QPI) links between processors.
- Supports up to twenty-four 2133 MHz DDR4 DIMMs to provide a maximum memory capacity of 1.5 TB.
- Provides up to nine PCIe slots and two dual-slot high-performance GPUs, offering extraordinary floating-point arithmetic capability.
- Provides I/O performance surpassing traditional hard disks when used with Huawei PCIe SSD cards.

## Intelligent power control increases energy efficiency

- Uses 80 Plus Platinum power supply units (PSUs), meeting Energy Star specifications.
- Uses the dynamic energy management technology (DEMT) to adjust server operating status dynamically and limit the power consumption to an optimal level.
- Uses power capping to allocate cooling and power supply resources on demand, and increase resource utilization and deployment density without affecting services.
- Supports high-voltage DC power supplies, preventing conversion between AC and DC power supplies and minimizing the power loss in power conversion.
- Uses proportion integration differentiation (PID) to control heat dissipation and speed adjustment policies, implements stepless speed regulation and on-demand allocation of heat dissipation resources, minimizing power consumption and noise.

## Efficient management and maintenance

- Provides a touchscreen liquid crystal display (LCD) to facilitate equipment operation and management.
- Provides a data recorder, similar to a flight recorder, to facilitate fault locating when the server collapses.
- Uses an independent iBMC module to implement Serial over LAN (SOL), remote KVM, and functions such as remote startup and shutdown of the server.

## Flexible configuration and expansion of local storage

- Provides a maximum of sixteen 3.5-inch hard disks or twenty-eight 2.5-inch hard disks.
- Offers a wide range of hard disk enclosures and RAID controllers, allowing flexible configuration on demand.
- Cope with big data challenges by supporting the latest 12G SAS, which provides 1x higher bandwidth than the 6G SAS.



RH2288H V3	
Form factor	2U rack server
Number of processors	1 or 2
Processor model	Intel® Xeon® E5-2600 v3 series processor
Number of memory slots	24 slots for DDR4 RDIMMs or LRDIMMs
Maximum local storage	Supports the following hard disk configurations: <ul style="list-style-type: none"> <li>• Eight front 2.5-inch SSDs or SAS or SATA HDDs</li> <li>• Ten front 3.5-inch SATA HDDs</li> <li>• Twelve front 3.5-inch SAS or SATA HDDs and two rear hard disk modules. Each module provides two 2.5-inch SSDs or SAS or SATA HDDs or 3.5-inch SAS or SATA HDDs.</li> <li>• Twenty-five front 2.5-inch SSDs or SAS or SATA HDDs and two or three rear 2.5-inch SSDs or SAS or SATA HDDs</li> </ul> Supports built-in Flash: <ul style="list-style-type: none"> <li>• Two Mini SSDs (SATA DOM)</li> <li>• Two SD card</li> </ul>
RAID	Supports RAID 0, 1, 10, 5, 50, 6, and 60 Uses a supercapacitor to protect RAID cache data from power failures Supports RAID state migration, configuration memory, self-diagnosis, and web-based remote configuration
Network ports	Supports the following network configurations: <ul style="list-style-type: none"> <li>• Two GE electrical ports, supporting Network Controller Sideband Interface (NC-SI), WOL, and PXE</li> <li>• Four GE electrical ports, supporting NC-SI, WOL, and PXE</li> <li>• Two 10GE optical ports, supporting NC-SI and PXE</li> <li>• Two 10GE electrical ports, supporting NC-SI, WOL, and PXE</li> </ul>
PCIe expansion	Supports a maximum of 9 PCIe slots
Fan	Hot-swappable fan modules in N+1 redundancy
Power supply	2 hot-swappable power supplies in 1+1 redundancy
Management	The on-board iBMC module supports Intelligent Platform Management Interface (IPMI), SOL, KVM over IP, and virtual media, and provides a 1 Gbit/s RJ45 management network port supporting NC-SI.
Supported OSs	CentOS Citrix XenServer Microsoft Windows Server Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi
Operating temperature	5°C to 45°C (41°F to 113°F)
Certification	CE, UL, FCC, CCC, and RoHS
Installation suite	Guide rails Holding rails and cable management arm (optional)
Dimensions (W x D x H)	RH2288H V3 with 3.5-inch hard disks: 447 mm x 748 mm x 86.1 mm (17.60 in. x 29.45 in. x 3.39 in.) RH2288H V3 with 2.5-inch hard disks: 447 mm x 708 mm x 86.1 mm (17.60 in. x 27.84 in. x 3.39 in.)