HUAWEI FusionServer
RH2288 V3

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HUAWEI FusionServer RH2288 V3

The HUAWEI FusionServer RH2288 V3 (RH2288 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, and enterprise key applications.

- Provides large local storage space to quickly respond to fast data increase.
- Ensures high energy efficiency by using intelligent fine-grained power control technologies.
- Provides a LED digital management panel to open the era of digital management.

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.

High performance allows rapid respond to business growth

- Supports up to two Intel® Xeon® E5-2600 v3/v4 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 sixteen 2400 MT/s DDR4 DIMMs to provide a maximum memory capacity of 1 TB.
- Provides up to six PCIe slots, offering the space for I/O extension.
- Provides I/O performance surpassing traditional hard disks when used with Huawei PCIe SSD cards and NVMe SSD disks.

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

- Providing digital LED fault diagnostics panel, so the device management more accurate and more convenient
- 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.

RH2288 V3
(8 hard disks)

RH2288 V3
(25 hard disks)

RH2288 V3
(10 hard disks)

RH2288 V3
(12 hard disks)

RH2288 V3	
Form factor	2U rack server
Number of processors	1 or 2
Processor model	Intel® Xeon® E5-2600 v3/v4 series processor
Number of memory slots	16 slots for DDR4 RDIMMs or LRDIMMs
Maximum local storage	Supports the following hard disk configurations: • Eight front 2.5-inch SSDs or SAS or SATA HDDs • Ten front 3.5-inch SATA HDDs • Twelve front 3.5-inch SAS or SATA HDDs (NVMe model supports four 3.5-inch NVMe SSD disks) 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. • 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 Supports built-in Flash: • Two Mini SSDs (SATA DOM) • Two SD card
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: • Two GE electrical ports, supporting Network Controller Sideband Interface (NC-SI), WOL, and PXE • Four GE electrical ports, supporting NC-SI, WOL, and PXE • Two 10GE optical ports, supporting NC-SI and PXE • Two 10GE electrical ports, supporting NC-SI, WOL, and PXE
PCIe expansion	Supports a maximum of 6 PCIe slots (NVMe model supports up to 5 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)	RH2288 V3 with 3.5-inch hard disks: 447 mm × 748 mm x 86.1 mm (17.60 in. x 29.45 in. x 3.39 in.) RH2288 V3 with 2.5-inch hard disks: 447 mm × 708 mm x 86.1 mm (17.60 in. x 27.84 in. x 3.39 in.)