HUAWEI FusionServer
RH1288 V3

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HUAWEI TECHNOLOGIES CO., LTD.

HUAWEI FusionServer RH1288 V3

RH1288 V3 (4 hard disks)

RH1288 V3 (8 hard disks)

The HUAWEI FusionServer RH1288 V3 (RH1288 V3 for short) is a new-generation 1U dual-socket rack server. It achieves optimal balance of performance and density owing to optimal design. It is an ideal choice for enterprise computing-intensive applications, enterprise applications requiring both computing and storage resources, and cloud computing applications.

The RH1288 V3 servers provide the following features:

- High density and space-saving
- Integrated device management solution
- Flexible network configuration

New-generation E5-2600 v3 processors allow high performance

- Supports up to two Intel® Xeon® E5-2600 v3 processors. Each processor supports a maximum of 16 cores, a L3 cache of 40 MB, and 9.6 GT/s QuickPath Interconnect (QPI) speed.
- Supports up to sixteen 2133 MHz DDR4 DIMMs to provide a maximum memory capacity of 1 TB, meeting requirements of memory-demanding applications.
- Offers flexible networking. The server provides two or four GE ports or two 10GE ports without occupying PCIe slots, improving network availability.

Fine-grained power control improves emergency efficiency

- Uses 80 Plus Platinum power supply units (PSUs), meeting Energy Star specifications.
- Supports 460 W, 750 W, 800 W, and 1200 W PSUs, increasing energy efficiency.
- Uses temperature sensors in key components to monitor temperature in real time, and the fan modules implement intelligent speed adjustment based on the temperature to improve heat dissipation efficiency.
- Uses dynamic power conservation and power capping to safely limit the maximum server power consumption to a specified level without affecting services.

Professional management module provides comprehensive management

- Uses an independent iBMC module to implement Serial over LAN (SOL), remote KVM, and functions such as remote server startup and shutdown.
- Provides a wide variety of management interfaces, including the IPMI, CLI, HTTPS, SNMP, and WSMAN interfaces to facilitate integration with third-party systems.

Accurate fault locating facilitates efficient O&M

- Provides the "black box" function, similar to a flight recorder, to facilitate fault locating when the server collapses.
- Provides error codes through the server front panel to help fault locating.

RH1288 V3	
Form factor	1U rack server
Number of processors	1 or 2
Processor model	Intel Xeon E5-2600 v3 series processors
Memory	16 slots for DDR4 RDIMMs or LRDIMMs
Local storage	Supports two types of hard disk configurations: • Eight 2.5-inch SSDs or SAS or SATA HDDs • Four 3.5-inch SAS or SATA HDDs Supports Flash storage: • 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, RAID configuration memory, self-diagnosis, and remote web setting
Network ports	Provides two or four GE ports or two 10GE ports
PCIe expansion	Provides up to three PCIe slots
Fan	5 hot-swappable fan modules in N+1 redundancy. Each fan module has two counter-rotating fans.
PSU	Can be configured with two hot-swappable PSUs in redundancy and supports N+1 redundancy. The server supports the following PSUs: • 460 W or 750 W AC or DC PSU • 800 W –48 V DC PSU • 1200 W high-voltage DC PSU
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 Network Controller Sideband Interface (NC-SI).
Supported OSs	CentOS Citrix XenServer Microsoft Windows Server Red Hat Enterprise Linux SUSE Linux Enterprise Server VMware ESXi
Power supply	110 V to 220 V AC 240 V to 380 V DC –48 V DC
Operating temperature	5°C to 45°C (41°F to 113°F) NOTE: The RH1288 V3 servers operating at 45°C do not support SSDs, and the fault of one fan may affect CPU performance.
Certification	CE, UL, FCC, CCC, and RoHS
Installation suite	Guide rails Adjustable holding rails
Dimensions (W x D x H)	RH1288 V3 with 3.5-inch hard disks: 447 mm x 750 mm x 43.6 mm (17.60 in. x 29.53 in. x 1.72 in.) RH1288 V3 with 2.5-inch hard disks: 447 mm x 710 mm x 43.6 mm (17.60 in. x 27.95 in. x 1.72 in.)