Huawei FusionServer
RH8100 V3

HUAWEI TECHNOLOGIES CO., LTD.

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Huawei FusionServer RH8100 V3 (RH8100 V3 for short) is a brand-new server, supporting up to eight Intel® Xeon® E7-8800 v3 or v4 series processors. RH8100 V3 applies the leading architecture, provides advanced computing and expanding capabilities. Up to 60 RAS features ensure the system stability and reliability. For mission-critical applications, either single instance database or cluster of multiple 8-socket servers, RH8100 V3 is the best choice.

60 RAS Features, Reliability Comparable to Unix Server

- With leading technology of memory migration, supports replacing memory modules without a shutdown.
- Supports various memory RAS technologies, such as memory PFA, error checking and correcting (ECC), double device data correction (DDDC and DDDC+1), mirroring and sparing.
- FusionPar (Huawei Server Hard Partition) function is able to divide RH8100 V3 into two 4-socket servers, which can flexibly meet the demands of businesses, enhance efficiency, and protect investments.
- The critical links support error-tolerance and packet retry, including the QPI (CPU to CPU) and SMI2 (CPU to memory buffer), both types support error packet retry, even lane failover function, and other features.
- Redundancy system design, such as BIOS Flash, RAID card, management software, fan modules, and PSUs.
- All on-line maintenance capability supports online exchange among memory, PCIe cards, hard disks, fan modules, PSUs, DVD, etc.
- Excellent structural and thermal design supports long-term stable operation at 40°C (104°F).

Superb Performance and Strong Expandability

- Supports eight Intel® Xeon® E7-8800 v3/v4 series processors, up to 192 cores, the computing performance is increased by 100% compared with the previous-generation server.
- Supports 192 DIMMs, up to 12TB, the maximum memory capacity increases by 200%.
- Supports 8,12,or 24 HDDs, providing large local storage. When RH8100 V3 is configured as SAP HANA appliance, it doesn't need any external JBOD.
- Up to 18 PCIe slots, including two for RAID controllers, supports I/O-intensive applications; by deploying 12 Huawei ES3000 SSD memory cards, expands up to 38.4TB of high-speed flash memory.

Modular Design, Easy Maintenance and Smooth Upgrades

- The entire server is built up by modular blocks, convenient to maintain and upgrade to the future processor and memory etc. High-speed I/O design support next generation 40G/100G ethernet, easy to deal with big-data and high-bandwidth.
- Huawei self-developed Hi1710 BMC chip, which provides comprehensive remote device management, monitoring, configuration, fault location and analysis.
- Supports tool-free installation and maintenance, streamlining operation procedures and shortening the time for equipment deployment and maintenance.

RH8100 V3	
Form factor	8U rack server
Number of processors	8 or 4
Processor model	Intel® Xeon® E7-8800 v3/v4 series processors
Memory	192 DIMMs, up to 12TB
Internal storage	Options: • 8 x 2.5" SAS/SATA HDDs or SSDs • 12 x 2.5" SAS/SATA HDDs or SSDs • 24 x 2.5" SAS/SATA HDDs or SSDs • 8 x 2.5" NVMe HDDs
RAID support	RAID 0, 1, 10, 5, 50, 6, and 60
LOM network port	Up to 8 × GE ports or 4 × 10GE ports
Expansion slot	Up to 18 PCIe slots (including two for RAID)
Fan module	8 hot-swappable fan modules, N+1 redundant
PSU	4 hot-swappable PSUs: 2500W or 3000W
Management	Built-in iBMC management module Supports standard protocols SNMP and IPMI, and Huawei eSight management software Provides one-stop management and remote KVM, integrates touch LCD diagnose panel
Operating systems supported	Microsoft Windows Sever; Red Hat Enterprise Linux; SUSE Linux Enterprise Server; Oracle Enterprise Linux; Kylin Linux; Citrix XenServer; VMware ESXi; Huawei FusionSphere
Power supply	110V or 220V AC, or 48V DC
Operating temperature	5°C-40°C (ASHRAE Class A3 compliant)
Dimensions	Height: 352 mm (13.86 in.) Width: 447 mm (17.60 in.) Depth: 855 mm (33.66 in.)