

# HUAWEI RH8100 V3 Server



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## 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 v2 series processors, up to 120 cores, the computing performance is increased by 100% compared with the previous-generation server.
- Supports 192 DDR3 DIMMs, up to 12TB, the maximum memory capacity increases by 200%.
- Supports ultra-low latency Memory-Flash technology, 50% less latency versus the existing PCIe-Flash technology.
- Up to 16 PCIe 3.0 slots, 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**

Huawei RH8100 V3 (RH8100 V3 for short) is a brand-new server, supporting up to eight Intel® Xeon® E7-8800 v2 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.

## Technical Specifications


Form factor	8U rack server
Number of processors	8 or 4
Processor model	Intel® Xeon® E7-8800 v2 series processors
Memory	192 DDR3 DIMMs, up to 12TB
Internal storage	Options: <ul style="list-style-type: none"> <li>• 12x 2.5" SAS/SATA HDDs or SSDs</li> <li>• 24x 2.5" SAS/SATA HDDs or SSDs</li> </ul>
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 16 PCIe slots
Fan module	8 hot-swappable fan modules, N+1 redundant
PSU	4 hot-swappable PSUs: 2500W or 3000W
Management	Built-in the HUAWEI PME management solution, supports standard protocols SNMP and IPMI, and HUAWEI eSight management software, provides one-stop management service, remote 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
Product Certification	CE, UL, FCC, CCC and RoHS

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