R815 1U Dual-Socket Rack Server

The R815 is a 1U dual-socket high-density rack server equipped with 4th/5th Gen Intel® Xeon® Scalable processors. It integrates performance, density, and scalability to double data center computing density and space utilization, significantly reducing operational costs. Ideal for cloud computing and data processing scenarios.



Extreme Performance with Ultra-High Density

Specifications

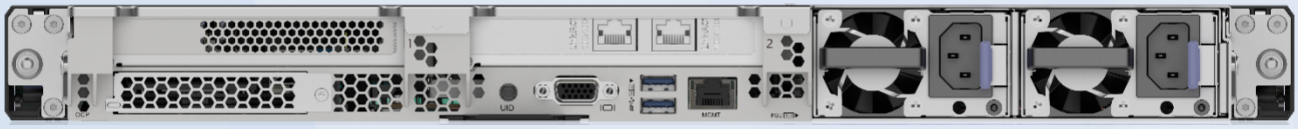
Model	R815
Processor	Supports 2*4th/5th Gen Intel® Xeon® Scalable Processors.
Memory	32*DDR5 slots, up to 5600MHz. Supports memory mirroring, hot spare, fault isolation, and XL expansion (additional 16 slots).
Raid	Supports BCM 95 series RAID cards.
Local Storage	Max 4*3.5" or 10*2.5" hot-swappable drives (NVMe compatible). Internal: 2*SATA/PCIe M.2, 1 *onboard EMMC.
Network Interfaces	1*OCP 3.0 slot with NCSI. Optional OCP 3.0 interfaces: 2* 1GE, 2* 10GE, 2*25GE, 2* 100GE, 2*200GE.
PCIe Expansion	2*PCIe 5.0 slots + 1*OCP 3.0 slot.
Additional Interfaces	Rear: 1*RJ-45 management port, 2*USB 3.0, 1*VGA. Front: 2*USB 3.0. Internal: 1*USB 3.0.
Power Supply	1300W/2000W/2200W CRPS Platinum PSU (hot-swappable, 1+1 redundant). Voltage: 100~240Vac (refer to nameplate).
Fans	8*hot-swappable fans (N+1 redundancy).

Management	Integrated BMC with 1Gbps RJ-45 port. Supports Redfish, SNMP, IPMI 2.0, HTML5/iK VM remote control. BMC dual-flash backup.
OS Support	Windows Server, RHEL, SLES, CentOS, Ubuntu, VMware ESXi, Kylin, RedFlag, etc.
Operating Temperature	5℃ ~ 45℃
Chassis Dimensions	796mm (L)*435mm (W)*43mm (H).
Packaging Dimensions	1000mm (L)*600mm (W)*260mm (H).
Weight	Max 25kg (varies by configuration).

Product View



4*3.5-inch hard drives model



Optional 4-disk or 10-disk chassis, supporting 4 x 3.5-inch hard drives or 10 x2.5-inch hard drives.

It supports 2 *16 slots and one OCP slot.

Product Features

High-density deployments

1U space supports 2 Intel® Xeon®4/5th processors,32 DDR5 memory with a maximum speed of 5600MHz, high-speed flash memory for multiplied performance, Strong expandability, rear 2*PCIe 5.0 slots + 1*OCP 3.0 slots.

Safe and Reliable, Efficient Energy Saving

Maintenance efficiency is increased by 60%, PCIe link is accurately diagnosed, PCIe link faults are quickly diagnosed, system downtime is reduced by 70%, and memory link is accurately diagnosed.

Featuring industry-leading power supply technology, the server achieves top-tier power conversion efficiency, with power loss 12.5% lower than the industry average and delivering up to 8% higher energy savings versus standard industry products. Proprietary algorithms optimize fan and CPU power consumption to the minimum. Equipped with intelligent service awareness and dynamic load adjustment capabilities, it dynamically tunes CPU operating frequency according to real-time business workloads.

Intelligent O&M

Delivering 20× higher upgrade efficiency, the tool-free design enables fast component assembly and disassembly to shorten O&M time. Out-of-band visual management supports precise remote localization of physical device status and information, enabling intelligent full-lifecycle services for the product.