



Flagship Versatile Server EC-R620 G50

Product Description

The EC-R620 G50 is a premium 2U rack server powered by 4th/5th Gen Intel® Xeon® Scalable processors. Designed for flexible resource allocation to meet diverse industry demands, it excels in cloud computing, HPC, cloud storage, big data, virtualization, enterprise systems, and more.

Key Features and Highlights

Extreme Performance with Scalability

- Supports 2*4th/5th Gen Intel® Xeon® Scalable processors, up to 64 cores per CPU for unparalleled computing power.
- 32*DDR5 DIMM slots, 5600MHz max frequency, 75% memory bandwidth increase.
- Up to 20*3.5" or 43*2.5" drives, NVMe SSD compatibility for customizable storage.
- Flexible expansion with OCP NICs and PCIe slots (supports PCIe 5.0, 100% faster transfer rates).

Simplified Operations and Intelligent Management

- Tool-Free Maintenance Design: Quick installation/removal of peripherals, minimizing downtime.
- Out-of-Band Visual Management: Remote physical device tracking for optimized efficiency.
- Automatic Logging: Real-time log viewing/download for precise fault diagnosis.
- Health Monitoring: Proactive status reporting for key components, enabling full lifecycle management.

Energy Efficiency and Advanced Cooling

- 15% Increased Airflow Area: Enhances cooling efficiency by 8%.
- Triple-Speed Dynamic Cooling: Adjusts fan speeds based on temperature and workload for optimal energy savings.
- Patented Custom Fans: 30% higher airflow, 15% lower power consumption, and 10% noise reduction.



Product Specifications

Processor	Supports 2*4th/5th Gen Intel® Xeon® Scalable Processors (TDP 385W).
Memory	32*DDR5 slots, up to 5600MHz. Supports memory mirroring, hot spare, fault isolation, and CXL expansion (additional 16 slots).
Storage Controller	Supports RAID 0/1/10/5/50/6/60. Features 4G/8G cache supercapacitor protection, disk roaming, remote Web configuration, secure boot, solid-state algorithms, and serial port remote debug.
Local Storage	Max 20*3.5" or 43*2.5" drives (36x NVMe compatible). Internal: 2*SATA/PCIe M.2, 1*onboard eMMC. Onboard support for 16*SATA drives (no external controller required).
Network Interfaces	1*OCP 3.0 slot with NCSI. Optional interfaces: 2*1GE, 2*10GE, 2*25GE, 2*100GE, 2*200GE.
PCIe Expansion	17*PCIe 5.0 slots + 2*OCP 3.0 slots.
Additional Interfaces	Rear: 1*RJ-45 management port, 2*USB 3.0, 1*VGA. Front: Optional 2*USB 3.0 + VGA or USB 2.0. Internal: 1*USB 3.0.
Power Supply	800W/1300W/2000W/2700W CRPS Titanium/Platinum PSU (hot-swappable, 1+1 redundant). Voltage: 100-240Vac (refer to nameplate).
Fans	6*hot-swappable fans (N+2 redundancy).
Management	Integrated BMC with 1Gbps RJ-45 port. Supports Redfish, SNMP, IPMI 2.0, HTML5/iKVM remote control. BMC dual-flash backup.
OS Support	Windows Server, RHEL, SLES, CentOS, Ubuntu, VMware ESXi, Kylin, RedFlag, etc.
Operating Temperature	5°C ~ 45°C
Chassis Dimensions	770mm (L)*446mm (W) (without ears) / 482mm (W) (with ears) *87mm (H).
Packaging Dimensions	1000mm (L)*600mm (W)*260mm (H).
Weight	Max 40kg (varies by configuration).