



## Flagship Rack Server EC-R620 G40

### Product Description

The EC-R620 G40 is a flagship 2U rack server designed to maximize the utilization of compute, storage, and network resources within limited space. It offers flexible resource configuration to meet varying business requirements, delivering outstanding cost-performance and energy efficiency. This server is widely applicable in industries such as Internet services, finance, telecommunications, and transportation, supporting diverse business models.

### Key Features and Highlights

#### Cutting-Edge Performance on a New Platform

- Accommodates dual 3rd Generation Intel® Xeon® Scalable processors, with power ratings up to 270W each.
- Employs a new 3\*UPI interconnect with a bus bandwidth of up to 11.2 GT/s, ensuring robust computing performance.
- Supports DDR4 memory up to 3200MHz with a 45% improvement in memory bandwidth compared to previous generations. Protection modes include ECC, memory mirroring, and hot spare.
- Fully supports PCIe 4.0, doubling the transmission rate compared to previous standards.

#### Flexible Configuration for Diverse Workloads

- Hardware modular decoupling enables flexible configuration of computing, networking, and storage to meet diverse business needs.
- Supports up to 12\*3.5" or 32\*2.5" drives, compatible with NVMe SSDs, allowing full customization of storage resources.
- Flexibly expands OCP network cards and PCIe add-in cards for on-demand network resource allocation.

#### Intelligent Management & Green Energy Efficiency

- Designed for large-scale data center deployment, providing an open management platform with comprehensive support for multiple management protocols, including RedFish, IPMI, and SNMP.
- Further optimizes O&M efficiency by offering health status monitoring and reporting for critical components, enabling intelligent lifecycle management.
- Embraces green energy efficiency demands with an advanced intelligent speed adjustment design, dynamically optimizing cooling based on environmental temperature and real-time workload conditions to reduce overall power consumption without compromising performance.



## Product Specifications

|                             |  |
|-----------------------------|--|
| Chassis Size                | 2U Rack Server.  |
| Processor                   | Supports dual 3rd Generation Intel® Xeon® Scalable processors, up to 270W each.  |
| Chipset                     | Intel C621A Series   |
| Memory                      | 32*DDR4 DIMM slots, up to 3200MHz; supports ECC, memory mirroring, and hot spare modes.  |
| Storage Controller          | Supports passthrough, RAID 0, 1, 10, 5, 50, 6, and 60.<br>With RAID controller, supports cache supercapacitor protection, RAID level migration, disk roaming, self-diagnostics, and web-based remote configuration.  |
| Storage Options             | Front: Up to 12*3.5-inch or 24*2.5-inch drives; supports up to 24*NVMe drives with hot-plug functionality.<br>Rear: Up to 4*3.5-inch and 4*2.5-inch drives; supports up to 4*NVMe drives with hot-plug functionality.<br>Internal: 2*SATA M.2 slots and 1*onboard eMMC chip. |
| Network Interfaces          | 1*OCP 3.0 slot with NCSI functionality; configurable with options: 2*1GbE, 2*10GbE, 2*25GbE, 2*100GbE, or 2*200GbE.  |
| PCIe Expansion              | Up to 10*PCIe expansion slots, including 1*dedicated RAID controller slot and 1*OCP slot; supports 8*PCIe 4.0 slots (configuration-dependent).   |
| I/O Interfaces              | 1*RJ-45 management port (rear); 2*USB 3.0 ports on the rear plus 1*built-in USB 3.0 port; optional 2*USB 3.0/2.0 ports on the front; 1*VGA port (rear, with optional front VGA support); optional 1*serial port (rear).  |
| Power Supply                | 800W, 1200W, 1300W, or 1600W CRPS hot-plug platinum-rated power supplies supporting 1+1 redundancy; input voltage range: 100-240V AC (per nameplate).  |
| Cooling                     | 4*hot-plug fan modules, supporting N+1 redundancy.   |
| Management & Monitoring     | Integrated BMC with 1Gbps RJ-45 management port; supports Redfish, SNMP, and IPMI 2.0; remote management via IKVM/HTML5.   |
| Graphics                    | Integrated display controller, supporting up to 1920x1080 resolution.  |
| Supported Operating Systems | Microsoft Windows Server, RedHat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Ubuntu, VMware ESXi, etc.   |
| Operating Temperature       | 5°C ~ 45°C   |
| Chassis Dimensions          | 87.8mm (H)*446mm (W)*794mm (D).  |
| Packaging Dimensions        | 260mm (H)*600mm (W)*1000mm (D).  |
| Weight                      | Max 35kg (varies by configuration).  |