



■ Overview

The Rubisec RS-SRV-4U2S-G3 Series is a high-performance 4U dual-socket rack server designed for modern data centers and enterprise workloads. It supports one or two 4th and 5th Gen Intel® Xeon® Scalable processors, delivering strong performance and scalability.

With an 8-channel DDR5 memory architecture, it supports up to 4800 MT/s (up to 5600 MT/s with EMR), offering up to 50% higher memory bandwidth for virtualization and memory-intensive applications.

The system provides excellent expandability with up to 10 PCIe 5.0 slots and supports up to 24 hot-swap NVMe, SAS, or SATA drives, enabling flexible high-performance and high-capacity storage configurations.

Featuring redundant power supplies with up to 96% efficiency and reliable operation from 0°C to 45°C, the RS-SRV-4U2S-G3 Series is ideal for VMS, virtualization, databases, AI, and mission-critical enterprise applications.

■ Key Features

- Open ecosystem server architecture compliant with OCSP standards
- Advanced OpenBMC-based management for full lifecycle control
- High-capacity memory support with up to 32 DDR5 DIMM slots
- Flexible storage design Up to 44 x 3.5-inch bays supporting SATA/SAS/NVMe
- Extensive expandability with up to 10 PCIe slots
- Service-friendly design featuring tool-less access and hot-swappable critical components

■ Highlights

Compute-intensive tasks such as big data analytics and scientific research

Such as big data processing, geological exploration, and scientific research.

AI training, inference, and intelligent video processing

Including artificial intelligence and metaverse applications.

Dynamic environments like databases, virtualization, and cloud infrastructures

Such as databases, virtualization, private cloud, and public cloud environments.

High-density data center deployments for enterprises and cloud service providers

For data centers of medium to large enterprises and cloud service providers.

Scientific computing applications such as weather forecasting, seismic simulation, and genomics

Including weather forecasting, earthquake simulation, and gene sequencing projects that require massive computing resources.

Large-scale big data storage and analytics

Storage, analysis, and mining of massive datasets, such as data warehouses and data lakes.

Advanced AI and machine learning workloads, including image recognition and NLP

Training and running complex machine learning models, including image recognition and natural language processing.

High-performance financial systems requiring ultra-low latency

High-frequency trading systems in the financial sector that demand extremely high performance and ultra-low latency.

■ Technical Specifications

Product Model	RS-SRV-4U2S-G3
System Size	Standard 4U: 174.4 mm (H) x 447.4 mm (W) x 828 mm (D), excluding security bezel.
Processor / Memory	Supports up to two Intel Xeon Scalable, with 32 DIMM slots in total. ICX: up to 40 cores per CPU, maximum 270W; DDR4 up to 3200 MT/s. EGS: up to 64 cores per CPU, maximum 350W; DDR5 up to 5600 MT/s.
Storage Controller	Entry-level HBA with pass-through JBOD for software-defined storage (SDS). High-performance RAID controller supports RAID 0/1/10/5/6/50/60. NVMe RAID supported through VROC.
Storage Expansion	With 36 large-form-factor bays and four rear 2.5-inch AnyBay bays (standard), supports six full-height PCIe expansion cards. Up to 44 x 3.5-inch bays supporting SATA/SAS/NVMe (U.2) interfaces: • Front: 24 x 3.5-inch hot-swap drives, including six AnyBay bays. • Middle: four x 3.5-inch non-hot-swap drives (optional). • Rear: twelve x 3.5-inch hot-swap drives; four additional rear 3.5-inch hot-swap drives optional. With 30 x 3.5-inch SATA/SAS drives, up to 16 NVMe U.2 drives are supported: • Front: 24 x 3.5-inch hot-swap drives, including six AnyBay bays. • Rear: twelve x 3.5-inch hot-swap drives. • Rear: ten x 2.5-inch hot-swap AnyBay drives (optional). Internal SATA/NVMe M.2 slot.
PCIe Expansion	Up to 10 PCIe expansion slots • Up to six full-height and four half-height expansion cards. • Supports up to 2 OCP 3.0 slots
GPU Support	Two dual-width or six single-width GPU cards.
Management Software	Integrated AST2600 BMC supporting IPMI 2.0, Redfish, SOL, KVM, virtual media and other functions.
Network	One onboard dedicated 1Gbps management port. Supports two OCP 3.0 network cards. Flexible network adapters through standard PCIe expansion slots.
I/O Interfaces	Standard: one RJ45 management port, one rear VGA port and four USB ports (two front, two rear). Left ear: two USB 2.0 ports; optional two USB 3.0 ports. Right ear: optional smart ear with one VGA, one management port or one Type-C management port.
Security	Supports chassis intrusion detection, Intel PFR 3.0 and SGX 2.0 security technologies, and TCM/TPM security modules.
Power Supply	Optional 550W/800W/1300W/1600W/2000W/2600W/2700W/3200W CRPS standard power supplies, supporting 1+1 redundancy.
Operating Temperature	0°C to 45°C (operating temperature varies based on configuration, please refer to the product technical documentation for details).

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