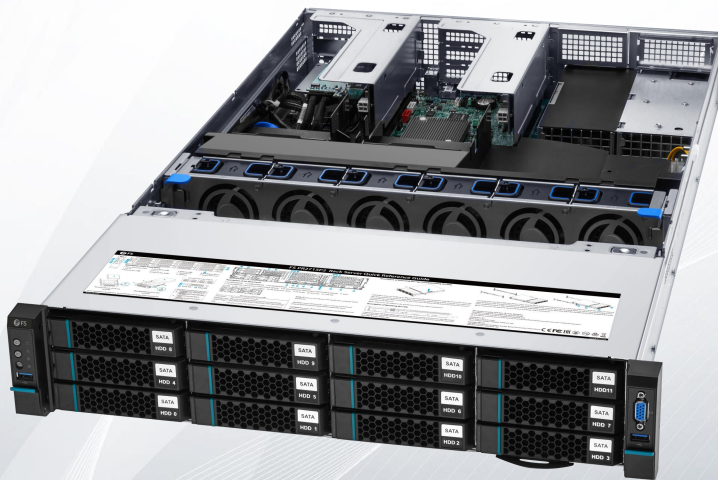


# RS7250 RACK SERVER

## HIGH CONFIGURATION AND WIDE RANGE OF APPLICATIONS

The server can be easily reconfigured for multiple Enterprise and Data Center applications in Virtualization, Big Data, Analytics and Cloud Computing.



## Overview

RS7250 is the latest 2U server product launched by FS Company. It adopts Intel C620 series high-performance chipset and supports the second generation Intel® Xeon® Scalable series processors. This model supports up to 3 TB of memory capacity, supports 12 hot-swappable 3.5-inch hard drives, and can flexibly expand full-height and full-length PCI-E devices. The highly integrated design brings powerful performance in a limited space to support mission-critical operations. RS7250 provides advanced management functions and storage technology with reliable scalability and high availability.

## Benefits

- 2nd Gen Intel® Xeon® Scalable Processors
- Intel® C620 Series Chipset
- Up to 3TB of memory capacity
- 12x 3.5"/2.5" SSD/SAS/SATA Hot-swappable Drive Bays
- Easily Expand with up to 6 PCIe 3.0 Slots
- Support RAID 0, 1, 5, 6, 10, 50, 60, JBOD

## Target Workloads

### Network service providers

- RS7250 is suitable for cloud computing, virtualization application, big data analysis, online game, mail and information processing, web search.
- Intelligent, large-scale virtualization and large-scale node technology computing.
- Optimized rack and 2U form factor helps users to quickly deploy and maintain large-scale cluster solutions.

### Updated Data Center

- The performance of RS7250 is up to 140% higher than the previous generation, and it has better energy efficiency.

### Cloud Computing Solutions

- By improving security, eliminating I/O bottlenecks, optimizing density and performance, providing reliable virtual resources, solving storage challenges brought about by explosive data growth, and providing the most excellent and reliable solutions for private clouds, public clouds and hybrid clouds.

## High Performance

- Supports up to two 28-core 2nd Generation Intel® Xeon® Scalable Series processors, which can provide powerful computing power and help users cope with heavier computing pressure.
- Supports Intel® Communication Acceleration Technology (Intel® QAT), Intel® Advanced Vector Extensions (Intel® AVX-512).
- 12 memory channels, 24 memory DIMM slots, maximum support 3TB 2933MHz/DDR4.
- Fully supports M.2 and U.2, with faster transmission speed, lower power consumption and higher reliability.
- It supports 6 expansion slots by default, providing users with flexible connection options.
- Onboard 2 gigabit data network ports, with load balancing, link aggregation and support for redundancy, which can effectively reduce network delay, one 1000M dedicated network port for remote management.

## High Reliability

- Maximum supports 12x 3.5" hot-swap SATA/SAS/SSD hard drives. (Selecting SAS hard drives requires an optional SAS expansion kit)
- Optional support for high reliability RAID5, improve data processing performance and data protection functions.
- The intelligent cooling system is adopted to effectively reduce noise pollution and create a constant temperature space for the cabinet; fully shielded to prevent electromagnetic radiation, anti-interference, and anti-static (EMI) design.
- Supports Intel® Communication Acceleration Technology (Intel® QAT) to provide secure high-performance and accelerated compression, enabling network, cloud service and storage functions to provide reliable protection for virtual and cloud environments.
- Optionally supports 1+1 full redundant power supply mode, supports PMBUS power consumption monitoring, module loss alarm and other functions, providing higher security for the operation of the server.

## Low power consumption

- Support frequency reduction function, which can reduce system energy consumption at low load.
- The fan speed is comprehensively adjusted according to the temperature of the thermal key components, which saves energy while reducing noise and improving the reliability of the fan.
- Support energy efficiency management and provide automatic server power consumption control, which helps to complete more tasks with less resources.

## Product Parameters

Features	Technical Specification
<b>Form Factor</b>	2U rack server
<b>Number of Processors</b>	2
<b>Processors</b>	2nd Generation Intel® Xeon® Scalable Processors
<b>Memory</b>	24 DIMM slots, support 2933MHz DDR4 RDIMM memory, up to 3TB
<b>Hard Drives</b>	Supports 12x 2.5/3.5" SAS/SATA/SSD hard drives
<b>Raid Support</b>	Support RAID 0, 1, 5, 6, 10, 50, 60, JBOD
<b>Onboard Network</b>	Optional support for SAS RAID 0, 1, 10, 5, 50, 6, 60, etc. RAID (no cache)/1GB/2GB (cache)
<b>PCIe Expansion</b>	Provides 6 PCI-E3.0 standard slots and 1 dedicated slot (PCI-E3.0) by default: PCI-E slot 1 (from CPU0): The default riser card supports 2*full-height PCI-E3.0x8 (in*16) slots, 1*full-height PCI-E3.0x8 slot PCI-E slot 2 (from CPU1): The default riser card supports 2*full-height PCI-E3.0x8 (in*16) slots, 1*full-height PCI-E3.0x8 slot PCI-E slot 3 (from CPU1): optional riser card supports 1* half-height PCI-E3.0x8 slot Dedicated slot (out from CPU0): 1* OCP TypeA slot (PCI-E3.0x8)
<b>Ports</b>	USB3.0 interface: 5 (2 at the front, 3 at the rear) VGA interface: 2 (1 at the front, 1 at the rear) Serial interface: 1 (1 at the rear) Management network port: 1 (1 at the rear)
<b>Fans</b>	6 hot-swappable redundant fans
<b>Power Supplies</b>	800W 1+1 redundant power supply
<b>Management</b>	Support IPMI2.0, provide 1100/1000 Mbps RJ45 management network port, support iKVM remote management

## Product Parameters

Features	Technical Specification
<b>Display Controller</b>	Integrated ASPEED AST2500
<b>CD-ROM/Drive</b>	Optional SATA/USB interface optical drive
<b>Supported Operating Systems</b>	Windows Server 2012 R2 Red Hat* Enterprise Advanced Server 7.5
<b>Power Supplies</b>	220V AC /240V DC
<b>Dimensions</b>	3.4"x17.2"28.9"(87x438x735mm), minimum configuration gross weight is about 23KG
Environmental Specifications	
<b>Ambient Temperature</b>	Operating Temperature: 10°C~35°C (50°F~95°F) Non-operating Temperature: -40°C~55°C(-40°F~135°F)
<b>Relative Humidity</b>	Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
<b>Acoustics</b>	In operation mode, the sound pressure measured in the lateral position is <50dBA; the sound intensity measured when the ambient temperature is <28°C is 6.2BA
<b>Static Electricity</b>	15KV per Intel ambient temperature test specification



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