

RS5220 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

FS RS5220 is the latest 2U server launched by FS. It is designed with Intel® C621 Series Chipsets and offers the 2nd Generation Intel® Xeon® Scalable Processors. It supports up to 1TB of memory capacity, up to 8 x 3.5-inch or 2.5-inch hot-plug hard disks. And the RS5220 offers full-height PCIe expansion card slots.

The highly-integrated design brings excellent performance despite the limited space, which is enough to support the operation of key tasks. The RS5220 provides advanced management functions and storage technology, with reliable scalability and high availability.

Benefits

- 2nd Gen Intel® Xeon® Scalable Processors
- Intel® C621 Series Chipset
- Up to 1TB of memory capacity
- 8x 3.5"/2.5" SSD/SAS/SATA hot-plug drive bays
- Easily expand with up to 5 PCIe 3.0 slots and 1 OCP Type A/C dedicated slot
- Support RAID 0, 1, 5, 6, 10, 50, 60, JBOD

Target Workloads

Network service providers

- RS5220 is suitable for mail serving, messaging, web searching and access to servers, as well as enterprise information management.
- Intelligent, large-scale virtualization and the network node technology computing.
- Optimizing the shape of the rack and 2U is helpful for users to quickly deploy and efficiently maintain large-scale cluster.

Updated Data Center

- Compared to the previous generation, the performance of the RS5220 is improved by up to 140%, and the energy efficiency of it is increased greatly.

Cloud Computing Solutions

- By improving security, eliminating I/O limits, optimizing density and performance, providing reliable virtual resources, and addressing the storage challenges of data explosion, the RS5220 provides the best and reliable solutions for private, public and hybrid clouds.

High performance

- Supports up to 2 x 2nd Generation Intel® Xeon® Scalable Processors with 22 cores, which could provide powerful computing power and meet the user's needs for larger computing.
- Supports Intel Quick Assistant Technology (Intel® QAT) and Intel Advanced Vector Extensions 512 (Intel® AVX-512).
- 8 x memory channels, 8 x memory DIMM slots, and up to 1TB 2933MHz/DDR4.
- M.2 and U.2 are fully supported, with faster transmission speed, lower power consumption and higher reliability.
- 5 expansion slots, which provide users with flexible connection options.
- There are two gigabit data network ports on board, which are featured with load balancing, link convergence and supporting redundancy, which could effectively reduce network delay. And there is one dedicated network port for remote management at 1000M.

High reliability

- Supports up to 8 x hot-plug 3.5-inch/2.5-inch SATA/SAS/SSD hard disks. (SAS expansion kit is required for selecting SAS hard disk)
- SAS RAID5 is optionally supported to improve data processing performance and protect data.
- Adopts intelligent cooling system to effectively reduce noise pollution and create a constant temperature space for the chassis; fully shielded, anti-electromagnetic, anti-interference and anti-electro magnetic interference (EMI) design.
- Supports Intel Quick Assistant Technology (Intel® QAT) to provide secure high performance and accelerated compression, and realize network, cloud service and storage functions to provide reliable protection for virtual and cloud environments.
- 1+1 fully redundant power supply mode is optionally supported, as well as those functions such as PMBUS power consumption monitoring and module loss alarm, thus keeping the operation of the server more secure.

Low power consumption

- Supports frequency reduction, which could reduce system energy consumption under low load.
- According to the temperature of thermal critical devices, the fan speed is adjusted comprehensively, which saves energy, reduces noise and improves the reliability of the fan.
- Supports PDCM v2.0 (energy efficiency manager) and provides automatic server power consumption control, which helps to accomplish more tasks with less resources.

Product Parameters

Features	Technical Specification
Form Factor	2U rack
Number of Processors	2
Processors	2 x 2nd Generation Intel® Xeon® Scalable Processors
Memory	8 x DDR4 DIMM slots, supports RDIMM of 2933MHz, 1TB Max
Hard Drives	Support 8x 2.5"/3.5" SAS/SATA/SSD hard drives
Raid	Support RAID 0, 1, 5, 6, 10, 50, 60, JBOD
Network Interface	Integrated 2 * gigabit GE ports
PCIE Expansion	By default, provides 5 * PCI-E Gen3 slots and 1 * OCP Type A/C special slot. Slot 0: 1 x16 slot PCIe Gen3 for LP from CPU1 (default); Slot 1: 1 x16 slot PCIe Gen3 for LP from CPU1 (default); Slot 2: 1 x16 slot PCIe Gen3 for LP from CPU1 (default); Slot 3: 1 x8 slot PCIe Gen3 for LP from CPU1 (default); this slot is not available while adding PCI card to slot 2; Slot 4: 1 x16 slot PCIe Gen3 for LP from CPU0 (default)
Ports	Front Ports: 2 x USB 3.0 Rear Ports: 2 x USB 2.0, 1 x VGA, 1 x management network port Internal Ports: 1 x USB 3.0
Fans	3 x hot-plug fans
Power Supplies	800W Platinum power module,1+1 redundant power supply
Management	Supports IPMI2.0, provides 1100-Mbps or 1000-Mbps RJ45 management network port, and integrated iKVM, supports remote management

Product Parameters

Features	Technical Specification
Display Controller	Integrated ASPEED AST2500
CD-ROM/Drive	Optional: SATA/USB drives
Supported Operating Systems	Windows Server 2012 R2 Red Hat* Enterprise Advanced Server 7.5
Power Supplies	220V AC /240V DC
Dimensions	Height – 3.4 inches (87 mm) * Width–17.24 inches (438 mm) * Depth – 25.98 inches (660 mm), support racks with 19 inch, minimum weight (with the standard configurations) is about 40lb (18kg)
Environmental Specifications	
Ambient Temperature	10°C - 35°C (50°F - 95°F) while operating; -40°C - 55°C(-40°F - 135°F) while in storage, according to the surroundings.
Relative Humidity	95% RH while in storage, non-condensing between 25°C and 30 °C
Acoustics	While operating, the sound pressure is less than 50dBA in the lateral position; while idle, the sound intensity is 6.2BA at ambient temperature <28°C
Static Electricity	Each Intel Environmental Temperature Test Specification is 15KV