NS7440 HIGH-DENSITY SERVER

HIGH CONFIGURATION AND WIDE RANGE OF APPLICATIONGS

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

Overview

FS's 4U four-node server architecture is market-proven, delivering exceptional throughput, storage, networking, I/O, memory, and processing power in a 4U form factor. Customers can address their most challenging IT needs with solutions that benefit from exceptional total cost of ownership (TCO).

FS 4U four-node server solutions are designed to simplify deployment and maintenance, and are assembled to the highest quality to ensure continuous operation at maximum capacity. With FS's 4U four-node server, customers in high-end enterprise, data center, HPC and cloud computing environments gain maximum competitive advantage from data center resources.

Benefits

- 2nd Generation Intel® Xeon® Scalable Processors
- Intel C621 Series Chipset
- Per node: 12 DIMMs-up to 3TB ECC 3DS LRDIMM or RDIMM DDR4 2933MHz
- Per node: up to 6x 3.5"/2.5" SATA/SAS + 2x 3.5"/2.5" SATA/SAS/NVMe Hot-swappable Drive Bays
- Easily expand with up to 4 PCIe 3.0 Slots
- Support for RAID 0, 1, 10, 5, 50, 6, 60

Main Highlights

High-density and Performance-optimized Compute Nodes

- Provides up to 4 two-socket servers and high-capacity storage in a 4U rack, forming a flexible platform to power demanding HPC and scale-out workloads.

Enhanced Energy Efficiency, Suitable for Internet, HPC and Cloud Computing

- The 4U four-node server is FS's platform for supporting Internet, cloud computing, high-performance computing (HPC), service providers, and large scale-out computing server farms. The server focuses on providing data centers with a scale-out X86 server solution, while bringing new economics to data centers in terms of server density, power consumption, and thermal optimization and total cost of ownership. By design, the 4U four-node server requires less rack space and consumes less power and cooling per server than traditional rack servers. The server can significantly reduce data center operating costs, simplify installation, and aggregate computing with a lower total investment.
- Suitable for: Hyper-converged Infrastructure, cloud computing cloud, software-defined storage, high performance computing, Big data analysis, Enterprise server.

New Compact "4 in 4U" Server Density

- Up to 4 half-width dual-socket server nodes and 32x 3.5-inch hot-swap hard drives in a single 4U chassis.

Shared Power and Cooling System

- 4U four-node server with central cooling fan and 4 shared titanium (96%) level hot-swappable power supplies.

Fully Compatible with the Traditional Data Center Environment

- 4U four-node server is suitable for traditional data center front and rear airflow cooling design and standard 19-inch industrial cabinet.

Simple to Use

- Hot-swappable server nodes, power supplies and disk drives enhance usability and are easy to use.

Diverse Local Storage

- Each node supports 8 3.5" hot-swappable hard disks, optional NVMe, SAS, SATA flexible collocation, optional support for SAS 3008 and 3108 versions, supporting built-in 1 M.2 NVMe SSD.

Flexible Network Options

- Each node supports a network expansion module (SIOM) for user flexible networking options such as 1G, 10G, 25G, 40G or 100G, also supports 1 half-height PCI-E 3.0 x16 expansion slot at the same time.

Product Parameters

Features	Technical Specification
Form	4U, 4 node
Number of Processors	Each node: 2
Processor Model	Per Node: Supports 2nd Generation Intel® Xeon® Scalable Processors (Cascade Lake/Skylake)
RAM	Per node: 12 DIMMs; maximum support 3TB ECC 3DS LRDIMM or RDIMM DDR4-2933MHz Supports Intel Optane DIMMs
Hard Disk	Per node: Standard 8 3.5-inch SATA Hot-swap drive bays Optional support for flexible combinations of NVMe, SAS, SATA, up to 2 NVMe SSDs1 M.2 NVMe SSD
Raid Support	Support RAID 0, 1, 10, 5, 50, 6, 60
Onboard Network	The onboard network port is not integrated, and it can optionally support Gigabit/10 Gigabit network module (SIOM) 4x Dual-port Gigabit Power Port Network Card SIOM Interface / I350 Chipset / AOC-MGP-I2M
PCIE Expansion	Each node: 1 PCI-E 16 half-height expansion slots, supporting half-height device expansion
Other Ports	Each node: 2 USB3.0, 1 VGA interface
Power Supply	Standard 4x 1200W Titanium redundant power supply
Manage	Each node: onboard BMC management module, support IPMI2.0, provide one 1000 Mbps RJ45 management network port
CD-ROM/Floppy Disk Drive	External USB DVD-ROM

Features	Technical Specification
Supported Operating Systems	Windows Server 2016/2019
Powered by	Full voltage range adaptive server professional power supply, 115V/60Hz, 230V/50Hz adaptive
Dimensions(HxWxD)	7''x17.6''x29.01''(177x448x737mm); support 19-inch standard cabinet, net weight about 68.1KG
Environmental Specifications	
Ambient Temperature	Operating 10°C to 35°C (50°F - 95°F) Non-operating -40°C to 60°C (-40°F - 140°F) ambient
Relative Humidity	Non-operating 95% non-condensing at 25°C to 30°C (77°F - 86°F)
Highest Altitude	3000m