inspur

NF5466M6

General-purpose rackmount storage server

NF5466M6 is a 4U dual-socket storage server featured by high storage capacity, robust computing performance and excellent I/O expansion. It is designed for scenarios such as warm/cold data storage, video surveillance storage, big data storage, cloud storage pool, etc.

Features

Extensive Storage Capacity into Multiple Tiers

- Support up to 46×3.5-inch drives and an extraordinary storage capacity of up to 828TB (18TB per drive) to meet the needs of local data storage.
- A maximum of 16 x hot-pluggable NVMe SSDs allows high-capacity data cache and provides ten times the IOPS of high-end enterprise-class SATA SSDs. The ultimate storage IO brings a leap in storage performance and is an excellent choice for storage tier strategy.
- Support up to 16 x DCPMMs and each has a maximum capacity of 512GB, which ensures data integrity without degrading memory capacity and bandwidth in the event of system shutdown.

Powerful Computing Performance to Support AI Computing

- The 4U space supports 2 x Gen3 Intel® Xeon® scalable processors, up to 40 cores per CPU (increased by 1.42 times), and 270W TDP. The overall performance is improved by 46%.
- Support heterogeneous computing acceleration and up to 2 x FHFL GPUs or 8 x FHHL GPUs to meet the IVA (image and video analysis) application.

Highly Scalability and Flexible Expansion

- Support up to 13 x PCIe slots, an increase of 62% compared to the previous generation and further enhancing I/O expansion capability.
- Support a variety of storage, I/O, network and GPU combinations, which satisfies different application scenarios and allows the user to configure as needed.

Reliable and Green

- NF5466M6 adopts a reliable and safe design scheme and supports anti-vibration, overcurrent and overvoltage protection, hot plug, etc. Also, it has undergone rigorous stability, performance, and heat dissipation tests to ensure stable operation.
- Support a set of energy-saving technologies, such as intelligent fan speed regulation and power management, energy-efficient hard drives, automatic PSU hibernation. Meanwhile, Inspur power management suite helps the user with real-time power consumption monitor and control.

Specifications

Model	NF5466M6
Form Factor	4U rackmount server
Processor	1 or 2 Intel® Xeon® 4300, 5300, 6300, 8300 series scalable processors: Up to 40 cores and 3.6 GHz 3 UPIs and 11.2GT/s per link Max. TDP 270W.
Memory	32 x memory slots. Each processor supports 8 x memory channels and each channel supports a maximum of 2 memory slots. Memory speed can reach 3200MT/s. Support RDIMM and BPS/NVDIMM. Memory protection mechanisms: ECC, memory mirroring, memory-level protection.
Storage	Front: 24 × 3.5-inch SAS/SATA HDDs (hot-plug) Rear: 16 x 3.5-inch SAS/SATA HDDs (hot-plug)　　　　　2 x M.2 SSDs or E1.S SSDs 4 x 2.5-inch SATA/SAS/NVMe SSDs (hot-plug) Built-in 6 x 3.5-inch SATA/SAS HDDs in the middle Up to 2 x TF cards Up to 16 x U.2 NVMe SSDs (Max. HDD support is determined by the specific configuration)
I/O Scalable Slot	Up to 13×PCIe slots, including 1×PCIe RAID controller card and 1×OCP3.0 slot
Network	1 x OCP3.0, 1/10/25/40/100/200Gb/s 1/10/25/40/100/200Gb standard NICs.
Interface	2 x rear USB3.0 + 1 x front USB3.0 + 1 x front USB2.0　　　1 x front VGA 1 x rear VGA　　　1 x COM port
System Fan	8056, N+1 redundancy and hot-pluggable.
PSU	1+1 redundant platinum power supplies High-voltage DC and titanium power supply
System Management	An independent 1000Mbps NIC dedicated to IPMI remote management.
OS	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, etc.
Dimension(W x H x D)	482mm(19inches) x 174.5mm(6.9 inches) x 842.5mm(33.2 inches) (with mount ears) 447mm(17.6 inches) x 174.5mm(6.9 inches)x 837.3mm(33 inches) (without mount ears)
Weight	62kg (136.7 lbs) Refer to the Technical White Paper.
Working Temperature	5°C-40°C. 41°F-113°F.. Refer to the Technical White Paper.