

Inspur NF5180M5 server

A dual-path 1U rackmount server with seamless compute density and scalability integration



The Inspur NF5180M5 server is a dual-path 1U rackmount server dedicated to Internet, Internet Data Center (IDC), cloud computing, enterprise market, and telecommunications application requirements.

Product Features

Excellent performance, high efficiency

The NF5180M5 supports the latest Intel® Xeon® scalable processor. Each processor has up to 28* cores and 56* threads and supports a maximum TDP of 205 W.

Configurable to a maximum of 24* DDR4-2933 DIMMs for a total of 3TB. The NF5180M5 also supports RDIMM, LDRIMM, ECC, memory imaging, and hot standby.

Supports up to 8 Optane™ PMem.

The 10 hot swappable NVMe SSD hard drives have an all-flash configuration and provide a ten-fold input/output operations per second (IOPS) increase compared to SATA SSDs for high-end enterprise applications, providing increased storage bandwidth.

Multiple configurations, superior scalability

Each front node supports up to 43.5" hard drives and 2* SATA SSDs or 10* 2.5" hard drives, while each rear node supports 2* SATA SSDs, thus achieving a significant increase in storage to provide large-scale storage.

Supports 2* SATA M.2 or 2* PCIe M.2 SSDs for faster and more secure operating system startups.

A flexible OCP/PHY card slot is available for 10G, 25G, and 40G network ports, providing highly flexible network configurations for different applications.

Supports 3 PCIe 3.0 slots for customers requiring flexibility for diverse system scalability and performance.

Secure, reliable, easy to operate, and accessible

Based on humanization designs, tool-free maintenance is available for certain components, further lowering the maintenance time and increasing operation availability. Inspur's unique intelligent control technology optimizes internal cooling to ensure server stability even at temperatures of up to 35 °C.

With the latest BMC technology, our technical support personnel are able to use a web management interface as well as the LED and front UID indicators to identify the location and status of fault issues. This simplifies maintenance, reduces troubleshooting time, and increases system availability. All swappable components have a fool-proof design for easier maintenance.

Product Specification

Model	Description
Specifications	1U rackmount
Processor	Supports single and dual Intel® Xeon® series scalable processors: supports up to 28 cores at a frequency of 2.2 GHz; maximum 3.6 GHz (8 cores); 2 UPI interconnected chains with maximum speed of 10.4 GT/s per chain and maximum power of 205W
Chipset	Intel C621/C622/C624
Memory	Supports up to 24* DDR4 2400/2666/2933 MT/s DIMMs; each CPU supports 12 DIMMs, two CPUs support 24 DIMMs; each CPU supports RDIMM/LRDIMM/DCPMM; supports up to 3TB (64 GB per DIMM); supports up to 512GB per Optane™ PMem (The maximum number of supported Optane™ PMem is related to the specific configuration)
Storage	Each front node supports up to 43.5" hard drives and 2* SATA SSD hard drives or 10* 2.5" hard drives; each rear node supports up to 2* SATA M.2 SSDs; each internal node supports 2* SATA M.2 or 2* PCIe M.2 SSDs (the maximum number of supported hard drives is configuration-specific)
Storage controller	SATA controller on motherboard, supports RAID 0/1/5/10; NVMe controller interface on motherboard configurable with Intel NVMe RAID key
Network port	10 Gb/s PHY; 10G b/s, 25 Gb/s OCP
I/O expansion slot	Expands up to 2* standard PCIe x16 slots, each PCIe slot is a x8 slot
Ports	Front: 1* USB2.0 port, 1* USB3.0 port (2* USB2.0 ports in 2.5 chassis), 1*VGA port, 1* UID indicator and button Rear: 2* USB3.0 ports, 1* VGA port, 1* 1 GB management port, and 1* UID indicator and button
Internal:	1* USB2.0 port, 1* serial port
Fan	7* hot-swappable N+1 redundancy dual-rotor fans
Power supply	Supports 2* 550W/800W/1300W/1600W PSUs (platinum), 1+1 redundancy
System management	The onboard BMC management module supports IPMI, SOL, KVM Over IP, and virtual media, and provides 1 external 1 Gb RJ45 network port
Operating system	Supports Windows/ Red Hat/ SUSE/ Centos/ Debian/ XenServer/ Oracle Linux/ ESXi/ Ubuntu etc.
Size	435mm (W) x 43mm (H) x 751mm (D)
Weight	Less than 28 kg at full load, please refer to the technical white paper for further details
Operating temperature	5℃~35℃ (please refer to the technical white paper for more details)