

Inspur NF8480M5 server

A highly scalable computing platform developed for key application workloads



The Inspur NF8480M5 is a high-end four-socket server built on the Intel® Xeon® scalable processor family. Its high computing capability, scalability, and excellent RAS features make it the ideal solution for in-memory databases, ERP, CRM, business intelligence analytical systems, large-scale virtualization applications, and data-intensive applications.

Product features

Optimized Computing Power

The NF8480M5 fully supports mesh interconnection for processors that significantly reduces internal communication latency. The processors adopt a fully direct connection architecture achieving direct processor communication. The NF8480M5 delivers 48* DDR4 DIMMs for massive internal memory and scalability. With 50% higher memory scalability and 25% higher bandwidth, system lag due to low frequency I/Os is significantly reduced. Up to 12 NVMe SSDs with a readability of up to 3.5 GB/s are also supported.

Reliable Stability

The BMC software adopts dual-write protection within an innovative E-SRA architecture. The BIOS can be refreshed on its own through the BMC, thus ensuring the safety and reliability of base-level software upgrades.

The server supports a wide range of features such as enhanced memory protection and PCIe hot-swapping support. It is equipped with features, such as SCSA super current safety and protection technology, low-impedance power supply, low thread loss and high reliability, and low space utilization and enhanced maintenance efficiency.

Flexible Scalability

The NF8480M5 supports hierarchical storage management. The front chassis supports up to 24* 2.5"/3.5" hard drives, of which up to 12* U.2 NVMe SSDs can be supported. The two built-in M.2 SSDs support tiered storage to meet different needs.

The server also supports 16* PCIe slots and 1 x OCP slot, as well as a PCIe bus. The simplicity of resource allocation increases an effortless user configuration between U.2 NVMe servers and the PCIe expansion cards and meets any need.

Fast Recovery

The latest LIDS optical diagnosis system and DSFI deep system fault insight technology enables the NF8480M5 to receive timely first-hand base-level information, increasing maintenance efficiency and recovery speed.

Product Specifications

Component	Description
Specifications	4U rack
Processor	Supporting 2 / 4*Intel® Xeon® scalable processors Processor Core:s up to 28 cores (freq, 2.2 GHz) Processor Frequency: up to 3.6 GHz (8 cores) Two UPI interconnected links, the maximum transmission rate of single link is 10.4 GT/s TCP: up to 205W
Chipset	Intel C621/C624/C627
Memory	Supporting up to 48*DDR4 2933/2666 MT/s memory Single CPU supports 8*DIMMs, dual CPU support 24*DIMMs. Supporting RDIMM/LRDIMM/NCDIMM/Optane™ PMem Each RDIMM/LRDIMM supports up to 128 GB Each Optane™ PMem supports 512 GB
Storage	Supporting up to 24*2.5"/3.5" hard drives Supporting up to 12*U.2 NVMe hard drives Supporting up to 2*M.2 SSD hard drives (The maximum quantity of supported hard drives is related to the specific configurations)
Storage controller	Onboard SATA controller supporting RAID 0/1 Standard PCIe RAID controller supportingRAID 0/1/10/1E/5/6/10/50
Network	Supporting standard OCP card with NCSI function Supporting 4*1 GB/10 GB network ports Supporting NCSI function, Wake-on-LAN, network redundancy, load balancing, and other high-end features
I/O expansion slot	Supporting up to 16*standard PCIe3.0 slots
Ports	Front: 2*USB 3.0, 1*VGA, 1*RJ45 serial ports, liquid crystal diagnosis screen Rear: 4*USB 3.0, 1*VGA, 1*dedicated network port; 1*BMC diagnostics serial port, 1*system serial port
Fans	8*8038 hot-swap N+1 redundant fans
Power	Supporting up to 4*550W/800W/1300W/1600W PSUs (platinum) 1+1/2+1/2+2/3+1 redundancies
System management	Supporting IPMI2.0, KVM over IP, SOL, and SNMP outbound and inbound remote management and control, Full remote maintenance design without affecting the operating system. Inspur's remote management software allows the simultaneous deployment of multiple hosts or planned specific deployments to collect CPU and memory module usage rates, meter SSD lifespan, and record logging information Supporting external BMC-dedicated management network port and BMC diagnosis serial port Supporting offline troubleshooting
Operating system	Supporting Microsoft Windows Server/Red Hat Enterprise Linux/SuSE Linux Enterprise etc.
Size	448 mm (W) x 176 mm (H) x 812 mm (D)
Weight	Full configuration:60 kg (including server + package + rail kit + components box)
Operating temperature	0 C ~40 C