inspur

INSPUR NF5280M5 SERVER
Ultimate Data Center 2-socket Rack Server

Inspur NF5280M5 is a 2U 2-socket rack-mounted server based on the new generation Intel® Xeon® scalable processor, optimized for the demand of data center applications. NF5280M5 applies ultimate design concept to provide better performance, scalability and storage, which is particularly suitable for applications such as cloud compute, big data and deep learning.

▷◁ Features

Ultimate Performance

NF5280M5 supports the new generation Intel® Xeon® Scalable processors, with up to 28 cores and 56 threads per CPU, up to 24*DDR4-2933 memories. 24* hot-swap NVMe SSDs full-flash configuration brings 15 billion + IOPS, huge leap on storage.
Supporting up to 4 double wide GPUs or 8 single wide GPUs. The FP16 computing power of single GPU can reach 112 teraflops which brings more feasibility for deep learning applications.

Profound Configuration

Supporting up to 20* 3.5" hard drives or 31* 2.5" hard drives in addition to 2* M.2 SSDs to implement massive storage, which is 1.5 times larger than former generation.
Supporting free combination of OCP and PHY network cards with different network interfaces to provide 1Gb/10Gb/25Gb/40Gb flexible network configurations

for different applications.
Supporting 9*PCIe3.0 slots, 1*OCP/PHY PCIe slot, meeting the system and performance demand of high-end customers.

Intelligent Management and Security

Conducting real-time monitoring and intelligent isolation and recovering. It adopts open management protocol and INSPUR BMC, which simplifies deployment, management and maintenance, optimized for large scale DC.
Supporting TPM2.0 security control, it conducts trust chain between soft and hardware as BIOS, memory, hard drive, OS and applications to prevent illegal write or replacement from unknown firmware. Ensuring system safe and controllable.

◁ Specifications

Component	Description
Form Factor	2U Rack
Processor	Supporting 1/2*Intel® Xeon® Scalable Processor Processor Core: up to 28 cores (freq. 2.7GHz) Processor Frequency: up to 3.8GHz (4 cores) Two UPI interconnected links, the maximum transmission rate of single link is 10.4GT/s TDP: up to 205W
Chipset	Intel C621/C622/C624
Memory	Up to 24*DDR4 2400/2666/2933MT/s memory Single CPU supports 12*DIMMs，dual CPU supports 24*DIMMs Supporting RDIMM/LRDIMM/DCPMM Each RDIMM/LRDIMM supports up to ...B(Skylake)/256GB(Cascade Lake) Each DCPMM supports up to 512GB(Cascade Lake)
Storage	Front: up to 12*3.5″/ 25*2.5″hard drives Internal: up to 4*3.5″and 2*M.2 SSDs Rear: up to 4*3.5″, 4*2.5″hard drives Supporting SAS/SATA/SSD (The maximum quantity of supported hard drives is related to the specific configurations)
Storage Controller	Onboard SATA controller, supporting RAID 0/1/5/10 Onboard NVMe controller interface and Intel NVMe RAID Key is optional
Network	Supporting 1*OCP or 1*PHY PHY: supporting 2/4* 1/10 Gb Ethernet port OCP: supporting 1/2* 10/25Gb Ethernet port Standard PCIe Ethernet card: supporting 1/10/25/40/100 Gb
I/O Scalable Slot	Supporting up to 9*PCIe x8 slots and the different quantitative combination of x8/x16/OCP/PHY slots can be achieved by selecting different PCIe Riser Supporting up to 4 double wide GPU、8 single wide GPU
Interface	Front：1*USB 2.0 (supporting LCD module), 1*USB 3.0, 1*VGA, 1*UID indicator light and button Internal: 2*USB 3.0 Rear: 2*USB 3.0, 1*VGA, 1*Management interface, 1*UID indicator light and button
System Fan	4*hot-swap N+1 redundant fans (dual-rotor)
PSU	Supporting 2*550W/800W/1300W/1600W/2000W PSU (Platinum/Titanium), 1+1 redundant
System Management	Onboard BMC management module, supporting IPMI, SOL, KVM Over IP, virtual media and other management features; providing one 1Gb RJ45 management interface (supporting NCSI); supporting SSD life detection and other functions
OS	Supporting Windows Server/Red Hat/SUSE/CentOS/ Debian/ XenServer/ Oracle Linux/ ESXi/Ubuntu etc.
Dimension	435mm(W) x 87mm(H) x 780mm(D)
Weight	Full configuration<31kg, please refer to the technical white paper for details
Working Temperature	5℃～45℃, please refer to the technical white paper for details

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