NF5180M4

High-end 1U rack server comparable to 2U servers

Product Highlights

NF5180M4 is the first high-end 1U 2- socket rack- mount server based on Inspur's new datacenter and application driven optimization technology. This product has inherited high quality, high reliability and performance achievements of Inspur's latest M4 series. Further enhancements include energy efficiency, system maintenance and management improvements. With its unique design the NF5180M4 exhibits performance and features comparable to a 2U system but within a 1U space.

Key Features

Comparable to 2U system performance

Leveraging Intel® Xeon® E5-2600 v3/v4 series processors, NF5180M4 systems are 50% larger (in core count and cache size) than the previous generation, featuring 2133MHz maximum frequency.

In terms of memory, the NF5180M4 uses the latest DDR4 memory technology. The 24 memory slots can support a maximum capacity of 3T, as needed for enterprise virtualization and high workloads.

Regarding the PCIE slots it has the flexibility to support 3 PCIE-3.0 in 1 U space.

Using Inspur's unique F-LOM technology, the NF5180M4 achieves break-through network performance. Users can customize the 10 Gigabit adapters according to their networking needs. The NF5180M4 also supports IPMI 2.0 and SNMP3.0 technology, for remote system monitoring, remote KVM and virtual media.

The system also features Inspur's external visualization management module, which simplifies device management in the datacenter environment. With Inspur's light path diagnostic; IT service personnel can quickly determine which device needs maintenance and quickly resolve the problem

Power control, cooling system design and system security

There are multiple temperature sensors in the system which capture the internal temperature and conduct dynamic regulation of the fan speed in real time. Carefully designed cooling system ensures stable and safe operation of the server.

The NF5180M4 leverages Inspur's power consumption management technology for real-time monitoring and control of the system power and for improving the overall performance.

The top cover safety lock and intrusion alarm have further strengthened the security of the system. It also complies with TPM2.0 trusted encryption technology for data protection security

Feature	NF5180M4 Technical Specification
Form Factor	1U
Processor	2 Intel ® Xeon ® E5-2600v3/v4 series processors
Memory	24 memory slots for DDR4-2400 memory and 3.0 TB memory to the maximum (when using memories with a single capacity of 128GB), four-channel interleaving access, memory error correction, memory mirroring, and other advanced functions
Hard Disk Controller	Onboard SATA 6Gb hard disk interface
RAID	RAID supporting 0/1/5/6/10/50/60, cacheable high-performance SAS RAID controller and extensible cache power-off protection module
Storage	Supports 8 front-set 2.5'' hot-swap SATA/SAS interfaces and 2 pieces of 2.5'' hot-swap SATA-interface hard disks or solid-state disks at most,

	4 front-set 3.5" hot-swap SATA/SAS-interface hard disks or solid-state disks at most, and 2 pieces of 2.5" hot-swap SATA-interface solid-state disks
I/O Expansion Slot	Supports a maximum of 3 PCI-E3.0 slots
Integrated I/O Port	Rear-set: two USB 3.0 interfaces and 1 VGA interface Front-set: 2 USB 3.0 interfaces and 1 VGA interface Built-in: 2 USB 3.0 interfaces and 1 built-in serial port
Network Controller	Integrated dual Gigabit network cards supporting virtualization acceleration, network acceleration, load balancing, redundancy and other senior functions; one independent integrated Gigabit network interface specifically for remote management of IPMI
Power Supply	Supports platinum/titanium alloy power supply, optional 1+ 1 redundancy, and supporting PMBus function
Supply voltage	AC 110-240V, DC -40V to -60V, and 180-400V
Management functions	Integrated system management chip supporting IPMI2.0, KVM over IP, virtual media, and other management functions, and supporting the management suite for the latest Ruijie server of Inspur.
Supporting operating systems	Windows Server 2008/2012 R2, Red Hat Enterprise Linux 6 U5 64Bit; SuSE Linux Enterprise Server 11 SP3 64Bitl; Vmware5.5; Citrix 6.2; and Solaris 11.2, etc. The capacity of supporting operating systems varies under a different configuration. Refer to Inspur for details.
Official OS certification	Windows Server 2008/2008 R2/2012/2012 R2 ; Red Hat Enterprise Linux 7.1-7.x/6.5-6.x. VMware ESXi 6.0 Citrix XenServer 6.5, Oracle Linux 7, Oracle VM 3.3, Solaris 11.2, SuSE Linux Enterprise Sever 12 Refer to Inspur for details.
Work environment temperature	0°C- 40°C The configuration supporting high temperature is 0°C-45°C. Refer to Inspur for details.
Case	W (width) 430mm; H (height) 44mm; D (depth) 730mm
Reference weight	26kg