



# NF5280M6

All scenarios adaptable  
rack server



**Inspur NF5280M6 is a high-end 2U 2-socket rackmount server configured with the 3rd Gen Intel® Xeon® Scalable Processors. For different application scenarios, NF5280M6 maintains the consistent high-quality and reliability of Inspur servers. The product meets the application configuration requirements of various industries with high computing performance, complete ecological compatibility, and flexible configuration, and is suitable for various application scenarios such as data analysis and processing, deep learning, and distributed storage etc.**

## Features

### High Performance

- NF5280M6 configured with 2 latest 3rd generation Intel® Xeon® scalable processors, each CPU has up to 40 cores and 80 threads. The maximum TDP 270W, maximum base frequency 3.6GHz, 1.5MB L3 cache per core and 3 UPIs up to 11.2GT/s.
- NF5280M6 provides extraordinary speed, high availability and a maximum of 4T memory capacity with up to 32 \* DDR4-3200MT/s ECC RDIMMs or LRDIMMs.
- NF5280M6 protects data integrity during power failure without degrading memory capacity and bandwidth by support Intel® Optane™ Persistent Memory, It up to 512G capacity and 3200MHz bandwidth.

### Flexible Expansion

- Support up to 20 \* 3.5-inch or 39 \* 2.5-inch drives.
- Support OCP 3.0 (optional) and 10/25/40/100/200G network interface.
- Support up to 11 \* PCIe slots for further I/O performance upgrade.
- Support rear 2 \* SATA M.2/E1.S (optional) to meet a variety of storage needs.

### Intelligent Management

- NF5280M6 adopts easy maintenance design and the entire system supports tool-less maintenance. By optimizing some structural components, it allows convenient assembly and reduces the maintenance time.
- With Inspur's unique intelligent temperature control technology and advanced air-cooling system to keep the server working in the best environment, to ensure the stable operation of the system.
- Relying on the latest BMC technology, technicians can perform monitoring and troubleshooting via the web-based GUI and LEDs (for fault diagnosis and prognosis). The front-panel UID indicator indicates the failure components and identifies the faulty or abnormal components in a timely manner, thus, simplify the maintenance workflow, speed up troubleshooting, and improve system availability. BMC supports to monitor system parameters and triggers alarm notification for potential failures, thus, allow technician to be prepared in case of failure, secure stable machine operation, and reduce the risk of system shutdown.

# Specifications

Components	Description
Form Factor	2U rack
Processor	Supporting 1/2 * 3 <sup>rd</sup> Gen Intel® Xeon® Scalable Processors Max. processor core: up to 40 cores (freq. 2.3GHz) Max. processor frequency: 3.6GHz (4 cores) 3 * UPIs and each supports 11.2GT/s TDP: up to 270W
Chipset	Intel® C621A
Memory	Up to 32 * DIMMs (8 channels /CPU, each channel supports 2 DIMMs): Each CPU supports up to 16 * DIMMs, dual CPU supports 32 * DIMMs (up to 3200MT) Supporting RDIMM and BPS Memory Protection Schemes: ECC; Memory Mirroring; Memory-Level Protection
Storage	Front: 24 * 2.5-inch SATA/SAS/NVMe SSDs (hot swappable)                      25 * 2.5-inch SATA/SAS SSDs (hot swappable) 12 * 2.5-inch/3.5-inch SATA/SAS/NVMe SSDs (hot swappable)
	Rear: 4 * 2.5-inch SATA/SAS/NVMe SSDs (hot swappable)                      10 * 2.5-inch SATA/SAS SSDs (hot swappable) 4 * 3.5-inch SATA/SAS/NVMe SSDs (hot swappable)                      (Optional) 2 * SATA M.2 or E1.S
	Internal: 4 * 3.5-inch SATA/SAS SSDs max. 2 * TF cards (1 * BIOS; 1 * BMC)
Storage Controller	RAID controller, SAS controller Onboard PCH supports 14 * SATA interfaces. Onboard Intel® NVMe controller, NVMe RAID Key (optional)
Network	1 * OCP3.0 (optional), 10/25/40/100/200G                      2 * Onboard 10G Ethernet ports Standard NICs: 1/10/25/40/100G
I/O Scalable Slot	Up to 11 * PCIe slots                      1 * OCP3.0 x16 NIC 4 * DW GPUs or 8 * SW GPUs                      1 * RAID Mezz card
Interface	2 * Rear USB3.0, 1 * Front USB3.0, 1 * Front USB2.0, 1 * Front VGA, 1 * Rear VGA
System Fan	4 * Hot-swappable N+1 redundancy fans
PSU	Supporting 2 * 550W/800W/1300W/1600W/2000W CRPS PSU, 1+1 redundancy
System Management	1 * Onboard independent 1000Mbps serial port for IPMI remote management
OS	Microsoft Windows Sever, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, etc.
Dimension(W x H x D)	With mount ears: 478.8mm (18.9 inches) x 87mm (3.5 inches) x 811.7mm (32 inches) Without mount ears: 435mm (17.2 inches) x 87mm (3.5 inches) x 780mm (30.7 inches)
Weight	37.5kg (82.7lbs)
Working Temperature	5°C~45°C (41°F~113°F)