

inspur

Inspur® Rack Server NF5280R6

Featuring the Latest Arm® Architecture



■ NF5280R6 is a high-end dual-socket server featuring the Ampere® Altra®/Altra Max® processor. Based on the latest Arm® Architecture, it breaks more application bottlenecks. NF5280R6 inherits the high quality and reliability of Inspur servers. With the high computing performance and configuration flexibility, NF5280R6 can fulfill a variety of complicated workloads, and particularly fits application scenario such as cloud container deployment, Android cloud games, and big data.

Inspur Electronic Information Industry Co.,Ltd.
Email: sv_str@inspur.com
Service Hotline: 8008600011/ 4008600011
<https://en.inspur.com/>

Inspur Korea office
Email: krsales@inspur.com
Service Hotline: +82-805600011/+82 7042287340
<https://ko.inspur.com/>

Inspur Systems,Inc.
Email: sales@inspursystems.com
Service Hotline: +1-8448600011/+1-7607691847
www.inspursystems.com

Inspur Russia office
Email: rusales@inspur.com
Service Hotline: +7-8001010011/+7-499371961
<https://ru.inspur.com/>

Inspur Germany office
Email: eusales@inspur.com
Service Hotline: +49-8008500011/+49 71120649400
<https://de.inspur.com/>

Inspur Japan office
Email: jasales@inspur.com
<https://ja.inspur.com/>

Benefits

Exceptional Performance

■ NF5280R6 supports two latest Ampere® Altra® processors, each of which has up to 80 cores and 80 threads, with a maximum TDP of 250 W and a maximum frequency of 3.3 GHz. It supports 2 groups of x16 CCIX links, with a transmission rate of up to 25 GT/s per link. It also supports Altra Max® processors, each of which has up to 128 cores, further boosting its performance. ■ NF5280R6 supports up to 32 DDR4 ECC memory modules (3200 MT/s, RDIMM), offering a maximum capacity of 2 TB to deliver high speeds and superior availability.

Agile Expansion

■ Up to 12 × 3.5" or 2.5" SAS/SATA/NVMe drives in the front or 4 × 2.5" SAS/SATA/NVMe drives at the rear. ■ Optional OCP NIC 3.0 module with multiple network port options (10 Gb/s, 25 Gb/s, 40 Gb/s, or 100 Gb/s), offering a more flexible network architecture for different applications. ■ Up to 8 standard PCIe expansion cards, further enhancing I/O performance. ■ Optional 2 on-board SATA M.2 drives or 1 on-board NVMe M.2 drive for diverse storage demands.

Smart Management

■ With a user-friendly design, the entire system supports tool-free maintenance. The enhanced and optimized structures realize easy assembly/disassembly and greatly reduce O&M time. ■ Inspur's unique intelligent regulating technology combined with an advanced air cooling system creates an optimum working environment to ensure the stable running of the server. ■ With the latest BMC, technicians can quickly locate components that have failed (or are failing) through the Web GUI, fault diagnosis LEDs and UID LEDs on the front panel, simplifying maintenance, speeding up troubleshooting, and enhancing system availability. ■ Technicians can monitor system parameters, get alarms in a timely manner, and take proper actions accordingly to ensure stable running of the system and minimize system downtime.

Product Specifications

Item	Description
Form Factor	2U rack server
Processor	1 or 2 Ampere® Altra®/Altra Max® processors: Up to 80 cores (3.3 GHz)/128 cores (3.0 GHz) 2 groups of x16 CCIX links, up to 25 GT/s per link TDP up to 250 W
Memory	1. Up to 32 DIMMs 2. 8 memory channels per processor, and up to 2 memory slots per channel 3. Up to 3200 MT/s 4. RDIMMs supported 5. ECC, memory mirroring and memory rank sparing
Storage	Front Drive 12 × 3.5" or 2.5" hot-swap SATA/SAS/NVMe drives Rear Drive 4 × 2.5" hot-swap SATA/SAS/NVMe SSD drives Onboard Drive 2 optional onboard SATA M.2 drives or 1 onboard NVMe M.2 drive Up to 1 BMC TF card
Network Port	1 optional OCP NIC 3.0 module (10 Gb/s, 25 Gb/s, 40 Gb/s, and 100 Gb/s) Standard PCIe form factor: 1/10/25/40/100G NIC
I/O Expansion Slot	Up to 8 PCIe slots Altra supports 4 single-width GPUs, while Altra Max supports 8 single-width GPUs 1 OCP NIC 3.0 (x16)
Port	2 rear USB 3.0 ports + 1 front USB 3.0 port + 1 front USB 2.0 port 1 front VGA port 1 rear VGA port
Fan	4 hot-swap 8056 fans with N+1 redundancy
PSU	550/800/1300/1600/2000 W CRPS standard PSUs with 1+1 redundancy 110 VAC – 230 VAC: 90 V – 264 V 240 VDC: 180 V – 320 V
System Management	Integrated with 1 independent 1000 Mbps network port, dedicated for IPMI remote management
Operating System	RHEL 8.3, Centos 8.1, Ubuntu 18.04, and so on
Dimensions	With mounting ears: 478.8 × 87 × 811.7 mm (18.85 × 3.43 × 31.96 in) (W × H × D) Without mounting ears: 435 × 87 × 780 mm (17.13 × 3.43 × 30.71 in) (W × H × D)
Weight	Gross weight (with all drives loaded) < 37.5 kg (82.67 lbs) (For details, please refer to the white paper)
Operating Temperature	5°C – 45°C (41°F – 113°F) (For details, please refer to the white paper)