


NF5280R6

2U 2-Socket ARM-based Open Server

ARM-based open server to support native cloud workloads.

Featuring two Ampere® Altra® Max ARM CPUs, this 2U open server delivers superior performance, high memory capacity, and energy efficiency to support the needs of cloud service providers.

Growing Ecosystem to Enable Cloud-Native Workloads with Ampere® Altra® Max and Ampere® Altra®.

The movement of legacy workloads to the cloud is driving CSPs to pivot to more cost-efficient and sustainable infrastructures. Ampere is working with hardware ecosystem partners like Inspur to deliver power-efficient, optimized performance with aarch64-based processor cores to provide flexible, scalable, and secure cloud native servers.



High Bandwidth

- ▶ 128-PCIe Gen4 lanes and 8-channels of DDR4-3200 memory



High Performance

- ▶ Can deliver performance superior to x86 CPUs
- ▶ 62% higher performance per core, 8% lower power and 80% higher performance per watt



Specifications

Item	Description
Processor	2x Ampere Altra/Altra Max CPU, up to 128 Arm v8.2+ 64-bit CPU cores at 3.00 GHz
Memory	16x 72-bit DDR4-3200 channels: up to 32 DIMMs per system (2DPC) Up to 4 TB of DRAM memory support per socket
USB Interfaces	1 USB 3.0 and 1 USB2.0 port on the front panel and 2 USB 3.0 ports on the rear panel
I/O	Front End: 1 USB 3.0, 1 USB 2.0, 1 VGA interface, ID LED, ID Button Back End: 2 USB3.0, 1 VGA interface, 1 serial port, 1 Server Management port, ID LED, ID Button
Storage Drive Bays (NVMe SSDs)	Front End: Up to 12 3.5"/2.5" SaS, SATA & NVME drives Back End: 4 X 2.5 SAS/SATA/NVMe drives 2x Onboard M.2 NVMe SSDs
OCP NIC	OCP 3.0 Card slot supports Multi-Host and NCSI
Network Interfaces	Reserved dedicated network card interface for NCSI Dedicated RJ-45 server management port with 1G
Power Supply	Support 1+1 redundant power (Active-standby, Active-Active with automatic switch)
Expansion Slots	8 X PCIe Slot (4*x16 + 4*x8) PCIE GEN4
Systems Management	IPMI 2.0, Redfish, and WebUI Serial-Over-LAN (SOL) Remote KVM Hardware health monitor
Operating System	CentOS 8.0
Firmware Support	UEFI: Aptio® V, EDK2 BMC: MegaRAC®, OpenBMC
BMC	ASPEED Technologies AST2500 Baseboard Management Controller
Dimensions	2U Form Factor: 31.5" (Length) x 19" (Width) x 3.5" (Height)