



The Nfina Technologies 8224R-i20 NAS, a low latency, high-density storage solution ideal as an all-flash array, high-performance backup, or in a HA cluster.

## Features:

- 2U rack-mount dual-socket server
- Choice of Intel® Xeon® Scalable Processors
  - Platinum, Gold, Silver and Bronze Available
  - 1.7GHz to 3.8GHz processor speeds available
  - Up to 28 cores per processor
- Intel® Advanced Vector Extensions (AVX-512)
  - Accelerates deduplication, encryption, compression, & decompression
  - Double the flops per clock cycle of AVX2
- Intel® Ultra Path Interconnect (UPI)
  - Provides increased scalability of the platform
  - Improves communication and throughput between multiple processors
- 2 x 10GbE (100/1000/10000) LAN ports
- Integrated iWARP RDMA Ethernet
- 24 DIMM slots, DDR4-2133/2400/2666MHz
  - Up to 1.54TB total memory
- Supports Intel® Optane™ Memory
- 24 x 2.5" hot-swap drive bays,
  - Supports SAS, SATA, SSD, & NVMe
- Intel® VMD enables hot-swapping NVMe SSDs
- 2 x 2.5" hot swap rear drive bays optional
- 2 x 2.5" internal SSD drive support
- 2 x M.2 SSD connectors, PCIe or SATA (22x80)
- Up to 264TB storage
- 12Gb/s SAS capable
- Redundant hot-swap power supplies
- LSI® hardware RAID & caching optional
- Intel® VROC for optional NVMe RAID

Offering complete redundancy for backup, disaster recovery, or business continuity solutions the 8224R-i20 NAS is the ideal candidate for an all-flash storage array or for creating storage pools in a HA cluster and can be loaded with 24 NVMe/SSD direct attach drives, alleviating the I/O bottleneck between high performance and capacity.

In environments consisting of hyperconverged systems, virtualized systems, advanced analytics, or artificial intelligence, the 8224R-i20 NAS delivers on performance and efficiency. Data centers for enterprise, military, and municipal government will benefit from Nfina's outstanding value, reliability and performance.

Nfina products deliver exceptional functionality by creating products that are easily customized to fit specific applications. Designed and built for virtualized computing environments, our products provide high-density, maximum yield solutions for our customers. Multiple options for high performance computing, including I/O, RAID, storage, and memory options make our products a custom fit for many applications.

All Nfina Technologies' servers are backed by a five-year limited warranty and include 24x7 tech support with remote diagnostics. Next day and four hour on-site response options are available.

## Specifications

Form Factor	2U rack-mount, 3.44" x 16.93" x 27.95"
Operating Temperature	10°C to 35°C (50°F to 95°F)
Processor	Intel® Xeon® Scalable Processors, up to 28 cores each
Processor Speed	1.7GHz to 3.8GHz
Socket	Dual Socket P
Memory	Up to 24 DIMMs, DDR4 ECC 2133/2400/2666 MHz Up to 1.54TB Memory Intel® Optane™ Memory supported
I/O	Five USB and Two serial ports
Ethernet	2 x 10GbE LAN (100/1000/10000) standard, other options available
PCIe® Slots	Two - 3x PCIe® Gen3 x8 One - 1x PCIe® Gen3 x8 + 1x PCIe® Gen2 x4
Storage	24 x 2.5" hot-swap drive bays (front) Supports: 24 NVMe, SSD, SATA, and SAS drives 2 x 2.5" rear mounted hot-swap drives (optional) 2 x 2.5" internal SSD drives (optional) 2 x Internal M.2 SSDs, PCIe® or SATA 22x80 (optional)
Maximum Storage	Up to 264TB, depending on drive type
Software RAID	0,1,10, optional 5 Intel® VROC (Virtual RAID on CPU) for optional NVMe RAID
Hardware RAID	LSI® Hardware RAID (optional)
Input Voltage	100-127V @ 8.5A, 50/60 Hz 200-240V @ 7.5A, 50/60 Hz
Power Supply	Redundant hot-swap 1300W AC power supplies
Remote Management	Remote Management Module (RMM) included
Trusted Platform Module	Trusted Platform Module (TPM) optional
Supported OS	Microsoft® Windows Server® 2012 R2, 2016, 2019, VMware® ESXi™ 6.0/6.5, Open-E® JovianDSS™ & DSS7, Red Hat® RHEL 5,6,7, SUSE® SLES 11,12, Ubuntu 14,15,16,17, XenServer® 6.5-7.3, CentOS™ 6,7, KVM, more
Certifications	NRTL Nemko (US, Canada), CE (Europe), RCM (Australia/NZ), GS (Germany), FCC (US), ICES-3(A) (Canada), KC (Korea), Ukraine Certification, BSMI (Taiwan), EAC (Russia), VCCI-A (Japan), RoHS EVPU 20 (China), MIC (Vietnam)

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