nfina
Storage Solutions

7212R-i20s

The Nfina Technologies 7212R-i20s is a high-performance, high-density storage solution perfect as a stand-alone SAN appliance or in a hyperconverged cluster.

Features:

- Twin 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
- 4 x 10GbE (100/1000/10000) LAN
- Integrated iWARP RDMA Ethernet
- Up to 1.54TB memory (per chassis)
- Supports Intel® Optane™ Memory
- 24 x 3.5" hot-swap drive bays
  - Supports SAS, SATA, SSD, & NVMe
- Intel® VMD enables hot-swapping NVMe SSDs
- 4 x 2.5" hot swap rear drive bays optional
- 4 x 2.5" internal SSD drive support
- 4 x M.2 SSD connectors, PCIe or SATA (22x80)
- Up to 288TB (144TB usable) Storage
- 12Gb/s SAS capable
- Redundant hot-swap power supplies
- LSI® hardware RAID & Caching available
- Intel® VROC for optional NVMe RAID
- GUI SW with Active-Active Failover
- No single point of failure

The Nfina 7212R-i20s SAN with Intel® Xeon Scalable System Framework (SSF) is truly a breakthrough in storage technology. Built with flexibility and reliability at the forefront this SAN can be equipped with a hybrid array of SATA, SAS, NVMe, SSD and M.2 drives. An easy to use GUI allows flexible storage provisioning as a SAN appliance or a hyperconverged cluster.

In IT environments consisting of hyperconverged systems, virtualized systems, advanced analytics, or artificial intelligence, the 7212R-i20s SAN delivers on performance and efficiency.

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.

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Specifications

Form Factor	Twin 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 Speeds	1.7GHz to 3.8GHz processor speeds
Socket	Dual Socket P
Memory	Up 24 DIMMs, DDR4 ECC 2133/2400/2666 MHz (per chassis) Up to 1.54TB Memory (per chassis) Intel® Optane™ Memory supported
I/O	Five USB, Two serial ports (per chassis)
Ethernet	2 x 10GbE (100/1000/10000) LAN standard (per chassis)
PCIe® Slots	Two - 3x PCIe® Gen3 x8 (per chassis) One - 1x PCIe® Gen3 x8 + 1x PCIe® Gen2 x4 (per chassis)
Storage	12 x 3.5" hot-swap drive bays (front- per chassis) Supports/per chassis: 12 x SSD, SATA, SAS drives - *or* - 　　　　　　　　　　10 x SSD, SATA, SAS and 2 x NVMe drives 　2 x 2.5" rear mounted hot-swap drives (optional – per chassis) 　2 x 2.5" internal SSD drives (optional – per chassis) 　2 x Internal M.2 SSDs, PCIe® or SATA 22x80 (opt. -per chassis)
Maximum Storage	Up to 288TB (144TB usable)
SW RAID	0,1,10, optional 5, Intel® VROC (Virtual RAID on CPU) for optional NVMe RAID
HW RAID	LSI® Hardware RAID (optional)
Input Voltage	100-127V @ 8.5A, 50/60 Hz 200-240V @ 7.5A, 50/60 Hz
Power Supplies	Redundant hot-swap 1300W AC power supplies
Remote Management (RMM)	Remote Management Module included
Trusted Platform Module (TPM)	Trusted Platform Module optional
Supported OS	Open-E® JovianDSS™, VMware® ESXi™ 6.0/6.5, Microsoft® Windows Server® 2012 R2, 2016, 2019, 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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