

Nfina 7312R Server



FEATURES:

- 2U rack-mount dual-socket server
- Choice of 3rd Generation Intel® Xeon® Scalable Processors
 - Platinum, Gold, and Silver available
 - 2.3GHz to 3.4GHz processor speeds available
 - Up to 40 cores per processor
- 32 DIMM slots
 - Up to 12TB total memory
- Supports Intel® Optane™ Memory
- 12 x 3.5" hot-swap drive bays
 - Supports SSD, NVMe, HDD
- 2 x 2.5" internal fixed SSDs (optional)
- 2 x M.2 NVMe connectors
- Redundant hot-swap power supplies
- 1 x 1GbE dedicated management port
- 2 x 10GbE LAN ports
- VMware ESXi certified server

The Nfina 7312R with 3rd Generation Intel® Xeon® Scalable Processors is a high-value, high-density server ideal for demanding, compute-intensive applications.

Delivering network agility, and flexibility Nfina's 7312R, 12-bay 2U dual-socket server is the perfect choice for hyperconverged networks or scale-out storage. Configure this server with a combination of SSD, NVMe, and M.2 drives for a powerful hybrid storage solution. In IT environments consisting of hyperconverged systems, virtualized systems, advanced analytics, or artificial intelligence, the 7312R-i20 server delivers on performance and efficiency.

For added data protection and retention, we also recommend using the 7312R as a High-Availability device within a Hybrid-Cloud Solution.

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 onsite response options are available.

Nfina server solutions come with no adware, spyware, bloatware, or trackware.



HYBRID CLOUD SOLUTIONS
CYBER SECURE SERVERS
BACKUP & RAPID DR
DATA STORAGE

nfina
HYBRID ■ CLOUD SOLUTIONS

NFINA 7312R

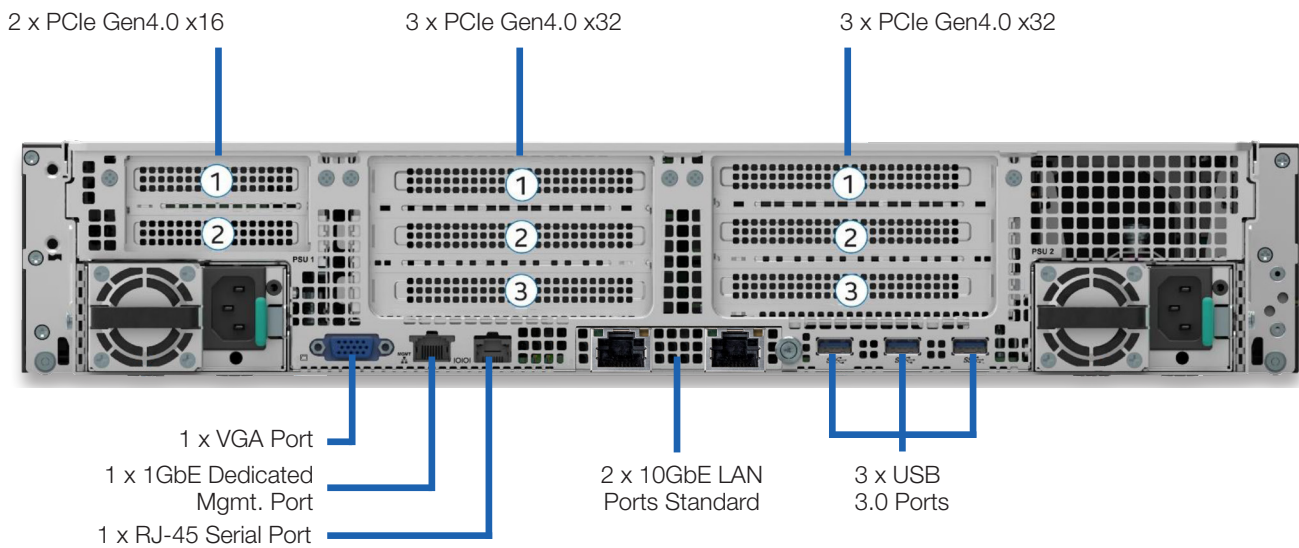
SPECIFICATIONS

Form Factor	2U rack-mount, 3.42" x 17.56" x 30.3"
Operating Temperature	10°C to 35°C (50°F to 95°F)
Processor	3rd Generation Intel® Xeon® Scalable Processors, 40 cores each, 270W max
Processor Speed	2.3GHz to 3.4GHz
Processor Cache	60MB
Socket	Dual Socket P
Memory	Up to 32 DIMMs, DDR4 ECC 3200 MHz 12TB Max memory capacity Intel® Optane™ Memory supported (200 series)
Storage	12 x 3.5" or 2.5" hot-swap drive bays Supports: Up to 12 x SSD/HDD drives - or - Up to 8 x SSD/HDD drives and up to 4 x NVMe drives 2 x Internal fixed 2.5" SSD drives (optional) 2 x internal M.2 NVMe connectors, PCIe® or SATA (22110 or 2280 FF)
Software RAID	0, 1, 10, optional 5
Hardware RAID/Caching	Hardware RAID optional, Caching available
Input Voltage	100-127V @ 12A, 50/60 Hz 200-240V @ 9.5A, 50/60 Hz
Power Supply	Redundant hot-swap 1600W AC
Remote Management	BMC, IPMI 2.0, KVM over HTML5, and Redfish
TPM	Version 2.0, optional
Software Certifications	VMware® ESXi™ 7.0 U2,U3 w/Direct Path I/O, SR-IOV, Fault Tolerant, TPM 2.0 w/ text
OS Supported	Microsoft® Windows Server® 2019, 2022, VMware® ESXi™ 6.7, 7.0, 8.0, vSphere® 8.0, Nfina-Store™, Open-E® JovianDSS™ & DSS7, Red Hat® RHEL 7.9-8.4, SUSE® SLES 15 SP2, 15 SP3, Ubuntu 20.04-LTS, 20.10, 21.04, CentOS™ 8.2, CentOS™ Linux 7, more options available
Regulatory Certifications	CE (Europe), FCC part 15 (US), EAC (Eurasia), NRTL certification (US, Canada), RCM DoC (Australia/NZ), International Compliance - CISRP32 & CISPR24, CB Certification (International), GS (Germany), CU Certification (Russia, Belarus, Kazakhstan), KC (Korea), Ukraine Certification, BSMI (Taiwan), VCCI Certification (Japan), NOM Mexico Certification, South Africa Certification, BIS (India), WEEE (Europe), RoHS (Europe) RoHS 20 (China)
Warranty	5 years

NFINA 7312R

SPECIFICATIONS

I/O	4 x USB 3.0 ports (1 front, 3 rear) and 1 x USB 2.0 port (front) 1 x RJ-45 Serial A port (rear)
Display	1 x VGA ports (rear) 128MB of DDR4 video memory Integrated 2D video controller
Ethernet	2 x 10GbE LAN (100/1000/10000) standard, other options available 1 x 1GbE (Dedicated management port) included
PCIe® Slots	6 x PCIe® Gen4 x32 (up to 32GB/s) FH/FL 2 x PCIe® Gen4 x16 (up to 32GB/s) LP/HL



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OTHER NFINA 7312R SOLUTIONS

STORAGE SOLUTIONS

7312R-NAS

The 7312R-NAS offers high-performance storage (block and file share) for backup, disaster recovery, or business continuity solutions. It is the ideal candidate for an all-flash storage array (AFA) or for creating backup storage for a HA cluster and can be loaded with 12 HDD, SSD, or NVMe drives, alleviating the I/O bottleneck between high performance and capacity.

7312R-SAN

The 7312R-SAN dual nodes deliver high-performance, high IOPS, and low latency. This SAN equipped with 24 HDD, SSD, or NVMe drives is the ideal candidate for an AFA with a wide variety of network and storage options.

HYPERCONVERGED SOLUTIONS

7312R-HA

The 7312R-HA is a dual node hyperconverged/high-availability model developed for businesses requiring a High-Availability solution with a large number of VMs, maximum performance, and uptime. These dual-socket servers support 24 SSD or HDD drives, or 20 SSD or HDD and 4 NVMe drives. They provide a high level of security, redundancy, and fast data response times. Certified with VMware® ESXi™ and Microsoft® Hyper-V.

7312R-E

The 7312R-E single-node edge device is optimal for businesses that require a high amount of VMs, storage capacity, and more performance than mid-level models. This dual-socket server is an excellent solution that supports 12 SSD or HDD drives, or 10 SSD or HDD and 2 NVMe drives. Certified with VMware® ESXi™ and Microsoft® Hyper-V.

HYBRID CLOUD EDGE-TO-CLOUD SOLUTIONS

7312R-HC

The 7312R-HC is a dual node, twenty-four bay Hybrid Cloud solution, designed for businesses requiring High-Availability with maximum performance and uptime. Nfina's Hybrid Cloud solutions are the perfect alternative to the public hyperscale cloud, offering more benefits than the public cloud without the cost and complexity. Copies of your data are maintained on-site and at geo-redundant off-site locations. Nfina's Hybrid Cloud solutions makes storage, compute, backup, disaster recovery, managed services, and system monitoring easy by becoming your single point of contact for the entire process.

Nfina's Hybrid Cloud products include easy and reliable backup and disaster recovery management tools. **Nfina-Store™** is management software designed to create and manage data storage pools. Snapshots created according to your desired frequency provide fool-proof on and off-site backup and disaster recovery protection. For added security, snapshots are encrypted during transmission with at-rest encryption available as an option. **Nfina-View™** software uses a unified management control pane to monitor your edge and cloud data storage pools. In the event of an outage or failure, Nfina-View allows you to quickly failover and run from your backups in minutes, not hours or days. If a ransomware attack occurs, your system is rolled back and restored from snapshots taken before the event occurred. Nfina-View also allows you to test your backups and failover procedures, assuring your IT systems are protected if an actual disaster occurs.



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