

Nfina 5312R Server



FEATURES:

- 1U 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 2.5" hot-swap drive bays
 - Supports SSD & NVMe
- 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 5312R with 3rd Generation Intel® Xeon® Scalable Processors is setting new benchmarks in server performance.

The 5312R offers exceptional performance and value in a 1U server platform. 3rd Generation Intel® Xeon® Scalable Processors deliver superior performance per-core, and enhanced memory capability makes the 5312R a remarkably fast server. The 5312R configured with twelve SSD or NVMe drives makes an ideal high performance all-flash array for robust virtualized environments with demanding applications. This server is a perfect fit for data center and enterprise applications that require a High-Performance-Computing (HPC) platform.

We also recommend using this device in Nfina's Hybrid Cloud solution which is designed to unify data management and protect your data from ransomware.

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 Hybrid Cloud 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 5312R

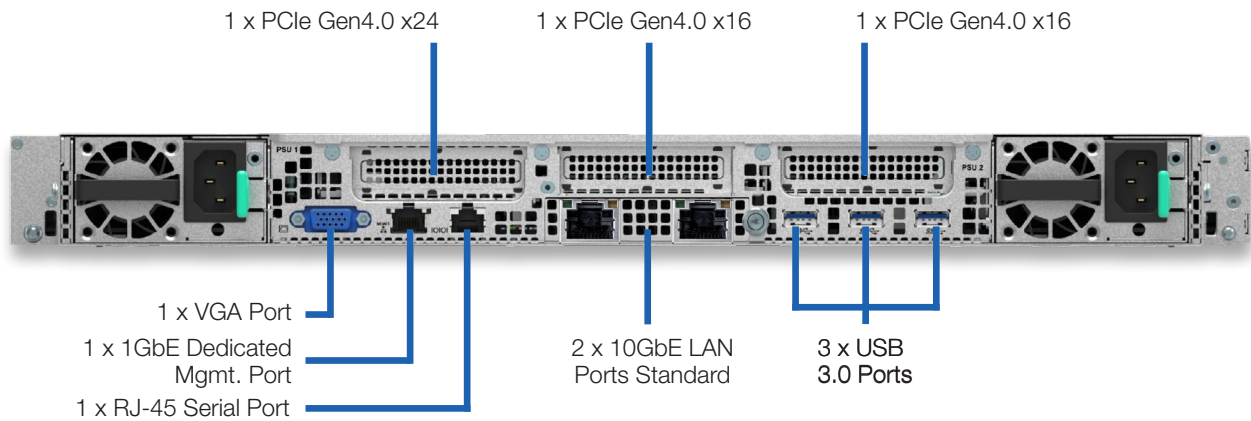
SPECIFICATIONS

Form Factor	1U rack-mount, 1.69" x 17.24" x 30.74"
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 2.5" hot-swap drive bays Supports: SSD and NVMe drives 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

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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	1 x PCIe® Gen4 x24 (up to 32GB/s) 2 x PCIe® Gen4 x16 (up to 32GB/s)



OTHER NFINA 5312R SOLUTIONS

HYBRID CLOUD EDGE-TO-CLOUD SOLUTIONS

5312R-HC

The 5312R-HC is a single node, eight bay Hybrid Cloud solution, designed for mid-sized companies that require more VMs, storage capacity, and performance than entry-level models. 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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Rev. 0123



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