The Nfina Advantage

Nfina Technologies is a US based manufacturer of Data Storage, Servers, and Hyperconverged Clusters that combines current high performance technology with a market leading 5-year warranty and US based tech support. Nfina provides the best value and lowest TCO in the industry.

We supply products to IT departments with growing compute and storage requirements who need the latest technology in order to maximize their IT infrastructure spending dollars. Every Nfina customer receives personal attention from our staff, because our success is tied to your business.

Outstanding Performance

"The Nfina 418i2 turned out to be an outstanding workstation that exceeded my performance expectations. Thus, I have decided to purchase three more 418i2 Workstations from Nfina".

Dr. Georgios Y. Lazarou, Assistant Professor / Director of ISTL
University of South Alabama

Highest Quality IT Products

"I needed a low-cost solution without sacrificing reliability or quality. Nfina’s use of best-in-class components and their willingness to listen to my needs and find a way to meet them made them the clear choice. Quick delivery time and a customer service team that listens and gets the job done makes Nfina a trusted partner for my business".

Jerry Lathan, CEO & Owner
The Lathan Company, Inc., Historical Restoration Specialists

Trusted Business Relationship

"Once we decided to move forward with Nfina, we were very impressed with their service and more importantly, their turn-around time. Never once did we feel like we were stuck in a queue while they moved on to their next potential client. Throughout the process they became a trusted partner as they sought to understand our business and recommend the equipment that best met our needs...not the equipment that best met their goals ".

Douglas Meduna, President & CEO
FairHope Direct, Direct Mail Retailer
At Nfina we pride ourselves in delivering:

**Better Cyber Security**
Our products are free of adware, bloatware, spyware, and tracking software.

**5-Year Product Warranty**
Best in the industry! We stand behind the reliability and quality of our products.
- 100% Enterprise Hardware Components
- 2 Million Hours MTBF Reliability
- Tested & Certified by our Technology Partners

**Superior Tech Support**
24/7 US based tech support. No third party call centers.

**Faster Lead Times & Delivery**
We provide same business day, custom quotes and quick delivery.

**Lowest Total Cost of Ownership**
TCO can be reduced 2 to 3 times over eight year period compared to vendors like Dell/EMC, HPE, and IBM.

**Industry Proven**
Our products are installed in a variety of industries
- Banking
- Data Centers
- Education
- Enterprise
- Government
- Healthcare
- Security & Surveillance
If ease of setup and flexible scalability are important then Nfina’s Scalable SANs are the perfect choice. Built with Intel® Scalable System Framework as its backbone these SANs are a no-single point of failure storage solution. An easy to use GUI allows flexible storage provisioning for mission-critical storage and High-Availability (HA) clusters.

8224R-i20s SAN

The 8224R-i20s SAN with Intel® Scalable System Framework (Intel SSF) is truly a breakthrough storage solution. Equipped with 48 NVMe/SSD drives, this SAN is an ideal candidate for an all-flash storage array, alleviating the I/O bottleneck between high performance and capacity. Capable of taking unlimited snapshots, locally and remotely, this SAN boasts no single point of failure ensuring your business data is secure.

- Twin 2U rack-mount, dual-socket servers
- 2nd Gen Intel® Xeon® Scalable Processors
- 2 x 10GbE LAN ports (per chassis)
- 48 x 2.5” (front) + 4 x 2.5” drive bays
  - Supports NVMe, SSD, SAS, SATA
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- Open-E® JovianDSS™ iSCSI, SMB/CIFS, NFS
- On/Off Site data protection w/ instant recovery
- Tiered RAM and SSD Caching
- Unlimited snapshots and clones
- Data compression & in-line deduplication

7212R-i20s SAN

Flexible scalability are the two words that describe the 7212R-i20s SAN. This SAN offers unlimited snapshots for easy backup, unlimited clones for easy duplication, and a unique tiered storage and caching system which speeds up access to frequently used files. The 7212R-i20s is the perfect high-availability solution for redundant cloud, on-premise storage, backup, disaster recovery, and virtual environments.

- Twin 2U rack-mount, dual-socket servers
- 2nd Gen Intel® Xeon® Scalable Processors
- 2 x 10GbE LAN ports (per chassis)
- 24 x 3.5” (front) + 4 x 2.5” drive bays
  - Supports NVMe, SSD, SAS, SATA
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- Open-E® JovianDSS™ iSCSI, SMB/CIFS, NFS
- On/Off Site data protection w/ instant recovery
- Tiered RAM and SSD Caching
- Unlimited snapshots and clones
- Data compression & in-line deduplication
Flexibility and reliability are the hallmarks of Nfina’s SAN products. They are equally at home as a hyperconverged cluster or as an appliance. Data security is provided by engineering total redundancy into our SANs, including power supplies and backplanes. The result is a solid scale-out storage solution with no single point of failure.

814i22s SAN

When performance, high IOPS, and low latency are the ultimate goal, the 814i22s SAN equipped with SSD or SAS drives is the tool for the job. Configured with two processors, a full complement of memory, and SSDs, the 814i22s is a remarkable hyperconverged cluster. With 48 – 2.5” drives, 12Gb/s connectivity, and LSI® Hardware RAID, this SAN has the capacity to store a large amount of data and the ability to transmit it quickly.

- Twin 2U rack-mount, dual-socket servers
- Intel® Xeon® Processors E5-2600 v4
- 2 x 10GbE + 2 x 1GbE ports (per chassis)
- 48 x 2.5” (front) + 4 x 2.5” (rear) drive bays
- 12Gb/s SAS/SATA connectivity capable
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID and Caching available
- Open-E® JovianDSS™ iSCSI, SMB/CIFS, NFS
- VMware® ESXi™ 6.0/6.5/6.7 certified
- Certified Microsoft® Windows Server® Storage Spaces Enclosure

714i22s SAN

When high capacity, reliability, and budget considerations are foremost, the 714i22s is a great fit. An easy to use GUI allows flexible storage provisioning as a SAN appliance or hyperconverged cluster. It has 24 – 3.5” drive bays and can be equipped with economical SATA/SAS/NVMe drives. Data will transfer to and from the disks quickly, thanks to 12Gb/s connectivity. Storage capacity can be easily expanded by adding our 602 JBOD.

- Twin 2U rack-mount, dual-socket servers
- Intel® Xeon® Processors E5-2600 v4
- 2 x 10GbE + 2 x 1GbE ports (per chassis)
- 24 x 3.5” (front) + 4 x 2.5” (rear) drive bays
- 12Gb/s SAS/SATA connectivity capable
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID and Caching available
- Open-E® JovianDSS™ iSCSI, SMB/CIFS, NFS
- VMware® ESXi™ 6.0/6.5/6.7 certified
- Certified Microsoft® Windows Server® Storage Spaces Direct Enclosure
Looking for redundancy for backup, disaster recovery, or business continuity solutions then the 8224R-i20 NAS is the perfect choice. Built with Intel® Scalable System Framework this 24 bay NAS is ideally suited for an all-flash or hybrid storage array, recommended for use as a stand alone device or as scale-up storage in a hyperconverged infrastructure.

7212R-i20 NAS

The future-ready, Nfina 7212R-i20 NAS featuring Intel® Scalable System Framework, delivers performance, scalability, and reliability with no I/O compromise. Supporting a wide range of form factors, like SATA, SAS, SSD, NVMe and M.2, this NAS is the best hybrid storage solution for backup and disaster recovery applications. It can be used as a stand-alone NAS or for creating storage pools in a HA cluster.

- 2U rack-mount, dual-socket server
- 2nd Gen Intel® Xeon® Scalable Processors
- 2 x 10GbE ports + iWARP RDMA Ethernet
- 24 x 2.5” (front) + 2 x 2.5” drive bays
  - Supports NVMe, SSD, SAS, SATA
- Hot-swappable NVMe w/o system shutdown
- 12Gb/s SAS/SATA connectivity capable
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID included, Caching avail.
- Plug-and-play expandability with 602 JBOD
- Features: Intel® AVX-512 and Intel® UPI

Needing a Backup, Disaster Recovery, or Business Continuity solution for your business, the Nfina Scalable NAS solutions are the clear winner. With an industry leading five-year warranty, Intel Architecture, and rock-solid performance these storage solutions are built to last and are capable of growing with your company needs.
Nfina’s NAS products are designed to create the best value, performance, and reliability in the industry. Ideal as high-performance storage solutions for backup and disaster recovery, or for creating or adding to storage pools in a HA cluster, Nfina’s NAS devices use only Enterprise-class drives to maximize reliability.

**814i20 NAS**

The Nfina 814i20 2U rack-mount, dual-socket storage server is ideally suited for high-performance backup in a HA cluster, and secondary storage applications. It delivers a reliable, high-density storage solution. The 814i20 NAS can be configured with low latency SSD drives for premium performance and reliability.

- 2U rack-mount, dual-socket server
- Intel® Xeon® Processors E5-2600 v4
- 2 x 10GbE ports, other options available
- 24 x 2.5” hot-swap drive bays
- 2 x 2.5” hot-swap rear drive bays
- 12Gb/s SAS/SATA connectivity capable
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID included, Caching avail.
- Plug-and-play expandability with 602 JBOD
- Certified Microsoft® Windows Server® Storage Spaces Enclosure

**714i20 NAS**

This NAS is ideal for secondary storage applications, creating or adding to data pools, multi-tiered NFS file servers, and other backup strategies. Featuring energy efficient design and Intel® Xeon® v4 processors, the 714i20 dual-socket storage server offers great value and high density by utilizing 3.5” drives. The 714i20 has 12Gb/s SAS/SATA connectivity and a highly recommended caching option that provides near SSD performance at SATA pricing.

- 2U rack-mount, dual-socket server
- Intel® Xeon® Processors E5-2600 v4
- 2 x 10GbE ports, other options available
- 12 x 3.5” hot-swap drive bays
- 2 x 2.5” hot-swap rear drive bays
- 12Gb/s SAS/SATA connectivity capable
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID included, Caching avail.
- Plug-and-play expandability with 602 JBOD
- Certified Microsoft® Windows Server® Storage Spaces Enclosure
Delivering low latency, high performance, and scalability, the Nfina 2U Premium Scalable Servers with dual 2nd Generation Intel® Xeon® Scalable Processors, offer a new level of platform convergence. These servers can be configured with 24 SSD/NVMe drives for an all-flash array or mixed with SATA/SAS, SSD/NVMe, and M.2s for a hybrid storage solution. Whatever the application, this future-ready storage is capable of tackling the workload with ease.

8224R-i20 Server

If higher IOPS and lower latency are of utmost importance then the dual socket, 8224R-i20 server is the solution. With up to 24 2.5" SSD or NVMe direct attach drives, this server is ideally suited for an all-flash or hybrid storage array, used as a stand-alone device or in a high-performance computing (HPC) cluster.

- 2U rack-mount, dual-socket server
- 2nd Gen Intel® Xeon® Scalable Processors
- Up to 28 cores per processor
- 2 x 10GbE ports (other options available)
- Up to 1.54TB memory, Intel® Optane™ support
- 24 x 2.5" hot-swap drive bays
  - Supports 24 SAS, SATA, SSD, NVMe
- 2 x 2.5" hot-swap rear drives optional
- 2 x 2.5" internal SSD support
- 2 x M.2 SSD connectors, PCIe or SATA
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID optional, Caching avail.
- Intel® VROC available for NVMe SSDs
- Features: Intel® AVX-512 and Intel® UPI

7212R-i20 Server

Delivering network agility and flexibility, the Nfina 7212R-i20, 2U dual-socket server, is the perfect choice for hyperconverged networks or scale-out storage. This server can be configured with a combination of SAS, SATA, SSD, NVMe and M.2 drives for a powerful hybrid storage solution.

- 2U rack-mount, dual-socket server
- 2nd Gen Intel® Xeon® Scalable Processors
- Up to 28 cores per processor
- 2 x 10GbE ports (other options available)
- Up to 1.54TB memory, Intel® Optane™ support
- 12 x 3.5" hot-swap drive bays
  - Supports 12/10 SAS, SATA, SSD, & 2 NVMe
- 2 x 2.5" hot-swap rear drives optional
- 2 x 2.5" internal SSD support
- 2 x M.2 SSD connectors, PCIe or SATA
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID optional, Caching avail.
- Intel® VROC available for NVMe SSDs
- VMware® ESXi™ 6.5/6.7 certified
Premium Scalable Servers

Nfina’s 1U Premium Scalable Servers with dual 2nd Generation Intel® Xeon® Scalable Processors offer a myriad of configuration options for any size workload, from general-purpose compute and virtualized environments, to mission-critical applications. Configure these servers with four 3.5” SSDs or eight 2.5” SSD/NVMe drives for reduced latency, higher IOPS, and faster CPU to data storage performance.

5208R-i20 Server

The 5208R-i20, dual-socket server, is the ideal system for robust virtualized environments and high-performance computing applications. Configure this server with eight SSD or NVMe drives for reduced latency, higher IOPS, and faster CPU to data storage performance.

- 1U rack-mount, dual-socket server
- 2nd Gen Intel® Xeon® Scalable Processors
- Up to 28 cores per processor
- 2 x 10GbE ports (other options available)
- Up to 1.54TB memory, Intel® Optane™ support
- 8 x 2.5” hot-swap drive bays
  - Supports 8 SAS, SATA, SSD, NVMe
- 2 x M.2 SSD connectors, PCIe or SATA
- Ideal all-flash NVMe/SSD solution
- 12Gb/s SAS/SATA connectivity capable
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID optional, Caching avail.
- Intel® VROC available for NVMe SSDs
- VMware® ESXi™ 6.0/6.5/6.7 certified

3204R-i20 Server

The 3204R-i20 dual-socket server delivers superior performance per-core and enhanced memory and networking capabilities. This versatile server is the perfect fit for enterprise applications, datacenters, and virtualized computing environments.

- 1U rack-mount, dual-socket server
- 2nd Gen Intel® Xeon® Scalable Processors
- Up to 28 cores per processor
- 2 x 10GbE ports (other options available)
- Up to 1.54TB memory, Intel® Optane™ support
- 4 x 3.5” hot-swap drive bays
  - Supports 4 SAS, SATA, SSD
- 2 x M.2 SSD connectors, PCIe or SATA
- Ideal for virtualized environments
- 12Gb/s SAS/SATA connectivity capable
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID optional
- Caching options available
- VMware® ESXi™ 6.0/6.5/6.7 certified
Designed for high performance use in a wide range of server applications, the Nfina 528i2 with Intel® Xeon® v4 processors offers remarkable value in a 1U package. Dual-sockets, 12Gb/s SAS/SATA connectivity, and RAID options make this expandable server ideal for hyperconverged clusters, data centers, or any application that requires a premium computing platform. The 528i2 can be configured with SSD drives for maximum performance and reliability.

Featuring energy efficient spread-core design, robust memory capability, and 12Gb/s SAS/SATA connectivity, the 724i20 is Nfina’s most cost-effective, highest density server offering. This dual-socket server is capable of virtualization density up to 1.6X compared to the previous generation. The 724i20 is an outstanding general-purpose platform for hyperconverged clusters, file server and virtualized computing applications in data centers and enterprise applications.

- 2U rack-mount, dual-socket server
- Intel® Xeon® Processors E5-2600 v4
- Up to 22 cores per processor
- 2 x 10GbE ports (other options available)
- Up to 1.54TB memory
- 12 x 3.5” hot-swap drive bays
- 2 x 2.5” hot-swap rear drive bays
- Storage capacity dependent upon drive type
- 12Gb/s SAS/SATA connectivity capable
- Redundant hot-swap power supplies
- LSI® hardware RAID included, Caching avail.
- VMware® ESXi™ 6.0/6.5/6.7 certified

- 1U rack-mount, dual-socket server
- Intel® Xeon® Processors E5-2600 v4
- Up to 22 cores per processor
- 2 x 1GbE ports (other options available)
- Up to 1.54TB memory
- 8 x 2.5” hot-swap drive bays
- Use SSDs for peak performance & reliability
- Storage capacity dependent upon drive type
- 12Gb/s SAS/SATA connectivity capable
- Redundant hot-swap power supplies
- LSI® hardware RAID included, Caching avail.
- VMware® ESXi™ 6.0/6.5/6.7 certified
Nfina’s value servers are designed for small to medium-sized businesses and dedicated applications. For a small business taking the step from stand alone servers to a hyperconverged environment, or a company moving from stand alone desktops to a server, Nfina has a value server perfectly suited for your IT requirements and budget.

**Value Server**

Nfina Technologies 324i2 rack server is designed to deliver the best combination of performance, reliability, and value in the industry. This energy efficient custom server is an excellent choice for any business looking for high performance at a low cost. Dual-sockets with Intel® Xeon® v4 processors and 12Gb/s SAS/SATA connectivity make it ideal as a public or private cloud server or for virtualized computing applications.

- 1U rack-mount, dual-socket server
- Intel® Xeon® Processors E5-2600 v4
- Up to 22 cores per processor
- 2 x 1GbE ports
- Up to 1.54TB memory
- 4 x 3.5” hot-swap drive bays
- Ideal for hyperconverged clusters
- Storage capacity dependent upon drive type
- 12Gb/s SAS/SATA connectivity capable
- Redundant hot-swap power supplies
- LSI® hardware RAID and Caching optional
- VMware® ESXi™ 6.0/6.5/6.7 certified

The 214i2 is Nfina’s most economical rack-mount server solution. An array of choices including storage, RAID, memory, and Intel® Xeon® v6 processors prove that power, flexibility and economy can coexist in an entry-level server. The impressive performance per watt makes this server energy efficient and ideal for use as a microserver supporting low-end dedicated hosting, simple front-end web, and basic content delivery.

- 1U rack-mount, entry-level server
- Intel® Xeon® Processor E3-1200 v6
- 4 cores total
- 2 x 1GbE ports
- Up to 64GB memory
- 4 x 3.5” hot-swap drive bays
- 1 x SATA M.2 SSD internal slot (22x42)
- Storage capacity dependent upon drive type
- 12Gb/s SAS/SATA connectivity capable
- Redundant hot-swap power supplies
- LSI® hardware RAID and Caching optional
- Remote Management included
The Nfina dual-socket 4208T-i20 tower server, featuring 2nd Generation Intel® Xeon® Scalable processors, delivers superior performance per-core, enhanced memory capability, and SATA/SAS/NVMe flexibility. It is the ideal server for small to medium businesses, virtualized environments, and security applications.

4208T-i20 Scalable Tower Server

This premium tower server features your choice of dual Intel® Xeon® Scalable Processors, up to 28 cores per processor.

- Desktop/Tower design
- 2nd Gen Intel® Xeon® Scalable Processors
- 2.7GHz to 4.0GHz processor speeds
- Up to 28 cores per processor
- 2 x 10GbE ports (other options available)
- 48x CD-RW / 24x DVD±RW
- 6 x USB, 1 x VGA, 1 x Serial Port
- Up to 1.54TB memory
- Supports Intel® Optane™ memory
- Up to 8 x 3.5” hot-swap drives -or- Up to 16 x 2.5” hot-swap drives
  - Supports SAS, SATA, SSD, NVMe
- 2 x M.2 SSD connectors, PCIe or SATA
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID optional, Caching avail.
- Intel® VROC available for NVMe SSDs
- Features: Intel® AVX-512 and Intel® UPI
The Nfina 428i2 is built to provide the power of a high performance, rack-mount server in a compact desktop/tower package. The 428i2 with Intel® Xeon® v4 processors and 12Gb/s SAS/SATA connectivity is the perfect selection for use in hyperconverged environments, and high performance virtualized computing applications, or as a public or private cloud server.

428i2 Tower Server

- Desktop/Tower, dual-socket server
- Intel® Xeon® Processors E5-2600 v4
- Up to 22 cores per processor
- 48x CD-RW / 24x DVD ±RW
- 2 x 1GbE ports, other options available
- Up to 1.02TB memory
- Up to 8 x 3.5” hot-swap drives -or-
  Up to 16 x 2.5” hot-swap drives
- Storage capacity dependent upon drive type
- 12Gb/s SAS/SATA connectivity capable
- Redundant hot-swap power supplies
- LSI® 12Gb/s SAS controller incl., Cache avil.
  o Supports Hardware RAID 0,1,10, optional 5

418i2 Tower Server

The 418i2 desktop tower server is an excellent choice for any small business searching for a high performance server at a low cost. With an Intel® Xeon® E3-1200 v6 processor and multiple options for RAID, storage, memory, and operating systems, the Nfina 418i2 desktop/tower server has great expandability for its compact size.

- Desktop/Tower, single-socket server
- Intel® Xeon® Processor E3-1200 v6
- 4 cores total
- 48x CD-RW / 24x DVD±RW
- 2 x 1GbE ports, other options available
- Up to 64GB memory
- Up to 8 x 3.5” hot-swap drives -or-
  Up to 8 x 2.5” hot-swap drives
- 1 x SATA M.2 SSD internal slot (22x42)
- Storage capacity dependent upon drive type
- Redundant hot-swap power supplies
- LSI® hardware RAID and Caching optional
- 12Gb/s SAS/SATA connectivity capable
Nfina's 418i2-W desktop tower workstation is designed for high performance use in a wide range of applications. With customizable options for RAID, storage, memory, operating systems, and graphics, the Nfina 418i2-W is ideal for scientific, design, engineering, graphic and computational-intensive applications. Nfina has several workstation models available in addition to the one listed here. Call us to inquire.

418i2-W Desktop Tower Workstation

Nfina’s 418i2-W desktop tower workstation is ideal for scientific and graphic intensive applications:

- Desktop/Tower design
- Intel® Xeon® Processor E3-1200 v6
- 4 cores
- 48x CD-RW / 24x DVD±RW
- 2 x 1GbE ports
- Other networking options available
- 6 x USB, 1 x VGA, 1 x DP, 1 x Serial Port
- Up to 64GB memory
- Up to 8 x 3.5” hot-swap drives -or-
  - Up to 8 x 2.5” hot-swap drives
- 1 x SATA M.2 SSD internal slot (22x42)
- Storage capacity dependent upon drive type
- NVIDIA graphics card (others avail.)
- Single or dual monitors available
- Wireless keyboard & mouse
- Redundant hot-swap power supplies
- LSI® hardware RAID optional
- Caching options available

Nfina’s 418i2-W Workstation is ideal for scientific and graphic intensive applications:

- Architecture
- Construction
- Engineering
- Entertainment
- Financial
- Graphic Design
- Manufacturing
- Media
Workstations
PCs, VDI & Thin clients

Nfina’s 100 Series products are powerful PCs and thin clients housed in an extremely compact form factor. This scalable computing platform can be configured with a choice of Intel® Core™ or Celeron® processors, 2.5” SATA, SAS or SSD drive, and a M.2 SSD drive for faster data transfer. The Nfina 100 Series products prove that superior power and performance can exist in a small form factor (SFF) device.

100i3 / 100i5 / 100i7 PC

- Ultra small footprint (~4.60” x 4.40” x 2.01”)
- 8th Generation Intel® Core™ Processor
  - 100i3 PC - i3-8109U, 3.6 GHz, 4M Cache
  - 100i5 PC - i5-8259U, 3.8 GHz, 6M Cache
  - 100i7 PC - i7-8559U, 4.5 GHz, 8M Cache
- Up to 32GB memory
- Intel® Optane™ memory supported
- 1 x SATA port for 2.5” HDD/SSD
- 1 x M.2 slot for SATA or PCIe SSD
- 1 x Micro SDXC card slot w/ UHS-I support
- 10/100/1000Mbps Ethernet
- 802.11ac Wireless, Dual model Bluetooth® 5.0
- 4 x USB 3.1 ports
- 2 x HDMI® 2.0a ports, 4K support, 60Hz RR
- 8 channel digital audio, 7.1 surround sound
- Intel® HD Graphics: 600

100c3 PC

- Ultra small footprint (4.57” x 4.55” x 2.01”)
- Intel® Celeron® Processor J4005
  - 2.7 GHz, Dual Core, 4M Cache
- Up to 8GB memory
- 1 x SATA port for 2.5” HDD/SSD
- 1 x Micro SDXC card slot w/ UHS-I support
- 10/100/1000Mbps Ethernet
- 802.11ac Wireless, Bluetooth® 5.0
- 4 x USB 3.1 ports
- 2 x HDMI® 2.0a ports, 4K support, 60Hz RR
- 8 channel digital audio, 7.1 surround sound
- Intel® HD Graphics: 600

The versatile Nfina 100 Series PC easily mounts to the back of a monitor and can be used for a wide variety of applications:

- Small Office
- Personal or Home Storage
- Thin Client
- Home Entertainment
- Education
- Gaming
- Churches
- Commercial Use
- Digital Signage
- Point of Sale (POS)

OS compatibility: Windows®, Ubuntu®, Linux® Mint, Fedora®, openSUSE, and more
The 602JBOD-A is a 2U storage expansion unit that allows incremental storage to be added to existing storage networks. Multiple JBODs can be easily daisy-chained using SFF Mini-SAS cables. This product can be used for disaster recovery, cloud backup, data replication, and high-availability environments.

Nfina’s JBOD products are a cost-effective, high performance, storage expansion solution for Nfina Servers, NAS, and SAN products. These products can be easily daisy-chained for HA clusters or high-redundancy requirements and 12Gb/s SAS connectivity means stored data can be retrieved more efficiently.

A high-density storage expansion unit, the Nfina 4U, 604JBOD-A provides an easy solution for expanding capacity in existing storage systems. Featuring redundant power supplies and fans, this product is suitable for hyperconverged networks, high performance computing, cloud backup, data replication, and high-density archival storage applications.

604JBOD-A

- 4U rack-mount enclosure
- Plug-and-play storage expansion
- 24 x 3.5” hot-swap drive bays
- 12Gb/s SAS connectivity capable
- Storage capacity dependent upon drive type
- Easily daisy-chained
- Self-discovery and self-configuration
- LSI® SAS3x36R Expander chip
- 3 x Mini-SAS HD dual ports
- Redundant hot-swap power supplies
- 5 year warranty

602JBOD-A

- 2U rack-mount enclosure
- Plug-and-play storage expansion
- 12 x 3.5” hot-swap drive bays
- 12Gb/s SAS connectivity capable
- Storage capacity dependent upon drive type
- Easily daisy-chained
- Self-discovery and self-configuration
- LSI® SAS3x36R Expander chip
- 3 x Mini-SAS HD dual ports
- Redundant hot-swap power supplies
- 5 year warranty
Nfina’s hardware RAID option is available and highly recommended on all Nfina server and storage products, because quite simply our hardware RAID enables more complete data protection and increases performance at a fraction of the cost of previously available solutions.

The list of reasons to choose hardware RAID is compelling. Choosing the CacheVault® technology option eliminates data loss in the event of a power outage. Using hardware RAID for SSD Caching yields near SSD performance at SATA pricing. RAID levels 0, 1, 5, 6, 10, 50, and 60 create a wide choice of options, assuring a choice which will provide the optimum balance of data redundancy and performance for any enterprise. Nfina’s Hardware RAID enables the option of going with the latest 12Gb/s SAS/SATA technology. Administration Software is included to monitor drives and the overall health of the network. External JBOD options are available to allow for expansion as the enterprise grows. This impressive list of benefits makes hardware RAID a remarkably economical way to maximize your hardware investment.
As hard drives, SSD drives, and RAID technologies advance, network storage array systems are now available with near SSD performance at SATA prices and density. The advantage to purchasing such a system is that it uses open technology, as opposed to proprietary technology from the traditional storage vendors. This allows companies like Nfina Technologies to build cost effective, hybrid storage arrays using best-in-class components, and provide customers with more choice and flexibility.

### Hybrid Storage Performance

Hybrid Storage Performance utilizes a considerable amount of SSD as a cache and SATA drives to store data. This solution yields near SSD performance for the cost of SATA drives. Referring to table 1, we have the following results:

<table>
<thead>
<tr>
<th>Test Units</th>
<th>IOPS</th>
<th>MB/s</th>
</tr>
</thead>
<tbody>
<tr>
<td>SATA</td>
<td>1,213.72</td>
<td>4.97</td>
</tr>
<tr>
<td>SATA + Cache</td>
<td>33,179.00</td>
<td>135.90</td>
</tr>
<tr>
<td>SAS-15K (RAW)</td>
<td>1,755.84</td>
<td>6.86</td>
</tr>
<tr>
<td>SAS-15K + Cache</td>
<td>33,270.33</td>
<td>136.27</td>
</tr>
<tr>
<td>SSD</td>
<td>38,618.00</td>
<td>158.18</td>
</tr>
</tbody>
</table>

Go to [https://www.nfinausa.com/files/hybrid_storage_performance_testing.pdf](https://www.nfinausa.com/files/hybrid_storage_performance_testing.pdf) to read this white paper in its entirety.
Using a NAS for Disaster Recovery

In the flat network shown in diagram 1, client application files are stored on the file server. If this server is mapped as a network drive by the clients, your enterprise is only one click away from a malware attack from a malicious ransom-ware virus. If any client clicks on the wrong email, every file in the file server that is mapped into the clients network drive structure can (and probably will) be corrupted. An example of this kind of malware is the infamous KEYHolder virus.

Diagram 1

In the more robust network shown in diagram 2, the NAS is not mapped onto the Client network. It is highly desirable that this device is configured to be isolated from the client network. The NAS should not have access to the internet. Given the fact that NAS appliances are very low cost (especially relative to a SAN), the expense should not pose a barrier of entry. Think of the NAS as a very large thumb drive.

Diagram 2

Of course, a large number of backup solutions are available that would allow multiple restore points from the NAS in case a malicious malware event occurs. As long as there wasn’t a catastrophe in the server room, the NAS could have the Server restored in a matter of minutes locally over the intranet which would be much faster than over the internet.
Better Cyber Security – Our products are free of adware, bloatware, spyware, and tracking software.

5-Year Product Warranty – Best in the industry!
We stand behind the reliability and quality of our products.
- 100% Enterprise Hardware Components
- 2 Million Hours MTBF Reliability
- Tested & Certified by our Technology Partners

Tech Support – 24/7 US based tech support.
No third party call center.

Faster Lead Times & Delivery – We provide same business day, customized quotes and quick delivery.

Best Value – Total cost of ownership can be reduced by 2 to 3 times over an eight year period compared to vendors like Dell/EMC, HPE & IBM.