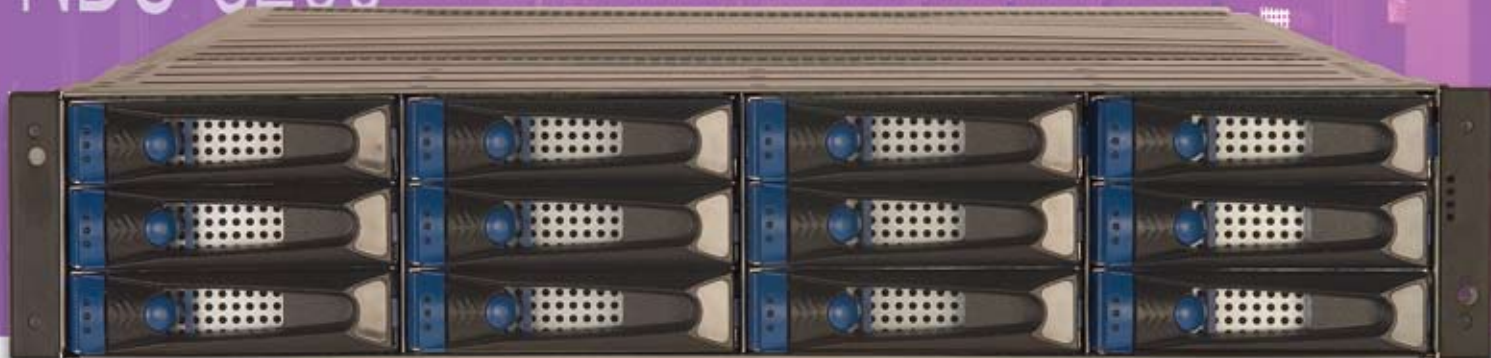




NDS-8200



Exceptional scalability for today's storage technology environment.

Robust Cost-effective Storage Platform

The need for data storage capacity continues to drive new applications that manage and tier data both at the file and block level in either a JBOD or RAID configuration. The Newisys® NDS-8200 SAS/SATA 3.5" hard disk drive (HDD) Storage Application Array is the ideal platform to build a full-featured, high-quality and cost-effective SAN, iSCSI and NAS appliance or other storage applications. The NDS-8200 integrated server/storage application platform offers best-in-class performance, space-saving density, "green" energy efficiency and 24x7 high-availability redundancy of key components. The Newisys NDS-8200 can be customized with a number of options designed to maximize your value proposition to data center storage customers. The Newisys NDS-8200 can be expanded in a cost-effective way via its companion, the Newisys NDS-2120 Storage Expansion.

Partner with Newisys

Partnering with Newisys not only means accelerated time-to-market for storage products, but also the proven strength of our quality, reliability and performance. Customers are backed by an industry-leading design team and a world-class manufacturing organization. The Newisys Flexible Storage Architecture (FSA) provides block-based modular designs and the configuration flexibility that can become the foundation of your storage solutions and accelerate your time-to-market.



NDS-8200 Back Panel



Product Highlights

- Full-featured robust high performance storage with integrated high performance dual-socketed processor engine
- Use with powerful Intel® 5000 series (Xeon®) processors – dual or quad core
- Five PCI slots for maximum product configuration flexibility
- Full PCI card height/length capable including RAID, FC and 10GE PCI cards
- Dual redundant hot-plug advanced power/cooling (APC) modules
- N+1 cooling fan redundancy
- Optional 2.5" internal SATA 120GB HDDs for dedicated OS boot support with RAID 0 and 1 support
- Optional DVD
- Standard chassis customization and branding available
- Point-to-point connectivity isolates drive failures, increasing reliability and fault tolerance, and improving performance
- Additional SAS storage expansion daisy-chain
- Use with common storage applications such as Microsoft® Storage Server

Host Interface

- Integrated Dual 1GE
- 10GE, Fibre Channel, SAS (Selectable via PCI card)
- SAS connections for expansion (on PCI card)
- Up to 1200MB/s (application dependant)

Measured Performance

- Up to 750MB/s (sustained reads)

Capacity

- Up to 12 drives (12TB) capacity per 2U enclosure

Applications

- Microsoft® Windows® Storage Server™
- VMware® ESX, Microsoft® Hyper-V™ and Citrix® XenServer™ virtualization
- Open-E® Data Storage Server (DSS™)
- AMI® StorTrends®
- Unified NAS/iSCSI
- Other storage applications

Raid Features

- RAID 0,1,10,5,50,6 (PCI RAID dependant)
- OS software RAID capable
- Auto-negotiate speeds
- In-band and out-of-band management
- SMP and SSP command/protocol support
- Redundant cable support

Redundant Hot-swappable Components

- Two advanced power and cooling (APC) modules
- Two independent AC power inlets

Rackmount Enclosure Dimensions

- 3.5 in. H x 17.6 in. W x 31 in. D (8.9 cm H x 44.7 cm W x 78.7 cm D)
- Weight with drives: 70 lbs (35 kg) max

Disk Drives

- 12 independent 300MB/s point-to-point connections to each SAS or SATA disk drive
- Common drive carrier for Newisys NDS-2120 and Newisys NDS-8200
- Form factor: 3.5" SAS and SATA Drives
- Rotational velocity: 7200 RPM, 10K RPM and 15K RPM
- Interface: 3Gb SAS; 3Gb/1.5Gb SATA

Maximum SAS Cable Lengths

- Up to 6 m

AC Power

- Input voltage: Auto ranging, 90-264V AC
- Input frequency: 50-60Hz
- Power factor correction: Per EN61000-3-2
- Input current: 100-240V AC @ 5.6 Amps
- Output power: 580W peak, 500W average

Monitoring

- Temperature, advanced power and cooling modules including fan speed control, disk drives and I/O module(s), as well as error rates and quality of service

Environmental Protection

- RoHS and WEEE compliant

Operating Environment

- Temperature: 0° to 35°C
- Temperature gradient: 20°C per hour
- Relative humidity: 10 to 80 percent (non-condensing)
- Humidity gradient: 10% per hour
- Altitude: -200 to 10,000 ft.
- Shock: 5G at 11ms, 1/2 sine wave pulse
- Vibration: 0.15G at 5Hz to 400Hz
- Acoustics: 7 Bels at normal operation tested to ISO7779

Non-Operating Environment

- Temperature: -40° to 70°C
- Relative humidity: 5% to 95% (non-condensing)
- Altitude: -200 to 40,000 ft.
- Shock: 10G at 11ms, 1/2 sine wave pulse
- Vibration: 0.5G at 5Hz to 400Hz

Electromagnetic Emissions and Immunity Standards

- CE Mark, EN55022/EN61000 Class A
- FCC Class A, Canadian IECs-003
- VCCI Class A

Safety Standards

- UL 60950, CSA 22.2-950
- IEC 60950, EN 60950

Quality Standards

- Manufactured under an ISO 9002 registered quality system



Contact Newisys:

Email: sales@newisys.com
 Telephone: +1 408 964 3555
www.newisys.com

About Newisys

Newisys, founded in 2000, provides leading-edge data center products including disk-based RAID storage/server appliance platforms and JBOD expansion enclosures, racks and other full solution items targeted for the robust data center environment. Newisys solutions are tailored for integration into Original Equipment Manufacturer (OEM), System Integrator and Internet Data Center partners' products. A Newisys partnership provides the highest-level quality design and products synchronized with one of the world's most advanced and comprehensive manufacturing infrastructures and supply chains. For more information, visit <http://www.newisys.com>.