

NAS

R-NS-16

NAS SATA II RAID Subsystems



R-NS-16

Companies are looking for cost-effective storage solutions which can offer the best performance, high scalability and reliability. As the number of users and the amount of data grows, Network attached Storage is becoming a critical technology and the need for an optimized solution is becoming an important requirement.

RAIDSTORE delivers the NAS subsystem together with the NAS management solution, NAS High-Availability and Backup client backup solution to provide business with the most flexible, scalable, securable and manageable NAS environment. It helps to control the total cost of ownership for data management.

The R-NS-16 is an SATA II NAS Subsystem with NAS 1.1 operating system. It enhances system availability, and manages complex storage environments easily. For improving business productivity and minimizing business risks, R-NS-16 provides a volume replication and a volume snapshot function. It is also a full featured data protection system supporting RAID levels 0, 1, 0+1, 3, 5, 6 and JBOD. It supports hot spares, automatic hot rebuild and online capacity expansion with the enclosure.

High storage density for flexibility and economy

Seagate® Barracuda® ES hard drives are reliable as they have features like workload management, which reduces drive failure & lowers system heat levels by verifying data integrity when drive is thermally stressed.

Barracuda ES drives have IRAW (Idle Read After Write), which verifies the integrity of recently written data during idle time.

ERC (Error Recovery Control), another very important feature, which reduces unnecessary RAID rebuilds to drive error recovery times exceeding system timeout period.

The Barracuda ES drive is a best fit for nearline storage applications because of improved rotational vibration, PowerTrim™ technology, and quick and robust download FIW security.

Highlights

- ▶ Configurable to 19-inch rack-mountable 3U chassis
- ▶ Supports up to 16, 1-inch hot-swappable SATA II hard drives
- ▶ Supports Tape/DAT backup/restore
- ▶ Support RAID levels 0, 1, 0+1, 3, 5, 6 and JBOD
- ▶ Smart-function LCD panel for RAID setting & ENC status
- ▶ Support hot spare and automatic hot rebuild
- ▶ Allows online capacity expansion within the enclosure
- ▶ Two Gigabit Ethernet ports
- ▶ Linux-based embedded system (128MB Disk on Module)
- ▶ Centralization of Data and Storage Management
- ▶ Using market-leading Java Technology
- ▶ Latest Volume snapshot technology
- ▶ Apply volume replication to enhance data protection
- ▶ Support logical volume over 2TB
- ▶ Data Backup via backup plan and scheduling
- ▶ Enhance system configuration backup
- ▶ Local and external account management
- ▶ Large account import
- ▶ Share management and permission
- ▶ Advance ACL setting for project share
- ▶ Support Internet Gateway function
- ▶ In-line expansion file system
- ▶ Support E-mail notification and system log information
- ▶ Multi application support



Hardware Platform	RAID Controller
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| <ul style="list-style-type: none"> ▶ Intel Quad Core Xeon 2.0G or above, single/dual Processor ▶ Cache memory: 1GB DDR2-533 FBDIMM up to 16GB ▶ Two Gigabit Ethernet ports ▶ Up to Sixteen 1-inch hot-swappable SATA II (3Gb/s, NCQ support) hard drives ▶ Real time drive activity and status indicators ▶ Environmental monitoring unit ▶ Three(3) 460W hot-swap power supplies with PFC ▶ Expansion PCI slot for H/W upgrade ▶ External SCSI for Tape backup | <ul style="list-style-type: none"> ▶ Intel 80321 61 bit RISC ▶ RAID level RAID 0, 1, 0+1, 3, 5, 6 and JBOD ▶ Support 128MB up to 1GB of cache ECC unbuffered ▶ Support hot spare and automatic hot rebuild ▶ Allows online capacity expansion within the enclosure ▶ Built-in serial port interface for remote event notification ▶ Local audible event notification alarm |
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Machintosh Support	General	Storage Management
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| <ul style="list-style-type: none"> ▶ AFP over Apple Talk ▶ AFP over TCP/IP ▶ Mac zones | <ul style="list-style-type: none"> ▶ File Server Independent ▶ Peer-to Peer Operation ▶ Localized Language Support ▶ Supports NIC/Trunking/Load balance/Fail Over ▶ Support UPS Management | <ul style="list-style-type: none"> ▶ Volume Management ▶ Disk usage statistics ▶ Hot spare capability ▶ Volume Snapshot ▶ Volume Replication |
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Feature Highlights	Connectivity
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| <ul style="list-style-type: none"> ▶ System Management ▶ Automatic IP Address Configuration ▶ Self-Contained Unit-No Extras Needed ▶ Management through Web Browser ▶ Flash Ungradable Unit ▶ Supports Microsoft ADS/PDC and Unix NIS ▶ accounts Import ▶ SNMP/MRTG Management and Notification ▶ Fail-free Online Firmware Upgrade ▶ Unicode Support ▶ Multi-Node Management GUI ▶ CLI Management via Telnet or SSH | <table border="1"> <tr> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> ▶ SMB, CIFS over TCP/IP ▶ NFS over UDP/IP ▶ Cross platform data access ▶ Novell Netware support ▶ FTP, HTTP file transfer ▶ DHCP ▶ NAT </td> <td style="width: 33%; vertical-align: top;"> <ul style="list-style-type: none"> ▶ Internet Gateway ▶ WINS Server ▶ Unit acts as a DHCP server ▶ Unit acts as a master browser ▶ Share level security ▶ File level security ▶ User ID security for NFS </td> </tr> </table> | <ul style="list-style-type: none"> ▶ SMB, CIFS over TCP/IP ▶ NFS over UDP/IP ▶ Cross platform data access ▶ Novell Netware support ▶ FTP, HTTP file transfer ▶ DHCP ▶ NAT | <ul style="list-style-type: none"> ▶ Internet Gateway ▶ WINS Server ▶ Unit acts as a DHCP server ▶ Unit acts as a master browser ▶ Share level security ▶ File level security ▶ User ID security for NFS |
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Data Protection	Power Requirements	Physical Dimension
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| <ul style="list-style-type: none"> ▶ proNAS High Availability (Option) ▶ proBackup Client Backup ▶ proNAS Data and Configuration Backup ▶ Support Veritas BackupExec Agent | <ul style="list-style-type: none"> ▶ Ac 90V ~ 264V Full range ▶ 16A ~ 8A, 47 ~ 63Hz | <ul style="list-style-type: none"> ▶ 133(H) x 482(W) x 740(D) mm |
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Seagate Barracuda ES Specs	
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| ▶ Capacity-SATA 3Gb/s, 1.5Gb/s | - 1 TB, 750 GB, 500 GB, 250 GB |
| ▶ Capacity-SAS 3Gb/s | - 1 TB, 750 GB, 500 GB |
| ▶ Spindle Speed (RPM) | - 7200 |
| ▶ Cache, Multisegmented (MB) | - 32 (SATA), 16 (SAS) |
| ▶ Seek Time, Read/Write (average, msec) | - 8.5/9.5 |
| ▶ Mean Time Between Failures (MTBF) (hours) | - 1.2 million |
| ▶ Reliability Rating at Full 24x7 Operation (AFR) | - 0.73% |
| ▶ Transfer Rate, Sustained (MB/s) | - 105 |
| ▶ Power Consumption (W, idle) | - 8.0 |
| ▶ Rotation Vibration @ 1500 Hz max (rad/sec ²) | - 12.5 |

*Specification are subject to change without notice. All company and product names are trademarks of their respective owners.