

Simbolo NAS Series

SN-3163S3H-NQX

NAS / DAS / iSCSI All in One RAID Subsystems



Proware delivers the NAS SN-3163S3H-NQX, which combined direct access storage(DAS), iSCSI target device and network attached storage (NAS) solution for flexible and expandable application, and also together with the proNAS management solution, proNAS High-Availability and proBackup client backup solution to provide businesses with the most flexible, scalable, securable and manageable NAS environment. It helps to control the total cost of ownership for data management. The SN-3163S3H-NQX is an SAS/SATA II NAS/DAS/iSCSI all in one Subsystem with proNAS 1.3 operating system. It enhances system availability, and manages complex storage environments easily. For improving business productivity and minimizing business risks, SN-3163S3H-NQX provides functionality such as volume replication and snapshot. It is also a full featured data protection system supporting RAID levels 0, 1, 0+1, 3, 5, 6, 30, 50, 60 and JBOD. It supports hot spares, automatic hot rebuild and online capacity expansion within the enclosure.

NAS Features

- Configurable to 19" rack-mountable 3U chassis
- INTEL Nehalem based
- Support two Gigabit Ethernet port for NAS file-sharing application
- Support one SAS port for direct access of RAID host connection
- Support iSCSI target for block level of IP storage environment
- Maximal support up to 224 SAS/SATAII disks totally based on:
 - * Support one SAS Expansion port to connect up to 6 SAS JBOD enclosures for RAID expansion (up to 112 disks)
 - * Support one SAS HBA port to connect second DAS enclosure (SB-3163S-S3S3) to expand the RAID of NAS (up to next 112 disks with next 6 SAS JBOD)
- Smart-function LCD panel for RAID setting & ENC status
- Support spin down drives for power saving (MAID) and disk drive power cycle
- Schedule volume check data correctness by RAID 3 / 5 / 6
- 64 bit Linux-based embedded system
- Supports Tape/DAT backup/restore (Option)
- 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 (Maximum 8 Exabytes)
- Enhance system configuration backup
- Local and external account management, support large account import
- Share management and permission (support ACL setting)
- Online expansion file system
- Support E-mail notification and system log information
- Multi application support via proFamily



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Series Technical Specifications



Model Number : SN-3163S3H-NQX

Hardware Platform

Intel Quad Core Xeon 2.0G or above, single / dual Processor
Cache memory : 3GB DDR3 SDRAM up to 32GB
Two Gigabit Ethernet ports (10 Gigabit Ethernet for additional option)
Up to Sixteen 1" hot-swappable SAS/SATA II (3Gb/s, NCQ support) hard drives
Real time drive activity and status indicators
Environmental monitoring unit
Two(2) 700W hot-swap power supplies with PFC
Expansion PCI slot for H/W upgrade
One(1) 4X SAS Host port for RAID Host connection
One(1) 4X SAS Expansion port for JBOD connection (up to 6 SAS JBOD enclosures, max. 112 disks)
One(1) 4X SAS HBA port for next DAS connection (max. 112 disks with 1 RAID + 6 JBOD enclosures)

RAID Controller Specifications

Intel IOP341 64 bit RISC
Supports RAID level: RAID 0, 1, 0+1, 3, 5, 6, 30, 50, 60 and JBOD
Supports 512MB up to 2GB of ECC cache memory
Supports hot spare and automatic hot rebuild
Support MAID (spin down drives when not in use to extend service)
Allows online capacity expansion within the enclosure
Built-in serial port interface for remote event notification
Local audible event notification alarm

Storage Management

Volume Management
Disk usage statistics
Hot spare capability

General

File Server Independent
Multiple language support
Support UPS management

System Management

Automatic IP address configuration
Self-contained unit - no extras needed
Management through Web browser
Flash upgradeable unit
SNMP / MRTG management and notification
Fail-free online firmware upgrade
Unicode support
Multi-node Management GUI
proNAS Data and Configuration Backup
Central Management

Networking

Supports NIC / trunking / load balance / fail over / 802.3ad
DHCP Server / DHCP Client
WINS Server
Internet gateway

Protocols

TCP/IP, SMB/CIFS, NFS, SNMP, FTP/SFTP/FXP, HTTP, Telnet, SSH, (Novell by TCP/IP), (Mac by SMB/CIFS)
Support Samba "MediaHarmony"

Client Operating Systems support

Microsoft Windows 98/ ME / NT / 2000 / XP / 2003 / Vista / 2008
Unix / Linux
Mac OS
Novell

Authentication

Local User Account/Group
Microsoft NT Domain Controller (PDC)
Microsoft Active Directory Authentication (ADS)
Network Information Service (NIS)
Support batch creating users/Group
User quota management
Share level security
File level security
User ID security for NFS

Block Storage

iSCSI Target Support

Data Backup / Restore

Scheduling Multi-Snapshot
Replication
Duplication
Scheduling Rsync Replication
proBackup from client to NAS
Support CDP Server

High Availability

proNAS High Availability (optional)

Power requirements

AC 90V ~ 264V Full range, 10A ~ 5A, 47~63Hz

Physical Dimension

133(H) x 482(W) x 716(D) mm

*Specification are subject to change without notice.
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