SN-3163S3H-QX

NAS / DAS / iSCSI All in One RAID Subsystems

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. Proware delivers the Simbolo SN-3163S3H-QX, 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-QX is an SAS / SATA II NAS / DAS / iSCSI all in one Subsystem with proNAS 1.1 operating system. It enhances system availability, and manages complex storage environments easily.

For improving business productivity and minimizing business risks, SN-3163S3H-QX 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, 30, 50, 60 and JBOD. It supports hot spares, automatic hot rebuild and online capacity expansion within the enclosure.

Your storage solutions partner

Proware Technology Corp.

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NAS Features

▶ Configurable to 19" rack-mountable 3U chassis
▶ Supports up to Sixteen (16) 1" hot‐swappable SAS / SATA II hard drives
▶ Supports RAID levels 0, 1, 0+1, 3, 5, 6, 30, 50, 60 and JBOD
▶ Support NAS, DAS and iSCSI in one system
▶ 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 IP SAN 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
▶ Supports hot spare and automatic hot rebuild.
▶ Allows online capacity expansion within the enclosure
▶ Support spin down drives for power saving (MAID) and disk drive power cycle
▶ Schedule volume check data correctness by RAID 3/5/6
▶ Linux-based embedded system (128MB Disk on Module)
▶ Supports Tape / DAT backup / restore
▶ 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
▶ Online expansion file system
▶ Support E-mail notification and system log information
▶ Multi application support via proFamily
▶ Support Samba "MediaHarmony" VFS for allows multiple editing clients to interoperate with the media files

PRO WARE

Model Number : SN-3163S3H-QX

Hardware Platform	WINS Server
Intel Quad Core Xeon 2.0G or above, single / dual Processor	Unit acts as a DHCP server
Cache memory：2GB DDR II 533 FBDIMM up to 32GB	Unit acts as a master browser
Two Gigabit Ethernet ports(10 Gigabit Ethernet for additional option)	Share level security
Up to Sixteen 1" hot-swappable SAS/SATA II (3Gb/s, NCQ support) hard drives	File level security
	User ID security for NFS
Real time drive activity and status indicators	**Macintosh Support**
Environmental monitoring unit	AFP over Apple Talk
Two(2) 700W hot-swap power supplies with PFC	AFP over TCP/IP
Expansion PCI slot for H/W upgrade	Mac zones
One(1) 4X SAS Host port for RAID Host connection	**General**
One(1) 4X SAS Expansion port for JBOD connection	File Server Independent
(up to 6 SAS JBOD enclosures, max. 112 disks)	Peer-to-peer operation
One(1) 4X SAS HBA port for next DAS connection	Localized language support
(max. 112 disks with 1 DAS + 6 JBOD enclosures)	Supports NIC / trunking / load balance / fail over
RAID Controller	Support UPS management
Intel 80341 64 bit RISC	Support Samba "MediaHarmony"
RAID level RAID 0, 1, 0+1, 3, 5, 6, 30, 50, 60 and JBOD	**System Management**
Supports 512MB up to 4GB of ECC cache memory	Automatic IP address configuration
Supports hot spare and automatic hot rebuild	Self-contained unit - no extras needed
Support MAID (spin down drives when not in use to extend service)	Management through Web browser
Allows online capacity expansion within the enclosure	Flash upgradeable unit
Built-in serial port interface for remote event notification	Supports Microsoft ADS / PDC and Unix NIS accounts
Local audible event notification alarm	import
Storage Management	SNMP / MRTG management and notification
Volume Management	Fail-free online firmware upgrade
Disk usage statistics	Unicode support
Hot spare capability	Multi-node Management GUI
Volume Snapshot	CLI management via Telnet or SSH
Volume Replication	**Data Protection**
Connectivity	proNAS High Availabiltiy (option)
iSCSI target	proBackup Client Backup
SMB, CIFS over TCP/IP	proNAS Data and Configuration Backup
NFS over UDP/IP	Support Veritas BackupExec Agent
Cross platform data access	**Power requirements**
Novell Netware support	AC 90V ~ 264V Full range
FTP, HTTP file transfer	10A ~ 5A, 47~63Hz
DHCP	**Physical Dimension**
NAT	133(H) x 482(W) x 716(D) mm
Internet gateway	

Specification are subject to change without notice.
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