# EPICa EN-316356H-NQX

NAS/DAS(SAS/Fiber)/iSCSI All in One RAID Subsystems

		0			0		
		0		Catholian	0		
4	CANNING	0		CUMPANNO.	0		
	CANNELLISD.	0	CURRENT O	COMPENSION	0		

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 "EN-3163 6G SAS NAS", which combined direct access storage(DAS(SAS/Fiber target)), and 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 EN-3163 6G SAS NAS is an 6G SAS/SATA3 NAS/DAS(SAS/Fiber)/iSCSI all in one Subsystem with proNAS 1.X operating system. It enhances system availability, and manages complex storage environments easily. For improving business productivity and minimizing business risks, EN-3163 6G SAS NAS provides functionality such as volume replication and snapshot. It is also a full featured data protection system supporting RAID levels 0, 1, 10(1E), 3, 5, 6, 30, 50, 60 and JBOD. It supports hot spares, automatic hot rebuild and online capacity expansion within the enclosure.

#### Features

- Configurable to 19" rack-mountable 3U chassis
- INTEL Nehalem based
- Supports up to Sixteen (16) 2.5" and 3.5" hot-swappable 6G SAS/SATA3 hard drives
- Supports RAID levels 0, 1, 10(1E), 3, 5, 6, 30, 50, 60 and JBOD
- Support NAS, DAS(SAS/Fiber) 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 Fiber target for Fiber storage environment (Optional)
- Support iSCSI target for IP storage environment
- Maximal support up to 256 6G SAS/SATA3 disks totally based on:
  - \* Support one SAS Expansion port to connect up to 7 SAS JBOD enclosures for RAID expansion (up to 128 disks)
- \* Support one SAS HBA port to connect second DAS enclosure (EP-3163-S6S6) to expand the RAID of NAS (up to next 128 disks with next 7 SAS JBOD)
- Smart-function LCD panel for RAID & ENC status display and IP address setting
- 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
- 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
- Data Backup via backup plan and scheduling
- Enhance system configuration backup
- Local and external account management, support large account import
- Share management and permission (support ACL setting)
- Support Internet Gateway function
- Online expansion file system
- Support E-mail notification and system log information
- Multi application support via proFamily



#### www.proware.com.tw

## Series Technical Specifications

### **EN-3163S6H-NQX**

Hardware Platform	Central Management			
Intel Quad Core Xeon 2.0G or above, single / dual Processor	Networking			
Cache memory: 3GB DDR3 SDRAM up to 32GB	Supports NIC / trunking / load balance / fail over / 802.3ad			
Two Gigabit Ethernet ports (10 Gigabit Ethernet for additional option)	DHCP Server / DHCP Client WINS Server			
Up to Sixteen 1" hot-swappable 6G SAS/SATA3				
(6Gb/s, NCQ support) hard drives	Internet gateway Protocols TCP/IP, SMB/CIFS, NFS, SNMP, FTP/SFTP/FXP, HTTP, HTTP			
Real time drive activity and status indicators				
Environmental monitoring unit				
Two(2) 460W high efficiency hot-swap power supplies with PFC	Telnet, SSH, AFP ,(Novell by TCP/IP, WebDAV)			
Option:Two(2) 550W 80plus hot-swap power supplies with PFC for	Client Operating Systems support			
I processor Microsoft® Windows® 98/ ME/ NT/2000 / XP / 2003 / Vista /2				
Expansion PCI slot for H/W upgrade	Unix / Linux			
One(1) 4X SAS Host port for RAID Host connection	Mac OS Authentication Local User Account/Group Microsoft NT Domain Controller (PDC)			
One(1) 4X SAS Expansion port for JBOD connection				
(up to 7 SAS JBOD enclosures, max. 128 disks)				
One(1) 4X SAS HBA port for next DAS connection				
(max. 128 disks with 1 RAID + 7 JBOD enclosures)	Microsoft Active Directory Authentication (ADS)			
RAID Controller Specifications	Network Information Service (NIS)			
800MHz RAID-On-Chip storage processor	Support batch creating users/Group			
Supports RAID level: RAID 0, 1, 10(1E), 3, 5, 6, 30, 50, 60 and JBOD	User quota management			
Onboard 2GB ECC/Registered cache memory	Share level security			
Supports hot spare and automatic hot rebuild	File level security			
Support MAID (spin down drives when not in use to extend service)	User ID security for NFS			
Allows online capacity expansion within the enclosure	Recycle bin (Samba)			
Local audible event notification alarm	Audit file access (Samba)			
Storage Management	Write once read many (WORM)			
Volume Management (Support XFS, ext3 & ext4 file system)	Block Storage			
Disk usage statistics	iSCSI Target Support			
Hot spare capability	Fiber Target Support (optional)			
iSCSI Target Manager: Support LUN Mapping / Initiator filter	Data Backup / Restore			
FC Target Manager: Support LUN Mapping	Symantec BackupExec Agent (by additional installation)			
General	Scheduling Multi-Snapshot (Support snapshot of iSCSI & FC)			
File Server Independent	Replication (Remote RealTime Data mirror)			
Multiple language support	proNAS High-Availability (optional)			
Support UPS management	Scheduling Duplication			
Support LV encryption	Scheduling Rsync Replication			
System Management	proBackup from client to NAS			
Automatic IP address configuration	Support NetVaultR backup Client (by additional installation)			
Self-contained unit - no extras needed	Support CAARCserve (by additional installation)			
Management through Web browser	Support CDP Server (by additional installation)			
Flash upgradeable unit	Support Mac Time machine			
SNMP / MRTG management and notification	Power requirements			
Fail-free online firmware upgrade	AC 100V ~ 240V Full range			
Unicode support	10A ~ 5A, 47~63Hz			
Multi-node Management GUI	Physical Dimension			
proNAS Data and Configuration Backup				

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

UNIFOSA CORP. Tel:886-2-2914-8001(Rep.) Fax:886-2-2914-7975 http://www.proware.com.tw E-mail:info@proware.com.tw

Your Storage Solutions Partner