# EPIC a

## EN-2803 6G SAS NAS
### EN-2803S6H-NQX

*NAS / DAS (6G SAS/Fiber) / iSCSI*
*All in One RAID Subsystems*

**vmware READY**

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-2803 6G SAS NAS", which combined direct access storage (DAS(6G 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-2803 6G SAS NAS is an SAS2/SATA3 NAS/DAS(6G 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-2803 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 2U chassis
- Supports up to Eight (8) 2.5" and 3.5" hot-swappable SAS2/SATA3 hard drives
- Supports RAID levels 0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD
- Support NAS, DAS(6G 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 (configurable to be expansion port)
- Support Fiber target for Fiber storage environment (Optional)
- Support iSCSI target for IP storage environment
- Maximal support up to 188 SAS2/SATA3 disks totally based on:
  * Support one SAS Expansion port to connect up to 7 SAS JBOD(EP-2123J-S6S6)
    enclosures for RAID expansion (up to 92 disks)
  * Support one SAS HBA port to connect second DAS enclosure (EP-2123S-S6S6)
    to expand the RAID of NAS (up to 96 disks with next 7 SAS JBOD)
- Smart-function LCD panel for NAS status
- Supports hot spare and automatic hot rebuild.
- Allows online capacity expansion within the enclosure
- Support spin down drives for power saving (MAID2.0)
- Schedule volume check data correctness by RAID 3/5/6/30/50/60
- 64 bit Linux-based embedded system
- 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

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# Series Technical Specifications

## EN-2803 6G SAS NAS

**Model Number :** EN-2803S6H-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 Eight 1" hot-swappable SAS2/SATA3 (6Gb/s, NCQ support) hard drives

Real time drive activity and status indicators

Environmental monitoring unit

Two(2) 460W high efficiency hot-swap power supplies with PFC

Expansion PCI slot for H/W upgrade

One(1) 4X SAS Host port for RAID Host connection

    (configurable to be expansion port for JBOD connection. up to 7 SAS JBOD enclosures, max. 92 disks)

One(1) 4X SAS HBA port for next DAS connection

    (max. 96 disks with 1 RAID + 7 JBOD enclosures)

**RAID Controller Specifications**

800MHz RAID-On-Chip storage processor

Supports RAID level: RAID 0, 1, 10 (1E), 3, 5, 6, 30, 50, 60 and JBOD

Supports 512MB with ECC/REG cache memory

Supports hot spare and automatic hot rebuild

Support MAID2.0 (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 (Support XFS, ext3 & ext4 file system)

Disk usage statistics

Hot spare capability

**General**

File Server Independent

Multiple language support

Support UPS management

Support LV encryption

**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, HTTPS, Telnet, SSH, (Novell by TCP/IP, WebDAV), (Mac by SMB/CIFS/AFP)

Support Samba "MediaHarmony"

**Client Operating Systems Support**

Microsoft® Windows® 98/ ME/ NT/2000 / XP / 2003 / Vista /2008

Unix / Linux

Mac OS

**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

Recycle bin (Samba)

Audit file access (Samba)

Write once read many (WORM)

**Block Storage**

iSCSI Target Support

Fiber Target Support (optional)

**Data Backup / Restore**

Veritas BackupExec Agent

Scheduling Multi-Snapshot (Support snapshot of iSCSI & FC)

Replication

Duplication

Scheduling Rsync Replication

proBackup from client to NAS

Support NetVaultR backup Client (by extra installation)

Support CA ARCserve (by extra installation)

**High Availability**

proNAS High Availability (optional)

**Power requirements**

AC 100V ~ 240V Full range

10A ~ 5A, 47~63Hz

**Physical Dimension**

88(H) x 482(W) x 620(D)mm

*Specification are subject to change without notice.*
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**Your Storage Solutions Partner**