

EPICa

EN-2123 SAS NAS

EN-2123S3H-NQX

**NAS | DAS(SAS/Fiber) | 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 "EN-2123 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-2123 SAS NAS is an SAS / SATA II NAS / DAS(SAS/Fiber) / iSCSI all in one Subsystem with proNAS 1.X operating system, and also supports IPMI and iKVM remote management. It enhances system availability, and manages complex storage environments easily. For improving business productivity and minimizing business risks, EN-2123 SAS NAS 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 2U chassis
- Supports up to Twelve (12) 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(SAS/Fiber) and iSCSI in one system
- Support two Gigabit Ethernet port for NAS file-sharing application
- Support IPMI 2.0 and iKVM (KVM over IP)
- 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 192 SAS/SATAII disks totally based on:
 - * Support one SAS Expansion port to connect up to 7 SAS JBOD (EP-2123J-S3S3) enclosures for RAID expansion (up to 96 disks)
 - * Support one SAS HBA port to connect second DAS enclosure (EP-2123S-S3S3) to expand the RAID of NAS (up to 96 disks with next 7 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
- 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
- Support Samba "MediaHarmony" VFS for allows multiple editing clients to interoperate with the media files



Series Technical Specifications

EN-2123S3H-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 Twelve 1" hot-swappable SAS/SATA II (3Gb/s, NCQ support) hard drives
Real time drive activity and status indicators
Environmental monitoring unit
Two(2) 650W 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 7 SAS JBOD enclosures, max. 96 disks)
One(1) 4X SAS HBA port for next DAS connection (max. 96 disks with 1 RAID + 7 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 4GB 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, Apple talk/MAC zone, AFP over TCP/IP, SMB/CIFS, NFS, SNMP, FTP/SFTP/FXP, HTTP, Telnet, SSH
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

BLOCK STORAGE

iSCSI Target Support
Fiber Target Support (optional)

DATA BACKUP / RESTORE

Veritas BackupExec Agent
Scheduling Multi-Snapshot
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 90V ~ 264V Full range
12A ~ 6A, 50~60Hz

PHYSICAL DIMENSION

88(H) x 482(W) x 755(D)mm

Specification are subject to change without notice.

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