EPICa

EN-3163 6G SAS NAS
EN-3163S6T-RQX

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

As the number of users and the amount of data grows, how to find a storage which can offer complete data protection, good performance, with reliability and high scalability is the key for all enterprises and companies.

The EN-3163 6G SAS NAS is a Unified storage system, which supports NAS/DAS(SAS/Fiber)/iSCSI based on latest proNAS 3.0 operating system. Except for basic NAS functions, it supports a variety of advanced storage management and application features such as VAAI, HA, Thin-Provisioning, etc, and it can be deployed easily in any IT environment since it supports multiple interfaces for different host server and clients.

EN-3163 6G is highly scalable for storage capacity and host interfaces. With SAS JBODs, it can support up to 128 drives, up to 512TB, and users can just add on JBOD for capacity expansion when needed. There are 1Gb/s Ethernet ports as default I/O interface, and more 1Gb/s or 10Gb/s NICs can be added on to enhance system performance. Installing Fibre HBA on NAS can have NAS connecting to Fibre SAN, so it will be seamless connection for EN-3163 to your IT installment. For data protection, EN-3163 supports RAID level 0, 1, 10(1E), 3, 5, 6, 50, 60 and JBOD mode, and drives can be set hot spares, have automatically hot rebuilding and online capacity expansion within the enclosure. EN-3163 has a fully-featured backup solution including manual or scheduled backup for file, folder, and shares, and it can be backup and restore from multiple local or remote devices. And there are volume clone, snapshot, remote replication, and data copy for options, which are all designed to ensure and enhance your precious data.

Features

- Account Manager support NIS
- Allows online capacity expansion within the enclosure
- Android/iOS mobile APP for monitoring
- Backup to Cloud (Amazon S3)
- Backup/Restore from attached storage (USB/eSATA/iSCSI/RDX)
- Backup/Restore from remote share (CIFS/NFS)
- Bonjour Protocol, easily connect to NAS
- Central data and storage management
- Data backup via backup plan/schedule
- Data copy (1:1)
- EXT4 support extend over 16TB
- HA support Active-Active mode
- HA support iSCSI/FC volume
- HA support Three nodes
- iSCSI/FC/share volume replication
- ISO mount
- Latest volume snapshot technology
- Local and external account management, support large account import
- Online expansion file system
- Plug-in management
- Select share or file for backup/restore
- Share management and permission (support ACL setting)
- Support Fiber target for Fiber SAN (Optional)
- Support Internet Gateway
- Support iSCSI target for IP SAN
- Support iSCSI initiator
- Support iSCSI multi host
- Support e-mail notification, SNMP Trap/MIB and system log
- System configuration backup/restore
- Thin Provisioning
- Volume Clone (EXT3/EXT4/XFS/NTFS/VMFS)
- Volume replication to enhance data protection
- Volume switch between iSCSI and FC Target
- VMware ESXi 5 iSCSI/FC/NFS VAAI support
- Wizard-oriented GUI design
- WORM (Write Once Read Many) support CIFS/NFS

Series Technical Specifications

EN-3163S6T-RQX

NAS Hardware Specification

Intel Quad Core Xeon 1.8G or above, single / dual Processor	**RAID Controller**
Cache memory: 4GB DDR3 SDRAM up to 144GB	800MHz RAID-On-Chip storage processor
Two Gigabit Ethernet ports (10 Gigabit Ethernet for options)	Support RAID level: RAID 0, 1, 10(1E), 3, 5, 6, 50, 60 and JBOD
Up to Sixteen 2.5"/3.5" hot-swappable 6Gb/s SAS/SATA hard drives	Onboard 2GB ECC/Registered cache memory
Real-time drive activity and status indicators	Support drive hot spare and automatic hot rebuild
Environmental monitoring unit	Support MAID (spin down drives when not in use)
Two(2) 460W 80plus hot-swappable power supplies with PFC	Allow online capacity expansion within the enclosure
Optional: Two(2) 550W 80plus hot-swappable power supplies with PFC for dual processor	Locally audible event notification alarm
	Environmental
Spare PCI-E slot for H/W upgrade	Operating temp : 10°C~40°C(50°F~104°F)
One(1) 4x SAS host port for RAID host connection	Relative humidity : 10%~85% Non-condensing
One(1) 4x SAS port for JBOD	**Physical Dimension**
(up to 7 SAS JBOD enclosures, max. 128 disks)	133(H) x 482(W) x 730(D) mm
One(1) 4x SAS HBA port for DAS connection	**Power requirements**
(max. 128 disks with 1 RAID + 7 JBOD enclosures)	AC 100V ~ 240V Full range
	10A ~ 5A, 47~63Hz

NAS Functionality

Storage Management

Volume management (Support XFS, EXT3 and EXT4 file system)

Disk usage statistics

Hot spare drives

iSCSI Target manager: Support LUN Mapping/Initiator Filter /Thin Provisioning

FC Target manager: Support LUN Mapping/Thin Provisioning

VAAI support for iSCSI/FC/NFS

General

File Server Independent

Multiple language support

Support UPS management

Support LV encryption

System Management

Automatic IP address configuration

Web browser-based management

SNMP management and notification

Fail-free online firmware upgrade

Unicode support

Multi-node management GUI

System configuration backup/restore

Central management

Quick wizard

APP for Android/iOS monitoring

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, AFP, WebDAV, Bonjour, TFTP

Client Operating Systems Support

Microsoft® Windows® 98/ME/NT/2000/XP/2003/Vista/2008 /Win7/Windows 2012/Win 8

Unix / Linux

Mac OS

Authentication

Local user account/group

Microsoft NT Domain Controller (PDC)

Microsoft Active Directory Authentication (ADS)

Network Information Service (NIS)

Support OpenLDAP service

Support creating users by batch

User quota management

Share level security

File level security

User ID security for NFS

Recycle bin (Samba)

File access log, audit (Samba)

Write Once Read Many (WORM)

Block Storage

iSCSI Target Support

Fiber Target Support (optional)

Thin Provisioning support

VMware VAAI support

Virtualization

VMware/Citrix/Hyper-V

VMware VAAI for NFS support

Attached Storage

ISO Mount

USB/eSATA/iSCSI initiator

Data Backup / Restore

Volume Clone (EXT3/EXT4/XFS/NTFS/VMFS)

Symantec BackupExec Agent (by additional installation)

Scheduling multi-snapshot (Support iSCSI & FC snapshot)

Replication (Remote realtime data mirroring)

proNAS High-Availability (Three(3) nodes HA Cluster)(optional)

Scheduling Rsync Replication

Support NetVault backup client (by additional installation)

Support CA ARCserve (by additional installation)

Data copy (copy files to other share/attached storage)

Scheduling backup

Differential/incremental backup

iSCSI/FC Replication

Amazon S3 backup

backup/restore from attached storage (USB/eSATA/iSCSI/RDX)

Support CDP server (by additional installation)

Support Apple Time Machine

Your Storage Solutions Partner