

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 3.1 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
- Backup to Cloud (Amazon S3)
- Backup/Restore from attached storage (USB/eSATA/iSCSI/RDX/USM)
- Backup/Restore from remote share (CIFS/NFS)
- Bonjour Protocol, easily connect to NAS
- Compression (Support on ZFS file system)
- Central data and storage management
- Data backup via backup plan/schedule
- Data copy (1:1)
- Deduplication (Support on ZFS file system)
- EXT4 support extend over 16TB
- HA support Active-Standby mode
- HA support iSCSI/FC volume
- HA support Two 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
- SSD Caching (Read cache, Support on ZFS file system)
- Thin Provisioning
- Volume Clone (EXT3/EXT4/XFS/NTFS/VMFS /ZFS)
- 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	Support RAID level: RAID 0, 1, 10(1E), 3, 5, 6, 50, 60 and JBOD
Cache memory: 8GB DDR3 SDRAM up to 144GB	Onboard 2GB ECC/Registered cache memory
Two Gigabit Ethernet ports (10 Gigabit Ethernet for options)	Support drive hot spare and automatic hot rebuild
Up to Sixteen 2.5"/3.5" hot-swappable 6Gb/s SAS/SATA hard drives	Support MAID (spin down drives when not in use)
Real-time drive activity and status indicators	Allow online capacity expansion within the enclosure
Environmental monitoring unit	Locally audible event notification alarm
Two(2) 460W 80plus hot-swappable power supplies with PFC	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
RAID Controller	10A ~ 5A, 47~63Hz
800MHz RAID-On-Chip storage processor	

NAS Functionality

Storage Management

Volume management (Support ZFS, XFS, EXT3 and EXT4 file system)
 Support SSD Caching, Compression and Deduplication (Support on ZFS 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

Independent file server
 Multiple language support
 Support UPS
 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

Networking

Support NIC/Trunking/Load Balance/Fail Over/802.3ad
 DHCP Server/DHCP Client
 WINS Server
 Internet gateway
 DDNS

Protocols

TCP/IP, SMB/CIFS, NFS, SNMP, FTP/SFTP/FTP, 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/Win 10/2016
 Unix/Linux
 Mac OS

Authentication

Local user account/group
 Microsoft NT Domain Controller (PDC)
 Microsoft Active Directory Authentication (ADS)

* By OEM request

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

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/ZFS)
 Symantec BackupExec Agent (by additional installation)
 Scheduling multi-snapshot (Support iSCSI & FC snapshot)
 Replication (Remote realtime data mirroring)
 proNAS High-Availability (Two(2) nodes HA)(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*/USM*)
 Support Apple Time Machine

Plug-in management

Anti-Virus
 Central management
 iTunes Server
 Virtualization (VM on NAS)



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