

VX1800-NAS Series Network Storage

Overview

VX1800-NAS series of storage products is a new generation of cost-effective storage products independently developed by Uniview. The VX1800-NAS series integrates video data management, permanent data protection, block virtual RAID, and industry-leading disk management technologies. It features high performance, high reliability, strong expansion, easy management, and easy maintenance, and integrates multiple protocols such as NAS, NFS, CIFS, and FTP. Provides multiple ways to access storage data, providing users with a comprehensive storage solution.



Data Protection

- **Multi-policy Snapshot**

You can configure multiple snapshot policies based on the time interval, week, month, and day

- **A snapshot of the rollback**

You can restore data to a point in time by rolling back a snapshot

- **Snapshot views**

Use the data in the snapshot resource and the data in the source resource to recreate a virtual source resource corresponding to the selected snapshot point in time

- **The snapshot copy**

The source resource data at the point in time is generated using the data in the snapshot resource and the source resource data, and is written to disks as permanent resources

- **The snapshot agent**

To implement consistency protection for data at a certain point in time and allow uninterrupted data access during this process, the client needs to cooperate with the snapshot agent

- **The data backup**

Key data can be backed up locally or remotely between devices. After the backup data is promoted or restored, the backup

data can be seamlessly switched over and directly used by clients

- **Backup strategy**

A backup policy can be configured based on the file type, file name, and file modification time to implement all-weather backup of multiple policies

- **Multiple backup**

You can set the destination end of a backup job as the source end of a new backup job to create a backup of a new policy

- **Centralized backup**

Supports many-to-one centralized backup, and each backup task can be set to PULL or PUSH mode

- **Data safe box**

Online embedded UPS protection and data safe box are provided to ensure secure writing of cache data into data safe box at unexpected power-off without data loss.

- **WORM function**

WORM: Write Once Read Many, protects important data against tampering.

- **Link protection**

Link aggregation and dynamic failover ensure the read/write bandwidth without affecting the availability of data channels.

- **Quota management**

Soft quota and hard quota are supported. When the quota is reached, an alarm is reported.

- **Safe mode**

Supports common host mode, user mode (Kerberos authentication), and Windows domain mode authentication.

RAID Features

- **Block virtualization technology RAID-NT**

Supports dynamic storage pools, automatic data load balancing, and evenly distributed hot spare space on each disk in the storage pool, with performance >2TB/h.

- **RAID Rebuild**

Automatically adjust the reconstruction speed of the array group according to the current system busyness.

Second-level reconstruction, only the changed part of the data is reconstructed, which can shorten the reconstruction time to second-level.

Fast reconstruction, rebuild data by copying, and migrate endangered data to hot spare disk in a short time.

- **Disk pre-copy**

Supports disk health management, and pre-copy data on risky disks in advance.

- **Inspection, repair and fault tolerance**

Automatic array inspection, disk failure repair, and disk bad block remapping functions effectively reduce disk failures

Disk fault-tolerant processing can be performed. When multiple disks in the array have errors, the storage activity can still be guaranteed.

- **Disk migration**

Support online hot swap of disks and disk migration of arrays between devices.

- **Unique C-video technology**

If multiple disks in a storage array fail, services can be continued to ensure that video data can be read and stored.

High performance

- **Video specific cache algorithm**

This improves disk access performance and prolongs the service life of disk.

- **SSD Cache**

Improves hotspot data access performance.

Hardware Design

- **Modular redundancy of components**

All modules are connected using carrier-class connectors. Key components such as power modules, battery modules, and fan modules are hot swappable and online replacement based on redundant architecture, ensuring service continuity and data reliability. The system availability reaches 99.999%.

- **Lead hardware**

Based on Intel 64-bit most advanced multi-core processor design, multi-channel high-performance memory interface, advanced PCI-E3.0, SAS3.0 bus technology.

- **Dual BIOS**

Ensure reliable system startup and secure update BIOS.

- **Hardware and software two-level watchdog**

In case of a system fault, the system can automatically recover services without human intervention.

- **Intelligent temperature control**

The adaptive temperature adjustment system automatically senses the temperature change and adjusts the fan speed in multiple linear ways. The intelligent fan speed adjustment reduces the power consumption of the fans and derates the fans to prolong the service life of the fans.

- **Dust proof, shock absorption, corrosion resistance**

Unique disk dustproof design, effectively prevent dust.

Patented disk shock absorption technology to reduce disk resonance transfer and external impact on the disk.

Using original anti-corrosion early warning technology and patented disk anti-corrosion technology, to the greatest extent to reduce the external disk corrosion, prolong the service life of the disk.

Easy to maintain

- **Unified graphical management**

Graphical unified management of multiple devices, one-click operation of storage configuration, comprehensive real-time environmental control monitoring, and user behavior audit (recording information about operators, behaviors, and time).

- **Comprehensive alarm mechanism**

Supports led alarms, email alarms, buzz alarms, SHORT message alarms, led alarms, and SNMP alarms.

Energy Saving

- **Disk dormancy**

Spin-down of disks without service I/Os reduces disk power consumption and prolongs disk service life.

- **CPU intelligent frequency modulation technology**

The CPU frequency is automatically adjusted based on the busy service level to save power consumption.

Specifications

Item	VX1816-NAS	VX1824-NAS	VX1836-NAS	VX1848-NAS
Controller /Memory	Intel 64-bit multi-core processor/8 GB(up to 64 GB)			
Front-end Service Interface	5-port 10/100/1000 Mbps Ethernet interface			
	4-port 10/100/1000 Mbps Ethernet interface module (optional)			
	2-port / 4 port 10 GE SFP+ interface module (optional)			
	2-port 8Gbps FC port (optional) / 4-port 16Gbps FC port (optional)			
PCI-E slot	2	3	2	3
HDMI	2			
Serial port	1 RS232 RJ45 port	1 RS232 RJ45 port	2 RS232 RJ45 port	1 RS232 RJ45 port
USB	2 USB3.0			
Back-end Expansion Interface	2 * 4x12Gbps Mini SAS HD port			
Disk channel number	16	24	36	48
Maximum number of disks	160	240	252	480
Disk type	SATA/SSD/SAS/NL-SAS			
RAID	JBOD and RAID 0, 1, 10, 5, 50, 6, 50, RAID-NT Dedicated hot-spare disk and global hot-spare disk			
Maximum Number of Logic Resources	1024			
NAS Management	Support soft quota and hard quota management on NAS resources			
	Windows client: user mode and domain mode (the domain server completes user authority verification)			
	NFS Client: Host mode and User mode (Kerberos)			
Protocol Supported	NFS(V2、V3、V4)、CIFS/SMB、FTP			

Software features	Snapshot rollback, Snapshot view, Snapshot copy, Consistent snapshot group, local backup, remote backup, WORM, Heterogeneous virtualization, and Block Virtualization RAID-NT			
Alarm Feature	Indicator light alarm, buzzer alarm, email alarm, SNMP Trap alarm, SMS alarm, digital tube alarm			
System support	Windows、Linux、AIX、HP-UNIX、Solaris、VMware			
Power supply	1 default, 1 optional			
Battery	1	1 default, 1 optional	1	1 default, 1 optional
Dimension(H×W×D)	131mm X 481.6mm X589mm	175mm X 481.6mm X589mm	175mm X 481.6mm X589mm	175mm X 481.6mm X801mm
Fully configured power	<320W	<400W	<550W	<650W
Power Consumption	100 V – 127 V/ 200 V – 240 V AC, 60 Hz/50 Hz			
Fully configured weight	<33kg	<42kg	<50kg	<60kg
Authentication certificate	CE、FCC、UL、CCC、CQC			
Operating temperature	5 °C~40°C / 41 °F ~ 104 °F,(10°C~ 35°C / 50 °F ~ 95°F Recommended)			

* Note: Specifications are subject to change, please refer to the documents provided with the equipment

Zhejiang Uniview Technologies Co., Ltd.

South Tower, Building 10, Wanlun Science Park, 88 Jiangling Road, Hangzhou, P. R. China 310051

Email: overseasbusiness@uniview.com; globalsupport@uniview.com

<http://www.uniview.com>

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***Product specifications and availability are subject to change without notice.**