

# CoreStor™



## CoreStor High Availability NAS

**The affordable choice for deployments where cost/performance (IOPS) is primary consideration.**

CoreStor High Availability NAS is a unified storage system which presents block and file storage services simultaneously out of a single platform. It offers the flexibility of choice, providing CIFS/SMB, AFP, and NFS for file storage and iSCSI for block storage. Every common operating system, hypervisor, and application is supported, providing the benefits of enterprise-grade SAN/NAS capabilities – such as high availability, unlimited snapshots and deduplication.

### KEY FEATURES

Active-Active Dual Controller.

ALUA Support.

Fast Failover.

ZFS and RAID Protection.

SSD Caching Support.

Hybrid Storage for Flexibility and Performance.

Fail-Safe Networking.

Thin provisioning.

Inline, block-based deduplication.

File Level and Block Level Snapshots.

Remote Replication for Disaster Recovery.

Integration with Windows Active Directory and LDAP.

### OVERVIEW

#### True Active-Active Dual Controller NAS

- Fast failover – inter-process communication and heartbeat is achieved using high speed bus on backplane.
- Efficiency – supports all RAID levels in the storage pool.
- Supports global namespace. Both controllers see the same HDD configuration and storage pool.
- Performance scaling – both controllers can deliver I/O and services at the same time. IOPS can scale 1.5 times.
- Consistent data after recovery – after recovery from controller failure, all disk data remain intact and consistent.
- Cache mirroring through high speed bus (64Gb/s) on backplane.
- Responsive failover time.
- Easy management to scale performance and capacity.
- No quorum disk is needed.
- More economic than commodity cluster servers.

#### Redundant and Fault Tolerant Design

No single point of failure. RAID controller, fan module, and power supply module are redundant and hot swappable for maximum availability and easy on-site maintenance. All modules are connected to the backplane circuit board to achieve the most reliable signal transmission and the best aerodynamic thermal efficiency.

#### Enterprise Grade Storage Efficiency

Thin provisioning allows just-in-time capacity and allocates storage space that does not exist. Inline, block-based deduplication helps you remove data redundancy at block level. Compression is lossless and can help save even more storage space.

### Available models

Form	Drive Bays	Host Interface	Model
2U	12	iSCSI (2x10GbE / 3xGbE)	2712HR
3U	16	iSCSI (2x10GbE / 3xGbE)	3716HR
4U	24	iSCSI (2x10GbE / 3xGbE)	4724HR
2U	12	iSCSI (7xGbE)	2712GR
3U	16	iSCSI (7xGbE)	3716GR
4U	24	iSCSI (7xGbE)	4724GR



Form	4U	3U	2U
<b>HDD Trays</b>	24	16	12
<b>Supported Drives</b>	500GB, 1TB, 2TB, 3TB, 4TB, and 6TB supported		
<b>Maximum Capacity</b>	144TB (when using 6TB drives)	96TB (when using 6TB drives)	72TB (when using 6TB drives)
<b>RAID Level</b>	0, 1, 5, 6, 10, 50 and 60		
<b>Storage Pool</b>	Dedicated hot spare disks, multiple RAID groups support, auto volume rebuilding, online pool expansion, offline pool roaming		
<b>Data Services</b>	SMB 2.0, NFS v3/v4, iSCSI target		
<b>High Availability</b>	Controller failover, ALUA support, automatic/manual controller failback, network port failover/failback		
<b>Storage Efficiency</b>	Thin provisioning, compression, SSD caching		
<b>Directory Services</b>	Microsoft AD, Windows ACL, LDAP, UnifiedAUTH		
<b>Virtualization</b>	VMware, Hyper-V, Citrix		
<b>OS</b>	Windows, Red Hat Enterprise Linux 5/6, Solaris 10 or later, Mac OS X		
<b>Power Supply</b>	3 redundant power modules	2 redundant power modules	
	Redundant 500W / 80 Plus energy-efficient power modules with PFC, load sharing and cable-less design.		
<b>Dimensions</b>	19"W x 20"D x 7"H	19"W x 20"D x 5.25"H	19"W x 20"D x 3.5"H