Datasheet

Leverage the power of ZFS to grow your network storage at breakthrough savings without sacrificing enterprise features

AT A GLANCE

- Nexenta Certified NAS/SAN Appliances & Solutions
- ZFS-based Open Storage with Multiprotocol Access
- Inline Data Deduplication & Compression of Primary Storage
- High-Availability with Active/Active Failover
- Storage Virtualization-Ready

NexentaStor™
Certified

The Search for Cost-Efficient Network Storage

For IT managers and network administrators, keeping pace with growing storage needs can be a challenge. With traditional methods of block-level storage proprietary and cost-prohibitive, the ability to archive business data and expand network storage without sacrificing enterprise capabilities or consuming an entire technology budget exists for resource-strapped IT departments.

The answer? Eliminate closed-platform and proprietary legacy storage technologies in exchange for an open storage platform that runs on industry-standard hardware.

Introducing the StorageDirector Z Series

Powered by NexentaStor™ Enterprise – the open storage NAS/SAN platform developed by Nexenta – the StorageDirector Z Series family of managed appliances and SAN solutions are designed for IT departments to expand their network at breakthrough savings without sacrificing enterprise features. Leverage the superior data integrity and versatility of the ZFS file system to deploy and manage large storage volumes at a fraction of the cost of legacy storage technologies.

Open Storage Platform

Based on NexentaStor™ Enterprise, the StorageDirector Z takes an open storage approach that eliminate vendor lock-in. Experience state-of-the-art technologies in ZFS with the usability of Linux on a standardized hardware platform.

High-Availability without the High Cost

Now companies of all sizes can benefit from a high-availability solution that doesn't consume an entire IT budget. The Storage Director Z2 HA Cluster eliminates a single-point of failure with dual-head systems mirrored for an Active/Active failover pair – ideal for deploying highly-accessible environment. Serve business-critical services or host a virtualized data center with a business continuity solution that's up to 40% less than closed-platform HA SAN solutions.

Storage Virtualization-Ready

Simplify the storage management of virtualized infrastructures with NexentaStor™, the only storage solution to support all the major hypervisor platforms. With the VM Data Center add-on, the StorageDirector Z can easily be configured to host VMware, Citrix or Microsoft Hyper-V virtual machine images over NFS or iSCSI network shares.

Scale-Out As Needs Grow

Dramatically reduce storage acquisition cost with a single unified solution. Expand the base configuration of any StorageDirector Z2 model by connecting an additional expansion shelf – unlimited storage capacity.

Product Overview
Learn how the Storage Director Z Series – powered by NexentaStor™ Enterprise – leverages the versatile ZFS file system to match (and exceed) the storage capabilities of cost-prohibitive legacy SAN solutions.

Open Storage Platform
NexentaStor™ OS – Based on the OpenSolaris kernel, NexentaStor™ OS provides an open storage platform as an alternative to proprietary SAN technologies

ZFS File System – The 128-bit ZFS file-system delivers a scalable storage platform with rich feature set

Unified Storage with Multiprotocol Support – Share data with multiple end-users over NFS, iSCSI, CiFS and Fiber Channel networks

Find-&-Correct Silent Data Corruption – Self-healing checksums and transactional copy-on-write I/O operations eliminate data corruption

Unlimited Storage Capacity – NexentaStor™ eliminates storage limitations with large-capacity disks and disk shelf system expansion

Data Management & Protection
Block-level Mirroring – Set-up auto-sync backups to offsite locations or remote systems

Heterogeneous Block-level & File-level Replication – Synchronous or asynchronous data replication for easy disaster recovery to offsite locations or remote systems

Deduplication & File Compression – Conserve primary storage with native file-compression and in-line data deduplication

Unlimited Snapshots – Create any number of snapshots (with integrated search) to ensure granular recovery of data

High-Availability Cluster-Ready – Active/Active failover cluster to a stand-by instance of NexentaStor™ through mirrored head systems

Software Plug-ins
High Availability Cluster – Active/Active failover with a 2nd instance of NexentaStor™ to increase availability by eliminating a single point of failure

VM Data Center – View and manage a VMware, Citrix Xen or Microsoft Hyper-V virtualized infrastructure from a single point-and-click interface. Set-up backups, provision storage, set-up replication & retention policies, and perform common tasks, such as stopping & starting VMs or creating template-based clones

Delorean Windows Back-up, Restore & Search Application – ZFS-powered back-up for Windows with VSS clients. Select files and folders to protect via a built-in File Explorer interface, with the option for replication in NexentaStor™

Enterprise Features

 High-Availability Cluster

 Deduplication & Compression

 Unlimited Snapshots

 Virtual Data Center Storage

 Hybrid Storage Pools

BENEFITS

- Nexenta Certified to Accelerated Deployment
- Open Storage Platform to Avoid Vendor Lock-In
- Cleaner Data Integrity
- Unified Storage Via any Network Protocol
- High-Availability Without the High Cost
- Storage Virtualization-Ready
- Scale-Out As Needs Grow

User Scenarios

 Application Server

 Data Protection

 Digital Video Archive

 Cloud & Hosted Storage

 Primary or Tiered Storage

Storage Management

NexentaStorTM Management View – Centralized web-based tool allows a variety of functions to be performed from any location. Create, grow, delete, export and import storage volumes

NexentaStorTM Management Console View – A wizard tool with the ability to record and replay commands across all instances of NexentaStorTM

Storage & Service Reports – Easily generate automatic and periodic reports to manage the performance of the system and integrate it into SNMP based management solutions

System Features

Dual Intel® Xeon® 5600 Processors
Up to 96GB of Memory
Unlimited Storage Capacity - Over 576TB
Up to 24 Hot-swap Drive Bays
Large-Capacity 3.5" SAS or Ultra-Fast 2.5" SSD Drives
Up to Six Gigabit Adapters with expansion
Optional redundant SAS controllers
Redundant Power Supply

Expansion Features

Up to 48TB Disk Shelf
Expand up to Four Disk Shelves
High-capacity 3.5" SAS or Ultra-fast 2.5" SSD Drive Options
LSI 6Gb/s SAS HBA

NexentaStor™ provides a complete Linux-based GUI for ZFS, eliminating the pain of command-line configuration!

VM DataCenter plug-in integrates with major virtualization platforms to perform a variety of functions, such as create, delete or import storage volumes.

CUSTOMERS INCLUDE

"We replaced EMC with NexentaStor. Nexenta provided best-in-class features and was superior to the storage appliance we had from EMC. The total license and support cost of the NexentaStor solutions was less than the support renewal cost of the EMC appliance."

-Jessie Bryan, *Impulse, Dir. of Systems Engineering*

	StorageDirector Z 245 Appliance	StorageDirector Z 250 Appliance	StorageDirector Z2 Foundation SAN	StorageDirector Z2 HA Cluster SAN
System	2U Form Factor	2U Form Factor	Single Head System	Dual Head System
Operating System	NexentaStor Enterprise Edition	NexentaStor Enterprise Edition	NexentaStor Enterprise Edition	NexentaStor Enterprise Edition
Support Package	Pogo Complete Maintenance Plan	Pogo Complete Maintenance Plan	Pogo Complete Maintenance Plan	Pogo Complete Maintenance Plan
HA Cluster Plug-in	N/A	N/A	N/A	Included
VM Datacenter Plug-in	Available	Available	Available	Available
Maximum Disk Drives	24x SAS Drive Bays	12x SAS Drive Bays	Expand up to Four Disk Shelves	Expand up to Four Disk Shelves
Storage Expansion	Up to 40TB	Up to 40TB	Unlimited – Over 576TB	Unlimited – Over 576TB
Processor	Up to a Dual Six-Core Intel Xeon 5600 with Hyper-Threading	Up to a Dual Six-Core Intel Xeon 5600 with Hyper-Threading	Up to a Dual Six-Core Intel Xeon 5600 with Hyper-Threading	Up to a Dual Six-Core Intel Xeon 5600 with Hyper-Threading
Maximum Memory	Up to 48GB Memory	Up to 72GB Memory	Up to 96GB Memory	Up to 96GB Memory
Disk Interconnect	6Gb/s Networking	6Gb/s Networking	6Gb/s Networking	6Gb/s Networking
Integrated Networking	(2) Gigabit Ethernet	(2) Gigabit Ethernet	(6) Gigabit Ethernet	(6) Gigabit Ethernet
Multipath I/O	Available	Available	Available	Available
Workload	• Application or File Server • Cloud & Hosted Services • Digital Video Archive • Data Archive • Offsite Backup	• Application or File Server • Cloud & Hosted Services • Digital Video Archive • Data Archive • Offsite Backup	• Storage Tiering • Cloud & Hosted Services • Storage Virtualization • Large Data Archive • Disaster Recovery • Offsite Backup	• Primary Storage • Storage Tiering • Cloud & Hosted Services • Storage Virtualization • High Availability Workloads • Disaster Recovery • Offsite Backup
Starting Price	$5,520	$6,020	$32,300	$29,400

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Network storage made easy

Pogo Storage, a division of Pogo Linux, helps companies of all sizes reduce storage cost with breakout, next-generation technologies and a hybrid storage strategy.

Discover how network storage is made easy by visiting www.pogostorage.com

Additional Resources
www.pogostorage.com/nexenta
www.nexenta.com

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