



HP StorageWorks X9000 Network Storage Systems family

Data sheet

Are you faced with a hard-to-manage data explosion? The exponential growth of unstructured data can lead to rampant infrastructure costs. To gain control of file-based data, a new storage solution that scales affordably, seamlessly, and with zero downtime is required.

HP StorageWorks X9000 Network Storage Systems scale-out beyond traditional network attached storage in both capacity and performance. Designed to be extremely scalable, flexible, and cost-efficient, HP X9000 Network Storage Systems deliver excellent performance and a modular storage infrastructure to accommodate unprecedented storage growth and performance. Central management allows the administrator to manage not just terabytes but multi-petabyte environments at the highest density available from HP. The pay-as-you-grow architecture and an all-inclusive feature set reduces storage over-provisioning or expensive add-ons. X9000 is the platform for customers designing the next generation data center.

Key features and benefits

Non-disruptive Scalability

Grow capacity seamlessly: Modular storage infrastructure accommodates tens of terabytes to multi-petabyte storage growth with no downtime.

Single namespace for easy management: The X9000 increases capacity utilization and simplifies management with a single namespace that can scale to 16 petabytes.

Scale bandwidth and application performance online: Fully distributed metadata provides breakthrough performance for both data intensive and transactional applications.

Zero downtime with just-in-time scalability: The X9000 allows you to avoid expensive and complicated forklift upgrades by increasing to first-rate performance without taking data offline.



Control costs associated with explosive data growth and improve performance of file-based applications with scale-out network storage that efficiently manages information in a single namespace.

Extreme Flexibility

Superior performance for all file workloads:

Maximize productivity regardless of I/O workloads—small or large files and I/Os, reads or writes, and random or sequential.

Supports all major file protocols concurrently:

Consolidate Windows, MAC, Linux, and UNIX file data in a single, managed pool of storage, regardless of protocol (CIFS/NFS).

On-the-fly storage rebalancing: Respond to rapidly changing business needs by evenly distributing files across the storage to remove hotspots and ensure performance level is maintained.

Optimize investment through product generations:

Maintain data online by extending storage capabilities to accommodate new and different storage technologies.

Breakthrough Cost Savings

Full featured appliance lowers acquisition costs: The X9000 comes as a complete scale-out NAS appliance fully configured with a rich feature set that includes a single namespace, rebalancing, continuous remote replication, policy management, and data tiering.

Easy-to-use central management interface:

While most large storage systems require multiple management tools to manage the system, the X9000 management server enables a single point for system configuration and control, which includes monitoring health status, performance utilization, file system expansion, and server and storage capacity.

Data tiering optimizes storage efficiency: The X9000 has built-in policy management and automated file migration, which reduces cost by moving less active data from higher cost storage to more affordable storage, thus lowering operational costs and improving overall storage efficiency.

Modular pay-as-you-grow architecture: The X9000 multi-tiered storage removes costly over-provisioning which allows you to more easily match the storage system to your business requirements.

Total Confidence

High availability and dynamic load balancing: The X9000 system redundancy and automatic detection of hardware and software failures provides consistent availability, while dynamic load balancing ensures hotspots are reduced and data is always available.

Site level protection for disaster recovery: With the X9000 you get continuous remote replication between geographically dispersed sites which reduces risk of business outage and costly downtime.

Ensures data availability through rolling upgrades: Zero downtime system maintenance and upgrades keeps your business running.

HP StorageWorks X9000 Network Storage Systems

Technical specifications

HP StorageWorks X9320
Network Storage System



HP StorageWorks X9720
Network Storage System



HP StorageWorks X9300
Network Storage Gateway



Drive Type	146 GB 3G 15K SFF Dual-port SAS 1 TB 3G 7.2K LFF Dual-port MDL SAS 2 TB 6G 7.2K LFF Dual-port MDL SAS MSA2 300 GB 3G 15K LFF Dual-port SAS MSA2 450 GB 3G 15K LFF Dual-port SAS MSA2 1 TB 3G 7.2K LFF SATA Supported, depending on model
Capacity	21 TB Starting 1.3 PB Maximum Depending on model
Number of Storage Blocks	8 Maximum Depending on model
Number of Performance Blocks	16 Maximum Depending on model
Transfer Rate	3.2 GB/s Raw potential throughput Depending on model
Supported Operating Systems	Linux
Availability	Self healing, fully symmetrical active/active, hot plug drives, redundant power supplies, redundant fans, dual controllers
RAID Support	RAID 1, 5, 6
File Serving Support	CIFS, NFS
Warranty	3 year parts, 3 year labor, 3 year onsite support, next business day response
QuickSpec URL	http://h18000.www1.hp.com/products/quickspecs/13467_div/13467_div.pdf

Service and support

HP Factory Express

HP Factory Express is designed to help you get a better return from your IT investment by providing customization, integration, and deployment services along with your storage and server purchases. It provides predictable, trusted, and tested IT solutions tailored to your business needs. We allow you to customize hardware to your exact specifications in the factory—helping to speed up deployment and free up internal resources. www.hp.com/go/factoryexpress

Customer technical training

Consider education as an integral part of your strategy to get the best return on investment for your HP storage solution. HP offers a variety of training courses on storage software, networking, archiving, and disk storage systems. Our classes are available in many delivery modalities from traditional instructor-led courses at one of our 80 training centers worldwide to onsite training customized to your needs or online.

www.hp.com/learn/storage

HP Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage, and ultimately retire their HP solutions. For more information on these services, please contact your HP representative or visit

www.hp.com/go/hpfinancialservices

HP Services

HP Technology Services, trusted professionals to boost availability and avoid costly downtime, with your HP StorageWorks X9000 Network Storage Systems solution.

Recommended services

3-Year HP Support Plus 24: For a higher return on your storage technology, this 3-year combined reactive support option delivers integrated onsite hardware/software support available 24x7.

HP Enterprise NAS Implementation Service: For smooth startup and better business outcomes, this service provides implementation of HP Enterprise NAS in your storage environment.

Related services

HP Enterprise NAS Upgrade Service: Provides onsite upgrades for customers not wishing to perform upgrades themselves.

For more information about HP services and support, contact your HP sales representative or HP-authorized Channel Partner or, visit

www.hp.com/hps/storage

To manage data explosion and gain control of file-based data, please visit www.hp.com/go/x9000

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