

# HP StoreAll Storage



## Delivers hyperscale storage to tame and mine your expanding archives

Do you need to increase storage efficiency, improve data governance, or reduce risk by archiving unstructured data?

HP StoreAll Storage is hyperscale, harnessed, instant, economic storage to tame and mine your expanding archives – from enterprise user online file sync/share and content depots to general archives, governance archives, and backup repositories. StoreAll increases your return on information, infrastructure, and individuals by enabling you to effectively store, retain, protect, manage, access, AND extract value from continuously growing unstructured data.

StoreAll scales out massively without complexity to 16 petabytes of billions of files and objects with access via a broad range of included file protocols and native OpenStack Object Storage API. It brings structure to your unstructured data with data retention, WORM, auditing, and data integrity validation. Metadata analytics and search can be performed up to 100,000X faster with Express Query – enabling sophisticated storage administration and enhancing integrated applications. Costs can be scaled down over time with policy-based tiering.

## Key Features and Benefits

### **Hyperscale: Massive Scalability Without Complexity**

- Seamlessly scale out with HP StoreAll Storage to 16 petabytes of billions of files and objects.
- Deploy traditional and new generation cloud archive applications with data access via a broad range of included file protocols and native OpenStack Object Storage API.
- Manage StoreAll Storage and your data from the central, web-based Management Console.

### **Harnessed: Structure for Unstructured Data**

- HP StoreAll Storage enables adherence to your organization's governance policies with data retention services and WORM file immutability.
- Conduct forensics for timely administrator action with pervasive auditing of file system events.
- Add meaning to your data with embedded custom metadata tagging using StoreAll Express Query.
- Proactively manage long term data durability with integrated data integrity validation.

### **Instant: Up to 100,000X Faster Analytics and Search<sup>1</sup>**

- Make metadata informed storage administration decisions orders of magnitude more quickly using StoreAll Express Query-powered reporting within HP StoreAll Storage.
- Enhance applications by integrating with the StoreAll Express Query REST API, and avoid the cost and complexity of an external metadata database.

### **Economic: Scale Down Costs of Storing Data Over Time**

- HP StoreAll Storage optimizes your costs throughout the data lifecycle with policy-based tiering.
- Modularly add capacity and performance as your archive expands with the pay-as-you-grow architecture.
- Leverage the rich set of all inclusive software features for data retention, protection, optimization, and management.

<sup>1</sup>Based on HP internal comparison of traditional file system scans versus HP StoreAll Express Query. HP Express Query took 1.434 seconds to complete. The previous find command took 151,278.706 seconds to complete.

## HP StoreAll Storage

### StoreAll 8200 Gateway Storage

<b>Model Differentiator</b>	Gateway for 1GbE or 10GbE networks that provides archive services with HP 3PAR StoreServ 7000 and 10000 Storage
<b>Form Factor</b>	2U rack mount per Node
<b>Network Connectivity</b>	(1) 4-port 1Gb Ethernet included for management network only; (2) 4-port 1Gb Ethernet NICs or (2) 2-port 10Gb Ethernet NICs supported for cluster and client network
<b>Protocols</b>	SMB/CIFS, NFS, FTP and FTPS, HTTP and HTTPS, WebDAV, StoreAll REST API File Compatibility Mode, OpenStack Object Storage API, ICAP, NDMP
<b>Storage Connectivity</b>	(1) Smart Array P420i included for mirrored internal OS drives; (1) Fibre Channel HBA included for disk array attach; (1) Fibre Channel HBA supported for offloading backup traffic from the network
<b>Supported Disk Arrays</b>	HP 3PAR StoreServ 7000 and 10000 Storage
<b>Storage Capacity</b>	Depends on attached disk array; 240 TB maximum per pair of Nodes; 16 PB maximum supported with multiple pairs of Nodes
<b>Data Services</b>	Data Retention Policies, WORM, Constant Validation, Snapshots, Continuous Remote Replication, Tiering, Rebalancing, Express Query, Quotas, Auditing, and Reporting included.
<b>Management</b>	StoreAll Management Console, Integrated Lights-Out 4 with Advanced License
<b>Warranty (parts-labor-onsite)</b>	3/3/3
<b>What Is In The Box</b>	(1) HP StoreAll 8200 Gateway Node; (2) Power cords; Preinstalled StoreAll OS

### StoreAll 8800 Storage

<b>Model Differentiator</b>	Converged hyperscale, economic, ultra-dense appliance that can be flexibly configured for a broad range of archive workloads
<b>Form Factor</b>	2U rack mount per Node; 2U or 5U rack mount per Capacity Block
<b>Network Connectivity</b>	(1) 4-port 1Gb Ethernet included for management network only; (2) 4-port 1Gb Ethernet NICs or (2) 2-port 10Gb Ethernet NICs supported for cluster and client network
<b>Protocols</b>	SMB/CIFS, NFS, FTP and FTPS, HTTP and HTTPS, WebDAV, StoreAll REST API File Compatibility Mode, OpenStack Object Storage API, ICAP, NDMP
<b>Storage Connectivity</b>	(1) Smart Array P420i included for mirrored internal OS drives; (2) StoreAll P1228 RAID Controllers included for user data in supported Capacity Blocks; (1) Fibre Channel HBA supported for offloading backup traffic from the network
<b>Drive Types</b>	450 or 900 GB 6G 10K SFF Dual-port ENT SAS and 2, 3, or 4 TB 6G 7.2K LFF Dual-port MDL SAS supported in Capacity Blocks for user data
<b>Storage Capacity</b>	560 TB maximum raw capacity supported per pair of Nodes; 16 PB maximum supported across multiple pairs of Nodes
<b>Data Services</b>	Data Retention Policies, WORM, Constant Validation, Snapshots, Continuous Remote Replication, Tiering, Rebalancing, Express Query, Quotas, Auditing, and Reporting included
<b>Management</b>	StoreAll Management Console, Integrated Lights-Out 4 with Advanced License included
<b>Warranty (parts-labor-onsite)</b>	3/3/3
<b>What Is In The Box</b>	(1) HP StoreAll 8800 Storage Node; (2) Power cords; Preinstalled StoreAll OS

HP Factory Express provides customization and deployment services along with your storage and server purchases. You can customize hardware to your exact specifications in the factory—helping speed deployment. [hp.com/go/factoryexpress](http://hp.com/go/factoryexpress)

Gain the skills you need with ExpertOne training and certification from HP. With HP Converged Storage training, you will accelerate your technology transition, improve operational performance, and get the best return on your HP investment. Our training is available when and where you need it, through flexible delivery options and a global training capability. [hp.com/learn/storage](http://hp.com/learn/storage)

Customize your IT lifecycle management, from acquisition of new IT, management of existing assets, and removal of unneeded equipment. [hp.com/go/hpfinancialservices](http://hp.com/go/hpfinancialservices)

## Resources

### QuickSpecs

[h18004.www1.hp.com/products/quickspecs/14792\\_div/14792\\_div.pdf](http://h18004.www1.hp.com/products/quickspecs/14792_div/14792_div.pdf)

## The total package

### HP Services

Discover, plan, and design, understand your options and build it right from day one:

- HP Storage Efficiency Analysis
- HP Storage Impact Analysis
- HP Storage Modernization Service
- HP Storage Cloud Design Service

Deploy and integrate, increase uptime and decrease risk as you free up your resources:

- HP StoreAll Implementation Service
- HP Storage Data Migration Services
- HP Storage and Data Consultant Residency Services
- HP Proactive Select

Operate and support, meet service level agreements (SLAs) with the right support level. Choose from three levels of operate and support care:

- **Optimized Care**—Delivers the highest levels of performance and stability through deployment and proactive management practices  
HP Proactive Care 24x7—Plus, 30 credits per year  
Additional options: HP Proactive Care Personalized Support (once per each new Proactive Care support environment), HP Personalized Support Additional Day, and an additional 10 HP Proactive Select credits per year
- **Standard Care**—Maintains high level of uptime, along with expert help to cut the cost and complexity of implementation and support:  
HP Proactive Care 24x7—Plus, 20 credits per year  
Additional options: HP Proactive Care Personalized Support (once per each new Proactive Care support environment), HP Personalized Support Additional Day, and an additional 10 HP Proactive Select credits per year
- **Basic Care**—Minimum recommended support  
HP Proactive Care 24x7  
Additional options: HP Proactive Care Personalized Support (once per each new Proactive Care support environment), HP Personalized Support Additional Day, and an additional 10 HP Proactive Select credits per year

If none of our support recommendations meet your needs, we can tailor a service solution for your unique support requirements. Only HP brings together deep expertise, proactive and business critical support and a strong partner network—plus, a full set of infrastructure services designed to power a Converged Infrastructure.

For more information visit [hp.com/services/storage](http://hp.com/services/storage)

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