



# HPE 3PAR StoreServ 9000 Storage

## Disk Storage Systems



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### What's new

- Empower data at the speed of memory with the industry's first Tier-1 storage with Storage Class Memory (SCM) and NVMe
- Eliminate storage networking bottlenecks and accelerate performance for all-flash with new HPE 3PAR 32Gb FC
- Reduce troubleshooting and management headaches with HPE InfoSight Advanced Performance Analytics, available in HPE SSMC 3.4 management console

### Overview

Are you looking to consolidate your enterprise data center applications and workloads from legacy storage as part of your digital transformation? HPE 3PAR StoreServ 9000 Storage helps you consolidate primary storage workloads – for file and block -- onto an enterprise-class flash array without compromising performance, scalability, data services, or resiliency. This HPE 3PAR 9000 Storage is based on the proven HPE 3PAR architecture and is purpose built for all-flash consolidation, delivering the performance, simplicity and agility needed to support your hybrid IT environment. Whether your applications are virtualized, containerized, or traditional, the HPE 3PAR StoreServ 9000 Storage offers you a solution that can deliver improved business results. More transactions, better availability, lower costs regardless of how you consume

storage, with a cloud-like pay as you grow model or a traditional capital expense model. Hewlett Packard Enterprise, has you covered.

## Features

### **Accelerate Fibre Channel Performance for 3PAR all Flash storage**

HPE 3PAR 9000/20000 32Gb FC HBA delivers up to 2X performance compared to the 16Gb 4 port FC HBA in a smaller port footprint for mixed workloads and FC port consolidation.

### **Consolidate Multiple Legacy Arrays with Abundant Capacity**

The HPE 3PAR StoreServ 9000 Storage can scale to 18 PiB of usable all-flash capacity or >100 TiB raw, offering plenty of room for growth. Consolidate multiple midrange systems for more performance and more scale for your all-flash data center.

Delivers better business results with performance capable of over 2 million IOPs at sub millisecond latency and with 34 Gb/s in bandwidth.

Get a robust 5-year warranty with 7-years of wear out on all SSDs, no caveats [1]

Combines your workloads with flexibility to support both block and file with HPE 3PAR File Persona. All HPE 3PAR platforms are built from the ground up to leverage a single, converged capacity for block volumes and file shares with lower TCO while offering uncompromising availability.

### **Risk Mitigation for End-to-End Resiliency**

The HPE 3PAR StoreServ 9000 Storage achieves 99.9999% data availability in your multisite federated environment with HPE Peer Persistence. Extended support to a third data center provides data protection in case of a local storage failure and a complete disaster recovery (DR) plan.

Verifies data integrity with 3PAR Persistent Checksum to protect your data against silent corruption from the host to the storage array. Where 3PAR Persistent Checksum detects media or transmission errors, graceful error recovery takes place, avoiding impact on the host application.

Integrate HPE 3PAR and HPE StoreOnce providing an availability, replication, and backup service to augment traditional backup processes with HPE Recovery Manager. The performance of snapshots and replication combine with the protection of backup to enable fast and efficient application protection.

Preserve your service levels with 3PAR Persistent Cache so you aren't impacted by unplanned component failure, a key requirement for the virtual data center. HPE 3PAR can maintain high and predictable service levels even in the event of a cache or node failure by avoiding cache write-through mode.

### **Investment Protection with Architectural and Financial Flexibility**

Improve your HPE 3PAR all-flash investment with HPE 3PAR Adaptive Data Reduction technologies, including data packing, deduplication and compression. These features reduce storage costs for total storage efficiency by reducing your data footprint and improving flash media endurance.

Be ready for what's next with HPE 3PAR StoreServ 9450 setup to be ready for extreme performance with Storage Class Memory over NVMe.

Get HPE 3PAR All-Flash today for pennies per GB per month, with HPE 3PAR Flash Now program. The HPE 3PAR Flash Now gives you the ability to strike the right balance when it comes to hybrid IT by bringing public cloud-like economics to your on-prem all-flash storage deployments.

## Technical specifications

## HPE 3PAR StoreServ 9000 Storage

<b>Capacity</b>	6000 TiB Maximum, depending on model
<b>Drive description</b>	SFF SAS
<b>Enclosures</b>	(48) 3PAR 9000 SFF SAS Drive Enclosure Maximum, depending on model.
<b>Maximum drives per enclosure</b>	24
<b>Host interface</b>	32 Gb/sec Fibre Channel (10) Ports per controller 16 Gb/sec Fibre Channel (80) Ports 10 GbE iSCSI/FCoE (40) Ports 10 Gb Ethernet (24) Ports Maximum supported, depending on configuration and model
<b>Cache</b>	896 GiB Maximum, depending on model
<b>Storage controller</b>	3PAR 9000 10-core 2.4 GHz Controller Node Maximum, depending on model
<b>Availability features</b>	Redundant power supplies and fans A minimum of dual redundant controllers, with up to two controllers for added redundancy RAID 1, RAID 5 and RAID 6 for data protection.
<b>Servers supported</b>	HPE ProLiant rack mount and blades HPE Integrity servers Sun SPARC, x86 Cisco UCS IBM p-series Industry Standard Servers Maximum, depending on model
<b>Compatible operating systems</b>	Microsoft Windows Server 2008 Microsoft Windows Server 2008 R2 Microsoft Windows Server 2012 Microsoft Windows Server 2012 R2 Microsoft Windows Hyper-V HP-UX SUSE Linux Enterprise Server (SLES) Red Hat Enterprise Linux (RHEL) VMware ESX and ESXi Oracle Solaris Oracle UEK Oracle Linux Citrix XenServer IBM AIX HPE OpenVMS Apple OS X HPE OpenVMS is a registered release only. For the latest information on supported operating systems refer to Single Point of Connectivity Knowledge for HPE Storage Products (SPOCK): <a href="https://h20272.www2.hpe.com/spock/">https://h20272.www2.hpe.com/spock/</a>
<b>Warranty - year(s) (parts/labor/onsite)</b>	3/3/3

**For additional technical information, available models and options, please reference the QuickSpecs**

## HPE Pointnext

**HPE Pointnext** leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.

### Operational Services

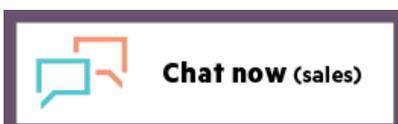
- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

**Advisory Services** includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

**Professional Services** helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

[1] On all SSDs on 3PAR 8000/9000/20000 purchased after June 1, 2015 with life left below 5% as determined by HPE and with drive age less than seven years from warranty start date and no interruption in HPE support coverage. Wear out in years six and seven applies to media and electronic failure replacements for all SSDs.

### Call for availability



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Enterprise**

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