



# HPE 3PAR 9450 UPGRADE NODE WITH ALL- INCLUSIVE SINGLE- SYSTEM SOFTWARE (Q0E94A)

## 3PAR StoreServ Storage



### 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

### 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

- Reduce troubleshooting and management headaches with HPE InfoSight Advanced Performance Analytics, available in HPE SSMC 3.4 management console

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 9450 Upgrade Node with All-inclusive Single-system Software

<b>Product Number (SKU)</b>	Q0E94A
<b>Capacity</b>	6000 TiB Raw
<b>Drive description</b>	SFF SSD Expandable to 576 total SSD with SFF (2.5-in) 2U drive enclosures
<b>Enclosures</b>	(48) 3PAR 9000 SFF SAS Drive Enclosure
<b>Maximum drives per enclosure</b>	24
<b>Host interface</b>	(40) 32 Gb/sec FC ports (80) 16 Gb/s FC ports or (40) 10GbE iSCSI/FCoE ports or (12) 10 Gb/s Ethernet ports (for File Persona only) to the array
<b>Cache</b>	896 GiB
<b>Storage controller</b>	(4) 3PAR 9000 10-core 2.4GHz Controller Node
<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>Minimum dimensions (H x W x D)</b>	59.8 x 200.6 x 112.5 cm



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

## HPE POINTNEXT

Access expertise at every step of your IT journey with HPE Pointnext Services. Advisory Services focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our Professional and Operational Services help speed up time-to-production and keep your IT stable and reliable.

### Operational Services from HPE Pointnext Services

- **HPE Datacenter Care** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- **HPE Proactive Care** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMware, Microsoft, etc.). [Read more](#)
- **HPE Foundation Care** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more](#)

### Other related services

**Defective Media Retention** is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

**HPE Service Credits** offers a menu of technical services, access additional resources, and specialist skills.

**HPE Education Services** delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

## HPE GREENLAKE

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