



Hewlett Packard
Enterprise

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

3PAR StoreServ Storage



WHAT'S NEW

- Protect up to 100% of your SSD investment and upgrade to HPE Primera with HPE Primera upgrade conversion kits. [1]
- Expanded Fibre Channel replication support between HPE 3PAR 9000 and HPE Primera.

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

- Empower data at the speed of memory with the industry's first Tier-1 storage with Storage Class Memory (SCM) and NVMe.

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

Protect up to 100% of your SSD Investment with HPE Primera Upgrade Conversion Kits [1]

Skip the data migration, and upgrade to HPE Primera to experience predictive acceleration and app-aware resiliency.

Accelerate Fibre Channel Performance for HPE 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 1.8 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 [2]

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 [3] 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.



Technical specifications

HPE 3PAR 9450 Upgrade Node with All-inclusive Single-system Software

Product Number	Q0E94A
Capacity	6000 TiB Raw
Drive description	SFF SSD Expandable to 576 total SSD with SFF (2.5-in) 2U drive enclosures
Enclosures	(48) 3PAR 9000 SFF SAS Drive Enclosure
Maximum drives per enclosure	24
Host interface	(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
Cache	896 GiB
Storage controller	(4) 3PAR 9000 10-core 2.4GHz Controller Node
Availability features	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.
Servers supported	HPE ProLiant rack mount and blades HPE Integrity servers Sun SPARC, x86 Cisco UCS IBM p-series Industry Standard Servers Maximum, depending on model
Compatible operating systems	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): https://h20272.www2.hp.com/spock/
Product Dimensions (metric)	59.8 x 200.6 x 112.5 cm



[For additional technical information, available models and options, please reference the QuickSpecs](#)

HPE POINTNEXT SERVICES

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

HPE Integration and Performance Services help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

Other related services

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.

Defective Media Retention is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

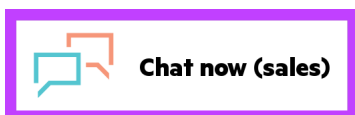
HPE GREENLAKE

HPE Greenlake is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please [explore them here](#).

Make the right purchase decision.
Contact our presales specialists.

[Call for availability](#)



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[1] Conditions apply. Contact your HPE account representative for more information.

[2] 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.

[3] Based on HPE analysis of public information for portfolios spanning IDC mid-range and high-end price bands. <https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA5-2846ENW>

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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