



HPE 3PAR STORESERV 20000 STORAGE

3PAR StoreServ Storage




WHAT'S NEW

- Protect up to 100% of your SSD investment and upgrade to HPE Primera with new HPE Primera upgrade conversion kits [2].
- Expanded Fibre Channel replication support between HPE 3PAR 9000 and HPE Primera.
- 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

OVERVIEW

Have Cloud or IT-as-a-Service (ITaaS) environments forced you to settle for Tier-1 storage that compromises your data center? HPE 3PAR StoreServ 20000 Storage is an enterprise flash array with more than 3.8M IOPS, sub-millisecond latencies, a 16x density advantage over the competition [1], and scalability of over 20 PB of usable capacity for massive consolidation – for block and file workloads as well as object access – with Quality of Service (QoS). The flash-optimized architecture features the HPE 3PAR Gen5 ASIC for silicon-based hardware acceleration, including inline deduplication, compression, data packing, thin technologies and other compaction technologies that can reduce acquisition and



with new HPE 3PAR 32Gb FC.

operational costs without compromising performance. Configuration options are available for all-flash models and combined flash and HDD models. HPE 3PAR StoreServ 20000 also includes at no extra charge data protection with HPE Recovery Manager Central.

FEATURES

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.

Resilient so you can Consolidate with Confidence

The HPE 3PAR StoreServ 20000 Storage maintains 99.9999% availability [3] with a complete set of persistent technologies within your HPE 3PAR array.

Consolidate with confidence and protect against interference from multiple partitions “noisy” neighbors by delivering consistent Quality of Service (QoS).

Achieve extreme data protection for a complete enterprise disaster recovery plan by extending peer persistence support for a third data center across geographical distances.

Simplify backup and restore with HPE Recovery Manager Central (RMC) for application-aware, storage-integrated data protection.

Futureproof to Support Hybrid and On-demand Computing

Get ready for what’s next with the HPE 3PAR StoreServ 20000 Storage emerging technologies, such as storage class memory (SCM) and Non-Volatile Memory Express (NVMe) to protect your investments.

Get All-Flash on premise for a low cost per GB per month, with HPE Flash Now Program.

Modernize your EMC®, HDS®, and IBM® storage infrastructure with painless, no-cost data migration. HPE 3PAR Online Import seamlessly moves data between any HPE 3PAR StoreServ array.

Automated SAN configuration with built-in target driven federated zoning, with HPE Smart SAN.

Flexible to Meet Unpredictable Business Demands

The HPE 3PAR StoreServ 20000 Storage supports the most rigorous, on-demand infrastructure with a virtually limitless, elastic pool of storage.

Runs workloads at the right cost and service level agreement (SLA) with one-click workload balancing.

Slashes management overhead with unified management of block, file, and object access and storage that is self-configuring, self-provisioning, and self-optimizing.



Technical specifications

HPE 3PAR StoreServ 20000 Storage

Capacity	6 PB Raw 15 PB Useable Based on 3.84 TB cLMC SSDs and HPE 3PAR compaction technologies
Drive description	(1920) SFF SAS/MDL SAS/SSD or (1024) SFF/LFF SSD or (960) LFF MDL SAS
Enclosures	(96) 3PAR 12 Gb/sec SAS SFF Drive Enclosure (96) 3PAR 12 Gb/sec SAS LFF Drive Enclosure
Maximum drives per enclosure	24
Host interface	32 Gb/sec Fibre Channel (10) Ports per controller 16 Gb/sec Fibre Channel (20) Ports per controller or 10 GbE iSCSI/FCoE (10) Port per controller or 10Gb Ethernet (6)
Cache	51.6 TiB Maximum, depending on model
Storage controller	(8) 3PAR 6-core 2.5 GHz 20800 Controller Node (8) 3PAR 8-core 2.5 GHz 20850 Controller Node (4) 3PAR 8-core 2.5 GHz 20450 Controller Node (8) 3PAR 8-core 2.5 GHz 20840 Controller Node Maximum, depending on model
Availability features	Redundant power supplies, battery backup units, Mesh active controllers Persistent Cache, Drive sparing and Multiple OS instances.
Servers supported	Maximum, depending on model
Compatible operating systems	HP-UX HPE OpenVMS IBM AIX Microsoft Windows Hyper-V Microsoft Windows Server 2012 R2 Citrix XenServer Oracle Linux Oracle Enterprise Linux Oracle UEK Oracle Solaris Ubuntu Server Edition 12.04 LTS Red Hat Enterprise Linux (RHEL) VMware ESX and ESXi SLES11 SP3 Apple OS X Also includes Red Hat Virtualization, IBM Virtualization and SLES Virtualization



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.

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Contact our presales specialists.

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[1] Based on publicly available information of six EMC VMAX 850 systems totaling 24 PB of usable SSD capacity as compared to the HPE 3PAR 20850 with 24 PB usable SSD capacity (using a 4:1 compaction ratio)

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

[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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