

HPE 3PAR StoreServ 20000 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 with new HPE 3PAR 32Gb FC.

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 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**

Drive description	(1920) SFF SAS/MDL SAS/SSD or (1024) SFF/LFF SSD or (960) LFF MDL SAS
Capacity	6 PB Raw 15 PB Useable Based on 3.84 TB cLMC SSDs and HPE 3PAR compaction technologies
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)
Enclosures	(96) 3PAR 12 Gb/sec SAS SFF Drive Enclosure (96) 3PAR 12 Gb/sec SAS LFF Drive Enclosure
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
Maximum drives per enclosure	24
Cache	51.6 TiB Maximum, depending on model
Availability features	Redundant power supplies, battery backup units, Mesh active controllers Persistent Cache, Drive sparing and Multiple OS instances.
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

[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>



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

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

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Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

The Defective Media Retention (DMR) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. Comprehensive Defective Material Retention (CDMR) allows you to keep all data retentive components.

HPE GreenLake

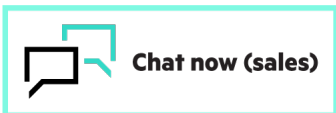
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