



HPE 3PAR StoreServ 20000 Storage

Disk Storage Systems



What's new

- HPE InfoSight eliminates wasted time and headaches by transforming how storage is managed and supported. Through AI, predictive analytics and machine learning.
- Improved performance and density with up to 3.8M IOPs and 288 solid state drives per rack.
- HPE 3PAR Adaptive Data Reduction Software that is inline and selective, includes compression, deduplication, zero detect and data packing and combine to reduce the footprint of data.
- All-inclusive software licensing enhances

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

the resiliency, agility, and efficiency for HPE 3PAR StoreServ 20000 Storage. Benefit from enterprise-class software features at no extra cost.

combined flash and HDD models. HPE 3PAR StoreServ 20000 also includes at no extra charge data protection with HPE Recovery Manager Central.

Features

Scalable to Meet Increasing Data Growth Needs

HPE 3PAR StoreServ 20000 Storage achieves a 16X density advantage and grows capacity up to 9.6 PB raw and over 20 PiB usable for massive consolidation.

Reduces performance bottlenecks with flash-optimized hardware and software with greater than 3.8 million IOPS at sub-millisecond latencies.

Address a broad spectrum of workloads and lower TCO with converged capacity for block volumes and file shares.

Resilient So You Can Consolidate with Confidence

The HPE 3PAR StoreServ 20000 Storage maintains 99.9999% availability with a complete set of persistent technologies within your Hewlett Packard Enterprise 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

| | |
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| 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 | (80) 3PAR 12 Gb/sec SAS SFF Drive Enclosure (80) 3PAR 12 Gb/sec SAS LFF Drive Enclosure |
| Maximum drives per enclosure | 24 |
| Host interface | 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 |
| Warranty - year(s) (parts/labor/onsite) | 3/3/3 |

Additional resources

QuickSpecs

hpe.com/h20195/v2/GetDocument.aspx?docname=c04607917

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.

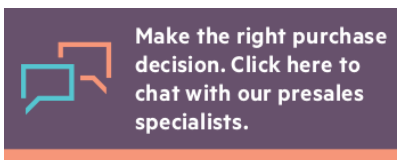
Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

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]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).

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