HPE XP8 Storage

What's new

- 32 Gbps FICON Host Bus Adapters with Encryption Data-in-Flight (EDiF) - Increase data transfer rate by 2x when deploying these new FiCON HBA's. Then protect data in transit with optional EDiF.
- Fast Snap Plus - CopyLess replication with significant performance and space efficient snapshot benefits.

Overview

Do you require 100% uptime on your data center storage infrastructure without compromising performance, scale, or flexibility?

The HPE XP8 Gen2 Storage array is the newest addition to the HPE XP storage family that has achieved 7-years of 100% data availability [1] across the entire installed base. There is no room to improve on 100%, but HPE XP8 is raising the bar by delivering industry leading 8-nines [5] of availability, nearly assuring continued 100% availability well into the future.

Without compromise means that HPE XP8 Gen2 provides unrivaled performance, scale and flexibility. In terms of

performance, HPE XP8 delivers over 33 million IOPs [2], well beyond competitors. HPE XP8 enables scalability up to 69 petabytes of internal capacity, and up to 255 PB of external virtual capacity. Flexibility to configure Hybrid or Flash, SAS or NVMe, HDD, SSD, FMD, or SCM. Newly added HW Compression Accelerator and Front-End FC NVMe adds even more performance, scale, and flexibility.

Features

Proven 100% Data Availability [1], and Backed-up with a 100% Availability Guarantee [2]

Operating a business demands constant uptime, the risk of data loss or downtime must be minimized. HPE XP8 Storage is designed for 8-nines [5] of availability, virtually eliminating downtime risk. All active components are redundant, hot-swappable, and can be upgraded or replaced online.

HPE XP8 Storage with multi array virtualization provides 100% data availability [1] and storage uptime, even in the event of a data center disaster. Avoid both planned and unplanned downtime with disaster resistant HPE XP8 Remote Replication Suite. There's never a need to take HPE XP8 offline.

HPE XP8 Storage enables continuous Disaster Recovery capabilities before, during, and after array migrations with HPE XP8 Online Data Migration.

Move workloads from legacy HPE XP disk arrays to HPE XP8 with no interruption to applications, no server reboots and no suspension of your HPE XP Disaster Recovery solution.

Ultimate Flexibility for a Wide Range of Workloads and Applications

The HPE XP8 modular architecture enables customers to scale from a 2 DKC/2 controller entry configuration up to a massive 6 DKC/12 controller system. Scale up to 69 petabytes (PB) of internal storage capacity, plus up to 255 PB of virtualized external capacity. Scale up as needed, all online!

HPE XP8 supports a wide choice of media to meet customer requirements. NVMe and SAS SSDs, Storage Class Memory (SCM), Flash Module Device (FMD) and HDDs. Deploy the media that provides the best price performance balance for your application workload.

Start with an All-Flash or Hybrid two-controller base DKC, then upgrade to a performance DKC and secondary DKC to scale performance and capacity as needed.

HPE XP8 storage front-end FC NVMe support for more choice in host connectivity. Get faster connectivity between HPE XP8 and hosts, plus more efficient CPU utilization.

Dominant Performance that Meets Even the Most Extreme Workload Requirements

Delivering over 33 million IOPs [3], HPE XP8 Gen2 storage provides plenty of performance to meet extreme workload requirements.

The HPE XP8 HW compression accelerator increases data compression ratios for increased effective capacity. At the same time the HPE XP8 compression accelerator reduces the controller CPU compression workload which leads to increased overall performance. [4]

HPE XP8 Storage Class Memory (SCM) media offers the ultimate in performance and latency. Get up to 36 TB of data storage with sub-100 microsecond latency to

solve performance challenges not addressable with legacy media types.

Built-in Intelligent Storage Management

HPE XP8 is intelligent storage that monitors, detects, and solves problems before they can affect availability and performance. This is achieved with integrated AI capabilities like Performance Advisor VM analytics, Continuous Track data analytics functionality, and future InfoSight support.

All-inclusive software, such as HPE XP8 Intelligent Storage Manager streamlines storage management, enables at-a-glance status of resources, simplifies deployment, management, and maintenance of HPE XP storage.

HPE XP8 Data Protection Manager provides simplified modern data protection and copy management to improve data availability, compliance, and agility. Data Protection Manager uses built-in intelligence to guide users in policy and workflow creation to automate replication and copy data management.

Improved Performance Advisor Software has a simplified GUI, expanded reporting capabilities, and robust VM Analytics.

The HPE XP8 storage has an easy to use task based GUI; Common/Consistent Command Line Interface (CLI); simplified serviceability, and simple provisioning with one-click volume creation, dynamic/automatic provisioning and optimization.

Technical specifications — HPE XP8 Storage

Specification	HPE XP8 Storage
Drive description	SAS SFF SSD and HDD, LFF HDD, SCM (Storage Class Memory), FMD (Flash Module Device) and NVMe SFF
Capacity	69 PB Raw ~60 PB Usable 255 PB External Storage
Host interface	16 Gb FICON SW FC (192 Ports) 16 Gb FICON LW FC (192 Ports) 32 Gb FICON SW FC (192 Ports) EDiF-ready 32 Gb FICON LW FC (192 Ports) EDiF-ready 16/32 Gb FC HBA (192 Ports) 10 G iSCSI (96 Ports)
Cache	6 TB maximum supported cache capacity 32 GiB or 64 GiB memory sizes Encrypted or non-encrypted cache back-up modules
Availability features	All active components are redundant, and hot-swappable. On-line scalable fully redundant hardware platform with unique High Availability SW solutions for complete business continuity and data protection. Supports multiple RAID levels for data protection.
Compatible operating systems	HPE NonStop VMware® HP-UX IBM AIX Linux® Mainframe Microsoft® Windows® Oracle Solaris
Product dimensions (imperial)	HPE XP8 Performance Disk Controller Chassis 19 x 30 x 17.1 in (W/D/H)
Weight	326.5 lb. HPE XP8 Performance Disk Controller Chassis Pair (includes chassis, controllers, PCB, no drives or adapters.
Warranty	Warranty level of hardware reactive support is 3-years, 24×7, with 4-hour onsite response.

[1] Based on HPE Quality Support tracking data.

[2] Based on HPE internal performance testing.

[3] HPE XP8 100% Data Availability Guarantee Program.
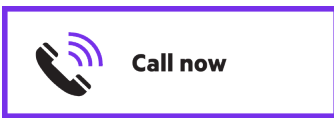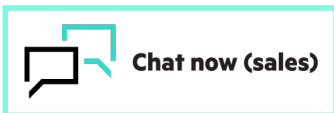
[4] HPE XP8 Compression Guarantee Program.

[5] The HPE XP7 Storage 8-nines reliability is determined by the Symbolic Hierarchical Automated reliability and Performance Evaluator (SHARPE) tool that models and predicts overall system availability using continuous time Markov chain (CTMC) methodology. Availability predictions for HPE XP8 Storage were performed by the HPE Solution Design Services team in October 2019. Contact your local HPE Sales representative for more information.

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.

HPE Education Services

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

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 edge-to-cloud platform is HPE's market-leading 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, 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.

Explore **HPE GreenLake**

**Make the right purchase decision.
Contact our presales specialists.**

Call for availability

Chat now (sales)

Call now

Buy now

Share now

Get updates

**Hewlett Packard
Enterprise**