Overview

Shape the Future of QuickSpecs – Your Input Matters

HPE StoreOnce Systems

Does data growth leave you struggling with complex, distributed, and costly data protection? Do you have data that's not being protected because backup windows aren't long enough, or backup jobs are failing? Do you want to use local and cloud-based storage to take advantage of hybrid data protection? Are you concerned about the threat from ransomware? Tackle the cost, risk and complexity of data protection with HPE StoreOnce; disk-based, deduplicating, cloud integrated, backup systems providing automated backup, data recovery and data retention for hybrid IT.

Cut the cost of data protection with a single, unified deduplication architecture offering best in class price-performance across the range. HPE StoreOnce protects small, remote offices to enterprise data centers with highly scalable dedicated appliances and agile virtual appliances and with your choice of backup and recovery software to deliver robust, flexible enterprise-wide data protection. StoreOnce can reduce the amount of backup data you need to store by 95% or more. With our scalable architecture you can pay-as-you-grow and independently scale local and cloud storage, managed through a single console.

Reduce the risk of backup jobs overrunning with industry-leading backup speeds of up to 105 TB/hr so you can meet the most stringent SLAs. When it comes to backup, data recovery and data retention, HPE StoreOnce includes all the features you'd expect from disk backup including data encryption to secure your data at rest, data in flight and data in the cloud.

Simplify and enable your hybrid infrastructure, with HPE StoreOnce inline deduplication technology. Managing the movement of backup data has never been easier. The backup-optimized HPE StoreOnce Catalyst interface enables deduplication where you choose; at the data source, on the StoreOnce System and in the cloud. Using Cloud Bank Storage to cloud-enable your current backup and business applications, HPE StoreOnce Systems provide flexibility to reduce your cost, risk and complexity.

Capacity and Performance Numbers

A key attribute of HPE StoreOnce systems is the high efficiency deduplication and compression that delivers significant space savings compared to storing recovery points on general purpose storage. HPE StoreOnce deduplication, with fine grained 4 kb chunk sizes, is the most efficient space saving technology available in a backup storage system. In addition to the HPE StoreOnce data reduction deduplication, the space saving achieved is dependent upon many factors including the type of data being protected, nature and frequency of changes to this data, backup software settings, backup schedule, recovery point retention and concurrent tasks contending for resources.
This QuickSpecs contains maximum performance numbers using HPE StoreOnce Catalyst and raw, usable and effective capacity. Raw capacity is the installed capacity of media used to store backup data. This is configured with RAID or other protection against media failure. The usable capacity is the available physical capacity after this protection. The effective capacity is the logical capacity as a result of the StoreOnce data reduction space saving. A ratio of 60:1 is used between the effective capacity and the usable capacity to indicate the space saving that can be achieved. To accurately size the required capacity of the HPE StoreOnce system and the performance required to meet your backup window, the HPE StoreOnce Sizer should be used.

HPE StoreOnce VSA

StoreOnce VSA is a software defined appliance that can be used in with and managed in the same console as the purpose built StoreOnce appliances described in this QuickSpecs. For more information see the **StoreOnce VSA QuickSpecs.**

HPE Alletra Storage MP X10000 with data protection acceleration node(s)

The HPE Alletra Storage MP X10000 can be deployed with up to 4 data protection acceleration nodes, based on HPE StoreOnce technology, to provide the fastest backup and restore performance and effective capacities of up to 480 PB in a single system. For more information see the **HPE Alletra Storage MP X10000 QuickSpecs.**

Overview

What's New

- The first StoreOnce Gen5 systems, with improved capacity density and reduced power consumption
  - HPE StoreOnce 3720 for small and branch environments
  - HPE StoreOnce 3760 for mid-range and small data center environments
- StoreOnce software 5.1.0 for the new Gen5 StoreOnce systems
- Onboard StoreOnce 3720 and StoreOnce 3760 to the HPE GreenLake Platform for management using the Data Ops Manager service
- Extension of protection options in the HPE GreenLake Platform Block Service to enable backup of HPE Alletra Storage MP snapshots to StoreOnce 3720 and StoreOnce 3760
- StoreOnce software 4.3.12 to improve reliability and supportability for the StoreOnce Gen4 Plus and Gen4 systems

Models

Generation	Designed for	Model
HPE StoreOnce Gen5	Small / branch	HPE StoreOnce 3720
	Mid-range	HPE StoreOnce 3760
HPE StoreOnce Gen4 Plus	Small / branch	HPE StoreOnce 3660
	Mid-range	HPE StoreOnce 5260
	Enterprise	HPE StoreOnce 5660

To help with choosing the most appropriate StoreOnce System for your specific environment, we recommend you talk to your Hewlett Packard Enterprise partner or sales advisor.

Standard Features

The following features and benefits apply to all HPE StoreOnce models. Where differences exist between models and generations, they are explained in the description of the benefit.

Scaling Up and Scaling Out Capacity Across the Enterprise

Keeping pace with data growth, HPE StoreOnce systems span from an entry level 18 TB model to an enterprise class model with over 1 PB that can be expanded over 3 PB usable capacity with Cloud Bank Storage.

Choose from dedicated backup appliances to match the capacity and performance requirements of larger offices and data center deployments or virtual appliances utilizing existing infrastructures for virtualized environments and smaller and remote offices.

StoreOnce deduplication can be extended cloud and on-premises object storage to create a hybrid backup infrastructure to increase capacity and reduce the cost of backup data that requires extended retention times.

Lowering the Cost of Data Protection by Reducing Your Backup Data Storage Needs

HPE StoreOnce data reduction reduces the storage capacity required to store backup data sets for substantial savings on storage hardware, power consumption and management costs without impacting backup performance. This storage efficiency allows restore points to be retained for longer for greater backup data accessibility and rapid restore of lost or corrupt data.

HPE StoreOnce deduplication also enables network efficient offsite restore points by reducing the amount of data that needs to be replicated, enabling the use of lower bandwidth, lower cost links to transmit data offsite. This opens the way to cost-effective centralized backup from remote sites or branch offices, and delivers a consolidated disaster recovery solution for the data center.

Meeting Shrinking Backup Windows

Industry leading performance - protect large amounts of data within short backup windows with native high performance or the enhanced speed of HPE StoreOnce Catalyst. Reduce the risk with industry-leading backup speeds of up to 105 TB/hr* you can shrink backup windows and meet the most stringent SLAs.

You can enhance performance by deduplicating anywhere; at the application source or at the backup server or at the target HPE StoreOnce System. Federated Deduplication means you can deduplicate where it makes sense for your business, not where technology vendor limitations mandate. Federated Deduplication is available across all HPE StoreOnce systems, in conjunction with all applications that support StoreOnce Catalyst.

Reducing the Time to Restore Data

High speed backup is important, but when system failure strikes being able to restore your data in the shortest time possible is critical to minimizing downtime. That's why HPE StoreOnce offers industry-leading restore speeds.

Freeing up Your IT Resources

Reduce the time spent managing multiple data protection devices and processes and free-up IT resources by consolidating and automating your backup data onto HPE StoreOnce systems. For organizations that have branch and small offices, HPE StoreOnce helps you protect the data at remote sites. You can eliminate the need for dedicated hardware if you use StoreOnce VSA at these sites.

Standard Features

Lowering the Cost of Long-Term Backup Data Retention

Cloud Bank Storage extends the usable capacity of StoreOnce by combining low object storage costs with StoreOnce deduplication in a hybrid cloud solution. This massively reduces the storage costs of long-term backup data retention and enables off site data protection without investing in offsite facilities. This is delivered by an extension to StoreOnce Catalyst that leverages public cloud and/or private object storage. This external object storage is used to provide capacity to the Catalyst Cloud Bank Store. This integrates seamlessly into existing workflows. Backup data is written to a Catalyst Store and then, within the policy of the writing application, all or some of this backup data is copied to the Catalyst Cloud Bank Store for long term retention.

Reducing the Risk to Data at Rest and Data in Flight

HPE StoreOnce security provides data at rest and data in flight encryption which prevents unauthorized access to data on disk that has been lost, stolen, or discarded, as well as data being transmitted between devices. It also offers secure erase functionality to prevent expired backups being accessed. These functions can be configured on an application or store basis and are not restricted to the whole appliance.

Data in flight encryption is supported to secure links between devices for StoreOnce replication, Catalyst Copy and Catalyst backup operations. It is not recommended to use IPsec if performing regular restores (including Veeam Backup Copy Jobs) or tape offloads. It is possible write performance may be impacted when using IPsec, however performance improvements should be seen after the first backup.

Data in Flight encryption via IPSec is supported on StoreOnce Catalyst only. Using data in flight encryption for VTL direct backup operations to the StoreOnce System over a local network is not supported due to the performance impact.

HPE StoreOnce Catalyst

HPE StoreOnce Catalyst is a data protection optimized interface unique to HPE StoreOnce Systems. It provides higher performance and more flexible control than traditional emulated tape (VTL) targets or NAS Shares. This means that you can benefit from:

- Simplified management of data movement from a single pane of glass: tighter integration with your backup application to centrally manage file replication across the enterprise.
- Inline deduplication and compression
- Seamless control across complex environments: supporting a range of flexible configurations that enable the concurrent movement of data from one site to multiple sites, and the ability to cascade data around the enterprise (sometimes referred to as multi-hop).
- Enhance performance: distributed deduplication processing using StoreOnce Catalyst stores on the StoreOnce systems and on multiple servers can optimize loading and utilization of backup hardware, network links and backup servers for faster deduplication and backup performance.
- Scale out with external object storage to augment the local System storage with the Cloud Bank extension to Catalyst.
- Faster time to backup to meet shrinking backup windows: up to 105 TB/hour throughput.
- StoreOnce Catalyst prevents exposure of backup copies to ransomware.

Catalyst over Fibre Channel (CoFC) provides the same benefits as Catalyst over Ethernet (CoE) via a Fibre Channel fabric. Catalyst copy over Fibre Channel (CCoFC) utilizes Fibre Channel to transmit copies between StoreOnce Systems. CoFC and CCoFC are useful for customers that have invested in Fibre Channel infrastructure and/or do not want to expand their Ethernet capacity.

Standard Features

Seamlessly Integrating Into Your Environment

HPE invests in extensive interoperability testing to ensure HPE StoreOnce systems work with leading data protection software, operating systems and business application. In collaboration with our data protection software partners many updates have been made to the StoreOnce software and data protection software to deliver a reliable and high-performance protection solution.

The highest performance and most flexible protection is enabled by using the StoreOnce Catalyst technology. This can be used in Fibre Channel and Ethernet (iSCSI) environments. Using a backup application that integrates StoreOnce Catalyst the movement of backup data between sites is easily configured. StoreOnce Catalyst supports a range of flexible configurations that enable the concurrent movement of backup data from one site to multiple sites, and the ability to cascade data around the enterprise (fan-in, fan-out, multi-hop).

For backup software that does not have a StoreOnce Catalyst integration, virtual tape libraries (VTL) can be used as the backup target. NAS (NFS, CIFS) backup targets can be configured on the Gen4 Plus StoreOnce systems.

All StoreOnce systems are easily rack-mounted in standard racks.

For the current listing of interoperability with backup software, operating systems, applications and networking components refer to the HPE Storeonce support matrix at **http://www.hpe.com/Storage/StoreOnceSupportMatrix**

Delivering Reliable Backup and Restore

In any storage system it is essential to ensure that the integrity of the data stored is maintained so data can be recovered exactly as it was written. There's nothing worse than discovering corrupted backups when you need to restore your data, consequently StoreOnce Systems include HPE StoreOnce Integrity Plus - industry leading patented technology to deliver data integrity throughout the lifecycle. With Integrity Plus you get inbuilt protection which not only checks data at many stages both in the backup process and when recovered, but also continually checks the data when at rest, correcting errors if necessary.

Additionally, HPE StoreOnce systems feature hardware RAID 6 to reduce the risk of data loss due to disk failure.

Integrating Protection for Your HPE Alletra Storage MP B10000

The HPE StoreOnce 3720 and HPE StoreOnce 3760 can be onboarded to the HPE GreenLake Platform to allow visibility and management using the Data Ops Manager service. Once onboarded, theses StoreOnce systems can used as backup targets for HPE Alletra Storage MP B10000 snapshots. This protection is one of the protection options in the HPE GreenLake Platform Block Service. The pre-configured protection policies can be selected to protect a volume or volume set with backup to StoreOnce 3720 or StoreOnce 3760 or a custom protection policy with backup to StoreOnce can be created. This integrated protection delivers high performance snapshot-based protection to generate crash-consistent restore points, on StoreOnce systems, that can be used to extend or replace the protection provided using backup software.

Eliminating Complexity with Effortless Management

HPE StoreOnce systems have a simple to use web-hosted graphical interface. For automated operation a CLI and REST interface are also available.

For organizations with multiple data centers and or many branch locations StoreOnce Federated Management enables centralized control and visibility of all your StoreOnce systems. Federated Management allows you to manage multiple StoreOnce systems from a single interface for efficient and consistent management of multiple StoreOnce systems.

Standard Features

HPE StoreOnce REST API

The StoreOnce REST API provides a well-defined RESTful application programming interface (API) that customers can use for integrating and automating reporting/management capabilities with StoreOnce appliances. The API essentially delivers a programming interface for polling StoreOnce systems with reporting queries at a desired granularity, and the information extracted from the appliances can then be integrated with the customer's own reporting tool allowing for considerable flexibility in monitoring large StoreOnce environments. The API also allow customers to automate select management tasks such as creating and deleting backup targets (StoreOnce Catalyst stores, VTL libraries, NAS shares) and this capability can be integrated with the customer's own management tools.

The StoreOnce API can be downloaded from **https://hewlettpackard.github.io/storeonce-rest/index.html** Software

Summary Specifications by Model

HPE StoreOnce 3720 System[1]	
Form factor	2U
Local raw[2] capacity	44 TB to 96 TB
Local usable capacity[3]	18 TB to 72 TB
Maximum local effective[4] capacity	4320 TB
Cloud Bank Storage usable[5] capacity	1 to 144 TB
Maximum effective[4] Cloud Bank Storage capacity	8,640 TB
Maximum effective[4] total system usable capacity	12,960 TB
Maximum Catalyst write performance	15 TB/hour
Maximum VTL write performance	6 TB/hour
Maximum fan-in/backup targets	24

HPE StoreOnce 3760 System[1]	
Form factor	2U
Local raw[2] capacity	144 TB to 288 TB
Local usable capacity[3]	108 TB to 216 TB
Maximum local effective[4] capacity	12,960 TB
Cloud Bank Storage usable[5] capacity	1 to 432 TB
Maximum effective[4] Cloud Bank Storage capacity	25,920 TB
Maximum effective[4] total system usable capacity	38,880 TB
Maximum Catalyst write performance	25 TB/hour
Maximum VTL write performance	10 TB/hour
Maximum fan-in/backup targets	36

HPE StoreOnce 3660 System[1]	
Form factor	2U
Local raw[2] capacity	80 TB to 272 TB
Local usable capacity[3]	56 TB to 200 TB
Maximum local effective[4] capacity	12,000 TB
Cloud Bank Storage usable[5] capacity	1 to 400 TB
Maximum effective[4] Cloud Bank Storage capacity	24,000 TB
Maximum effective[4] total system usable capacity	36,000 TB
Maximum Catalyst write performance	25 TB/hour
Maximum NAS and VTL write performance	10 TB/hour
Maximum fan-in/backup targets	24

Standard Features

HPE StoreOnce 5260 System[1]	
Form factor	4U to 10U
Local raw[2] capacity	192 TB to 768 TB
Local usable capacity[3]	144 TB to 576 TB
Maximum local effective[4] capacity	34,560 TB
Cloud Bank Storage usable[5] capacity	1 to 1,152 TB
Maximum effective[4] Cloud Bank Storage capacity	69,120 TB
Maximum effective[4] total system usable capacity	103,680 TB
Maximum Catalyst write performance	60 TB/hour
Maximum NAS and VTL write performance	24 TB/hour
Maximum fan-in/backup targets	32

HPE StoreOnce 5660 System[1]	
Form factor	4U – 18U
Local raw[2] capacity	192 TB to 1,536 TB
Local usable capacity[3]	144 TB to 1,152 TB
Maximum local effective[4] capacity	69,120 TB
Cloud Bank Storage usable[5] capacity	1 to 2,304 TB
Maximum effective[4] Cloud Bank Storage capacity	138,240 TB
Maximum effective[4] total system usable capacity	207,360 TB
Maximum Catalyst write performance	105 TB/hour
Maximum NAS and VTL write performance	42 TB/hour
Maximum fan-in/backup targets	50

Notes:

- [1]See Detailed Technical Specifications and Physical Dimensions later in this document for more details.
- [2]This is the total installed physical media capacity for backup data before RAID or other protection.
- [3]This is the available physical media capacity for backup data after RAID or other protection.
- [4]This is the effective capacity for backup data based on 60:1 space savings from StoreOnce data reduction.
- [5]The maximum Cloud Bank usable capacity is double the maximum local usable capacity.

Optional Features

Cloud Bank Storage

Cloud Bank Storage is an extension to StoreOnce Catalyst that combines the low cost of object storage with the storage efficiency of StoreOnce deduplication. It connects to external object storage to provide capacity for the Catalyst Cloud Bank store. Using external storage in addition to the local System storage can triple the effective capacity of the StoreOnce System. Through cloud optimized data transfer and storage, Cloud Bank Storage minimizes cloud transfer and storage costs. The primary use case is to backup to a Catalyst Store and copy the backup data to a Cloud Bank store for low-cost long-term retention.

Many public cloud providers and on premise object storage systems are supported with Cloud Bank Storage.
See the **HPE StoreOnce Support Matrix** for details.

Cloud Bank Storage is a licensed feature. The licenses are available in 1 TB increments. Licenses are added in any multiple of 1 TB up to the maximum Cloud Bank Storage capacity for that System. See the table below for the maximum supported Cloud Bank Storage capacities for each model. The licensed capacity is the capacity written to the all the Cloud Bank Storage after deduplication and compression.

Cloud Bank Storage Capacities

Cloud Bank Storage can treble the usable capacity of StoreOnce systems. The Cloud Bank Storage Detach option can further extend this, practically without limits, by enabling capacity to be recycled. See the table in the Configuration Options section for details of maximum Cloud Bank capacities and licenses.

Cloud Bank Storage Detach Option

Many object storage vendors offer 'cold' tiers that provide reduced cost. The performance of 'cold' tiers is not sufficient for Cloud Bank Storage operation. For Cloud Bank Storage Stores with backup data that will not need to be changed or updated the Store can be detached to enable it to be moved to a cold 'tier'.

The Cloud Bank Storage Detach option disconnects a Store from the host System and puts it into a read only state. It can then be moved, independently of StoreOnce or the backup application, to a 'cold' tier or other location for long-term, low-cost retention. If the detached Store needs to be read for a restore, or other requirement, it has to be moved back to a supported storage tier and reconnected to a StoreOnce System. This can be the original StoreOnce System or to another StoreOnce.

Cloud Bank Storage Detach is a licensed feature. Licenses are available in 1 TB increments. Licenses are added to a System with one or more Cloud Bank Storage licenses, in any multiple of 1 TB, with no upper limit. When a Store is detached, licenses equal to the capacity of the detached store are consumed and remain with detached Store. On detach the capacity of the detached store is available for other Cloud Bank stores.

Maximum Values for Cloud Bank Storage Licenses

Up to a total of 50 Cloud Bank Storage and Cloud Bank Storage Detach license keys can be added to a System. The capacity enabled by a license key is specified using the **https://myenterpriselicense.hpe.com/cwp-ui/auth/login**.

The capacity is specified in 1 TB multiples. For the larger Systems, it is recommended to generate license keys with larger multiples of 1 TB to avoid this 50-license key limit becoming a constraint.

Cloud Bank Storage Support Entitlement

Support for Cloud Bank Storage is entitled as part of the HPE Support entitlement for the StoreOnce System the Cloud Bank Storage licenses are installed on. No additional HPE Support Services are available or required.

Optional Features

HPE StoreOnce Security/Encryption

HPE StoreOnce security provides a Data at Rest and Data in Flight encryption solution, secure Data Shredding features and Data Immutability for data privacy, confidentiality, and integrity of your critical business data while supporting compliance requirements. These are configurable on a by application or by store basis ensuring that you have maximum control over the data you are protecting.

- HPE StoreOnce systems use cryptographic algorithms and modules that have completed a FIPS 140-2 CAVP/CMVP (Cryptographic Algorithm Validation Program/Cryptographic Module Validation Program) validation. These validated modules are active when the product is configured in FIPS mode thus HPE StoreOnce meets your FIPS 140-2 requirements by:
- Integrating NIST validated cryptographic module(s) into the product to ensure that critical cryptography uses the module(s) to provide cryptographic services;
- Using FIPS-validated cryptographic ciphers/functions
- HPE StoreOnce Data at Rest encryption feature is a software-based solution which provides protection against unauthorized access to data through a stolen, discarded or replaced disk.
- Encryption occurs after data has been deduplicated and prior to writing the data onto disk
- Encryption is enabled on a per store basis (StoreOnce Catalyst, VTL, and NAS targets)
- Meets compliance needs using industry standard Advanced Encryption Standard (AES)-256 encryption algorithm
- It enables the StoreOnce System to request encryption keys from MicroFocus ESKM version 4.0 or greater or Gemalto SafeNet's KeySecure key manager using KMIP protocol for centralized encryption key management.
- Local Key Management is included with the ability to backup and restore keys
- HPE StoreOnce Data in Flight encryption feature protects against unauthorized access of data being transferred over the wire
- Between devices.
- Data in Flight encryption via IPsec is supported on Low Bandwidth StoreOnce Catalyst Backup, Catalyst Copy and Replication. Encryption is enabled via IPsec. In addition, write performance may be impacted, however performance improvements should be seen after first ingest.
- It is not recommended to use IPsec if performing regular restores (including Veeam BCJ) or tape offloads.
- HPE StoreOnce Secure Erase feature protects against unauthorized recovery of deleted data by allowing customers to securely and permanently shred confidential data.
- Secure Erase can be carried out on all data backed up to a VTL, NAS or StoreOnce Catalyst Store
- The HPE StoreOnce Secure Erase feature meets industry standards of NIST SP 800-88
- Secure Erase can erase with 1-pass or multiple random overwrites of 3, 5 or 7 passes

Service and Support

Warranty
Hewlett Packard Enterprise provides a 3-year parts exchange, 3-year labor, 3-year on site, normal business hours, next business day response for StoreOnce 3720, 3760, 3660, 5260 and 5660 systems.

Parts and Materials
HPE will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

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 QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

Discover, Plan and Design
Choose from a rich portfolio of services to make the most of HPE StoreOnce systems, so you can efficiently and affordably protect your organisation's applications and data.

Start here to understand your data protection options. Next, develop a methodical plan and design the optimal HPE StoreOnce solution that addresses your unique protection requirements.

For more information on HPE Data Services visit **http://www.hpe.com/services/storage** or contact your HPE sales representative or HPE Authorized Channel Partner

HPE Backup Recovery Impact Analysis - Focus placed on service requirements and design as the key to success for gaining a clear understanding of the role of increasingly diverse data protection strategies.

Deploy and Integrate
Implement HPE StoreOnce systems correctly-right from the start-so you can count on reduced risk and accelerated deployment, while implementing a best-practice configuration from day one. Then move on to proactively leverage products, tools, and technology to avoid problems and optimize performance. In this way, you get the most out of your HPE StoreOnce investment, as you keep your staff certified through project-based or residency services.

HPE StoreOnce System Health Check Service
Proactive review of your HPE StoreOnce solution, or other HPE deduplication systems, including a review of operational, capacity, and performance data so you can rest assured that everything is operating effectively.

Proactive review of your HPE StoreOnce Storage solution or other HPE deduplication systems, including a review of operational, capacity, and performance data so you can rest assured that everything is operating effectively.

For more information see: **https://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA4-3821ENW.pdf**

HPE StoreOnce Firmware Analysis and Implementation Service
HPE Firmware Analysis and Update Implementation Services are technical services that provides the analysis and implementation of firmware updates, taking into account the relevant revision dependencies within the IT environment.

Provides the analysis and implementation of firmware updates, taking into account the relevant revision dependencies within the IT environment.

For more information see: **http://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA4-7728ENW.pdf**

Service and Support

HPE Storage Data Migration Services

This is an end-to-end data migration service providing seamless discovery, assessment, planning, and design, completely customizable to your organization's storage area network or network attached storage environment and using innovative software to help you migrate to HPE storage quickly and efficiently.

HPE Services

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

For more information visit: **https://www.hpe.com/services**

HPE Advisory and Professional Services

No matter where you are in your journey to hybrid cloud, experts can help you map out your next steps. From determining what workloads should live where, to handling governance and compliance, to managing costs, our experts can help you optimize your operations.

For more information visit: **https://www.hpe.com/services/consulting**

HPE Managed Services

HPE can run your IT operations, providing services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

For more information visit: **https://www.hpe.com/us/en/services/remote-infrastructure-monitoring.html**

HPE Operational Support Services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources. Meet service-level targets and business objectives with features designed to drive better business outcomes.

For more information visit: **https://www.hpe.com/services/operational**

HPE Complete Care Service

HPE Complete Care Service is a modular, edge-to-cloud IT environment service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals through a personalized experience. All delivered by an assigned team of HPE Services experts. HPE Complete Care Service provides:

- A complete coverage approach - edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced incident management experience with priority access
- Digitally enabled and AI driven customer experience

For more information visit: **https://www.hpe.com/services/completecare**

Service and Support

HPE Tech Care Service

HPE Tech Care Service is the operational support service experience for HPE products. The service goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Tech Care Service delivers a customer-centric, AI driven, and digitally enabled customer experience to move your business forward.

HPE Tech Care Service is available in three response levels.

- Basic - 9x5 business hour availability and a 2-hour response time
- Essential - 15-minute response time 24x7 availability for most enterprise level customers
- Critical - extends Essential support with a 6-hour repair commitment, where available, and outage management response for severity 1 incidents.

Essential and Critical Tech Care are available for HPE StoreOnce 3720 and HPE StoreOnce 3760. Basic, Essential and Critical Tech Care are available for HPE StoreOnce 3660, StoreOnce 5260 and HPE StoreOnce 5660

For more information visit: **https://www.hpe.com/services/techcare**

Defective Media Retention

An option available with HPE Complete Care Service and HPE Tech Care Service and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and services options.

HPE Lifecycle Services

HPE Lifecycle Services provide a variety of options to help maintain your HPE systems and solutions at all stages of the product lifecycle. A few popular examples include:

- Lifecycle Install and Startup Services: Various levels for physical installation and power on, remote access setup, installation and startup, and enhanced installation services with the operating system.
- HPE Firmware Update Analysis Service: Recommendations for firmware revision levels for selected HPE products, taking into account the relevant revision dependencies within your IT environment.
- HPE Firmware Update Implementation Service: Implementation of firmware updates for selected HPE server, storage, and solution products, taking into account the relevant revision dependencies within your IT environment.
- Implementation assistance services: Highly trained technical service specialists to assist you with a variety of activities, ranging from design, implementation, and platform deployment to consolidation, migration, project management, and onsite technical forums.
- HPE Service Credits: Access to prepaid services for flexibility to choose from a variety of specialized service activities, including assessments, performance maintenance reviews, firmware management, professional services, and operational best practices.

For more information visit: **https://www.hpe.com/services/lifecycle**

For a list of the most frequently purchased services using service credits, see the **HPE Service Credits Menu**

Service and Support

Related Services from HPE Services

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Broad catalogue of course offerings to expand skills and proficiencies in topics ranging from cloud and cybersecurity to AI and DevOps. 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.

For more information visit: **https://www.hpe.com/services/training**

How to Purchase Services

Services are sold by Hewlett Packard Enterprise and Hewlett Packard Enterprise Authorized Service Partners:

- Services for customers purchasing from HPE or an enterprise reseller are quoted using HPE order configuration tools.
- Customers purchasing from a commercial reseller can find services at **https://ssc.hpe.com/portal/site/ssc/**

AI Powered and Digitally Enabled Support Experience

Achieve faster time to resolution with access to product-specific resources and expertise through a digital and data driven customer experience

Sign into the HPE Support Center experience, featuring streamlined self-serve case creation and management capabilities with inline knowledge recommendations. You will also find personalized task alerts and powerful troubleshooting support through an intelligent virtual agent with seamless transition when needed to a live support agent.

Sign in here: **https://support.hpe.com/hpesc/public/home/signin**

Consume IT On Your Terms

HPE GreenLake edge-to-cloud platform brings the cloud experience directly to your apps and data wherever they are - the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake edge-to-cloud platform accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

To learn more about HPE Services, please contact your HPE sales representative or HPE Authorized Channel Partner. Contact information for a representative in your area can be found at "Contact HPE" **https://www.hpe.com/us/en/contact-hpe.html**

For more information visit: **http://www.hpe.com/services**

Configuration Information

Purchasing information

HPE StoreOnce 3720 System

Description	SKU
HPE StoreOnce 3720 24TB Base System	S4P72A

Includes

- HPE StoreOnce 3720 System (2U) with 12 x 4 TB disks
- Easy install rail kit
- Accessory kit with:
  - Read This First card
  - QR code label
  - 2 x Ethernet cables (Cat 5e) 3m
  - 2 x power cords

Enables 18 TB usable capacity

Description	LTU for configuration with a new base system[1]	E-LTU for configuration with an existing base system[1]
HPE StoreOnce 3720 24TB Capacity Upgrade License	S4P19A	S4P05AAE

Licenses to enable usable capacity to be increased from 18 TB to 36 TB. The same licenses enable usable capacity to be expanded from 54 TB to 72 TB after the HPE StoreOnce 3720 24TB Capacity Expansion Kit (S4P74A) has been added.

Description	SKU
HPE StoreOnce 3720 24TB Disk Capacity Upgrade Kit	S4P74A

Includes

- 12 x 4 TB disks
- License entitlement (S4P20A) to enable 18 TB usable capacity
  - Read This First card
  - QR code label

Enables an additional 18 TB usable capacity

Notes:

- Can be connected via 1 GbE as standard and 10/ 25 GbE and 16/32 Gb Fibre Channel when the appropriate optional adapter(s) installed. Up to 3 in any combination can be used.
- Supported on 1 Gb and 10 Gb Base-T Ethernet networks, for connection for the Web GUI and CLI access, such as a management network in a data centre.
- This product is not supported on networks using slower Ethernet technology.

Scalability

The base system (S4P72A) is enabled with 18 TB usable capacity. This is non-disruptively expanded to 36 TB with a capacity expansion license (S4P05AAE). To further increase capacity, a capacity expansion kit (S4P74A/ S4P05AAE[1]) is added to the base system to increase usable capacity to 54 TB. This is non-disruptively expanded to 72 TB with a second capacity expansion license (S4P05AAE/ S4P05AAE[1]). Cloud Bank Storage can add up to 144 TB to extend the maximum usable capacity to 216 TB.

Configuration Information

	Base system	Base system + 1 expansion	Base system + 2 expansions	Base system + 3 expansions
Raw capacity	48 TB	48 TB	96 TB	96 TB
Usable capacity	18 TB	36 TB	54 TB	72 TB
SKUs required	S4P72A	S4P72A S4P19A/S4P05AAE[1]	S4P72A S4P19A/S4P05AAE[1]	S4P72A 2 x S4P19A/S4P05AAE[1] S4P74A
Max Cloud Bank usable capacity	144 TB	144 TB	144 TB	144 TB
Max total usable capacity	162 TB	180 TB	198 TB	216

Notes: [1]The capacity expansions from 18 TB to 36 TB and from 54 TB to 72 TB are enabled by licenses. If the capacity expansion is part of a new configuration the required license is S4P19A. To expand an existing configuration the required license is S4P05AAE. For a new configuration of 36 TB, one S4P19A license is required to enable 36 TB usable capacity. For a new configuration of 72 TB, two S4P19A licenses are required to enable 72 TB usable capacity. If an existing base system with 18 TB is being expanded to 36 TB, a S4P05AAE license is required. If an existing configuration with 54 TB is being expanded to 72 TB a S4P05AAE license is required.

HPE StoreOnce 3760 System

Description **SKU**

HPE StoreOnce 3760 144TB Base System S4P73A

Includes

- HPE StoreOnce 3760 System (2U) with 12 x 12 TB disks
- Easy install rail kit
- Accessory kit with:
  - Read This First card
  - QR code label
  - 2 x Ethernet cables (Cat 5e) 3m
  - 2 x power cords

Enables 108 TB usable capacity

Description **SKU**

HPE StoreOnce 3760 144TB Disk Capacity Upgrade Kit S4P75A

Includes

- 12 x 12 TB disks
- License entitlement (S4P21A) for 144 TB (raw) added capacity
  - Read This First card
  - QR code label

Enables usable capacity to be increased from 108 TB to 216 TB.

Notes:

- Can be connected via 1 GbE as standard and 10/ 25 GbE and 16/32 Gb Fibre Channel when the appropriate optional adapter(s) installed. Up to 4 network adaptors, in any combination, can be used.
- Supported on 1 Gb and 10 Gb Base-T Ethernet networks, for connection for the Web GUI and CLI access, such as a management network in a data centre.
- This product is not supported on networks using slower Ethernet technology.

Configuration Information

Scalability

The base system (S4P73A) has 108 TB usable capacity. To increase capacity, a capacity expansion kit (S4P75A) is added to the base system to increase usable capacity to 216 TB. Cloud Bank Storage can add 432 TB to extend the maximum usable capacity to 648 TB.

	Base System	Base system + 1 expansion
Raw capacity	144 TB	288 TB
Usable capacity	108 TB	216 TB
SKUs required	S4P73A	S4P73A S4P75A
Max Cloud Bank usable capacity	432 TB	432 TB
Max total usable capacity	540 TB	648 TB

HPE StoreOnce 3660 System

Description **SKU**

HPE StoreOnce 3660 80TB Base System R6U02A

Includes

- HPE StoreOnce 3660 System (2U) with 10 x 8 TB disks
- Easy install rail kit
- EAC card
- Accessory kit with:
  - Start Here poster
  - 2 x Ethernet cables (Cat 5e) 3m
  - 2 x power cords

Description **SKU**

HPE StoreOnce 3660 96TB Upgrade Kit R7M22A

Includes

- Primera 600 LFF storage enclosure (2U) with 12 x 8 TB disks, redundant power supplies and fan modules, 1 x integrated 12Gb SAS IO Module
- Rail Kit
- SAS cabling included
- Accessory kit with:
  - 2 x Power cords
  - License entitlement certificate
  - Start Here guide

Notes:

- Can be connected via 1 GbE as standard and 10/ 25 GbE and 16/32 Gb Fibre Channel when the appropriate optional adapter(s) installed. Up to 4 network adaptors, in any combination, can be used.
- Supported on 1 Gb and 10 Gb Base-T Ethernet networks, for connection for the Web GUI and CLI access, such as a management network in a data centre.
- This product is not supported on networks using slower Ethernet technology.

Configuration Information

Scalability

Start with the 80 TB base system. When you're ready, purchase up to 2 additional capacity upgrade kits to increase local capacity to a total of 200 TB usable. Cloud Bank Storage can extend the maximum Catalyst capacity to 600 TB.

	Base System	Base system + 1 expansion	Base system + 2 expansions
Raw capacity	80 TB	176 TB	272 TB
Usable capacity	56 TB	128 TB	200 TB
SKUs required	R6U02A	R6U02A R7M22A	R6U02A 2 x R7M22A
Max Cloud Bank usable capacity	400 TB	400 TB	400 TB
Max total usable capacity	456 TB	528 TB	600 TB

HPE StoreOnce 5260 System

Description	SKU
HPE StoreOnce 5260 Base System	R6U03A

Includes

- HPE StoreOnce 5260 System (2U) with 2 x 1.9TB SSDs for OS and 8 x 3.2 TB SSD disks for Data Cache
- Easy install rail kit
- EAC Card
- Accessory kit with:
  - Start Here poster
  - 2 x Ethernet cables (Cat5e) 3m
  - 2 x Power cords (with C14 inlet power connector rack PDU)

Description	SKU
HPE StoreOnce 5260/5660 192TB Upgrade Kit	R7M23A

Includes

- Primera 600 LFF storage enclosure (2U) with 12 x 16 TB disks, redundant power supplies and one dual integrated SAS I/O module and fan modules.
- Rail Kit
- SAS cabling included
- Accessory Kit featuring:
  - 2 x Power cords
  - License entitlement certificate
  - Start Here guide

Notes:

- Can be connected via 1 GbE as standard and 10/ 25 GbE and 16/32 Gb Fibre Channel when the appropriate optional adapter(s) installed. Up to 4 in any combination can be used.
- Supported on 1 Gb and 10 Gb Base-T Ethernet networks, for connection for the Web GUI and CLI access, such as a management network in a data centre.
- This product is not supported on networks using slower Ethernet technology.

Configuration Information

Scalability

Start with the HPE StoreOnce 5260 base system and one capacity upgrade kit with 144 TB usable capacity. When you're ready, purchase up to 3 additional capacity upgrade kits to increase local capacity to of 576 TB usable. Cloud Bank Storage can extend the maximum Catalyst capacity to 1.7 PB.

	Base system + 1 expansion	**Base system + 2 expansions**	**Base system + 3 expansions**	**Base system + 4 expansions**
Raw capacity	192 TB	384 TB	576 TB	768 TB
Usable capacity	144 TB	288 TB	432 TB	576 TB
SKUs required	R6U03A R7M23A	R6U03A 2 x R7M23A	R6U03A 3 x R7M23A	R6U03A 4 x R7M23A
Max Cloud Bank usable capacity	1,152 TB	1,152 TB	1,152 TB	1,152 TB
Max total usable capacity	1,296 TB	1,440 TB	1,584 TB	1,728 TB

HPE StoreOnce 5660 System

Description **SKU**

HPE StoreOnce 5660 Base System R6U04A

Includes

- HPE StoreOnce 5660 System with 2 x 1.9TB SSDs for OS and 8 x 6.4 TB SSD disks for Data Cache
- Easy Install Rail Kit
- EAC Card
- Accessory kit with:
  - Start Here poster
  - 2 x Ethernet cables (Cat 5e) 3m
  - 2 x Power cords (with C14 inlet power connector for Rack PDU)

Description **SKU**

HPE StoreOnce 5260/5660 192TB Upgrade Kit R7M23A

Includes

- Primera 600 LFF storage enclosure (2U) with 12 x 16 TB data disks, 192 TB (RAW), redundant power supplies and one dual integrated SAS I/O module and fan modules.
- Rail Kit
- SAS cabling included
- Accessory kit with:
  - 2 x power cords
  - License entitlement certificate
  - Start Here guide

Notes:

- Can be connected via 1 GbE as standard and 10/ 25 GbE and 16/32 Gb Fibre Channel when the appropriate optional adapter(s) installed. Up to 4 in any combination can be used.
- Supported on 1 Gb and 10 Gb Base-T Ethernet networks, for connection for the Web GUI and CLI access, such as a management network in a data centre.
- This product is not supported on networks using slower Ethernet technology.

Configuration Information

Scalability

Start with the HPE StoreOnce 5660 base system and one capacity upgrade kit with 144 TB usable capacity. When you're ready, purchase up to 7 additional capacity upgrade kits to increase local capacity to 1.1 PB usable. Cloud Bank Storage can extend the maximum Catalyst capacity to 3.4 PB.

	Base system + 1 expansion	Base system + 2 expansions	Base system + 3 expansions	Base system + 4 expansions
Raw capacity	192 TB	384 TB	576 TB	768 TB
Usable capacity	144 TB	288 TB	432 TB	576 TB
SKUs required	R6U04A R7M23A	R6U04A 2 x R7M23A	R6U04A 3 x R7M23A	R6U04A 4 x R7M23A
Max Cloud Bank usable capacity	2,304 TB	2,304 TB	2,304 TB	2,304 TB
Max total usable capacity	2,448 TB	2,592 TB	2,736 TB	2,880 TB

	Base system + 5 expansions	Base system + 6 expansions	Base system + 7 expansions	Base system + 8 expansions
Raw capacity	960 TB	1,156 TB	1,348 TB	1,540 TB
Usable capacity	720 TB	864 TB	1,008 TB	1,152 TB
SKUs required	R6U04A 5 x R7M23A	R6U04A 6 x R7M23A	R6U04A 7 x R7M23A	R6U04A 8 x R7M23A
Max Cloud Bank usable capacity	2,304 TB	2,304 TB	2,304 TB	2,304 TB
Max total usable capacity	3,024 TB	3,168 TB	3,312 TB	3,456 TB

HPE StoreOnce Catalyst Cloud Bank Storage Ordering Information

Cloud Bank Storage is licensed based on usable capacity.

Licenses

Description	SKU for LTU	SKU for E-LTU
HPE StoreOnce Cloud Bank Storage Read/Write for Gen5 Systems 1 TB	S4P26A	S4Q10AAE
HPE StoreOnce Cloud Bank Storage Read/Write for Gen5 Systems 10 TB	SP429A	SP34AAE
HPE StoreOnce Cloud Bank Storage Read/Write for Gen5 Systems 100 TB	S4P30A	S4Q46AAE
HPE StoreOnce Cloud Bank Storage Detach for Gen5 Systems 1 TB	S4Q27A	S4Q11AAE
HPE StoreOnce Cloud Bank Storage Detach for Gen5 Systems 10 TB	S4Q49A	S4Q47AAE
HPE StoreOnce Cloud Bank Storage Detach for Gen5 Systems 100 TB	S4Q50A	S4Q48AAE
HPE StoreOnce Cloud Bank Storage Read/Write for Gen4 Systems 1 TB	BC012A	BC012AAE
HPE StoreOnce Cloud Bank Storage Detach for Gen4 Systems 1 TB	BC013A	BC013AAE

Notes:

- For StoreOnce 3720, StoreOnce 3760: Cloud Bank Storage Gen5 licenses are added in added using any combination of 1 TB, 10 TB and 100 TB licenses up to the maximum for that system shown in the table below.
- For StoreOnce 3660, StoreOnce 5260, StoreOnce 5660: Cloud Bank Storage Gen4 licenses are added using 1 TB licenses in any multiple of 1 TB, up to the maximum for that system shown in the table below.

Configuration Information

Model	Local usable capacity	Cloud Bank usable capacity	Max Cloud Bank licenses	Max total usable capacity
StoreOnce 3720	18 TB – 72 TB	1 TB to 144 TB	144	216 TB
StoreOnce 3760	108 TB – 216 TB	1 TB to 432 TB	432	648 TB
StoreOnce 3660	56 TB – 200 TB	1 TB to 400 TB	400	600 TB
StoreOnce 5260	144 TB – 576 TB	1 TB to 1,152 TB	1,152	1,728 TB
StoreOnce 5660	144 TB – 1,152 TB	1 TB to 2,304 TB	2,304	3,456 TB

Notes: Cloud Bank Storage is supported for use as a Catalyst Copy target. The performance of the underlying object storage means it is not supported to use Cloud Bank Storage as a backup target.

HPE StoreOnce Encryption Ordering Information

Backup data encryption is enabled by a nominally priced license. The license is required to meet regulations on the distribution of advanced encryption technology. One license is required for each HPE StoreOnce system that will use backup data encryption.

Licenses

Description	SKU for LTU	SKU for E-LTU
HPE StoreOnce Encryption for Gen5 systems (3720, 3760)	S4P28A	S4P28AAE
HPE StoreOnce Encryption for Gen4 systems (3660. 5260, 5660)	BB994A	BB994AAE

Flexible Networking Options Ordering Information

HPE StoreOnce systems are connected to the backup environment using Ethernet or Fibre Channel networking. Depending on the connectivity required network adaptors, transceivers and cables need to be added to the StoreOnce system using the parts below.

Network adaptor kits for flexible I/O

Up to three (StoreOnce 3720) or four (StoreOnce 3760, StoreOnce 3660, StoreOnce 5260, StoreOnce 5660) optional network adaptors can be added.

Any combination of adaptors can be added but these must be installed in the correct slots. All optional adaptors have dual ports. The adaptors are enabled by a license that is supplied as part of the network adaptor kit. Factory installed network adaptors have the enabling license(s) pre-installed. The following network adaptors are available.

- 32G Fibre Channel
- 16G Fibre Channel
- 10/25 GbE
- 10GBase-T Ethernet

There are different network adaptor kits for the Gen5 models (StoreOnce 3720, StoreOnce 3760) and the Gen4 Plus models (StoreOnce 3660, StoreOnce 5260, StoreOnce 5660).

Network adaptor kits for HPE StoreOnce 3720, HPE StoreOnce 3760

Description	SKU
HPE StoreOnce Gen5 32Gb Fibre Channel Network Card	S4P79A
HPE StoreOnce Gen5 16Gb Fibre Channel Network Card	S4P78A
HPE StoreOnce Gen5 10/25Gb 2-port SFP Adapter	S4P77A
HPE StoreOnce Gen5 10GBASE-T 2-port Adapter	S4P76A

Configuration Information

Network adaptor kits for HPE StoreOnce 3660, HPE StoreOnce 5260, HPE StoreOnce 5660

Description	SKU
HPE StoreOnce Gen4 32Gb Fibre Channel Network Card	BB990A
HPE StoreOnce Gen4 16Gb Fibre Channel Network Card	BB986A
HPE StoreOnce Gen4 Plus 10/25Gb 2-port SFP Adapter	R7M24A
HPE StoreOnce Gen4 Plus 10GBASE-T 2-port Adapter	R7M25A

Transceivers

Optical SFP transceivers are included in the StoreOnce 16Gb FC, 32Gb FC and 10GbE network adaptor kits. Optical 25GbE SFPs are not included in the StoreOnce 10/25GbE network adaptor kits and need to be purchased separately. Two (2) 25GbE SFPs are required per 10/25 GbE network adaptor for 25 GbE connectivity.

HPE OM3 fiber optic cables

Description	SKU
HPE 25Gb SFP28 SR 100m Transceiver	845398-B21

Cables

Cables are not included with the StoreOnce systems or network adaptor kits and must be purchased separately. The following cables are recommended for use with the StoreOnce 3720, StoreOnce 3760, StoreOnce 3660, StoreOnce 5260, StoreOnce 5660.

HPE OM3 fiber optic cables

Description	SKU
HPE LC to LC Multi-mode OM3 2-Fiber 0.5m 1-Pack Fiber Optic Cable	AJ833A
HPE LC to LC Multi-mode OM3 2-Fiber 1.0m 1-Pack Fiber Optic Cable	AJ834A
HPE LC to LC Multi-mode OM3 2-Fiber 5.0m 1-Pack Fiber Optic Cable	AJ836A
HPE LC to LC Multi-mode OM3 2-Fiber 15.0m 1-Pack Fiber Optic Cable	AJ837A
HPE LC to LC Multi-mode OM3 2-Fiber 30.0m 1-Pack Fiber Optic Cable	AJ838A
HPE LC to LC Multi-mode OM3 2-Fiber 50.0m 1-Pack Fiber Optic Cable	AJ839A

HPE PremierFlex OM4 fiber optic cables

Description	SKU
HPE Premier Flex LC/LC Multi-mode OM4 2 Fiber 1m Cable	QK732A

HPE 25GbE Ethernet cables for SFP connectivity

Description	SKU
HPE 25Gb SFP28 to SFP28 3m Direct Attach Copper Cable	844477-B21
HPE 25Gb SFP28 to SFP28 5m Direct Attach Copper Cable	844480-B21

HPE 10GbE Ethernet cables for SFP connectivity for copper environments

Description	SKU
HPE Synergy Frame Link Module CAT6A 1.2m Cable	861412-B21
HPE Synergy Frame Link Module CAT6A 3m Cable	861413-B21

Configuration Information

HPE Ethernet Cat 6A cables for direct attach twisted pair environments

Description	SKU
HPE Networking X240 10G SFP+ SFP+ 0.65m DAC Cable	JD095C
HPE Networking X240 10G SFP+ SFP+ 1.2m DAC Cable	JD096C
HPE Networking X240 10G SFP+ SFP+ 3m DAC Cable	JD097C

Fixed and Flexible Installation and Startup Services And Option Bands

HPE StoreOnce 37xx, 3660, 5260 and 5660 system installation and startup services.

Fixed Services	SKU
HPE Storeonce 36xx Capacity Upgrade Startup Service	H7RC8E

Flexible Services	SKU
HPE StoreOnce 37xx startup service	HA124A1#V2U
HPE StoreOnce 37xx capacity upgrade startup service	HA124A1#V3A
HPE StoreOnce 3660 startup service	HA124A1#5VF
HPE StoreOnce 3660 capacity upgrade startup service	HA124A1#5VG
HPE StoreOnce 5260 startup service	HA124A1#5VL
HPE StoreOnce 5260 capacity upgrade startup service	HA124A1#5VN
HPE StoreOnce 5260/5660 startup service	HA124A1#5WQ
HPE StoreOnce 5260/5660 capacity upgrade startup service	HA124A1#5X2
HPE StoreOnce additional 1 day startup service	HA124A1#5V0

For more information see: **https://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA2-557ENW.pdf**

Advanced Startup Services

HPE StoreOnce Catalyst and Replication Solution Service

These services provide a best practice configuration and verification service in the customer environment to optimize the benefits of deploying Replication and\or Catalyst functionality. The services are available in 3 levels. Within the scope of the service, StoreOnce VSA, as well as the StoreOnce systems in this QuickSpecs, configuration can be part of the solution service.

Description	SKU
HPE StoreOnce Catalyst solution service lvl1	HA124A1#5TY
HPE StoreOnce Catalyst solution service lvl2	HA115A1#5TZ
HPE StoreOnce Catalyst solution service lvl3	HA115A1#5UO

Notes: One service is required for each site when the appropriate licenses are ordered.

For more information see: **http://h20195.www2.hpe.com/V2/GetPDF.aspx/4AA4-3945ENW.pdf**

Configuration Information

HPE StoreOnce Catalyst Startup Service

Combined with the HPE StoreOnce 3720, 3760, 3660, 5260 and 5660 Installation and Startup Service, the HPE StoreOnce Catalyst Startup Service provides implementation and verification of the backup and remote copy features of HPE StoreOnce Catalyst. Within the scope of the service, StoreOnce VSA configuration can also be part of the startup service.

Description	SKU
HPE StoreOnce single node Catalyst startup SVC	HA124A1#5T7

Notes: One service is required for each site when the appropriate licenses are ordered.

For more information see: **http://h20195.www2.hpe.com/v2/GetPDF.aspx/4aa4-9988ENW.pdf**

HPE StoreOnce integration service

The StoreOnce Integration Services are intended to provide proven HPE best practice integration between the customer's backup application and StoreOnce. This service helps customers utilize the advanced features of their backup software with StoreOnce for an optimized end-to-end solution.

Description	SKU
HPE StoreOnce Integration Level 1 SVC	H8E02A1
HPE StoreOnce Integration Level 2 SVC	H8E03A1

For more information see: **https://h20195.www2.hpe.com/V2/GetPDF.aspx/4AA6-3678ENW.pdf**

HPE StoreOnce System Health Check Service

This service provides a proactive review of your HPE StoreOnce system solution or other HPE deduplication systems, including a review of operational, capacity, and performance data so you can rest assured that everything is operating effectively.

Description	Support Service SKU	Per Event	Contractual
HPE StoreOnce Backup Sys HealthCheck SVC	HM006A1	HM006AE	HM006AC

For more information see: **https://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA4-3821ENW.pdf**

HPE StoreOnce Firmware Analysis and Implementation Service

The HPE Firmware Analysis and Update Implementation Services are technical services that provides the analysis and implementation of firmware updates, taking into account the relevant revision dependencies within the IT environment.

Description	Support Service SKU	Per Event	Contractual
HPE HPSD Firmware Update Analysis SVC	HM001A1	HM001AE	HM001AC
HPE HPSD Firmware Update Implement SVC	HM002A1	HM002AE	HM002AC

For more information see **http://h20195.www2.hpe.com/v2/GetPDF.aspx/4AA4-7728ENW.pdf**

Technical Specifications

Model information

	StoreOnce 3720	StoreOnce 3760	StoreOnce 3660	StoreOnce 5260	StoreOnce 5660
Form factor	2U	2U	2U to 6U	4U to 10U	4U to 18U
Max local raw capacity	96 TB	288 TB	272 TB	768 TB	1,536 TB
Max local usable capacity	72 TB	216 TB	200 TB	576 TB	1,152 TB
Max Cloud Bank usable capacity	144 TB	432 TB	400 TB	1,152 TB	2,304 TB
Max total usable capacity	216 TB	648 TB	600 TB	1,728 TB	3,456 TB
Max total effective capacity[1]	12,960 TB	38,880 TB	36,000 TB	103,680 TB	207,360 TB
Max fan-in	24	36	24	32	50
Max Catalyst backup performance	15 TB/hr	25 TB/hr	25 TB/hr	60 TB/hr	105 TB/hr
Target Types	HPE StoreOnce Catalyst Virtual Tape Library[2] (VTL)		HPE StoreOnce Catalyst Virtual Tape Library[2] (VTL) NAS (CIFS and NFS)		
Max targets (sum of all types)	24	36	36	64	128
Maximum concurrent streams	128	256	256	512	1024
Max VTL cartridges / system	49,201	294,985	147,456	1,048,576	3,145,728
Max VTL cartridges per library	1,024	4,096	4,096	16,384	16,384
Max drives per system	128	256	256	512	1,024

Notes:

- This is the effective capacity for backup data based on 60:1 space savings from StoreOnce data reduction.
- For D2DBS Generic Libraries, tape drive types emulated are Ultrium-VT, LTO-2 to LTO-7. For EML and ESL E Series Libraries, tape drive types emulated are LTO-2 to LTO-7. For IBM-TS3500 Libraries, tape drive types emulated are IBM, LTO-3 and LTO-5. For HPE MSL G3 Series Libraries, tape drive types emulated are LTO-2 to LTO-7.

Technical Specifications

Power Requirements

All figures in the tables below reflect typical data center power configurations.

Notes: In all cases, worst case power usage when server fans operate at max speed

HPE StoreOnce 3720														
	Qty		208 V				220 V				240 V			
Configuration	SSD	HDD	A	W	VA	BTU/hr	A	W	VA	BTU/hr	A	W	VA	BTU/hr
Base (18 TB usable)	2	12	4.88	1010	1016	3443	4.62	1008	1015	3439	4.23	1007	1015	3432
Max (72 TB usable)	2	24	5.63	1164	1171	3969	5.32	1163	1170	3965	4.88	1161	1170	3958

HPE StoreOnce 3760														
	Qty		208 V				220 V				240 V			
Configuration	SSD	HDD	A	W	VA	BTU/hr	A	W	VA	BTU/hr	A	W	VA	BTU/hr
Base (108 TB usable)	2	12	5.51	1140	1146	3887	5.21	1139	1146	3883	4.77	1137	1146	3876
Max (216 TB usable)	2	24	6.04	1250	1257	4263	5.71	1249	1257	4258	5.23	1247	1256	4251

HPE StoreOnce 3660														
	Qty		208 V				220 V				240 V			
Configuration	600 LFF	HDD	A	W	VA	BTU/hr	A	W	VA	BTU/hr	A	W	VA	BTU/hr
Base (2U)	0	12	3.25	675	676	2302	3.07	674	676	2299	2.82	674	676	2298
			4.48	931	932	3175	4.23	930	931	3171	3.83	930	931	3170
+ 1 Enclosure (4U)	1	24	5.21	1080	1084	3684	4.93	1080	1084	3682	4.52	1079	1086	3678
			6.44	1336	1339	4556	6.09	1335	1339	4554	5.58	1334	1340	4550
+ 2 Enclosures (6U)	2	36	7.17	1486	1491	5066	6.79	1485	1493	5065	6.22	1483	1492	5058
			8.4	1741	1746	5938	7.95	1741	1748	5937	7.28	1739	1749	5929

HPE StoreOnce 5260															
	Qty			208 V				220 V				240 V			
System	SSD	600 LFF	HDD	A	W	VA	BTU/hr	A	W	VA	BTU/hr	A	W	VA	BTU/hr
Base	10			3.18	660	661	2251	3.00	659	6601	2247	2.76	659	661	2247
				4.41	916	917	3122	4.16	914	916	3118	3.81	914	915	3117
1 Enc Expansion	10	1	12	5.12	106	1064	3619	4.84	1061	1065	3617	4.45	1059	1066	3613
				6.35	1317	1320	4490	6.00	1316	1320	4487	5.5	1315	1320	4483
2 Enc Expansion	10	2	24	7.06	1462	1468	4987	6.68	1462	1470	4986	6.14	1460	1471	4979
				8.29	1718	1723	5858	7.84	1718	1725	5857	7.19	1715	1725	5849
3 Enc Expansion	10	3	36	9.00	1864	1871	6355	8.52	1864	1874	6355	7.83	1861	1876	6345
				10.23	2119	2126	7226	9.68	2119	2129	7226	8.88	2116	2130	7215
4 Enc Expansion	10	4	48	10.94	2265	2274	7723	10.36	2265	2279	7725	9.52	2261	2281	7711
				12.17	2520	2529	8594	11.52	2521	2534	8596	10.57	2517	2535	8581

Technical Specifications

HPE StoreOnce 5660															
	Qty			208 V				220 V				240 V			
System	SSD	600 LFF	HDD	A	W	VA	BTU/hr	A	W	VA	BTU/hr	A	W	VA	BTU/hr
Base	10			3.47	721	722	2458	3.28	720	721	2454	3.01	719	721	2453
				4.70	978	978	3334	4.44	976	978	3329	4.07	976	977	3386
1 Enc Expansion	10	1	12	5.41	1122	1125	3826	5.12	1120	1126	3823	4.70	1120	1126	4695
				6.64	1379	1382	4702	6.28	1377	1382	4698	5.76	1377	1328	5185
2 Enc Expansion	10	2	24	7.35	1523	1528	5193	6.96	1521	1531	5193	6.39	1521	1532	6061
				8.58	1780	1785	6070	8.12	1777	1787	6068	7.45	1777	1787	6551
3 Enc Expansion	10	3	36	9.29	1924	1931	6561	8.80	1921	1936	6526	8.08	1921	1936	7427
				10.52	2181	2188	7438	9.96	2178	2192	7438	9.14	2178	2192	7918
4 Enc Expansion	10	4	48	11.23	2325	2334	7929	10.64	2322	2341	7931	9.77	2322	2341	8793
				12.46	2582	2591	8805	11.80	2579	2597	8807	10.83	2579	2597	8794
5 Enc Expansion	10	5	60	13.17	2726	2738	9297	12.48	2723	2746	9301	11.46	2723	2746	9284
				14.40	2983	2994	10173	13.64	2979	3002	10177	12.52	2979	3002	10159
6 Enc Expansion	10	6	72	15.11	3128	3140	10665	14.32	3123	3151	10670	13.15	3123	3151	10650
				16.34	3385	3397	11541	15.48	3380	3407	11546	14.21	3380	3407	11526
7 Enc Expansion	10	7	84	17.05	3544	3544	12033	16.16	3524	3556	12040	14.84	3524	3556	12016
				18.28	3786	3800	12909	17.23	3781	3812	12915	15.90	3781	3812	12892
8 Enc Expansion	10	8	96	18.99	3930	3947	13401	18.00	3924	3961	13409	16.53	3924	3961	13382
				20.22	4187	4204	14277	19.16	4181	4217	14284	17.59	4181	4217	14258

Technical Specifications

Acoustic Noise Specifications

StoreOnce 3720	
Idle	LWAd 5.4 B
(disks spinning)	LpAm 36 dBA
Operating	LWAd 6.3 B
(random seeks to disks)	LpAm dBA
StoreOnce 3760	
Idle	LWAd 5.4 B
(disks spinning)	LpAm 36 dBA
Operating	LWAd 6.3 B
(random seeks to disks)	LpAm dBA
StoreOnce 3660	
Idle	LWAd 5.0 B
(disks spinning)	LpAm 32 dBA
Operating	LWAd 5.0 B
(random seeks to disks)	LpAm 32 dBA
StoreOnce 5260	
Idle	LWAd 5.2 B
(disks spinning)	LpAm 34 dBA
Operating	LWAd 5.3 B
(random seeks to disks)	LpAm 37 dBA
StoreOnce 5660	
Idle	LWAd 5.7 B
(disks spinning)	LpAm 44 dBA
Operating	LWAd 6.4 B
(random seeks to disks)	LpAm 48 Dba

Physical Dimensions						
System		**3720**	**3760**	**3660**	**5260**	**5660**
Dimensions (Base system)	**Form Factor**	2U	2U	2U	4U	4U
	Out of box **Height** **Width** **Depth**	8.75 cm 44.80 cm 81.28 cm 3.44 in 17.63 in 32.00 in	8.75 cm 44.80 cm 81.28 cm 3.44 in 17.63 in 32.00 in	8.75 cm 44.54 cm 74.90 cm 3.44 in 17.54 in 29.50 in	8.75 cm 44.54 cm 71.10 cm 3.44 in 17.54 in 28.00 in	8.75 cm 44.54 cm 71.10 cm 3.44 in 17.54 in 28.00 in
Weight (indicative, actual weight depends on configuration)	**Out of box**	21 – 43 kg 47 – 95 lbs	21 – 43 kg 47 – 95 lbs	25 kg 55 lbs	21 kg 46 lbs	21 kg 46 lbs

Technical Specifications

Environmental Ranges		
Environmental	**Operating temperature**	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).
	Shipping temperature	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
	Operating humidity	8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing
	Shock and vibration	Levels of shock the product can withstand with no damage being incurred. The values represent a peak input acceleration during an 11ms half-sine shock pulse. • Operating: 2 G's • Non-operating: 15 G's Levels of vibration the product can withstand with no damage being incurred. The values represent a flat random vibration input acceleration profile across the given frequency range. • Operating: Random vibration at 0.000075 G²/Hz, 10Hz to 300Hz, (0.15 G's nominal). Non-operating: Random vibration at 0.0005 G²/Hz, 10Hz to 500Hz, (0.5 G's nominal).
		Notes: For the StoreOnce 3660, StoreOnce 5260, StoreOnce 5660, the levels of shock and vibration are for base unit only.

Summary of Changes

Date	Version History	Action	Description of Change
04-Aug-2025	**Version 55**	Changed	Overview and Standard Features sections were updated - Provided clarity on raw, usable and effective capacities. Standardized on a 60:1 ratio between usable and effective capacity. Configuration Information section was updated - New Network adaptor kits for HPE StoreOnce 3660, HPE StoreOnce 5260, HPE StoreOnce 5660 SKUs were added Technical Specifications section was updated - Model Information was updated
		Added	New SKUs were added - BB990A, BB986A
07-Jul-2025	**Version 54**	Changed	Overview, Standard Features, Configuration Information and Technical Specifications sections were updated. Added content on Gen5 models (3720, 3760). Removed content on Gen4 models (3630, 3640, 5200, 5250, 5650)
		Removed	Obsolete SKUs were removed - BB982A, BB984A
19-Feb-2024	**Version 53**	Changed	Overview, Service and Support and Configuration Information sections were updated. HPE Services Rebranding
21-Aug-2023	**Version 52**	Changed	Overview, Standard Features, Configuration Information and Technical Specifications sections were updated.
10-Jul-2023	**Version 51**	Changed	Overview, Standard Features and Service and Support sections were updated
01-May-2023	**Version 50**	Changed	Overview and Standard Features sections were updated
07-Feb-2022	**Version 49**	Changed	Standard Features section was updated
06-Dec-2021	**Version 48**	Changed	Service and Support section was updated
01-Nov-2021	**Version 47**	Changed	Configuration Information section was updated
04-Oct-2021	**Version 46**	Changed	Service and Support section was updated
07-Sep-2021	**Version 45**	Changed	Overview, Standard Features, Service and Support, , Configuration Information and Technical Specifications sections were updated.
01-Mar-2020	**Version 44**	Changed	Changes made throughout the entire document.
06-Jul-2020	**Version 43**	Changed	Overview, Configuration Information and Standard Features sections were updated.
18-May-2020	**Version 42**	Changed	Configuration Information and technical Specifications sections were updated.
20-Apr-2020	**Version 41**	Changed	Configuration Information section was updated.
20-Jan-2020	**Version 40**	Changed	Standard Features Configuration Information and technical Specifications sections were updated.
16-Dec-2019	**Version 39**	Changed	Configuration Information Section was updated.
02-Dec-2019	**Version 38**	Changed	Standard Features and Configuration Information sections were updated.
04-Nov-2019	**Version 37**	Changed	Changes made throughout the entire document.
07-Oct-2019	**Version 36**	Changed	VSA information was added and Technical Specifications section was updated.
01-Jul-2019	**Version 35**	Changed	Technical Specifications section was updated.
06-May-2019	**Version 34**	Changed	Overview, HPE StoreOnce Backup Models, Common Features and Benefits, HPE StoreOnce Systems, Technical Specifications and Service and Support sections were updated.
04-Mar-2019	**Version 33**	Changed	Technical Specifications section was updated.
04-Feb-2019	**Version 32**	Changed	HPE StoreOnce VSA Backup, Software Options and Technical Specifications sections were updated.

Summary of Changes

Date	Version History	Action	Description of Change
03-Dec-2018	**Version 31**	Changed	Overview, HPE StoreOnce Backup Models, Common Features and Benefits, HPE StoreOnce Systems, Software Options, Technical specifications and Service and Support sections were updated
15-Oct-2018	**Version 30**	Changed	Overview, HPE StoreOnce Backup Models, Common Features and Benefits, HPE StoreOnce Systems, Software Options, Technical specifications and Service and Support sections were updated
01-Oct-2018	**Version 29**	Changed	Overview, HPE StoreOnce backup, HPE StoreOnce system, Standard Features, HPE StoreOnce VSA backup, Software Options and Technical Specifications sections were updated
07-May-2018	**Version 28**	Changed	Entitlement Certificate was updated to Capacity Upgrade License Entitlement Certificate. Software options section was revised.
02-Apr-2018	**Version 27**	Changed	Technical Specifications was revised SKU descriptions were updated.
		Removed	Obsolete SKUs were removed.
05-Mar-2018	**Version 26**	Changed	The **http://www.hpe.com/Storage/DAPRCompatibility** URL was updated to: **http://www.hpe.com/Storage/StoreOnceSupportMatrix.**
05-Feb-18	**Version 25**	Changed	Overview section was revised.
08-Jan-2018	**Version 24**	Changed	Changes made throughout the QuickSpecs
04-Dec-2017	**Version 23**	Changed	Changes made throughout the entire document.
25-Sep-2017	**Version 22**	Changed	Changes made throughout the entire document.
07-Aug-2017	**Version 21**	Changed	Changes made throughout the entire document.
11-Jul-2017	**Version 20**	Changed	Changes made throughout the QuickSpecs.
05-Jun-2017	**Version 19**	Changed	Changes made throughout the entire document.
13-Feb-2017	**Version 18**	Changed	Changes made throughout the entire document.
26-Sep-2016	**Version 17**	Changed	Changes made throughout the entire document.
16-Sep-2016	**Version 16**	Changed	Changes made to the VSA Section.
27-May-2016	**Version 15**	Changed	Changes made to cover new perpetual StoreOnce VSA LTUs and the added 20 TB LTU. Clean up HP à HPE. Cleaned up units e.g. 20 TB à 20 TB (for consistency).
25-Apr-2016	**Version 14**	Changed	Changes made throughout the entire document.
31-Mar-2016	**Version 13**	Changed	Changes made throughout the entire document.
17-Dec-2015	**Version 12**	Changed	Fixed some typos from last version.
01-Dec-2015	**Version 11**	Changed	Changes made throughout the entire document.
24-Jul-2015	**Version 10**	Changed	Changes made throughout the entire document.
19-Jun-2015	**Version 9**	Changed	Changed made to the StoreOnce VSA Backup and the Software Options Sections.
08-May-2015	**Version 8**	Changed	Corrected some SKU numbers for the StoreOnce VSA and corrected some URLs.
06-Apr-2015	**Version 7**	Changed	Changed the version to 7 to match Product Bulletin.
30-Mar-2015	**Version 6**	Changed	Changes made throughout the entire document.
30-Jan-2015	**Version 5**	Changed	Edits made to 4900 support shelf, 6500 what's in the box contents and 'What's new' June '14 date removal.
09-Jan-2015	**Version 4**	Changed	Changes to the HPE StoreOnce 6600 purchasing information table.

Summary of Changes

Date	Version History	Action	Description of Change
15-Sep-2014	**Version 3**	Changed	Update the firmware version number of the 6500 model.
18-Aug-2014	**Version 2**	Changed	Changes were made throughout the Overview, Technical Specifications, and Software Options Sections.
			Product Descriptions Updated.
10-Jun-2014	**Version 1**	New	New QuickSpecs

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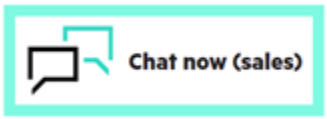

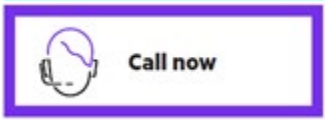

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