

### Overview

## HPE D3000 Enclosures

Manage your small and midrange business growing storage needs by deploying the next generation 12Gb SAS low cost, flexible tiered external storage system. Ideal for small application environments in SMBs, remote offices and departmental locations as well as tier 2 or 3 storage for enterprise customers. The 12Gb SAS enclosures - Large Form Factor (LFF) D3610 with 12 drive bays and Small Form Factor (SFF) D3710 with 25 drive bays - offer modular solutions to simplify capacity expansion of HPE Gen10 and Gen10+ ProLiant server environments. The D3610 and the D3710 are aligned with the Gen10 ProLiant branding and industrial design. This allows you to buy what is needed today and purchase additional capacity as data storage needs grow.

The D3000 enclosures support direct attach storage to Gen10 and Gen 10+ ProLiant Servers with the HPE Smart Array Smart Array E208e-p SR Gen10 Controller and the HPE Smart Array P408e-p SR Gen10 Controller including HPE Apollo and HPE StoreEasy.

See the [Windows Server Catalog](#) for the latest supported configurations. Total support can grow as needed to up to 96 LFF drives or 200 SFF drives.



**HPE D3710 Enclosure (SFF)**

1. Disk drive in bay 1
2. System health LED
3. UID push button and LED

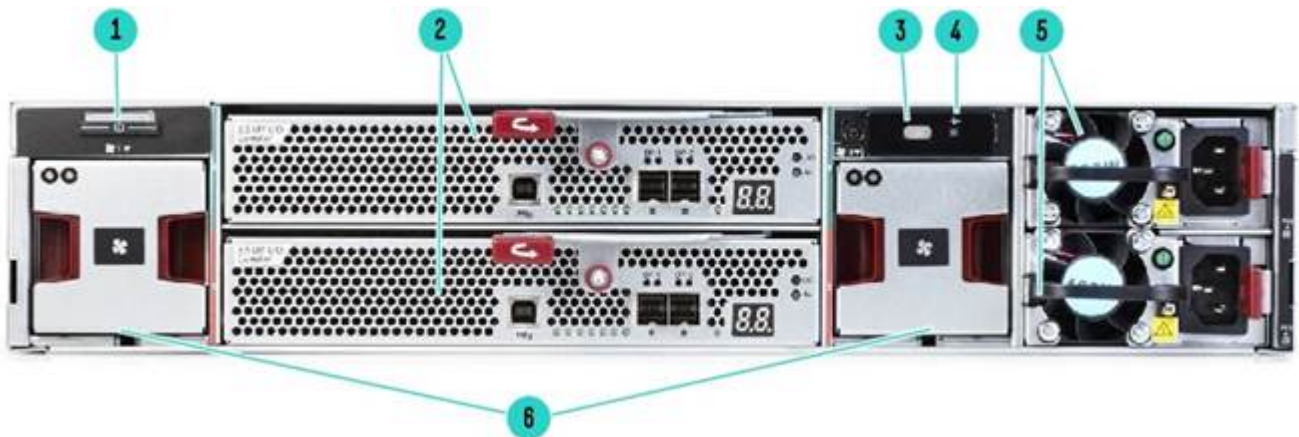
### Overview



**HPE D3610 Enclosure (LFF)**

### HPE D3000 Enclosure (Large and Small Form factor Features)

1. Disk drive in bay 1
2. System health LED
3. UID push button and LED



**HPE D3000 Enclosure (Large and Small Form factor Features)  
Rear Panel components**

- |  |                          |
|--|--------------------------|
| 1. Metal cover with fan module ID <sup>1</sup> | 4. Rear system health ID |
| 2. I/O Module A and B                          | 5. Power Supply          |
| 3. Rear UID push button                        | 6. Fans                  |

#### Notes:

A pull tab is provided for label placement.

The I/O modules for both the HPE D3610 LFF and HPE D3710 SFF enclosures share the same layout.

### Overview

#### Models

##### Description

##### SKU

#### HPE D3000 Enclosures

Disk Enclosures for HPE Gen10 ProLiant Servers

HPE D3610 Enclosure

Q1J09A

HPE D3710 Enclosure

Q1J10A

#### HPE D3610 Enclosure + Hard Drive Bundles

##### D3610 Bundles (For use with Gen10 ProLiant servers)

HPE D3610 w/12 4TB 12G SAS 7.2K LFF (3.5in) Midline Smart Carrier HDD 48TB Bundle

Q1J11A

HPE D3610 w/12 6TB 12G SAS 7.2K LFF (3.5in) Midline Smart Carrier HDD 72TB Bundle

Q1J12A

HPE D3610 w/12 8TB 12G SAS 7.2K LFF (3.5in) Midline Smart Carrier HDD 96TB Bundle

Q1J13A

HPE D3610 w/12 10TB 12G SAS 7.2K LFF (3.5in) Midline Smart Carrier HDD 120TB Bundle

Q1J14A

#### HPE D3710 Enclosure + Hard Drive Bundles

##### D3710 Bundles (for use with Gen10 ProLiant servers)

HPE D3710 w/25 600GB 12G SAS 10K SFF (2.5in) Enterprise Smart Carrier HDD 15TB Bundle

Q1J15A

HPE D3710 w/25 1.2TB 12G SAS 10K SFF (2.5in) Enterprise Smart Carrier HDD 30TB Bundle

Q1J17A

HPE D3710 w/25 1.8TB 12G SAS 10K SFF (2.5in) Enterprise Smart Carrier HDD 45TB Bundle

Q1J18A

HPE D3710 w/25 1TB 6G SAS 7.2K SFF (2.5in) Midline Smart Carrier HDD 25TB Bundle

Q1J19A

HPE D3710 w/25 2TB 12G SAS 7.2K SFF (2.5in) Midline Smart Carrier HDD 50TB Bundle

Q1J20A

### What's New

- Support for additional HDDs and SSDs
- Removal of EOL HDDs and SSDs
- Updated power supply information

### Standard Features

#### Affordable, low cost Storage

- Purchase only what you need today and avoid up-front costs. Modular platform provides investment protection and by purchasing only what is needed today, allows for growth as storage requirements evolve. Buying storage only when needed simplifies planning and relieves budget pressures.
- HPE D3710: Maximum storage capacity of 60 TB SAS (2.4 TB SAS), 50 TB SAS MDL (2TB SAS MDL) or SATA (2TB SATA MDL) per enclosure scalable to 360TB SAS, 400 TB SAS MDL or SATA (dependent on the Smart Array Controller).
- HPE D3610: Maximum storage capacity of 7.2 TB SAS (600GB SAS) or 240 TB SAS MDL or SATA MDL (20TB SAS or SATA HDD) per enclosure scalable to 57.6 TB SAS, or 1,920 TB SAS MDL or SATA MDL.
- Enterprise-class dual port SAS or archival-class SATA drives as the need and budget dictates
- All D3000 enclosure (LFF and SFF) models also support SAS and SATA Solid State Drives (SSD).

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#### Flexible/Scalable

- Grow storage capacity easily by daisy-chaining up to eight D3610 or D3710 enclosures from a single Controller port. Up to 96 drives with the D3610 or 200 drives with the D3710, allowing for room to grow as storage demands increase behind a single controller/SAS HBA.
- The D3610 and D3710 support the Gen10 E208e-p and the P408e-p Smart Array SR controllers
- Software defined storage services such as Microsoft Storage Spaces can be enabled.

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#### Manage

- Support for HPE Smart Carrier (HPE ProLiant drives)
- Hassle free expansion - little IT expertise required.
- D3610/D3710 compatible with the Gen10 HPE Smart Array SR controllers (E208e-p, and the P408e-p).
- Easy removal of parts provides better serviceability.

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#### High performance 12Gb SAS host connectivity

- 12Gb SAS host connectivity enables a higher data transfer rate.
- End-to-end 12Gb SAS connectivity ensures a high performance storage solution using Gen10 controllers - E208e-p, P408e-p
- HPE Smart Cache feature is a controller-based read caching solution in a DAS environment that caches the most frequently accessed data ("hot" data) onto lower latency SSDs to dynamically accelerate application workloads.
- HPE SSD Smart Path feature included in the Smart Array software stack improves SSD read for all RAID levels and RAID 0 write operations by optimizing the path to each SSD attached to the controller.
- Since storage is contained within the rack, latency is reduced as data does not travel over large distances.

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#### HPE Reliability

- Deploy with confidence. Hewlett Packard Enterprise offers a complete end-to-end storage solution including the D3000 storage enclosures, Smart Array E208e-p or P408e-p controllers and Gen10/Gen10+ HPE ProLiant servers.
- Familiar Smart Array technology of the E208e-p or the P408e-p Controllers enable support for RAID levels 0, 1, 1+0, 5 and RAID 6 with ADG, 50 and 60. Optional battery-backed write cache.

### Standard Features

- **Advanced Data Guarding (RAID 6):** This is the highest level of fault tolerance. It allocates two sets of parity data across drives and allows simultaneous write operations. This level of fault tolerance can withstand two simultaneous drive failures without downtime or data loss.
  - **Distributed Data Guarding (RAID 5):** This allocates parity data across multiple drives and allows simultaneous write operations.
  - **Receive pre-failure alerts with HPE SIM.** When drives installed in D3000 disk enclosures are used in conjunction with the E208e-p or the P408e-p Smart Array Controller and Systems Insight Manager, the Smart Array firmware in HPE hard drives enables extensive fault prediction capabilities. If potential problems develop in one of the drives, the Smart Array Controller, Systems Insight Manager and/or Smart hard disk drive lets you know in advance so you can have the drive replaced, before it fails, under warranty.
  - **Remove / replace / add components when system is running without service disruption with hot Plug drives, power and cooling.**
  - **Redundant power and cooling provides increased reliability as failure of a power supply or fans does not interrupt system functioning.**
  - **Dual domain SAS creates redundant pathways from servers to storage devices.** The redundant paths created by these configurations reduce or eliminate single points of failure within the storage network. This provides increased levels of high availability with redundant paths from the controller to the drives. Dual domain SAS implementations make it possible to tolerate host bus adapter (HBA) failure, external cable failure, expander failure, failure in a spanned disk (JBOD) environments.
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### HPE D3000 Enclosures Components

The HPE D3000 Enclosures (hereafter referred to as "D3000") is a family of disk drive storage enclosure with 12Gb SAS host connectivity. The D3000 is a 2U direct attach, external storage solution designed for small to medium size deployments or remote locations. These enclosures deliver industry-leading availability, storage density, and upgradeability to meet customers' demanding and growing storage needs. The D3000 delivers the ideal mix of low-cost and high capacity, for minimum I/O workloads such as reference data, archival, and disk-to-disk backup.

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### High Levels of Storage Density, Data Protection, and Functionality

- **Storage Capacity** - The SFF Gen10 D3710 enclosures support up to 25 (twenty five) 12G SFF SAS drives for a maximum capacity of 60 TB with 12G 2.4TB SAS drives or 50 TB with 2TB 12G SAS MDL or SATA MDL drives. Number of Solid State drives is limited to twenty five (25) per controller.
  - The LFF Gen10 D3610 disk enclosures support up to 12 (twelve) 12 LFF SAS drives for a maximum capacity of 7.2 TB with 12G 600GB SAS drives or 240 TB with 12G 20TB SAS MDL or 6G 20TB SATA MDL drives.
  - **Data Protection** - D3000 is designed for a high level of data protection. It includes redundant fans and power supplies (standard), and supports various RAID levels including RAID6 with ADG, 50 & 60 (depending upon the Smart Array Controller used).
  - **Storage Manageability** - The D3000 features familiar configuration and management tools such as Array Configuration Utility (ACU) and HPE Systems Insight Manager (SIM). Online Management Features include: Online Capacity Expansion, Online RAID Level Migration, Online Stripe Size Migration, Online Spares (Global).
  - **Choice of Computing Platform** - The D3000 is designed and qualified for HPE Gen 10 ProLiant servers.
  - **Advanced Data Guarding (RAID 6 with ADG).**
  - **Fault Tolerance** - It allocates two sets of parity data across drives and allows simultaneous write operations. This level of fault tolerance can withstand two simultaneous drive failures without downtime or data loss.
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### Low Total Cost of Ownership

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### Standard Features

The modular, scalable design of the D3000 disk enclosure family provides an extremely flexible platform. You can buy what you need today and purchase additional capacity as your data storage needs grow, instead of making a large up-front investment. Additional drives and enclosures can be easily added as your needs dictate.

- **Cascading** - The D3610 and D3710 have the unique capability of cascading up to eight (8) enclosures behind a single SAS port (depends on the Smart Array Controller). The mixing of D3610 and D3710 in one cascade is not supported.
- **Pre-Failure Warranty** - Drives installed in either the D3610 or the D3710 and monitored under HPE Systems Insight Manager are supported by a Pre-Failure (replacement) Warranty (3 years for SAS drives). Pre-Failure Warranty allows for the replacement of designated drives in the D3610 or the D3710 before they actually fail when using HPE Systems Insight Manager on HPE ProLiant servers.

**Notes:** Some operating systems may not support all of these features.

- **Integrated Configuration and Management Tools** - The D3000 family utilizes the standard, integrated set of Smart Array management and utility software for HPE ProLiant Servers. These tools consistently lower the cost of ownership by reducing training and technical expertise necessary to install and maintain HPE server storage.
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### D3000 Disk Enclosures

#### HPE D3610 (LFF) Disk Enclosures

The 2U array houses up to twelve (12) 3.5 inch HPE Smart Carrier (Gen10 HPE ProLiant) hot pluggable SAS and SATA drives.

Each D3610 includes the following standard components:

- D3610 base enclosure with redundant power supplies and fan modules
- Two (2) integrated 12Gb SAS IO Modules
- Rack mounting hardware kit
- Two (2) 0.5m HD Mini-SAS cables
- Two (2) PDU interconnect cords

#### HPE D3710 (SFF) Disk Enclosures

The 2U array houses up to twenty five (25) 2.5 inch HPE Smart Carrier (Gen10 HPE ProLiant) hot pluggable SAS and SATA drives.

Each D3710 includes the following standard components:

- D3710 base enclosure with redundant power supplies and fan modules
  - Two (2) integrated 12Gb SAS IO Modules
  - Rack mounting hardware kit
  - Two (2) 0.5m HD Mini-SAS cables
  - Two (2) PDU interconnect cords
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### HP Smart Array E208e-p SR Gen10 Controller

- Storage interface (SAS/SATA)
  - 8 SAS lanes across 2 x4 external Mini-SAS HD ports
  - 12Gb/s SAS, 6Gb/s SATA technology
  - Mix-and-match SAS and SATA drives to the same controller
  - Support for SAS tape drives
  - PCI Express 3.0 x8 link
  - RAID 0, 1, 5, 10
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### Standard Features

- Mixed Mode (RAID logic drives and HBA physical drives simultaneously)
  - Legacy and UEFI boot operation
  - UEFI System Utilities (storage configuration)
  - Up to 238 physical drives
  - Up to 64 logical drives
  - HPE Smart Array SR Secure Encryption (optional license)
  - HPE SSD Smart Path
  - Rapid Parity Initialization (RPI)
  - Rapid rebuild
  - Drive Sanitize
  - Performance Optimization-Degraded Reads and Read Coalescing
  - Power efficiency
  - Seamless upgrades from HPE Smart Array Software RAID
  - Seamless upgrades to HPE Smart Array P-class Controllers
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### HP Smart Array P408e-p SR Gen10 Controller

- Storage interface (SAS/SATA)
  - 8 SAS lanes across 2 x4 external Mini-SAS HD ports
  - 12Gb/s SAS, 6Gb/s SATA technology
  - Mix-and-match SAS and SATA drives to the same controller
  - Support for SAS tape drives, SAS tape autoloaders and SAS tape libraries
  - 4 GB Flash-Backed Write Cache (FBWC)
  - PCI Express 3.0 x8 link
  - RAID 0, 1, 5, 6, 10, 50, 60, 1 ADM, 10 ADM (Advanced Data Mirroring)
  - Mixed Mode (RAID logic drives and HBA physical drives simultaneously)
  - Legacy and UEFI boot operation
  - UEFI System Utilities (storage configuration)
  - Up to 238 physical drives
  - Up to 64 logical drives
  - HPE Smart Array SR SmartCache (optional license)
  - HPE Smart Array SR Secure Encryption (optional license)
  - HPE SSD Smart Path
  - Rapid Parity Initialization (RPI)
  - Rapid rebuild
  - Drive Sanitize
  - Performance Optimization-Degraded Reads and Read Coalescing
  - Power efficiency
  - Seamless upgrades from HPE Smart Array S-class and E-class controllers
  - FIPS 140-2 Level 1 Implementation Under Test (expected validation complete in 2018)
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### RAID

Several fault tolerant configurations keep data available and servers running while drives are being replaced - RAID levels that offer fault tolerance include:

- **RAID 50 (RAID 5+0)** protects against failure of one drive (and failure of particular multiple drives). RAID 50 is a nested RAID method that uses RAID 0 striping across RAID 5 arrays. RAID 50 tolerates one drive failure in each spanned array without loss of data. RAID 50 requires less rebuild time than single RAID 5 arrays RAID 50 requires a minimum of six drives.
  - **RAID 60 (RAID 6+0)** allows administrators to split the RAID 6 storage across multiple external boxes. RAID 60 requires a minimum of eight drives. RAID 60 is a nested RAID method that uses RAID 0 block-level striping across multiple RAID 6 arrays with dual distributed parity. With the inclusion of dual
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### Standard Features

parity, RAID 60 will tolerate the failure of two disks in each spanned array without loss of data.

- **RAID 6 with ADG:** Allocates the equivalent of two parity drives across multiple drives and allows simultaneous write operations Distributed Data Guarding (RAID 5): Allocates parity data across multiple drives and allows simultaneous write operations. Drive Mirroring (RAID 1 and 1+0 Striped Mirroring): Allocates half of the drive array to data and the other half to mirrored data, providing two copies of every file.
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### Dual Domain

Dual domain SAS creates redundant pathways from servers to storage devices. The redundant paths created by these configurations reduce or eliminate single points of failure within the storage network. This provides increased levels of high availability with redundant paths from the controller to the drives. Dual domain SAS implementations make it possible to tolerate external cable failure, expander failure in a spanned disk (JBOD) environments. Requires FW v 3.x.

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### Common Slot Power Supply

The D3000 Disk enclosures use the 1200W Common Slot Power supply.

HPE's Common Slot Power supplies meet multiple Energy Efficiency Initiatives:

- 1200W, 92%: Climate Savers Computing Initiative GOLD and ECOS Consulting 80PLUS GOLD

**Notes:** The 80 PLUS program is a unique forum that unites electric utilities, the computer industry, and consumers in an effort to bring energy efficient technology solutions to the marketplace. 80 Plus independently tests power supply efficiency and publicly posts the results on [80Plus.org](http://80Plus.org).

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### Utilities

The D3000 disk enclosure family utilizes a single, consistent set of utility software for storage and RAID management, setup, configuration and troubleshooting. This consistency reduces the cost of ownership by reducing the training and technical expertise necessary to install and maintain your HPE server storage solution.

### Configuration Utilities

- Array Configuration Utility (ACU) [On-line for Microsoft and Linux, Remote Web-Based & Off-line]
- Option ROM Configuration for Arrays (ORCA), NetWare ACU CPQONLIN (only online support no Web based support)

### Management/Health Utilities

- HPE Systems Insight Manager

#### Array Configuration Utility (ACU)

- Provides a graphical view of HPE drive array configurations.
- Easy to use Wizards for configuration.
- Web Based ACU supports On-Line, Remote Web Based and Off-line configuration.
- Supports on-line configuration for Microsoft, NetWare and Linux.

#### HPE Systems Insight Manager (SIM)

- Powerful storage, server and server option management tool.
  - Monitor storage from a remote central location.
  - Browser based Insight Manager 7 provides full access from anywhere on the Intranet, eliminating the need for a dedicated Insight Manager console.
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## Standard Features

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### Supported Operating Systems

For latest information on HPE Smart Array Gen10 Controllers for HPE ProLiant DL, ML and Apollo Servers as well as HPE StoreEasy, please refer to their QuickSpecs. (E208e-p, and P408e-p)

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### Service and Support

#### Storage Software

##### Microsoft Windows 2012, Storage Spaces

Software Defined Storage implementation, included in Microsoft Windows 2012 R2 software

See: the [Windows Server Catalog](#) for the latest supported configurations.

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#### Warranty

Three-year limited parts only warranty, including hardware diagnostic support, pre-failure warranty (coverage of hard drives, memory and processors). The warranty is fully supported by HPE Services and a worldwide network of resellers and service providers. In addition 90-day's getting started software telephone support may be covered under the warranty or available for an additional fee. Enhancements to warranty services are available through HPE Pointnext operational services.

**Notes:** The D3000 family has a limited 3 year parts only warranty. SAS and Solid State drives have 3 year warranty. SAS MDL and SATA MDL and SATA Solid State Drives have 1 year warranty.

The D3000 has been designed with customer self-repairable parts to minimize repair time and provide greater flexibility in performing defective parts replacement. Refer to HPE's limited warranty Statement and parts replacement instructions for further details. <http://h20564.www2.hpe.com/hpsc/wc/public/home>

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### Service and Support

#### Services to accelerate time to results

HPE Storage Services bring you a rich portfolio of consulting and support services designed to add value to our core storage products and solutions. We have the know-how and experience to put storage technology to work for you. We work closely with you as your strategic partner, leveraging our full services portfolio to make sure that everything works to optimize your enterprise.

Choose from services aligned to our storage product offerings and lifecycle. From mission-critical onsite services to innovative web-based remote support, you choose the precise level of attention and support your business demands.

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#### Discover, plan, and design

Choose from a rich portfolio of services to make the most of HPE D3000 Disk Enclosures so you can efficiently and affordably consolidate, manage, and extract value from unstructured data.

HPE Services can help you discover needs and create a plan for simplifying the environment, reducing risk, and maximizing your storage investments

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#### HPE Storage Efficiency Analysis

The HPE Storage Efficiency Analysis provides customers with a view of their storage infrastructure and operating environment; highlighting recommendations for improvements. The report provides extensive insight about the existing storage environment, opportunities for efficiency gains, asset aging and replacement through interaction with key decision makers.

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#### HPE Storage Impact Analysis (SIA)

The HPE Storage Impact Analysis service provides a 2-4 week discovery engagement with executive summary presentation. The goal of this service is to help provide customers guidance on storage related issues and develop remediation plans.

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### Service and Support

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#### **HPE Storage Modernization Service**

The HPE Storage Modernization service is a 4-6 week service that defines the customers envisioned target storage environment based on a proven solution design methodology. Hewlett Packard Enterprise architects will quickly perform tool-assisted automatic discovery and facilitate a two-day strategy workshop with all key stakeholders involved in the storage infrastructure initiative.

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#### **Deploy and integrate**

We can help you configure, set up, and efficiently use your HPE D3000 Enclosures as well as help migrate data, improve capacity utilization, and establish information management standards used across backup, replication, and archiving needs.

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#### **HPE Storage Data Migration Services**

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.

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#### **HPE Storage and Data Residency Service**

Strategic augmentation of your current environment with HPE resources who become your trusted advisor to provide answers that are right for your storage and backup environment.

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#### **HPE Proactive Select**

A flexible way to purchase services to fit your environment with an extensive menu of HPE Proactive Select event and technical services, such as onsite firmware upgrades, health checks, assessments, and education.

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#### **HPE Education Services**

Comprehensive training for new, as well as experienced, storage administrators designed to expand your skills and keep you up to speed with the latest storage and virtualization technology from HPE Storage.

<https://education.hpe.com/us/en/training/index.html>

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#### **Remote Support Automation**

HPE Automation provides 24x7 coverage, proactive problem prevention, accurate problem diagnosis and faster problem resolution, as well as interactive support portals and tools. This is an integral, and cost-free, part of your HPE support relationship and we are continually investing in additional cutting-edge capabilities to make it better.

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#### **HPE Pointnext - Service and Support**

**Get the most from your HPE Products.** Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services**, focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

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### Service and Support

#### Consume IT on your terms

**HPE GreenLake** 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 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

#### Managed services to run your IT operations

**HPE GreenLake Management Services** provides 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.

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#### Free up resources with Operational Services from HPE Pointnext

HPE delivers services for IT by using proven best practices as well as automation and methodologies that have been tested and refined by HPE experts and artificial intelligence through thousands of deployments globally. Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller. Services are quoted using Hewlett Packard Enterprise order configuration tools.

#### Recommended Services

HPE Pointnext Tech Care.

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care 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 Pointnext Tech Care has been reimaged from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2 hour response time. Essential which provides a 15 minute response time 24x7 for most enterprise level customers, and Critical which includes a 6 hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

#### HPE Pointnext Complete Care

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care 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

<https://www.hpe.com/services/complecare>

## Service and Support

### For more information

- <http://www.hpe.com/services>
- <https://www.hpe.com/us/en/services/operational.html>

To learn more on HPE Storage Services, please contact your Hewlett Packard Enterprise sales representative or Hewlett Packard Enterprise 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>

HPE Support 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 HPE Support Services at <https://ssc.hpe.com/portal/site/ssc/>
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## Parts and Materials

Hewlett Packard Enterprise 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.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

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### Configuration Information

#### Step 1: Base Configuration

Description	SKU
<b>HPE D3610 Enclosure</b>	
HPE D3610 Enclosure	Q1J09A
<b>Notes:</b> Gen10 branded D3000 enclosure for use with Gen10/Gen10+ ProLiant servers	
<b>HPE D3610 SAS Dual Port MDL drives bundles</b>	
HPE D3610 w/12 4TB 12G SAS 7.2K LFF (3.5in) Midline Smart Carrier HDD 48TB Bundle	Q1J11A
HPE D3610 w/12 6TB 12G SAS 7.2K LFF (3.5in) Midline Smart Carrier HDD 72TB Bundle	Q1J12A
HPE D3610 w/12 8TB 12G SAS 7.2K LFF (3.5in) Midline Smart Carrier HDD 96TB Bundle	Q1J13A
HPE D3610 w/12 10TB 12G SAS 7.2K LFF (3.5in) Midline Smart Carrier HDD 120TB Bundle	Q1J14A
<b>HPE D3710 Enclosure</b>	
HPE D3710 Enclosure	Q1J10A
<b>Notes:</b> Gen10 branded D3000 enclosure for use with Gen10/Gen10+ ProLiant servers.	
<b>HPE D3710 SAS Dual Port Drive Bundles</b>	
HPE D3710 w/25 600GB 12G SAS 10K SFF (2.5in) Enterprise Smart Carrier HDD 15TB Bundle	Q1J15A
HPE D3710 w/25 1.2TB 12G SAS 10K SFF (2.5in) Enterprise Smart Carrier HDD 30TB Bundle	Q1J17A
HPE D3710 w/25 1.8TB 12G SAS 10K SFF (2.5in) Enterprise Smart Carrier HDD 45TB Bundle	Q1J18A
HPE D3710 w/25 1TB 6G SAS 7.2K SFF (2.5in) Midline Smart Carrier HDD 25TB Bundle	Q1J19A
<b>Notes:</b> HPE SKU name in some systems incorrectly indicates that these bundles are 10K drives. Both bundles are shipped with 7.2K SFF drives.	
HPE D3710 w/25 2TB 12G SAS 7.2K SFF (2.5in) Midline Smart Carrier HDD 50TB Bundle	Q1J20A
<b>Notes:</b> HPE SKU name in some systems incorrectly indicates that these bundles are 10K drives. Both bundles are shipped with 7.2K SFF drives.	

#### Configure to Order Program Information

The HPE D3000 models and options may or may not be factory installed in a rack with add-on controllers, and hard drives. The D3000 enclosures may be integrated with ProLiant servers or as standalone storage.

Model	Model Description	SKU
HPE D3610	HPE D3610 Enclosure	Q1J09A-#0D1
HPE D3710	HPE D3710 Enclosure	Q1J10A-#0D1

#### Step 2: Array Controllers

##### Smart Array Controllers Supported

Description	SKU
<b>Gen10/Gen10+ HPE ProLiant Servers - only supported with D3610/D3710 Enclosures</b>	
HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller	804405-B21

### Configuration Information

HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller 804398-B21

**Notes:**

Firmware version 2.0 or higher required on the listed Smart Array Controllers.

Up to eight (8) D3610 can be cascaded for a total of 96 drives.

Up to eight (8) D3710 can be cascaded for a total of 200 drives.

### Step 3: Choose Hard Drives and Solid State Drives

#### HPE D3610 Enclosures - Large Form Factor (LFF)

##### 7.2K SAS Midline LFF (3.5in) Hard Disk Drives

HPE 20TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD P53552-K21

HPE 18TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD P37664-K21

HPE 16TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD P23863-K21

HPE 14TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD P09153-K21

HPE 12TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD 881779-K21

HPE 10TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty 512e ISE Multi Vendor HDD P53558-K21

HPE 10TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD 857644-K21

HPE 8TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty 512e Multi Vendor HDD 819201-K21

HPE 6TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty 512e Multi Vendor HDD 861754-K21

HPE 4TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD 872487-K21

HPE 2TB SAS 12G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD 872485-K21

##### 7.2K SATA LFF (3.5in) Hard Disk Drives

HPE 20TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD P53555-K21

HPE 18TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e ISE Multi Vendor HDD P37673-K21

HPE 16TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD P23957-K21

HPE 14TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD P09163-K21

HPE 12TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD 881785-K21

HPE 10TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty 512e ISE Multi Vendor HDD P53559-K21

HPE 10TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Helium 512e Multi Vendor HDD 857648-K21

HPE 8TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty 512e Multi Vendor HDD 819203-K21

### Configuration Information

HPE 6TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty 512e Multi Vendor HDD	861750-K21
HPE 4TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD	872491-K21
HPE 2TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD	872489-K21
HPE 1TB SATA 6G Business Critical 7.2K LFF SC 1-year Warranty Multi Vendor HDD	861691-K21

### Large Form Factor Solid State Drives

#### SAS Mixed Use LFF (3.5in) Solid State Drive

HPE 1.92TB SAS 12G Mixed Use LFF SCC Value SAS Multi Vendor SSD	P37013-K21
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### Description

### SKU

#### HPE D3710 - Small Form Factor (SFF)

##### 10K SAS SFF (2.5in) Hard Disk Drives

HPE 2.4TB SAS 12G Mission Critical 10K SFF SC 3-year Warranty 512e Multi Vendor HDD	881457-K21
HPE 1.8TB SAS 12G Mission Critical 10K SFF SC 3-year Warranty 512e Multi Vendor HDD	872481-K21
HPE 1.2TB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	872479-K21
HPE 600GB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	872477-K21
HPE 300GB SAS 12G Mission Critical 10K SFF SC 3-year Warranty Multi Vendor HDD	872475-K21

##### 15K SAS SFF (2.5in) Hard Disk Drives

HPE 900GB SAS 12G Mission Critical 15K SFF SC 3-year Warranty Multi Vendor HDD	870759-K21
HPE 600GB SAS 12G Mission Critical 15K SFF SC 3-year Warranty Multi Vendor HDD	870757-K21
HPE 300GB SAS 12G Mission Critical 15K SFF SC 3-year Warranty Multi Vendor HDD	870753-K21

##### 7.2K SAS Midline SFF (2.5in) Hard Disk Drives

HPE 2TB SAS 12G Business Critical 7.2K SFF SC 1-year Warranty 512e HDD	765466-K21
HPE 1TB SAS 12G Business Critical 7.2K SFF SC 1-year Warranty HDD	832514-K21

##### 7.2K SATA Midline SFF (2.5in) Hard Disk Drives

HPE 2TB SATA 6G Business Critical 7.2K SFF SC 1-year Warranty 512e HDD	765455-K21
HPE 1TB SATA 6G Business Critical 7.2K SFF SC 1-year Warranty HDD	655710-K21

**Notes:** SATA drives are single ported and therefore do not have a fail-over path intrinsic to their design. Only Dual Port (DP) SAS drives will work in the Dual Domain environment.

#### Small Form Factor 12G SAS Solid State Drives

##### SAS Mixed Use SFF (2.5in) Solid State Drives

HPE 6.4TB SAS 12G Mixed Use SFF SC Multi Vendor SSD	P49056-K21
HPE 3.84TB SAS 12G Mixed Use SFF SC Value SAS Multi Vendor SSD	P37017-K21
HPE 3.2TB SAS 12G Mixed Use SFF SC Multi Vendor SSD	P49052-K21
HPE 1.92TB SAS 12G Mixed Use SFF SC Value SAS Multi Vendor SSD	P37011-K21
HPE 1.6TB SAS 12G Mixed Use SFF SC Multi Vendor SSD	P49048-K21
HPE 960GB SAS 12G Mixed Use SFF SC Value SAS Multi Vendor SSD	P37005-K21
HPE 800GB SAS 12G Mixed Use SFF SC Multi Vendor SSD	P49046-K21

##### SAS Read Intensive SFF (2.5in) Solid State Drives

HPE 15.36TB SAS 12G Read Intensive SFF SC Multi Vendor SSD	P49044-K21
HPE 7.68TB SAS 12G Read Intensive SFF SC Multi Vendor SSD	P49039-K21
HPE 7.68TB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD	P37003-K21
HPE 3.84TB SAS 12G Read Intensive SFF SC Multi Vendor SSD	P49034-K21



### Configuration Information

HPE 3.84TB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD	P37001-K21
HPE 1.92TB SAS 12G Read Intensive SFF SC Multi Vendor SSD	P49030-K21
HPE 1.92TB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD	P36999-K21
HPE 960GB SAS 12G Read Intensive SFF SC Multi Vendor SSD	P49028-K21
HPE 960GB SAS 12G Read Intensive SFF SC Value SAS Multi Vendor SSD	P36997-K21

### Description

### SKU

#### SAS Write Intensive SFF (2.5in) Solid State Drives

HPE 1.6TB SAS 12G Write Intensive SFF SC PM6 SSD	P26376-K21
HPE 800GB SAS 12G Write Intensive SFF SC PM6 SSD	P26372-K21
HPE 400GB SAS 12G Write Intensive SFF SC PM6 SSD	P26295-K21

#### Notes:

Number of drives is limited to twenty five (25) per controller.

SAS Solid State drives are dual path and dual domain.

Cascading is supported in both single and dual domain environments.

#### Small Form Factor 6G SATA Solid State Drives

##### SATA Mixed Use SFF (2.5in) Solid State Drives

HPE 3.84TB SATA 6G Mixed Use SFF SC S4620 SSD	P47326-K21
HPE 1.92TB SATA 6G Mixed Use SFF SC S4620 SSD	P47325-K21
HPE 1.92TB SATA 6G Mixed Use SFF SC PM897 SSD	P47816-K21
HPE 960GB SATA 6G Mixed Use SFF SC PM897 SSD	P47815-K21
HPE 960GB SATA 6G Mixed Use LFF SCC Multi Vendor SSD	P47419-K21
HPE 480GB SATA 6G Mixed Use SFF SC S4620 SSD	P47323-K21
HPE 480GB SATA 6G Mixed Use SFF SC PM897 SSD	P47814-K21

##### SATA Read Intensive- SFF (2.5in) Solid State Drives

HPE 3.84TB SATA 6G Read Intensive SFF SC S4520 SSD	P47321-K21
HPE 3.84TB SATA 6G Read Intensive SFF SC PM893 SSD	P47813-K21
HPE 1.92TB SATA 6G Read Intensive SFF SC S4520 SSD	P47319-K21
HPE 1.9TB SATA 6G Read Intensive SFF SC PM893 SSD	P47812-K21
HPE 960GB SATA 6G Read Intensive SFF SC PM893 SSD	P47811-K21
HPE 480GB SATA 6G Read Intensive SFF SC PM893 SSD	P47810-K21
HPE 480GB SATA 6G Read Intensive LFF SCC Multi Vendor SSD	P47807-K21

### Step 4: Choose Rack Option

Refer to the HPE Infrastructure products page for more information on HPE racks and rack options:

<https://www.hpe.com/us/en/integrated-systems/rack-power-cooling.html>

### Step 5: Choose Cables

#### Cable Options

**Cables to be used for connecting D3610/D3710 with the Smart Array E208e, P408e Controllers (HD connector)**

HPE External 1.0m (3ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	716195-B21
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### Configuration Information

HPE External 2.0m (6ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	716197-B21
HPE External 4.0m (13ft) Mini-SAS HD 4x to Mini-SAS HD 4x Cable	716199-B21

**Notes:** #OD1 will appear after this part number on your sales order if factory integration is indicated.

### Power Cord Options

If customers require a power cord other than the included PDU style cords, they can check the power cord matrix for the appropriate SKU. See the following power cord matrix for details

<https://buy.hpe.com/us/en/options/power-cables-power-cords/power-connections/power-connections/hpe-power-cords/p/5326473>.

**Notes:** An optional longer 2meter PDU power cable (C14 to C13 style connector) for customers who would like additional length for connections to existing power distribution modules located on the right side of the rack. This is purely optional as the included .7meter power cables will also reach the right sides of the rack. (D3710 power supplies are on the left side of the enclosures). If desired, the quantity to order is 1 AF573A HPE RDNT 2m,10A, C13-C14 JMPR CORD.

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### Technical Specifications

#### System Architecture

<b>LED Indicators for HDDs</b>	HPE Smart Carrier Drives		
<b>LED Indicators on Front Panel</b>	Bi-color green/amber for health/fault		
	Blue for UID		
	Heartbeat LED		
	Fault LED		
<b>LED Indicators on Rear Panel</b>	UID button/LED		
	I/O Module LED (2) identify/On/Fault; Port (2) Link good/ link fault		
	Heartbeat LED		
	Fault LED		
	Fan LED		
<b>Host Interface</b>	Power supply LED		
<b>Maximum Number of Drives</b>	8 x wide SAS 12Gb/s ports		
<b>Acoustics Noise</b>	Up to 12 3.5 inch (D3610) or 25 2.5 inch (D3710) SAS or SATA drives		
	Up to 25 2.5 inch (Solid State Drives per controller)		
	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.		
	<b>Idle Acoustic Noise (sound power)</b>	LWAd= 7.0 B	
	<b>Idle Acoustic Noise (sound pressure)</b>	LpAm - 53 dBA	
	<b>Operating Acoustic Noise (sound power)</b>	LWAd= 7.0 B	
<b>Operating Acoustic Noise (sound pressure)</b>	LpAm - 53 dBA		
<b>Temperature Range</b>	<b>Operating</b>	50° to 104° F (10° to 40° C)	
	<b>Shipping</b>	-22° to 149° F (-30° to 65° C)	
<b>Relative Humidity</b>	<b>Notes:</b> Rated 1°C per 1000 feet of elevation to 10,000 ft.		
	<b>Operating</b>	10% to 90%	
<b>Maximum wet bulb temperature</b>	<b>Non-operating</b>	0% to 95%	
	<b>Long-term storage (operating)</b>	82.4° F (28° C)	
	<b>Short-term storage (non-operating)</b>	101.6° F (38.7° C)	
<b>Input Power Requirements</b>	<b>Rated Input Voltage</b>	100 to 240 VAC (Common- slot Power Supply)	
	<b>Rated Input Frequency</b>	50 to 60 Hz (Common-slot Power Supply)	

### Technical Specifications

	<b>Rated Input Current</b>	9A/6A
	<b>Input Power max</b>	1200W
<b>Heat Dissipation (maximum)</b>	1331/Btu/hr.1160.Btu/hr <b>Notes:</b> standard conversion from Watts to Btu/hr = 3.413 Btu/hr per Watt.	

<b>Upgradeable Firmware</b>	Yes, Offline only. Firmware updates available through hpe.com	
<b>Disk Drives and Enclosure Protocol Support</b>	HPE 3.5 inch (D3610) or 2.5 inch (D3710) SAS 6/12Gb/s	
<b>I/O Module</b>	<b>Connector Type</b>	IPass (mini-SAS)
	<b>Number of Ports</b>	Two (one IN, other is OUT)
	<b>Bandwidth</b>	SAS-3 (12Gb/s)
	<b>Protocols supported</b>	SAS 3.0
<b>HPE D3610/ Enclosure</b>	<b>2U Rack Form Factor</b>	Large Form Factor
	<b>Dimensions (HxWxD)</b>	3.44" x 17.64" x 23.54" in (8.7 x 44.8 x 59.8 cm )
	<b>Weight (base unit)</b>	38 lb (17.2 kg)
	<b>Weight (with all LFF drives)</b>	60 lb (27.2 kg)
<b>HPE D3710 Enclosure</b>	<b>2U Rack Form Factor</b>	Small Form Factor
	<b>Dimensions (HxWxD)</b>	3.44" x 17.64" x 21.48" in (8.7 x 44.8 x 54.6 cm )
	<b>Weight (base unit)</b>	38 lb (17.2 kg)
	<b>Weight (with all SFF drives)</b>	54.90 lb (24.9 kg)
<b>D3610/D3710</b>	<b>Shipping package dimensions</b>	D3610 - 11.13" x 23.75" x 38.12" (LFF) D3710 - 11.13" x 23.75" x 36.12" (SFF)
	<b>Shipping weight (Gross)</b>	78lbs (35.38kg)

### Summary of Changes

Date	Version History	Action	Description of Change
06-Jun-2022	Version 40	Change d	Updated supported HDDs and SSDs
06-Dec-2021	Version 39	Change d	Updated supported HDDs and SSDs
01-Nov-2021	Version 38	Change d	Service and Support and Configuration Information sections were updated
01-Feb-2021	Version 37	Change d	Overview, Standard Features and Configuration Information sections were updated
07-Dec-2020	Version 36	Change d	Overview and Configuration Information sections were updated
03-Aug-2020	Version 35	Change d	Changes made throughout QuickSpecs.
06-Apr-2020	Version 34	Change d	Overview and Configuration Information sections were updated
02-Dec-2019	Version 33	Change d	Configuration Information section was updated.
04-Nov-2019	Version 32	Change d	Removed Obsolete drives and made minor corrections
03-Sep-2019	Version 31	Change d	Added support for 14TB SAS and SATA HDDs
01-Jul-2019	Version 30	Change d	Overview, At a Glance and Service and Support sections were updated.
13-May-2019	Version 29	Change d	SKUs were added in Configuration Information section.
02-Apr-2019	Version 28	Change d	Overview and Configuration Information Section were updated.
05-Mar-2018	Version 27	Change d	The descriptions of Q1J19A and Q1J20A SKUs were updated.
05-Feb-2018	Version 26	Change d	At a Glance section was revised.
04-Dec-2017	Version 25	Change d	Overview, At a Glance, D3000 Enclosure Components, and Configuration Information were revised.
23-Oct-2017	Version 24	Change d	Care Pack naming and Service and Support- Parts and Materials updated.
25-Sept-2017	Version 23	Change d	Changes made throughout QuickSpecs.
07-Aug-2017	Version 22	Change d	Changes made throughout QuickSpecs.
11-Jul-2017	Version 21	Change d	Changed made to the entire document
27-Mar-2017	Version 20	Change d	SKUs added and some other deleted.
28-Nov-2016	Version 19	Change d	Changed made to the entire document
30-Sept-2016	Version 18	Change d	Changes made in the Configuration Section
13-May-2016	Version 17	Change d	Changes made to the Product Highlights and Configuration Info Sections.
23-Oct-2015	Version 16	Change d	Changes made to the Product Highlights and Configuration Information Sections.
02-Oct-2015	Version 15	Change d	Changed made to the Overview and Configuration Information Sections.

### Summary of Changes

04-Sept-2015	Version 14	Change d	Changed the firmware from 2.02 to 1.72
10-Jul-2015	Version 13	Change d	Changed the Step 4 in the Configuration Information Section. SKUs descriptions were updated.
01-Jun-2015	Version 12	Change d	Changes made to the D3000 Enclosure Components, At a Glance, Product Highlights, Configuration and Overview Sections
30-Mar-2015	Version 11	Change d	Changes made to the D3000 Enclosure Components, At a Glance, Product Highlights and Configuration Sections.
13-Feb-2015	Version 10	Added	added the new 12G HDDs, Obsolete SKUs removed and SKUs descriptions updated
12-Dec-2014	Version 9	Change d	Changes made to the Configuration Information section, SKU descriptions were updated, Obsolete SKUs were removed.
01-Dec-2014	Version 8	Change d	Changes made through all QuickSpecs.

Date	Version History	Action	Description of Change
03-Oct-2014	Version 7	Change d	Changes made through all QuickSpecs.
22-Aug-2014	Version 6	Change d	Updated the following: What's new; At a Glance - Affordable, low cost Storage - D3600 maximum storage changed from 48TB to 72TB and 384TB to 576TB; D2000 enclosure components - High Levels of Storage Density, Data Protection and Functionality - changed 48TB to 72TB and 4TB to 6TB; Configuration Information - Step 4 Choose Hard Drives - added 737261-B21, 737394-B21, 765424-B21, 759208-B21, 759210-B21, 759212-B21, 761477-B21, 753874-B21
13-Aug-2014	Version 5	Change d	Formatting Change
16-May-2014	Version 4	Change d	At A Glance and Configuration Information were revised.
18-Apr-2014	Version 3	Change d	Product descriptions were revised.
11-Apr-2014	Version 2	Added	HPE Smart Array P431/4GB FBWC 6GB=2 ports Ext SAS Controller was added to Smart Array Controllers Supported.
01-Mar-2014	Version 1	New	New QuickSpecs

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For hard drives, 1 GB = 1 billion bytes. Actual formatted capacity is less.

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