

HPE Synergy D3940 Storage Module



Overview

Do you need flexible storage resources in your HPE Synergy 12000 Frame?

The HPE Synergy D3940 Storage Module provides a fluid pool of storage resources for the Composable Infrastructure. Additional capacity for compute modules is easily provisioned and intelligently managed with integrated data services for availability and protection. The 40 SFF drive bays per storage module can be populated with 12 G SAS or 6 G SATA drives. Expand up to 4 storage modules in a single Synergy 12000 Frame for a total of 200 drives.

Any drive bay can be zoned to any compute module for efficient use of capacity without fixed ratios. Use HPE

StoreVirtual VSA to create virtualized software-defined storage resources to be among frames. A second HPE Synergy D3940 I/O Adapter provides a redundant path to disks inside the storage module for high data availability. The HPE Synergy D3940 Storage Module and HPE Synergy 12Gb SAS Connection Module are performance optimized in a non-blocking 12Gb/s SAS fabric.

Features

Composable Infrastructure Efficiency and Speed

The HPE Synergy D3940 Storage Module can run anything and is composed with compute resources to meet the demands of a wide range of data workloads.

Now you can move faster to accelerate service delivery by quickly and easily provisioning zoned storage resources within the frame. Pooled storage resources provide the flexibility and performance needed to accommodate a wide range of workloads.

Work efficiently, quickly and confidently to implement changes for zoned storage with one-tool, one-step template-based operations. Changes such as updating firmware are automatically implemented with the infrastructure online significantly reducing errors and delivering real-time compliance.

Flexible Capacity for a Wide Range of Workloads

The HPE Synergy D3940 Storage Module allows disk drives to be flexibly grouped and composed with any Synergy Compute Module or with multiple Compute Modules in the same Synergy Frame.

The ability to mix and match drive types and sizes from an array of Small Form Factor (SFF) drive options provides flexibility to deliver the right balance of performance and capacity for a variety of workloads such as database, collaboration (email/communication), file, Web, and media streaming.

Expand storage capacity easily by adding up to 4 Synergy D3940 Storage Modules per HPE Synergy Frame, offering up to 160 drives which equates to 16 SFF drives per rack unit.

The Synergy D3940 Storage Module is configurable as ultra-dense direct attached zoned storage or can be deployed as flexible scale-out software defined shared storage when virtualized and provisioned by StoreVirtual VSA.

High Performance, Highly Available Composable Storage

The HPE Synergy D3940 Storage Module provides a non-blocking 12 Gb SAS fabric from end-to-end which enables full utilization of flash storage for workloads requiring superb I/O performance.

Forty Small Form Factor (SFF) hot-plug SAS/SATA drive bays per storage module can provide a total of up to 160 spindles to be zoned as needed to any or multiple Compute Modules within a single HPE Synergy Frame.

The Synergy D3940 Storage Module can be configured with single or dual I/O adapters in each Storage Module and single or dual HPE Synergy 12 G SAS Connection Modules in each HPE Synergy 12000 Frame for increased availability.



Technical specifications

HPE Synergy D3940 Storage Module

Drive description

Supports up to 40 SFF 12 G SAS or 6 G SATA HDDs or SSDs

SAS HDDs, drive sizes up to 2TB

SATA HDDs, drive sizes up to 2TB

Solid State Drives, drives up to 3.84TB

Maximum capacity per storage module is 153.6 TB (raw)

Connection

Single or dual Synergy 12 G SAS Connection Modules in each frame with storage modules Each storage module comes standard with a single I/O Adapter and can be configured with a second I/O Adapter for redundancy One Smart Array P542D controller is required in each compute module connecting to the storage module

Enclosures

Synergy 12000 Frame

Zoning

Any drive or logical drive group can be composed with any compute module in the frame.



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

HPE Services

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

Consulting services

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

Managed services

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

Operational services

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

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

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

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

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

HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model, on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them [here](#).

Explore **HPE GreenLake**



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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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

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