Hewlett Packard Enterprise

HPE SYNERGY D3940 STORAGE MODULE

Synergy Storage Modules

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 12 Gb/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
Form factor chassis	Populates two half-height module bays in a Synergy frame
Zoning	Any drive or logical drive group can be composed with any compute module in the frame.

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Operational Services from HPE Pointnext Services

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- **HPE Proactive Care** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). Read more

- **HPE Foundation Care** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. Read more.

Other related services

Defective Media Retention is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

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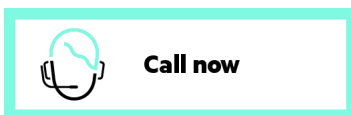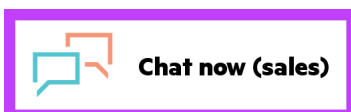
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