

HPE Synergy 12000 Frame



What's new

- Supports HPE Synergy 480 and HPE 660 Gen10 Compute Modules.
- A guided installation experience is provided for setting up HPE Synergy.
- Adds 2650W HVDC hot plug power supplies as an infrastructure option.
- Product is now offered to comply with the Trade Agreements Act (TAA).

Overview

Does your IT infrastructure efficiently combine compute, storage, and networking/fabric resources with intelligence and security to meet your needs of today and tomorrow?

HPE Synergy 12000 Frames are uniquely architected as Composable Infrastructure (CI) to match the powerful 'infrastructure-as-code' capabilities of the HPE intelligent software architecture. Flexible access to compute, storage, and fabric resources allows for use and re-purposing. Linking multiple HPE Synergy Frames efficiently scales the infrastructure with a dedicated single view of the entire management network.

Creating multiple composable domains in the infrastructure can efficiently deliver available resources to the business. HPE Synergy Frames reduce complexity by using intelligent auto-discovery to find all available resources to accelerate workload

deployments. This drives IT efficiency as the business grows and delivers balanced performance across resources to increase solution effectiveness.

Features

Optimize Applications and Service-levels

The HPE Synergy 12000 Frame is architected as a Composable Infrastructure (CI), which matches the flexible use of compute, storage, and network/fabric resources to an intelligent HPE management software architecture. These capabilities are presented as 'infrastructure as code' to the user.

The combination of hardware flexibility with embedded intelligence enables auto-discovery of all available resources for quick deployment and use. Management of hardware by profiles defined in software allows fast re-purposing of compute, storage and fabric resources to meet workload demands.

Operations which use a single frame can scale to large environments of multiple units. Intelligent frame link technology provides easy scaling from a single HPE Synergy 12000 Frame to multiple frames by using HPE Frame Link Modules and HPE Synergy Composer (powered by HPE OneView).

Move Faster by Accelerating Application and Service Delivery

The HPE Synergy 12000 Frame provides auto-discovery for fast deployments. The flexible design also allows you to custom-fit multiple types of compute, storage, and fabric components in a variety of configurations to meet your workload requirements.

Hardware installations are simplified by a simple step-by-step guided process and the intelligent HPE Synergy 12000 Frame design, which reduces the time to setup, debug, and check inventory during installation. A limited-access mode also guides technicians to correct installation errors.

High infrastructure bandwidth (over 16 Tb/s) helps you to perform well on today's data-intensive applications and on next-generation, mobile-first, cloud-native applications. The design also utilizes a true passive mid-plane to assure highly-reliable operation. And it's photonics ready!

Work More Efficiently by Reducing Operational Effort and Cost

The HPE Synergy 12000 Frame monitors status for operations by automatically reporting resources, installation information, and health status of the system or domain. Status is updated by the HPE Synergy Composer management appliance (which is powered by HPE OneView) via HPE Frame Link Modules.

Updates, from a tested release set of component software, are securely handled using a dedicated data network (separate from the management network) with redundant path configurations. HPE Synergy out-of-band management provides a dedicated 10Gbps bandwidth for additional security and control.

The HPE Synergy 12000 Frame will fit in data centers with AC or DC power operations. The 10U form factor of the HPE Synergy Frame also fits in most standard racks and connects to industry standard power feeds for quick and easy installation.

Unlock Value by Increasing Productivity and Control

The HPE Synergy 12000 Frame provides fully air-gapped management (control) and data (production) networks for improved data efficiency and for management security. Separation of data and management traffic helps prevent denial-of-service attacks and increases security control.

A single management domain is able to control many HPE Synergy Frames, and still have it presented as one. This can result in significantly fewer management uplink connections in larger environments.

Every HPE Synergy 12000 Frame includes an automated cooling system with capacity to cool both today's components and tomorrow's hotter versions. The

HPE Synergy design has cooling capacity with headroom so as to not limit component operation and to keep your workloads operating at peak utilization.

Technical specifications

HPE Synergy 12000 Frame

System fan features

10 Fans included on all models

Management features

HPE Synergy Appliances
Synergy Composer (OneView), Synergy Image Streamer, Frame Link Module-multi-frame link

Power availability

Refer to QuickSpecs

Warranty

3/3/3 - The warranty includes three years of parts, three years of labor, three years of onsite support coverage. Additional information regarding worldwide limited warranty and technical support is available at: <http://h18004.www1.hpe.com/products/servers/platforms/warranty/index.html>. Additionally, HPE support and service coverage for your product that can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to the HPE website at <http://www.hpe.com/support>.

[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.

Lifecycle Services

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

HPE Education Services

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

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](#).

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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.

Image may differ from the actual product
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