

HPE Synergy 12000 Frame

Synergy Infrastructure



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
Form factor chassis	The 10U HPE Synergy 12000 Frame easily mounts into the same space as existing c-Class solutions today and uses the same datacenter resources for quick and easy installation.
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 .

Additional resources

QuickSpecs

[hpe.com/h20195/v2/GetDocument.aspx?](http://hpe.com/h20195/v2/GetDocument.aspx?docname=c04815113)

[docname=c04815113](http://hpe.com/h20195/v2/GetDocument.aspx?docname=c04815113)

HPE Pointnext

HPE Pointnext leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.

Operational Services


- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

Call for availability:

Call to action url



Make the right purchase decision. Click here to chat with our presales specialists.



Sign up for updates



© Copyright 2018 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Image may differ from actual product
PSN1008615198USEN, September 23, 2018.