

HPE Synergy 480 Gen10 Configure-to-order Premium Compute Module (871942-B21)

What's new

- HPE continues to enhance our 2nd Generation Intel® Xeon® Scalable Family with a set of Refresh R-processors with new frequencies, performance and cores. See the SY480 Gen10 QuickSpecs for details.
- New drive solutions.

Overview

Are your data centers struggling to consolidate large workloads without compromising performance? With HPE Synergy 480 Gen10 Compute Module, gain operational efficiency and control, and deploy IT resources quickly for any workload through a single interface. HPE Synergy is a powerful software-defined solution. HPE Synergy Gen10 Composable Compute resources create pools of flexible compute capacity that can be configured almost instantly to rapidly provision infrastructure for a broad range of applications. The HPE Synergy 480 Gen10 Compute Module delivers an efficient and flexible two-socket workhorse to support most demanding workloads. Powered by Intel® Xeon® Scalable Family of processors, up to 4.5 TB DDR4, more storage capacity and controllers and a variety of GPU options within a composable architecture. HPE Synergy 480 Gen10 Compute Module is the ideal platform for general-purpose enterprise workload performance now and in the future.

Features

Highly Flexible - Composable/Software Defined Infrastructure

The HPE Synergy 480 Gen10 Compute Module delivers more choice for performance, capacity, efficiency, and flexibility to power most workloads with support for the full range of 2 Generations of Intel® Xeon® Scalable Family processors.

Composable compute resource that is intelligently auto-discovered, provisioned easily and managed seamlessly. Synergy Composability simplifies IT operations and reduces overprovisioning costs.

Integrated OneView - RESTful API with an ecosystem of composable infrastructure partners provides broad options for 3rd party integration, protecting key existing investments.

Ideal Flexibility and Performance for just about any of your IT workloads.

The HPE Synergy 480 Gen10 Compute Module provides a performance increase over previous generation with a choice of 2 generations of Intel Scalable Family processors.

Increase in memory speeds with a wide range of memory sizes for Registered and Load Reduced DDR4 DIMMs along with Persistent Memory.

Faster compute to network connectivity speeds gets your data where it's needed faster.

Enhanced support for concurrent knowledge workers with multiple HPE GPU options and expansion modules to drive larger scale VDI workloads.

Flexible and Secure

HPE Synergy 480 Gen10 Compute Module provides flexible enterprise solutions that allow IT to quickly and confidently implement changes through intelligent template-based operations, reducing downtime and errors from manual operations.

Unmatched threat protection with HPE Silicon Root of Trust and unique chain of trust architecture to protect, detect and recover firmware.

System tuning to select cores, smooth performance and match customer workloads.

Up to 3 mezzanine options with I/O flexibility for redundancy in high availability use case requirements.

Up to 200 zoned drives per storage controller and Hybrid RAID/HBA Smart Array to make your controller investment more effective.



Technical specifications

HPE Synergy 480 Gen10 Configure-to-order Premium Compute Module

Product Number	871942-B21
Processor number	Up to 2 with Intel processor choice
Processor core available	28 26 24 18 16 14 12 10 8 6 and 4 core solutions available
Processor cache	Up to 38.5 MB
Processor speed	Up to 3.8 GHz Frequency
Form factor (fully configured)	5U Compute/10U Frame
Power supply type	6, frame-based
Expansion slots	3 Mezzanine slots for multiple storage and networking solutions (details in QuickSpecs).
Memory type	Choice of HPE DDR4-2666 or 2933 SmartMemory available on select processors
Drive description	2 SFF SAS/SATA or, 2 SFF NVMe (optional) or, M.2 SATA or, 2 Dual uFF, hot-plug, depending on model.
Network controller	Synergy 6810C 25/50Gb Converged Network Adapter 2 Ports per controller or Synergy 3820C 10/20Gb Converged Network Adapter or Synergy 2820C 10Gb Converged Network Adapter There are more options. For all controller options, please see the QuickSpecs
Compute nodes	* CTO, Premium Backplane, 2 NVMe drive bays, 3 mezzanine slots * Option for Mezzanine Smart Array and cable to drive SATA/SAS solutions on front drive cage or internal JBOD. * Processor is selectable Intel Xeon Scalable Family Gen 1 or Gen 2 * Memory is optional up to 1, 2, or 4.5TB depending on processors selected * Drives are optional depending on controller selected * Mezzanine cards are optional for customer need(networking or storage)
Processor name	Intel Xeon Scalable Family processor - Generation 1 or 2
Memory, standard	Optional Memory: 2666 or 2933, based on Intel Gen1 or Gen2 processors
Security	TPM and HPE Silicon Root of Trust
Included hard drives	None - Optional up to 2 NVMe, SATA/SAS, uFF or M.2
Infrastructure management	HPE Synergy Composer powered by HPE OneView and HPE iLO Advanced (standard) with all HPE Synergy solutions.
Product dimensions (metric)	Dimensions: (H x W x D) 6.35 x 21.4 x 60.0 cm or 2.5 x 8.43 x 23.62 in
Weight	Weight: (approximate) 8.16 kg or 18 lb fully configured
Warranty	3/3/3 Server 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: www.hpe.com/services/support . Additional Hewlett Packard Enterprise support and service coverage for your product can be purchased locally. For information on availability of service upgrades and the cost for these service upgrades, refer to www.hpe.com/services/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](#).

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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[PSN1010025894THEN](#), September, 2023.