



# HPE SYNERGY 480 GEN10 COMPUTE MODULE

## Synergy Compute Modules



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## 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 Compute Module

<b>Processor number</b>	Up to 2 with Intel processor choice
<b>Processor core available</b>	28 26 24 18 16 14 12 10 8 6 and 4 core solutions available
<b>Processor cache</b>	Up to 38.5 MB
<b>Processor speed</b>	Up to 3.8 GHz Frequency
<b>Power supply type</b>	6, frame-based
<b>Expansion slots</b>	3 Mezzanine slots for multiple storage and networking solutions (details in QuickSpecs).
<b>Maximum memory</b>	Support for up to 1, 2 or 4.5 TB of Memory (processor dependent) along with Persistent Memory
<b>Memory slots</b>	24 DIMM slots (12 per processor)
<b>Memory type</b>	Choice of HPE DDR4-2666 or 2933 SmartMemory available on select processors
<b>Memory protection features</b>	Advanced ECC Memory Mirroring Mode Memory Online Spare Mode
<b>Drive description</b>	2 SFF SAS/SATA or, 2 SFF NVMe (optional) or, M.2 SATA or, 2 Dual uFF, hot-plug, depending on model.
<b>System fan features</b>	Frame-based
<b>Network controller</b>	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
<b>Warranty</b>	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: <a href="http://www.hpe.com/services/support">www.hpe.com/services/support</a> . 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 <a href="http://www.hpe.com/services/support">www.hpe.com/services/support</a> .



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

## HPE POINTNEXT SERVICES

[HPE Pointnext Services](#) brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

[HPE Pointnext Tech Care](#) provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

[HPE Pointnext Complete Care](#) is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment, and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts.

**HPE Integration and Performance Services** help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

[HPE Education Services](#) delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

## HPE GREENLAKE

[HPE Greenlake](#) is HPE's market-leading IT 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. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

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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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[PSN1010025863TREN](#), May 01, 2022.