

# HPE Synergy 480 Gen10 Plus Compute Module



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## What's new

- Expanding compute capacity and performance by a new design with Intel's 3rd Generation Xeon® Scalable Family.
- M.2 Hardware RAID Boot Option that comes with two 480 GB NVMe drives built-in that can reside with additional front storage options.
- Give yourself a choice of front storage drive options that are selectable at purchase, as well as field upgradable after the sale.
- Improve overall data performance with expanded memory capacities while improving performance with PCIe 4.0

## Overview

With the world's edge expanding in devices, is your data center struggling to consolidate, manage, and analyze large workloads without compromising performance?

HPE Synergy 480 Gen10 Plus Compute Module is a powerful, software-defined solution that gives you a single interface for command, control, and deployment for all IT resources for any workload. Create pools of flexible compute capacity that can be configured almost instantly to rapidly provision infrastructure for a broad range of applications, giving you the flexibility to easily adapt to changing needs. Powered by Intel® Xeon® Scalable Family of processors, upgraded memory, more storage capacity and controllers, and a variety of GPU options within a composable architecture, the HPE Synergy 480 Gen10 Plus

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speeds at the fabric options to reduce bottlenecks.

- PCIe (GPU) Expansion Modules and GPU options support both factory and field installation.

Compute Module delivers performance, efficiency, and flexibility of a 2-socket workhorse to support some of the most demanding workloads.

## Features

### **Highly Flexible Intelligent Solution - HPE Synergy Composable with Software Defined Infrastructure**

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

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

Software Defined Infrastructure with HPE OneView integrated. RESTful API with an ecosystem of composable infrastructure provides broad options for 3rd party integration, protecting key existing investments.

Integrated HPE OneView for simplification of operations and management.

### **One Infrastructure for Any Workload - Ideal Flexibility and Performance for your IT Workloads**

The HPE Synergy 480 Gen10 Plus Compute Module provides performance increase over previous generations with support for the 3rd generation of Intel Scalable Family processors.

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

PCIe 4.0 for improved compute to network connectivity speed gets your data where it's needed faster.

HPE Synergy Expansion Modules and GPU Options for factory or field installations designed to support concurrent knowledge workers and larger scale Analytic or VDI workloads.

### **Flexible and Protected with a Highly Manageable Solution, HPE OneView Integrated**

HPE Synergy 480 Gen10 Plus 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.

Superb 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.

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

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

### **Reduce Cable Clutter**

With HPE Synergy networking designs we can reduce the number of cables within the rack, as well as what extends beyond the rack.



## Technical specifications

## HPE Synergy 480 Gen10 Plus Compute Module

<b>Processor type</b>	Intel® Xeon® Scalable Processor Family Generation 3. Intel® Xeon® Scalable Family processors choice of multiple options in Generation 3 series from 8 to 40 Core in the Model 4300, 5300, 6300 and 8300 series platforms (see HPE Synergy 480 Gen10 Plus Compute Module QuickSpecs for more detail).
<b>Processor number</b>	Up to 2 with Intel® 3rd Gen processor choice
<b>Processor core available</b>	From 4 to 40 Core solutions/options available
<b>Processor cache</b>	Up to 60 MB (processor dependent)
<b>Processor speed</b>	Up to 3.1 GHz Frequency
<b>Form factor (fully configured)</b>	Frame 12000 - 10U, holds up to 12 half-height/half width Synergy 480 Compute Modules
<b>Power supply type</b>	At Frame 12000 level. Six 2650W Platinum Power supplies. 3+3 Redundancy with Frame-based Intelligent Power management solution
<b>Expansion slots</b>	3x PCIe 4.0 Mezzanine slots for DAS Storage, VC ENET and or Fibre Channel solutions (detail in QuickSpecs)
<b>Maximum memory</b>	Support for up to 4 TB/socket of Memory based on a mix of HPE DDR4 up to 3200 MT/s and Intel® Optane® options
<b>Memory slots</b>	32 DIMM slots (16 per processor)
<b>Memory type</b>	Choice of HPE DDR4 SmartMemory up to 3200 MT/s SmartMemory available on select processors
<b>Memory protection features</b>	Advanced ECC Memory Mirroring Mode Memory Online Spare Mode
<b>Drive description</b>	Multiple Drive Cage Options to cover: 2 SFF SAS/SATA or 4 SFF NVMe (with options for 2x NVMe and 2x SAS/SATA) or, Hardware RAID M.2 Boot Option w/ Dual 480 GB M.2 Boot drive included or Blank No Drive Cage for VSAN or M.2 Only solutions.
<b>System fan features</b>	At Frame 12000 Level, 10 Fans included with Frame.
<b>Compute nodes</b>	Half-Height 2 socket compute node
<b>Processor name</b>	Intel® Xeon® Scalable Family Generation 3
<b>Memory, standard</b>	DDR4
<b>Security</b>	HPE Trusted Platform Module 2.0 and HPE Silicon Root of Trust
<b>Included hard drives</b>	Hard Drive Numbering for 2x SAS/SATA or 4x Drive (4xNVMe or 2xSAS/SATA/2xNVMe-cable defined). Drive locations etched on front plate.
<b>Infrastructure management</b>	HPE Synergy Composer powered by HPE OneView and HPE iLO Advanced (standard) with all HPE Synergy solutions
<b>Product dimensions</b>	6.35 H x 21.4 W x 60.0 D cm
<b>Weight</b>	8.16 kg
<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 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.

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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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