

HPE Synergy 660 Gen10 Compute Module

What's new

- Additional customer choice with 14 additional 2nd Generation Intel® Xeon® Scalable Family processors, optimized for speed, virtualization and NFV. See our QuickSpecs for details.
- New, additional drive solutions.

Overview

Are your data centers struggling to consolidate large workloads without compromising performance? Delivering a truly agile and efficient IT infrastructure requires the transformation of traditionally rigid physical systems into flexible physical or virtual resource pools. HPE Synergy 660 Gen10 Composable Compute resources create a pool of flexible compute capacity that can be configured almost instantly to rapidly provision infrastructure for a broad range of applications. The HPE Synergy 660 Gen10 Compute Module delivers higher performance and scalability for your demanding, enterprise data-intensive workloads. The powerful Intel® Xeon® Scalable Family of processors (2 or 4 Socket), broad memory footprint (up to 6 TB of HPE DDR4 memory in 48 DIMM slots) and flexible I/O configuration give your large workloads, such as structured databases and business processing applications, the compute power and memory support they demand.

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 Performance for Scale Up Workloads

The HPE Synergy 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.

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

Flexible and Secure

HPE Synergy 660 Gen10 Compute Module provides superior, enterprise-grade availability that allows IT to quickly and confidently implement changes through template-based 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 create and smooth performance while matching customer workloads.

Up to 6 mezzanine options with enough I/O and redundancy for workloads requiring high availability.

160 Zoned drives per storage controller, in frame, and Hybrid RAID/HBA Smart Array to make your controller investment more effective.



Technical specifications

HPE Synergy 660 Gen10 Compute Module

Processor type	Intel Xeon Scalable
Processor number	2 or 4
Processor core available	28 26 24 22 20 18 16 14 12 10 8 6 or 4 cores per processor
Processor cache	Up to 38.5 Mb
Processor speed	3.6 GHz 3.5 GHz 3.4 GHz 3.2 GHz 3.0 GHz 2.7 GHz 2.6 GHz 2.5 GHz 2.4 GHz 2.3 GHz 2.1 GHz or 2.0 GHz
Form factor (fully configured)	10 U full height, single-wide
Power supply type	(6) Frame-based
Expansion slots	(6) 3x 16 PCIe 3.0 Slots for Mezzanine Options (for detail descriptions reference the QuickSpecs)
Maximum memory	6 TB with 128 GB DIMMs in 48 DIMM slots
Memory slots	48 DIMM slots Maximum
Memory type	HPE DDR4-2666 SmartMemory(Gen1) or HPE DDR4-2933 SmartMemory(Gen2) available
Memory protection features	Advanced ECC Memory Mirroring Mode Memory Online Spare Mode
Drive description	Optional: 0 to 4 SFF SAS/SATA/NVMe SSDs AND/OR up to 8 uFF Flash AND/OR up to 4 internal M.2 drives
System fan features	(6) Frame-based
Compute nodes	HPE Synergy 660 Gen10 Compute Modules
Processor name	2 or 4 selectable: Intel® Xeon® Scalable 8100/8200 series Intel® Xeon® Scalable 6100/6200 series Intel® Xeon® Scalable 5100/5200 series All processors must match.
Memory, standard	Two to forty-eight (48), depending on model.
NVDIMM rank	Single, Dual, Quad and Octal
Security	TPM and iLO5 Root of Trust
Integrated controllers	0 to 4 configurable

Infrastructure management	HPE Synergy Composer powered by HPE OneView 3.1 and iLO Advanced (standard) with all Synergy solutions
Product dimensions (metric)	6.35 x 43.03 x 59.92 cm
Weight	13.75 kg
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](#).

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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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