



Hewlett Packard
Enterprise

HPE SYNERGY 660 GEN10 COMPUTE MODULE

Synergy Compute Modules



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 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 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
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
Minimum dimensions (H x W x D)	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 POINTNEXT

Access expertise at every step of your IT journey with [HPE Pointnext Services](#). [Advisory Services](#) focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our [Professional](#) and [Operational Services](#) help speed up time-to-production and keep your IT stable and reliable.

Operational Services from HPE Pointnext Services

- [HPE Datacenter Care](#) helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- [HPE Proactive Care](#) offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). [Read more](#)
- [HPE Foundation Care](#) helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more.](#)

Other related services

[Defective Media Retention](#) is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

[HPE Service Credits](#) offers a menu of technical services, access additional resources, and specialist skills.

[HPE Education Services](#) provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

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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