



HPE Synergy 660 Gen10 Compute Module

Synergy Compute



What's new

- The most secure server with exclusive HPE Silicon Root of Trust. Protect your applications and assets against downtime associated with hacks and viruses.
- Greater performance and flexibility with Intel Xeon Scalable Family of processors on the HPE Synergy 660 Gen10 architecture.
- Intelligent System Tuning with processor smoothing and workloads matching to improve processor throughput/overall

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 creates 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 up to 8% over previous generation.

- Max memory 6TB (with 128GB DIMMs available 2H17) for larger in-memory database and analytic applications.
- New hybrid Smart Array for both RAID and HBA zoning in a single controller; internal M.2 storage options that add boot flexibility and additional local storage capacity.

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 6TB of HPE DDR4 memory in 48 DIMM slots) and flexible I/O configuration give your large workloads like structured databases and business processing applications the compute power and memory support they demand.

Features

Composable and Software Defined

The HPE Synergy 660 Gen10 Compute Module delivers superior capacity, efficiency, and flexibility to power more demanding workloads with support for the full range of Intel® Xeon® Scalable Family processors in a 2S or 4S form factor

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

RESTful API and integration 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 25% performance increase over previous generation with 2 or 4 processors (up to 205W)

11% increase in memory speeds with a wide range of memory sizes for Register and Load Reduced DDR4 DIMMs

2.5x increase in compute and network connectivity speed gets your data where it's needed faster

Up to 50% performance improvement in random read IOPs in storage controllers

2x the memory capacity and I/O bandwidth of a 2-socket solution for more demanding workloads.

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 Hardware Root of Trust and unique chain of trust architecture to protect, detect and recover firmware

Intelligent System Tuning to smooth performance and match customer workloads

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

Up to 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 or 26 or 24 or 22 or 20 or 18 or 16 or 14 or 12 or 10
Processor speed	3.6GHz
Power supply type	(6) Frame-based
Expansion slots	(6) For detail descriptions reference the QuickSpecs
Maximum memory	6TB with 128GB DIMMs (to be qualified 2H2017) in 48 DIMM slots
Memory slots	48 DIMM slots Maximum
Memory type	DDR4 SmartMemory
Memory protection features	Advanced ECC Memory Mirroring Mode Memory Online Spare Mode
Drive description	(4) SFF SAS/SATA and/or (4) SFF NVMe (optional) SAS/SATA/SSD and/or (8) Dual UFF SATA and/or (4) Module Hot plug drive bays
System fan features	FOR Compute modules
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 .
Infrastructure management	HPE Synergy Composer powered by OneView, iLO
Processor	Intel
Processor family	Intel® Xeon® Scalable 8100 series Intel® Xeon® Scalable 6100 series Intel® Xeon® Scalable 5100 series
Form factor (fully configured)	10U

Additional resources

QuickSpecs

[hpe.com/h20195/v2/GetDocument.aspx?](http://hpe.com/h20195/v2/GetDocument.aspx?docname=a00008522enw)

[docname=a00008522enw](http://hpe.com/h20195/v2/GetDocument.aspx?docname=a00008522enw)

HPE Pointnext

HPE Pointnext leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes—Advisory, Professional, and Operational Services is designed to help evolve and grow today and into the future.

Operational Services

- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalize deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.

Advisory Services includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

Professional Services helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

Call for availability:

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