



**Hewlett Packard**  
Enterprise

# HPE SYNERGY 660 GEN10 CONFIGURE-TO-ORDER PREMIUM BACKPLANE COMPUTE MODULE (871931-B21)

## Synergy Compute Modules



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### 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 Configure-to-order Premium Backplane Compute Module

<b>Product Number</b>	871931-B21
<b>Processor number</b>	2 or 4
<b>Processor core available</b>	28 26 24 22 20 18 16 14 12 10 8 6 or 4 cores per processor
<b>Processor cache</b>	Up to 38.5 Mb
<b>Processor speed</b>	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
<b>Power supply type</b>	(6) Frame-based
<b>Expansion slots</b>	(6) 3x 16 PCIe 3.0 Slots for Mezzanine Options (for detail descriptions reference the QuickSpecs)
<b>Memory type</b>	HPE DDR4-2666 SmartMemory(Gen1) or HPE DDR4-2933 SmartMemory(Gen2) available
<b>Drive description</b>	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
<b>System fan features</b>	10 Frame based
<b>Product Dimensions (metric)</b>	6.35 x 43.03 x 59.92 cm
<b>Weight</b>	13.75 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 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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