



HPE Synergy 680 Gen9 4S-EX Base Compute Module (834481-B21)

Synergy Compute

Overview

Is performance and availability at the right price most important to your business? Does traditional infrastructure make it difficult to reuse or re-purpose resources? Is change in your datacenter especially painful when it comes to mission-critical applications? The HPE Synergy 680 Gen9 Compute Module is part of a Composable Infrastructure (CI) solution that is easily discovered and provisioned in minutes, and can be re-purposed just as simply. The HPE Synergy 680 Gen9 Compute Module delivers mission-critical availability and performance, as well as flexible memory, storage and fabric options in a full-height double-wide, 4-socket form factor. Designed to support demanding enterprise data-intensive workloads, this module is powered by the Intel® Xeon® processors, supports up to 12 TB of DDR4 memory, HPE DDR4 memory, has flexible storage controller options, ten I/O connectors, and is part of a pool of flexible compute capacity within a Composable Infrastructure.

Features

Run Anything

The HPE Synergy 680 Gen9 Compute Module supports up to 12 TB of DDR4 memory and Intel Xeon processors in a 4S full-height double-wide form factor for demanding workloads like business processing, decision support, IT infrastructure, and other mission-critical workloads with large memory demands.

The flexible design supports stateless configuration without drives, up to four SFF or eight uFF drives, NVMe workload acceleration, and direct attach composable storage to match demanding workload, data protection, and data

security requirements.

Ten mezzanine connectors with simplified I/O architecture for expandability and a wide range of choice of storage and fabric choices.

Move Faster

The HPE Synergy 680 Gen9 Compute Module provides a composable compute resource that can be self-discovered, quickly provisioned, easily managed, and seamlessly redeployed to deliver the right compute capacity for changing workload needs.

HPE Synergy template-based provisioning enables fast time to service with a single point for defining compute module state, pooled storage, network connectivity, and boot image.

Work Efficiently

The HPE Synergy 680 Gen9 Compute Module is part of HPE Synergy Composable Infrastructure, so changes such as updating firmware, adding storage, or modifying network connectivity are implemented automatically through software defined intelligence to reduce downtime, manual operations, and errors.

Technical specifications**HPE Synergy 680 Gen9 4S-EX Base Compute Module**

Product Number (SKU)	834481-B21
Processor number	4
Processor core available	18
Processor cache	45 MB L3
Processor speed	2.2 GHz
Form factor chassis	Compute module
Power supply type	Enclosure-based
Expansion slots	5 PCIe, for detailed descriptions reference the QuickSpecs
Maximum memory	256GB
Memory slots	96 DIMM slots
Memory type	DDR4 SmartMemory
Memory protection features	Advanced ECC Memory Online Spare Mode DIMM Isolation Memory Lock Step Mode
Network controller	Synergy 3820C 10/20Gb Converged Network Adapter 2 Ports per controller
Storage controller	Smart Array P240nr or H240nr Host Bus Adapter Depending on configuration
Warranty	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: http://h20564.www2.hp.com/hpsc/wc/public/home . 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.hp.com/services/support .

Additional resources**QuickSpecs**

hpe.com/h20195/v2/GetDocument.aspx?docname=c04866541

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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 you evolve and grow today and into the future.

Operational Services

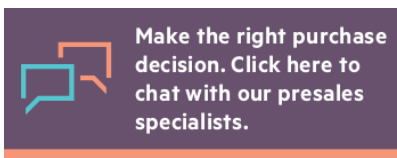
- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalise deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **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.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.

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 to action:

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