

HPE Synergy 480 Gen10 Plus Base Chassis Configure-to-order Compute Module (P22139-B21)

Synergy Compute Modules



What's new

- Expanding compute capacity and performance by a new design with Intel's 3rd Generation Xeon® Scalable Family.
- M.2 Hardware RAID Boot Option that comes with two 480 GB NVMe drives built-in that can reside with additional front storage options.
- Give yourself a choice of front storage drive options that are selectable at purchase, as well as field upgradable after the sale.

Overview

With the world's edge expanding in devices, is your data center struggling to consolidate, manage, and analyze large workloads without compromising performance?

HPE Synergy 480 Gen10 Plus Compute Module is a powerful, software-defined solution that gives you a single interface for command, control, and deployment for all IT resources for any workload. Create pools of flexible compute capacity that can be configured almost instantly to rapidly provision infrastructure for a broad range of applications, giving you the flexibility to easily adapt to changing needs. Powered by Intel® Xeon®

- Improve overall data performance with expanded memory capacities while improving performance with PCIe 4.0 speeds at the fabric options to reduce bottlenecks.
- PCIe (GPU) Expansion Modules and GPU options support both factory and field installation.

Scalable Family of processors, upgraded memory, more storage capacity and controllers, and a variety of GPU options within a composable architecture, the HPE Synergy 480 Gen10 Plus Compute Module delivers performance, efficiency, and flexibility of a 2-socket workhorse to support some of the most demanding workloads.

Features

Highly Flexible Intelligent Solution - HPE Synergy Composable with Software Defined Infrastructure

The HPE Synergy 480 Gen10 Plus Compute Module delivers more choice for performance, capacity, efficiency, and flexibility to power most workloads with support for the full range of the Third Generation of Intel® Xeon® Scalable Family processors before them.

Composable compute resource is intelligently auto-discovered, provisioned easily, and managed seamlessly. HPE Synergy composability simplifies IT operations and reduces overprovisioning costs.

Software Defined Infrastructure with HPE OneView integrated. RESTful API with an ecosystem of composable infrastructure provides broad options for 3rd party integration, protecting key existing investments.

Integrated HPE OneView for simplification of operations and management.

One Infrastructure for Any Workload - Ideal Flexibility and Performance for your IT Workloads

The HPE Synergy 480 Gen10 Plus Compute Module provides performance increase over previous generations with support for the 3rd generation of Intel Scalable Family processors.

Increase memory speeds with a wide range of memory sizes for Registered and Load-Reduced HPE DDR4 SmartMemory DIMMs along with HPE Persistent Memory.

PCIe 4.0 for improved compute to network connectivity speed gets your data where it's needed faster.

HPE Synergy Expansion Modules and GPU Options for factory or field installations designed to support concurrent knowledge workers and larger scale Analytic or VDI workloads.

Flexible and Protected with a Highly Manageable Solution, HPE OneView Integrated

HPE Synergy 480 Gen10 Plus Compute Module provides flexible enterprise solutions that allow IT to quickly and confidently implement changes through intelligent template-based operations, reducing downtime and errors from manual operations.

Superb threat protection with HPE Silicon Root of Trust and unique chain of trust architecture to protect, detect, and recover firmware.

System tuning to select cores, smooth performance, and match customer workloads.

Provides up to 3 mezzanine options with I/O flexibility for redundancy in high availability use case requirements.

Features up to 200 zoned drives per storage controller and Hybrid RAID/HBA Smart Array to make your controller investment more effective.

Reduce Cable Clutter

With HPE Synergy networking designs we can reduce the number of cables within the rack, as well as what extends beyond the rack.



Technical specifications

HPE Synergy 480 Gen10 Plus Base Chassis Configure-to-order Compute Module

Product Number	P22139-B21
Processor number	Up to 2 with Intel® 3rd Gen processor choice. Speeds from 1.8 to 3.1 GHz for Cores 4-40 with 12-60MB L3 cache
Processor core available	Intel® 3rd Generation - from 4 to 40 Core options available dependent on processor selected.
Processor cache	12-60MB L3 cache
Processor speed	Speed varies depending on choice of processor or targeted categories. Speeds from 1.8 to 3.1 GHz. Review your options for best choice for your workloads.
Power supply type	At Frame 12000 level. Six 2650W Platinum Power supplies. 3+3 Redundancy with Frame-based Intelligent Power management solution
Expansion slots	3x PCIe 4.0 Mezzanine slots for DAS Storage, VC ENET and or Fibre Cahnnel solutions (detail in QuickSpecs)
Memory type	Choice of 32 HPE DDR4 SmartMemory with up to 3200 MT/s available depending on processor selected
Drive description	Multiple Drive Cage Options to cover: 2 SFF SAS/SATA or 4 SFF NVMe (with options for 2x NVMe and 2x SAS/SATA) or, Hardware RAID M.2 Boot Option w/ Dual 480 GB M.2 Boot drive included or Blank No Drive Cage for VSAn or M.2 Only solutions.
Product Dimensions (metric)	6.35 H x 21.4 W x 60.0 D cm
Weight	8.16 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 .
Infrastructure management	HPE Synergy Composer powered by HPE OneView and HPE iLO Advanced (standard) with all HPE Synergy solutions
Memory, standard	Synergy SmartMemory 8 to 128GB
Processor Name	New Intel® Xeon® Scalable Family processors - 3rd Generation, featuring new speeds, capacity, security and IO. See QuickSpecs for detail.
Security	HPE Silicon Root of Trust base with HPE Trusted Platform Module 2.0 optional
Form factor (fully configured)	Frame 12000 - 10U, holds up to 12 half-height/half width Synergy 480 Compute Modules
Included hard drives	Hard Drive Numbering for 2x SAS/SATA or 4x Drive (4xNVMe or 2xSAS/SATA/2xNVMe-cable defined). Drive locations etched on front plate.
Compute nodes	Half-Height 2-Processor Compute Module that fits any up-to-date Synergy 12000 Frame (12 per Frame depending on configurations)



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.

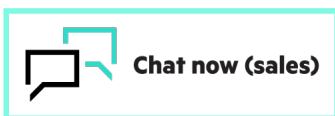
HPE GreenLake

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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