



HPE APOLLO 4200 GEN10 PLUS SYSTEM

Apollo 4000 System



WHAT'S NEW

- Ideal for deeper data lakes and larger archive or backup repositories through higher data storage capacity and density in a serviceable 2U rackmount chassis.
- Designed for throughput-intensive, cache-intensive, and tiering-intensive workloads with a superior balanced system architecture with more and faster I/O.
- Satisfy data-heavy hyperconverged infrastructure (HCI) environments with higher performance, 3rd generation Intel®

OVERVIEW

Do you need the most capacity with uncompromising performance, security, and intelligence in a datacenter-friendly 2U rackmount server footprint?

The HPE Apollo 4200 Gen10 Plus System, like the other members of the HPE Apollo 4000 family, is specifically designed to unlock the business value of data stemming from digital transformation (DX) and data infrastructure modernization, at any scale, and with ideal economics. It is designed for both ends of the data-centric workload spectrum – from deeper data lakes and archives to performance-demanding machine learning (ML), data analytics,

Xeon® Scalable processors and more memory.

- Unlock data insights faster using machine learning and data analytics through planned upgrade support for select GPU and FPGA accelerators.

hyperconverged infrastructure, and cache-intensive workloads. The HPE Apollo 4200 Gen10 Plus System provides the data infrastructure foundation for any successful data-driven organization.

FEATURES

Data Density and Performance Optimized to Unleash Your Data-Intensive Applications

The HPE Apollo 4200 Gen10 Plus System is purposefully designed to enable you to accomplish more for your data-centric workloads and digital transformation initiatives. It provides more data capacity, more data throughput, and more data processing in a balanced, symmetric system architecture.

Storage can be configured for the spectrum of workloads from data lakes and archives to cache- and performance-intensive via a broad range of media options in up to 28 Large Form Factor (LFF) with 4 NVMe-capable Small Form Factor (SFF), 24 LFF with 12 NVMe-capable SFF, or 60 SFF hot-plug drive bays.

Two 3rd generation Intel® Xeon® Scalable processors of up to 32 cores each, select GPU and FPGA accelerators, 50% more memory at 3200 MT/s speed, Intel® Optane™ Persistent Memory support, and six FHHL PCIe Gen4 slots in a balanced system architecture allows greater value to be unlocked from data.

Data Security and Global Intelligence Built-In to Protect Your Assets and Prevent Headaches

A 360-degree perspective on security extends from the HPE Apollo 4200 Gen10 Plus System design itself, through the manufacturing supply chain, all the way to concluding with a safeguarded, end-of-life decommissioning feature that meets the NIST Guidelines for Media Sanitization.

Robust, FIPS 140-2 Level 1 validated protection for your data is provided via the optional Secure Encryption feature for HPE Smart Array storage controllers. Meanwhile, hassle-free system protection is provided by HPE iLO5, its silicon root of trust, and secure boot capabilities.

HPE InfoSight for Servers endows the HPE Apollo 4200 Gen10 Plus System with global intelligence. Continuous AI-driven insights through Active Health System monitoring, coupled with real-world experience and support automation, aim to prevent and resolve problems before disruption.

Seamlessly Deploy and Economically Scale in a Datacenter-Friendly 2U Rackmount Form Factor

The HPE Apollo 4200 Gen10 Plus System simplifies deployment and maintenance for datacenter operations teams. The unique 2U rackmount chassis seamlessly fits within a HPE standard 1075mm rack while allowing full in-rack and online servicing for all drive bays, cooling fans, and power supplies.

Greater flexibility is provided for rack-scale deployments with sideband management support via the OCP slot, an alternative to the included iLO out-of-band management port, reducing network cabling and top-of-rack (ToR) switch port consumption by up to 50% per 42U rack.

HPE GreenLake brings the cloud experience to your datacenter where your applications and data live. Pay-per-use, consumption-based purchasing provides economic agility while infrastructure management can be offloaded to the HPE IT Operations Centers, freeing up your valuable people resources.



Technical specifications

HPE Apollo 4200 Gen10 Plus System

Chassis fan	Hot-plug redundant system fans shipped as standard
Memory	24 DIMM slots for HPE DDR4 SmartMemory, maximum 4.0 TB per processor
Memory protection features	HPE Advanced Memory Error Detection Technology, including Fast Fault Tolerance (selected memory options)
Power	Up to 2 power supplies, choice of 800W or 1600W hot-plug and redundant
Network	Optional OCP 3.0 or PCIe NICs up to 200 Gb/s
Storage	Standard 24 LFF SAS/SATA/SSD and 48 SFF SAS/SATA/SSD CTO models, optional storage upgrade 4 LFF SAS/SATA/SSD Cage 3, 8 SFF SAS/SATA/NVMe U.3 Tri-mode Cage 3, 2 SFF SAS/SATA/NVMe U.3 Tri-mode Cage 4, or 2 SFF SAS/SATA/NVMe U.3 Tri-mode Cage 5
Form factor	2U Rack
System configuration(s)	Front 24 LFF model supports optional 4 LFF Cage 3 or 8 SFF cage3, and front 48 SFF model supports optional 8 SFF Cage 3. The optional Cage 3 cannot be configured with CPU higher than 165W or Intel® Optane™ Persistent Memory. The 2 SFF Cage 4 and 2 SFF Cage 5 are available for both CTO models.
CPU	Intel® Xeon® Scalable 8300 series, Intel® Xeon® Scalable 6300 series, Intel® Xeon® Scalable 5300 series, Intel® Xeon® Scalable 4300 series
Boot capabilities	Optional HPE NS204i-p x2 Lanes NVMe PCIe3 x8 OS Boot Device or HPE Universal SATA 6G AIC HHHH M.2 SSD Enablement Kit
Accelerator type supported	NVIDIA T4 16GB Computational Accelerator for HPE (planned for late 2021)
Product Dimensions (metric)	87.5 x 448.0 x 837.9 mm (dimensions without bezel)
Weight	18.62 kg (empty), 48.35 kg (fully-loaded)
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: https://support.hpe.com/hpsc/wc/public/home . Additional HPE 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 the HPE website at http://www.hpe.com/support



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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