

# HPE APOLLO 4200 GEN10 SERVER

## Apollo 4000 System



### WHAT'S NEW

- Support for HPE 16 TB SAS and SATA Business Critical 7.2K HDDs increases the maximum raw capacity to 448 TB in large form factor (LFF) models.
- Support for HPE Very Read Optimized (VRO) SATA SFF and LFF SSDs. VRO SSDs are QLC NAND-based and have variable endurance levels optimized to certain workloads that are very read-centric.
- Optional rear storage upgrade to support up to 6 SFF NVMe solid state drives (SSDs) with new choices for SFF SSDs: 800 GB to 15.36 TB NVMe Read Intensive and Mixed Use.
- The new Pensando Distributed Services Platform (DSP) delivers a powerful and scalable suite of software-defined network and security services like firewall, micro-segmentation, and telemetry.
- Flexible HPE Smart Array Gen10 Controllers support and encryption

### OVERVIEW

Are you looking for a 2U ultra-dense and rack-scale system providing the right balance of capacity, performance, and security for your data storage intensive workloads?

The HPE Apollo 4200 Gen10 server offers an architecture optimized for Big Data Analytics, Software-Defined Storage, backup and archive, and other data storage intensive workloads. Its unique, easily serviceable 2U design saves data center space with up to 28 LFF or 54 SFF hot-plug drives. It delivers accelerated performance with a superior bandwidth and balanced architecture, Intel® Xeon® Processors, and NVMe connected SSDs. The focus on security extends from FIPS 140-2 Level 1 validated storage controllers down to the system silicon level, taking full advantage of HPE innovations in firmware protection, malware detection, and recovery. With HPE GreenLake Flex Capacity and HPE Financial Services, you can combine the economic agility benefits of consumption-based IT with the performance and security of on-premise.

features to meet different performance requirements for storage solutions.

- Intel® Xeon® Scalable processors with up to 28 cores and memory speeds up to 2933 MT/s, now featuring R series of 2nd Generation models.

## FEATURES

### Dense Systems for Unstructured Data and Big Data Workloads

HPE Apollo 4200 Gen10 is designed with optimal amount of storage and compute capacity for enterprises embracing digital transformation (DX). This DX journey assumes that the enterprise is constantly collecting huge amounts of unstructured data across the organization.

HPE Apollo 4200 Gen10 is a market leader in density-optimized data storage in a unique, easier to service 2U standard rack depth chassis with co-located compute power (latest generation of Intel Xeon processors) to address all the workload varieties in a modern enterprise.

HPE Apollo 4200 Gen10 supports for up to 28 Large Form Factor (LFF) or 54 Small Form Factor (SFF) hot-plug drives and without I/O compromises. Using a combination of SSDs and HDDs, customers can build a system with almost 1 petabyte (PB) of storage in just one server.

HPE Apollo 4200 Gen10 supports for daisy-chaining of out of band management network ports for 95% reduction in management network port consumption per 42U rack.

### Scale-out Ready Systems for Enterprise Customers

Organizations need a resilient scale-out software system overlay on top of storage hardware that grows with demand, that makes data visible for building data-driven use-cases, and that constantly monitors the underlying hardware, ultimately providing a seamless application experience running on top.

HPE has partnered with Cohesity, Qumulo and Scality to develop tightly integrated scale-out software solutions on top of HPE Apollo 4000 family of systems specifically targeted to address the rising scale of unstructured data.

Tight integration of software and hardware and joint validations of scale-out systems with partners means no need for enterprise IT to stitch point products together.

### Built-in Global Intelligence and Data Protection

HPE InfoSight is built into every HPE Apollo 4200 Gen10 server. HPE InfoSight has analyzed over 1,250 trillion data points and transformed how storage is managed and supported.

Through cloud-based machine learning, it has predicted and prevented thousands of disruptions from storage to applications and automated 85% of support calls. This has ultimately increased infrastructure uptime for our customers.

HPE iLO 5 chipset, integrated in every HPE Apollo Gen10 server, provides an unprecedented level of hardware security with its silicon root of trust and secure out-of-band management functionality.

iLO ensures protection against unauthorized users, strong authentication, extensive firmware protection, malware detection, and encryption of data, keystrokes and security keys



Technical specifications

HPE Apollo 4200 Gen10 Server

Memory protection features	HPE Advanced Memory Error Detection Technology, including Fast Fault Tolerance (selected memory options)
CPU	Intel® Xeon® Scalable 8200/8100 series, Intel® Xeon® Scalable 6200R/6200/6100 series, Intel® Xeon® Scalable 5200R/5200/5100 series, Intel® Xeon® Scalable 4200R/4200/4100 series
Memory	16 DIMM slots for HPE DDR4 SmartMemory, maximum 2.0 TB depending on processor model
Network	Embedded dual-port 1GbE and optional PCIe NICs up to 100 Gb/s
Storage	Up to 24 LFF or 48 SFF front hot-pluggable drive bays optional rear storage upgrade with 4 LFF, 2 SFF + 2 FHHL Riser, 6 SFF SAS/SATA or 6 SFF NVMe drive cages support for SAS, SATA, or NVMe drives depending on rear drive cage kit
Boot capabilities	Direct from SSD, HDD, Dual M.2 SSD, internal USB, MicroSD, network
System configuration(s)	Front 24 LFF with optional 4 LFF, 2 SFF + 2 FHHL Riser, 6 SFF SAS/SATA or 6 SFF NVMe Rear Drive Cages Front 48 SFF with optional 2 SFF + 2 FHHL Riser, 6 SFF SAS/SATA or 6 SFF NVMe Rear Drive Cages
Power	Up to 2 power supplies, choice of 800W or 1600W hot-plug and redundant
Management features	Includes HPE iLO Standard with Intelligent Provisioning (embedded) and HPE OneView Standard (requires download) Optional HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced
Compatible operating systems	Operating systems and virtualization solutions for HPE servers from Microsoft, Red Hat, SUSE, Ubuntu, VMware, and more. Additional information at: <a href="https://www.hpe.com/us/en/servers/server-operating-systems.html">https://www.hpe.com/us/en/servers/server-operating-systems.html</a>
Accelerator type supported	HPE PCIe Workload Accelerators
Form factor	2U standard rack depth
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: <a href="https://support.hpe.com/hpsc/wc/public/home">https://support.hpe.com/hpsc/wc/public/home</a> . 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 <a href="http://www.hpe.com/support">http://www.hpe.com/support</a>
Weight	22.34 kg (empty), 40.60 kg (fully loaded)
Product Dimensions (metric)	8.75 x 44.80 x 82.55 cm (dimensions without bezel)



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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