

HPE Apollo 4200 Gen10 Server

Apollo Systems



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 Scalable Processors, and NVMe connected SSDs. The focus on security extends from FIPS 140-2

What's new

- Supports Intel® Xeon® Scalable Processor Family.
- Optional rear storage upgrade to support up to 6 SFF NVMe solid state drives (SSDs).
- Higher bandwidth and more balanced system architecture design, and without trade-offs between drive bays and I/O slots.
- Firmware-level security and optional chassis intrusion options.
- Flexible HPE Smart Array Gen10 Controllers

- support and encryption features to meet different performance requirements for storage solutions.
- Sort for daisy-chaining of out-of-band management network ports.

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

Ultra-dense and Rack Scale

Highest data storage density in a unique, easier to service 2U standard rack depth chassis.

Up to 28 Large Form Factor (LFF) or 54 Small Form Factor (SFF) hot-plug drives and without I/O compromises.

Support for daisy-chaining of out of band management network ports for 95% reduction in management network port consumption per 42U rack.

Workload-optimized with Accelerated Performance

Balanced system architecture with 62% higher bandwidth from three Intel UltraPath Interconnect (UPI) design.

The latest generation Intel Xeon Scalable Processors with up to 24 cores each and DDR4 2666MT/s HPE SmartMemory for up to 66% faster bandwidth.

Up to six NVMe-connected SFF SSDs for low latency and high bandwidth metadata access or data caching.

HPE Smart Array Gen10 Controllers with up to 65% better random and up to 25% better sequential performance, along with network controllers up to 100Gb/s.

Data Secure by Design

HPE iLO 5 and HPE Silicon Root of Trust technology provides firmware protection, malware detection, and firmware recovery.

Optional HPE Smart Encryption for storage controller-based FIPS 140-2 Level 1 data at rest encryption.

Optional Defective Media Retention service to maximize sensitive data control in the event of a drive failure.

Ready for Your Applications, to be Consumed Your Way, Without Headaches

Validated with a wide range of Big Data and Analytics, Software-Defined Storage, backup and archive, and other data storage-intensive applications.

Consumption-based IT through HPE GreenLake Flex Capacity for economic agility of public cloud with the performance and security of on-premises IT.

Backed by services from HPE Pointnext, including support automation in the event hardware components fail.

Technical specifications

HPE Apollo 4200 Gen10 Server

Memory	16 DIMM slots for HPE DDR4 SmartMemory, maximum 1.0 TB
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	Embedded dual-port 1 GbE 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, or 6 SFF NVMe drive cages support for SAS, SATA, and NVMe drives
Form factor	2U standard rack depth
System configuration(s)	Front 24 LFF with optional 4 LFF, 2 SFF + 2 FHHL Riser or 6 SFF NVMe Rear Drive Cages Front 48 SFF with optional 2 SFF + 2 FHHL Riser or 6 SFF NVMe Rear Drive Cages
CPU	Intel® Xeon® Scalable 8100 series, Intel® Xeon® Scalable 6100 series, Intel® Xeon® Scalable 5100 series, Intel® Xeon® Scalable 4100 series
Boot capabilities	Direct from SSD, HDD, Dual M.2 SSD, internal USB, MicroSD, network
Accelerator type supported	HPE PCIe Workload Accelerators
Minimum dimensions (H x W x D)	8.75 x 44.80 x 82.55 cm (dimensions without bezel)
Weight	22.34 kg (empty), 40.60 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: http://h20564.www2.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

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.

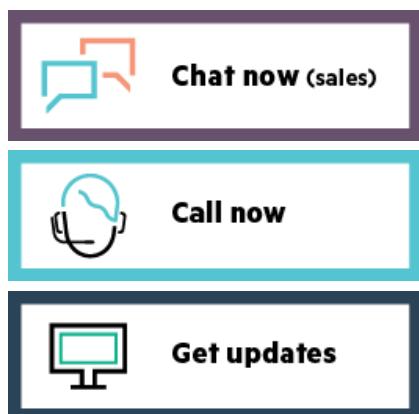
Operational Services

- **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 personalize 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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