

HPE APOLLO 2000 GEN10 PLUS SYSTEM

Apollo 2000 System



WHAT'S NEW

- New flexible infrastructure offers multiple storage options, eight memory channels, and 3200 MT/s memory, PCIe Gen4, and OS boot with optional dual NVMe M.2 storage on dedicated riser.
- Enhanced from the start with firmware anchored into silicon with HPE iLO 5 and Silicon Root of Trust from HPE for the highest level of system security.
- Support for the full stack of 2nd Generation AMD EPYC 7000 Series processors, which include the 7Fx2 models and support for processors over 240W in the HPE ProLiant XL225n Gen10 Plus server.
- Comprehensive manageability including an extensive set of tools for node-to-rack management.
- HPE Apollo 2000 Gen10 Plus System now

OVERVIEW

Do you need a dense, scalable building block to meet changing demands as you continue your digital transformation journey?

Hewlett Packard Enterprise is bringing the power of supercomputing to data centers of any size. The density-optimized HPE Apollo 2000 Gen10 Plus System with a shared infrastructure chassis and support for up to four HPE ProLiant XL225n Gen10 Plus servers allows you to help maximize your rack space. Server nodes can be serviced without impacting operation of other nodes in the same chassis to provide increased server up-time. It delivers the flexibility to tailor the system to the precise needs of your demanding high-performance computing (HPC) workload with the right compute, flexible I/O, and storage options. The system can be deployed with a single server, leaving room to scale as customer's needs grow. The system has been purpose-built to address the requirements of HPC applications such as manufacturing, oil and gas, life sciences, and financial services.

supports direct liquid cooling (DLC) with two options. Increases datacenter efficiency, unlocks top bin SKUs, and increases your power density.

- The HPE Apollo n2400 Gen10 Plus Chassis, a drive-less chassis option that provides power and cooling efficiencies ideal for supporting top bin processor.

FEATURES

System Performance and Optimization

The HPE Apollo 2000 Gen10 Plus System delivers 4x [1] density than 1U servers - four 1U servers in a 2U chassis. This allows you to help maximize your data center footprint.

Expanded power capability with 3000W power supplies that deliver N+N power availability.

High-speed infrastructure built on the latest industry standard components provides high performance to accelerate application.

Unlock top bin SKUs and increase your power density with a DLC system that is plug and play at your data center. The system comes pre-filled and ready to connect to facility water. DLC is fully integrated, installed and supported by HPE. Choose from either CPU only or CPU/memory cooling options.

The optional dual M.2 storage can be used for OS boot without utilizing a PCIe slot or storage bay. When paired with the HPE Apollo n2400 Gen10 Plus diskless chassis, this is a great compute solution.

Comprehensive Server Security and Management

Only HPE offers the industry standard server with firmware anchored into silicon with HPE iLO 5 and Silicon Root of Trust. Tied into the Silicon Root of Trust from HPE is the AMD Secure Processor, a dedicated security processor embedded in the AMD EPYC system on a chip (SoC).

Secure recovery recovers firmware to last known good state if code is compromised to limit system disruption.

Firmware runtime validation provides a daily firmware check and alert of compromised code so that issues are contained, rather than impacting the system.

HPE Performance Cluster Manager is a fully integrated system management software offering administrators every functionality they need to manage their clusters.

Shared infrastructure enables more efficient system management.

Flexible Scale-out Building Block

The HPE Apollo 2000 Gen10 Plus System allows you to scale to many servers so that customers have future proof expansion capacity.

Provides storage and I/O flexibility to help optimize for performance or economy to get to the right compute for the right workload.

Multiple storage chassis options from 0 to 24 SFF SAS/SATA drives and support for NVMe drives.

Right Compute and Storage for Every Workload

The HPE ProLiant XL225n Gen10 Plus server is a 2P/1U half-width server tray built on the AMD EPYC 7002 processors. The tray supports up to 16 DIMMs per processor, multiple networking options including high-speed fabrics and two PCIe Gen4 slots. Up to four server trays are supported per chassis.



The n2400 chassis is a drive-less option that brings efficiency in power and cooling. It is ideal for supporting top bin processors for those applications which don't require storage. Each chassis supports 5 single rotor fans, has an integrated RCM [2] option, and supports up to two power supplies.

The n2600 chassis offers multiple backplane options including 0 and 8 SFF SAS/SATA/NVMe good for a variety of HPC applications and 24 SFF SAS/SATA drives ideal for enterprise workloads. Each chassis supports 5 single rotor fans, has an integrated RCM [2] option and supports up to two power supplies

Technical specifications

HPE Apollo 2000 Gen10 Plus System

Supported trays

HPE ProLiant XL225n Gen10 Plus 1U Node Configure-to-order Server

Supported chassis

HPE Apollo n2400 Gen10 Plus configure-to-order chassis
HPE Apollo n2600 Gen10 Plus Small Form Factor configure-to-order chassis

Memory

2 TB maximum, depending on configuration

Management features

HPE iLO 5, HPE OneView, HPCM

Form factor

2U chassis which supports up to four 1U server nodes



For additional technical information, available models and options, please reference the [QuickSpecs](#)

HPE POINTNEXT

Access expertise at every step of your IT journey with [HPE Pointnext Services](#). [Advisory Services](#) focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our [Professional](#) and [Operational Services](#) help speed up time-to-production and keep your IT stable and reliable.

Operational Services from HPE Pointnext Services

- [HPE Datacenter Care](#) helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.
- [HPE Proactive Care](#) offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). [Read more](#)
- [HPE Foundation Care](#) helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. [Read more.](#)

Other related services

[Defective Media Retention](#) is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

[HPE Service Credits](#) offers a menu of technical services, access additional resources, and specialist skills.

[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.

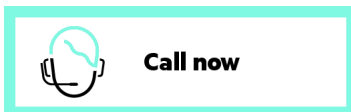
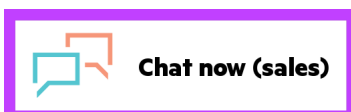
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[1] 2U HPE Apollo 2000 Gen10 Plus System chassis can accommodate 4 nodes per 2U versus 1 node in 2U with traditional rack mount servers.

[2] Rack Consolidation Module - optional module that allows HPE iLO aggregation at the chassis level and also has the port for the HPE Advanced Power Manager. The RCM consists of two HPE iLO ports for redundancy. It can also be daisy chained to connect to a top of the rack (TOR) management switches.

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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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