



HPE PROLIANT XL170R GEN10 SERVER

Apollo 2000 System



WHAT'S NEW

- Supports the latest 2nd generation Intel Xeon Scalable processors, including the latest processors which provide additional performance for HPC workloads.
- Intel Deep Learning Boost - Vector Neural Network Instruction (VNNI) set to accelerate deep learning and AI workloads with a new set of Intel Advanced Vector Extension (Intel AVX-512) instructions.
- Support for higher frequency DDR4 2933 MT/s 1 DIMM per channel (DPC) as well as

OVERVIEW

Are you looking for a general-purpose 2P server node for your HPE Apollo 2000 Gen10 system to deploy for traditional enterprise workloads such as large cloud and web services?

The HPE ProLiant XL170r Gen10 server deployed in the HPE Apollo 2000 Gen10 system delivers a flexible scale-out architecture with higher density than traditional rack mount systems [1] and firmware-level server security for your high-performance computing (HPC) workloads. Each server node can be serviced individually without affecting the operation of other nodes sharing the same chassis to provide increased server uptime.

larger capacity 128 GB SmartMemory.

- Support for discrete Intel Arria 10 FPGA.

Each server harnesses the performance of up to 2933 MT/s HPE DDR4 SmartMemory (16 DIMM slots per node) and dual 2nd generation Intel® Xeon® Scalable processors in a very efficient solution that shares both power and cooling infrastructure. Flexible storage options can support four small form factor (SFF), or three large form factor (LFF) disk drives or four NVMe solid state drives (SSDs).

FEATURES

Data Center Optimization with High Manageability

HPE ProLiant XL170r Gen10 server delivers twice the density of 1U servers, offering the equivalent of four 1U servers in a 2U chassis [1].

Comprehensive manageability via tools such as HPE iLO 5 management, HPE Apollo Platform Manager, and HPE Insight Cluster Management Utility (CMU).

With three chassis options, the Apollo 2000 provides the flexibility to choose the right storage to meet the demands of HPC workloads.

Comprehensive Server Security

Every HPE ProLiant XL170r Gen10 server uses HPE iLO 5 management to deliver a Silicon Root of Trust for firmware level security.

Commercial National Security Algorithms (CNSA) level security provides the highest level of security in the industry.

Rapid recovery of critical firmware via secure recovery to the last known good state on detection of compromised firmware.

Firmware Runtime Validation periodically scans essential firmware for compromised code during runtime and sends alerts if compromised code is discovered.

Flexible Scale-out Architecture

HPE ProLiant XL170r Gen10 server and HPE ProLiant XL190r Gen10 server can be mixed and matched within the HPE Apollo 2000 Gen10 System.

Provides storage and I/O flexibility with drive mapping for enhanced storage allocation.

Right-sized scaling allows starting small and growing as business grows.



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

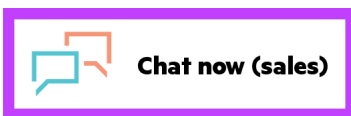
[HPE GreenLake](#) is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please [explore them here](#).

[1] A DL product is 1 node per U vs the Apollo 2000 is 2 to 4 nodes per U.

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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.

Image may differ from the actual product
[PSN1010192750WWEN](#), November, 2022.