



HPE PROLIANT XL190R GEN10 SERVER

Apollo 2000 System



WHAT'S NEW

- New riser option allows for support of four GPUs per server node and provides accelerated performance for virtual desktop infrastructure (VDI), training, and inference workloads.
- Supports latest second generation Intel Xeon Scalable processors, including the latest processors that deliver the highest performance for HPC applications.
- Intel® Deep Learning Boost - Vector Neural Network Instruction (VNNI) set to

OVERVIEW

Are you looking for a compute-intensive server node for your HPE Apollo 2000 Gen10 System that includes support for separate graphic processing unit (GPU) processors?

The HPE ProLiant XL190r Gen10 server deployed in the HPE Apollo 2000 Gen10 System delivers a dense solution with flexibility for up to two hot-pluggable server nodes in a standard 2U chassis. Each HPE ProLiant XL190r Gen10 server node can be serviced individually without impacting the operation of other nodes sharing the same chassis to provide increased server uptime.

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 larger capacity 128 GB SmartMemory.
- Support for discrete Intel Arria 10 FPGA.

The server node harnesses the performance of 2933 MT/s HPE DDR4 SmartMemory (16 DIMM slots per node) and dual Intel® Xeon® Scalable processors in a very efficient solution that shares both power and cooling infrastructure. It provides accelerated application performance with up to four GPU cards per HPE ProLiant XL190r Gen10 server. HPE Apollo 2000 Gen10 System delivers storage flexibility with options that support 12 SFF or 6 LFF HDD/SSD or 8 NVMe SSD.

FEATURES

Data Center Optimization with Density, Acceleration, and Management

The HPE ProLiant XL190r Gen10 server delivers the equivalent of two 1U servers in a 2U chassis.

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

Support for up to four GPUs per server node for up to 100% increase in performance for training, inference and VDI workloads. [1]

Comprehensive Server Security

Every HPE ProLiant XL190r Gen10 server comes with HPE iLO 5 management for firmware-level security enabled by Silicon Root of Trust .

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

Secure recovery provides rapid recovery of critical firmware to the last known good state on detection of compromised firmware.

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

Flexible Scale-out Architecture

HPE ProLiant XL190r Gen10 server and HPE ProLiant XL170r Gen10 server can be mixed and matched in 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 with the business.



[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] Bench-marking based on HPE internal results comparing like HPE ProLiant XL190r configurations with 2 & 4 GPUs. Hewlett Packard Enterprise Labs, Houston Texas October 2019

**Make the right purchase decision.
Contact our presales specialists.**

[Call for availability](#)



Chat now (sales)



Call now



Buy now



Share now



Get updates

**Hewlett Packard
Enterprise**

© Copyright 2022 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

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.

© Copyright 2017 Hewlett Packard Enterprise Development LP The information contained herein is subject to change without notice. The only warranties for HPE products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HPE shall not be liable for technical or editorial errors or omissions contained herein.

Image may differ from the actual product
[PSN1010192754MYEN](#), April 13, 2022.