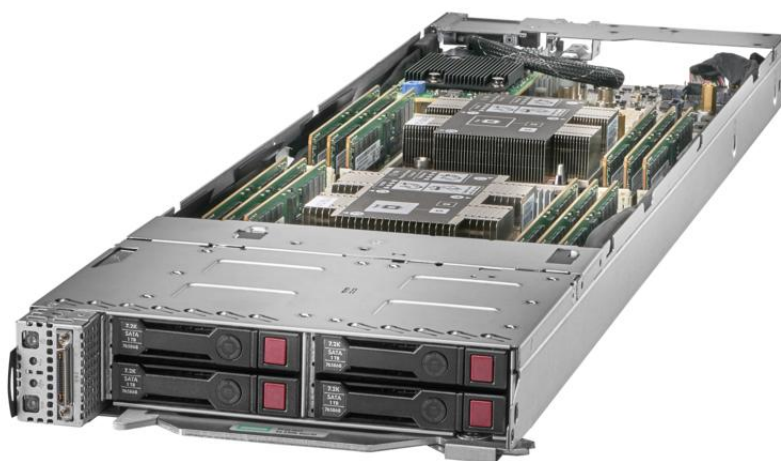




HPE PROLIANT XL230K GEN10 SERVER

Apollo 6000 System



WHAT'S NEW

- Supports the latest 2nd generation Intel® Xeon® Scalable Processors, including the refreshed processors which offer unprecedented value and performance.
- 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)

OVERVIEW

Do you need a server platform for extreme high performance computing (HPC) workloads that can scale with your business growth?

The HPE ProLiant XL230k Gen10 server delivers extreme compute performance using leading edge technologies needed to handle complex HPC workloads in enterprise data centers. This server leverages the latest 2nd generation Intel® Xeon® Scalable processors along with up to 2933 MT/s DDR4 HPE SmartMemory. This modular, fully integrated, and highly flexible HPE Apollo k6000 Chassis accommodates up to 24 HPE ProLiant XL230k Gen10 server trays, Ethernet and high-

SmartMemory as well as larger capacity
128 GB SmartMemory.

speed fabric switches to address various HPC workload needs. The HPE Apollo 6000 Gen10 System is a performance-enhanced, air-cooled solution that offers outstanding configuration flexibility, redundant power, simplified administration and rack-scale efficiency to lower the total cost of ownership (TCO) needed for mass scale HPC deployments.

FEATURES

Platform for Extreme HPC Workloads

HPE ProLiant XL230k Gen10 server delivers extreme computing performance with top bin Intel® Xeon® Scalable processors, higher speed memory and 100 Gbps cluster connectivity.

Enables faster workload completion on more cores at a given CPU frequency for greater application efficiency than previous offerings.

Supports up to two 2nd Gen Intel® Xeon® Scalable processors up to 205W with up to twice the performance of Gen9 processors.

The integrated network fabric with the server node offering a choice of Intel OPA or Mellanox EDR, providing low-latency 100 Gbps bandwidth for demanding HPC application workloads.

Designed for Lower Total Cost of Ownership (TCO)

HPE ProLiant XL230k Gen10 server has an integrated, robust design to allow rapid deployment of large numbers of servers to handle your HPC workloads.

Enables faster deployment and easier maintenance through integration of the network fabric with the server node, which reduces cabling and avoids stranded switch ports with an enhanced design for fabric radix alignment.

Secure from the start, this platform features HPE iLO 5 which delivers built-in security with Silicon Root of Trust and many additional management features.



Technical specifications

HPE ProLiant XL230k Gen10 Server

Memory protection features	Advanced ECC Memory Online Spare Mode Memory Mirroring Mode HPE Fast Fault Tolerance
CPU	Intel® Xeon® Platinum 8100 and 8200 series Intel Xeon Gold 5100 and 5200 series Intel® Xeon Gold 6100 and 6200 series
Memory	16 DIMM slots, DDR4, 2666 MHz (16 x 64 GB = 1024 GB max)
Network	Integrated 2x10GbE ports, various network cards in PCIe slots supporting 1GbE, 10GbE and/or 25GbE. Mezzanine slots for InfiniBand (EDR 100Gbs)/Omni-Path (OPA 100Gbs)
Storage	Four front accessible SFF hot plug drive (SSD/SATA/SAS)
Boot capabilities	1) Direct from 2.5-in SSD/HDD 2) M.2 boot SSDs or 3) Network PXE
System configuration(s)	Ships standard with two CPUs per server, various networking options (1GbE, 10GbE and/or IB 100Gbs/OPA 100GBs), up to sixteen DIMMs per server and one PCIe riser slot to support internal/external PCIe cards
Power	HPE Apollo k6000 Chassis supports integrated 6x2650W power supplies providing 15.9 kW per chassis
Management features	HPE iLO 5, HPE OneView Advanced and HPE Performance Cluster Manager
Compatible operating systems	RHEL, SLES, VMware ESX®, Windows Server
Warranty	This product is covered by a global limited warranty and supported by Hewlett Packard Enterprise Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners (may vary by region). Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Support Services services or customized service agreements. Hard drives have either a one year or three year warranty.



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 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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