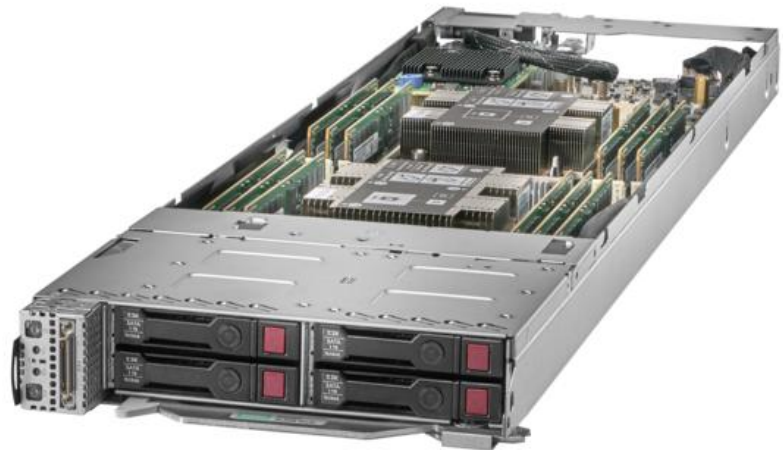




HPE ProLiant XL230k Gen10 Server

Apollo Systems



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 Intel® Xeon® Processor Scalable Family and DDR4 2666 MHz 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-speed fabric switches to address various HPC workload needs. The HPE Apollo 6000 Gen10 System is a performance-optimized, 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

The HPE ProLiant XL230k Gen10 Server delivers extreme computing performance with support of Intel Xeon Processor Scalable Family top bin processor, 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.

Has two Intel Xeon Processor Scalable Family, supporting up to 205W processors, providing 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.

Optimized for Lower Total Cost of Ownership (TCO)

The HPE ProLiant XL230k Gen10 Server has an integrated, robust design for rapidly deploying large numbers of servers to handle your HPC workloads.

Integrates the network fabric with the server node for reduced cabling, and avoids stranded switch ports with an optimized design for fabric radix alignment, while enabling faster deployment and easier maintenance.

Supports HPE ProLiant Gen10 Server features such as iLO 5, security, secure firmware flash and many additional features.

Technical specifications

HPE ProLiant XL230k Gen10 Server

Memory	16 DIMM slots, DDR4, 2666 MHz (16 x 64 GB = 1024 GB max)
Memory protection features	Advanced ECC Memory Online Spare Mode Memory Mirroring Mode HPE Fast Fault Tolerance
Power	HPE Apollo k6000 Chassis supports integrated 6x2650W Power Supplies providing 15.9 kW per chassis
Network	Integrated 2x10GbE ports, various network cards in PCIe slots supporting 1GbE, 10GbE and/or 25GbE. Mezzanine slots for InfiniBand (EDR 100Gbs)/Omnipath (OPA 100Gbs)
Storage	4 front accessible SFF hot plug drive (SSD/SATA/SAS)
System configuration(s)	Ships standard with 2 CPUs per server, various networking options (1GbE, 10GbE and/or IB 100Gbs/OPA 100Gbs), up to 16 DIMMs per server and 1 PCIe riser slot to support internal/external PCIe cards
CPU	Intel Xeon Platinum 8100 series Intel Xeon Gold 5100 series Intel Xeon Gold 6100 series
Boot capabilities	1) Direct from 2.5-in SSD/HDD 2) M.2 boot SSDs or 3) Network PXE
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 Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty.

Additional resources

QuickSpecs

[hpe.com/h20195/v2/GetDocument.aspx?](http://hpe.com/h20195/v2/GetDocument.aspx?docname=a00016634enw)

[docname=a00016634enw](http://hpe.com/h20195/v2/GetDocument.aspx?docname=a00016634enw)

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.

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