



HPE APOLLO KL20 SERVER

Apollo 20 Systems



OVERVIEW

Do you need a cost-effective, industry-standard server for highly parallel applications requiring performance across widely diverse workloads and legacy applications not optimized well for graphic processing unit (GPU) computing? The HPE Apollo k120 Server is a 2U server with up to four Intel® Xeon® Phi processors and with support for both Intel Omni-Path and Mellanox® InfiniBand interconnect fabric options for flexibility and increased price-performance and density. An ideal solution for running highly parallel applications optimized for the Xeon Phi Processors, especially for code which has already been optimized for the prior generation of the Intel Phi coprocessor and legacy applications

for which recoding would be burdensome or where the environment requires performance across widely diverse workloads not optimized well for GPU computing. Delivers a dense and flexible computing platform optimized for highly vectorized or memory bandwidth bound HPC applications.

FEATURES

Flexible Configurations Tailored to HPC and Deep Learning

The HPE Apollo k120 Server is scalable to more than sixty cores per node and greater than 3 TFlops per socket versus Intel Xeon v4.

Integrated on-board 16 GB MC-DRAM memory delivers up to 5x bandwidth per processor vs DDR4 on Intel Xeon v4.

Optimize the server for required workloads by choosing from the available CPUs in the Intel Xeon Phi Processor Family, up to twenty-four HPE 2400 MHz DDR4 DIMMs, optional network adapters, and up to twelve SFF hard drives or solid state drives (SSD) per four-node 2U chassis.

Fully integrated and factory tested clusters are delivered with a complete cluster management software stack to simplify deployment and management, and can be custom configured for perfect sizing.

Multiple network topologies are supported in cluster builds: fat tree, hypercube, and enhanced hypercube.

Customized Configuration Compute for Infrastructure Efficiency

The HPE Apollo k120 Server is air-cooled for easy integration into standard server environments.

The system is designed for energy efficiency with dual 2000W Titanium Level Power Supplies.

Select the optimal network topology for your target cost model. For example, fat tree can be a strong, general purpose fabric which is effective for small systems, but can be expensive for large systems.

Integrated IPMI 2.0 enables standards-based systems-management.

Expertise and Resources for Operational Efficiency

The HPE Apollo k120 Server alongside HPE Pointnext services provides expertise in HPC, data management, visualization, systems management, and high performance data analysis (HPDA).

Delivers responsive global support.

Enable custom solutions, as one size does not fit all requirements.

Committed account and technical resource teams.



Technical specifications

HPE Apollo k120 Server

Memory	6 DIMM slots, DDR4, 2400 MT/s, 384 GB (6x 64 GB) maximum
Network	1GbE, 10GbE and 100 Gb/s InfiniBand
Storage	12 LFF hot plug SATA drives
Power	Two 2000W Titanium level power supplies
Management features	Integrated IPMI 2.0
Form factor	2U



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.

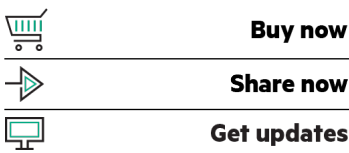
HPE GREENLAKE

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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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