

Xilinx Accelerators for HPE

What's new

- Flexible to fit your needs and available in two options: Alveo™ U50 and Alveo™ U250.
- Xilinx® Alveo™ U50 delivers compute, networking, and storage acceleration in an efficient 75W, small form factor, and is armed with 100 GbE networking, PCIe Gen4, and HBM2.
- Xilinx® Alveo U250 offers 1.3M LUTs, 11.5K DSP slices, 64 GB of DDR4 memory, dual 100 Gbps network interfaces, and delivers increased performance over CPUs on key workloads at a fraction of the cost

Overview

Do you need optimized acceleration in your data center?

Xilinx® Accelerators for HPE are designed to dramatically increase performance in HPE servers across cloud and on-premises data centers to help accelerate the workloads running in a hybrid cloud environment. Experience breakthrough performance improvements with low latency while running key data center applications such as real-time machine learning, training, inference, video transcoding and encoding, genomics, and data analytics. This series features two flexible options, U50 and U250, to help optimize and adapt to ever-changing business environments.

Deliver significant performance advantages for workloads such as financial computing, machine learning, computational storage, and data search and analytics. Xilinx® Accelerators for HPE are adaptable to changing acceleration requirements and algorithm standards, capable of accelerating any workload without changing hardware, and reduces overall cost of ownership.

Features

Adaptable and Accessible Compute Acceleration

Xilinx® Accelerators for HPE are designed for high-bandwidth, low-latency servers, networking, and storage applications to bring higher value into hybrid cloud deployments.

Advancements in process technology and device architecture have allowed Xilinx® FPGAs to be tuned for customer applications.

Flexible Agility and Powerful Options

For more control, the optimized throughput with low latency and power efficiency from compute, networking, or storage workloads span applications including big data analytics, deep learning inference, high performance computing, financial services, networking, and computational storage.

As demands on data center infrastructure increases and workloads evolve, acceleration, flexibility, and performance has never been more critical. Fixed

function hardware accelerators and CPU acceleration cannot keep up to these rapidly changing demands.

Innovation Integration

Xilinx® Alveo™ accelerator cards for HPE ProLiant servers bring together powerful and adaptable FPGA compute fabric, high speed memory, and high speed networking and interfaces to effectively solve some of the more challenging compute, networking, and storage acceleration workloads.

Xilinx® Alveo™ accelerated solutions with HPE products, software and services span a broad range of applications and workloads including Big Data analytics, deep learning inference, high-performance computing, financial services, networking, and computational storage.

Technical specifications

Xilinx Accelerators for HPE

System

Supported on several HPE ProLiant DL and HPE Apollo platforms



[For additional technical information, available models and options, please reference the QuickSpecs](#)

HPE Services

No matter where you are in your transformation journey, you can count on HPE Services to deliver the expertise you need when, where and how you need it. From strategy and planning to deployment, ongoing operations and beyond, our experts can help you realize your digital ambitions.

Consulting services

Experts can help you map out your path to hybrid cloud and optimize your operations.

Managed services

HPE runs your IT operations, giving you unified control, so can focus on innovation.

Operational services

Optimize your entire IT environment and drive innovation. Manage day-to-day IT operational tasks while freeing up valuable time and resources.

- HPE Complete Care Service: a modular service designed to help optimize your entire IT environment and achieve agreed upon IT outcomes and business goals. All delivered by an assigned team of HPE experts.
- HPE Tech Care Service: the operational service experience for HPE products. The service provides access to product specific experts, an AI driven digital experience, and general technical guidance to help reduce risk and search for ways to do things better.

Lifecycle Services

Address your specific IT deployment project needs with tailored project management and deployment services.

HPE Education Services

Training and certification designed for IT and business professionals across all industries. Create learning paths to expand proficiency in a specific subject. Schedule training in a way that works best for your business with flexible continuous learning options.

[The Defective Media Retention \(DMR\)](#) service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction. [Comprehensive Defective Material Retention \(CDMR\)](#) allows you to keep all data retentive components.

HPE GreenLake

[HPE GreenLake edge-to-cloud platform](#) is HPE's market-leading 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, 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](#).

Explore **HPE GreenLake**



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

[Call for availability](#)



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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.

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[PSN1012841386IDEN](#), September, 2023.