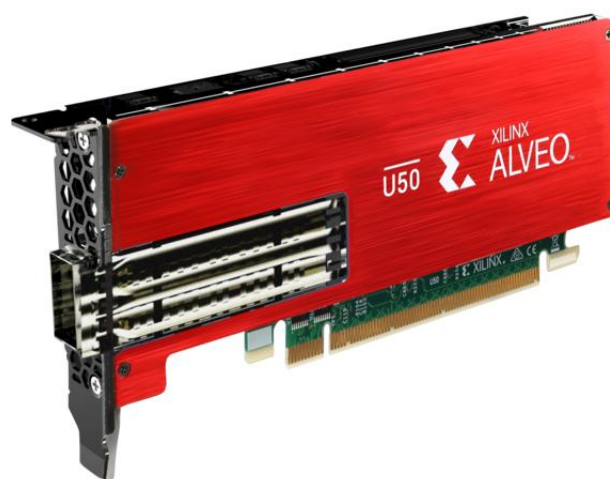**Hewlett Packard Enterprise**

XILINX ALVEO U50 ACCELERATOR (R4B02C)

Computational and Graphics Accelerators for Servers

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,

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.

dual 100 Gbps network interfaces, and delivers increased performance over CPUs on key workloads at a fraction of the cost.

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 Alveo U50 Accelerator

Product Number (SKU)	R4B02C
Number of accelerators per card	1
Memory size per board	8 GB
Memory bandwidth for board	316 GB/s peak 201 nominal
Architecture features	75W Passive Cooling
System	Supported on several HPE ProLiant DL and HPE Apollo platforms
Product Dimensions (metric)	1.88 x 16.76 x 6.45 cm
Weight	0.4 kg

Most, if not all IT organizations are on a digital transformation journey — each at a different stage. With over 11,000 IT projects conducted and 1.4 million customer interactions each year, HPE Pointnext Services' 15,000+ experts and its vast ecosystem of solution partners and channel partners are uniquely able to help you at every stage of your digital transformation. We bring together technology and expertise to help you drive your business forward and prepare for whatever is next.

Advisory and Professional Services help you accelerate your digital transformation. Operational Services help you remove complexity and respond rapidly to business demands.

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 Datacenter Care** helps modernize and simplify IT operations. Partner with an assigned account team, access technical expertise, an enhanced call experience gives you priority access, choose hardware and software support, implement proactive monitoring to help stay ahead of issues, and access HPE IT best practices and IP.

- **HPE Proactive Care** offers an enhanced call experience and helps reduce problems with personalized proactive reports and advice. This also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.). Read more

- **HPE Foundation Care** helps when there is a problem and has a choice of response levels. Collaborative software support is included and provides troubleshooting help for ISVs running on your server. Read more.

Other related services

Defective Media Retention is optional and applies only to Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

HPE Service Credits offers a menu of technical services, access additional resources, and specialist skills.

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.

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.

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

Call for availability

| Chat now (sales) |
| Call now |

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