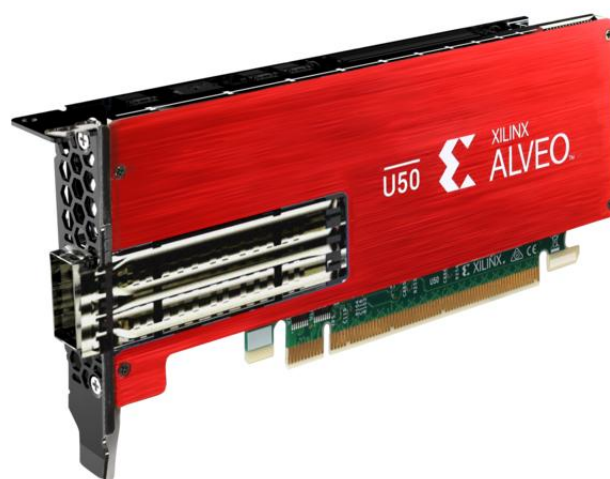




# XILINX ALVEO U50 ACCELERATOR (R4B02C)

## 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

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

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 Alveo U50 Accelerator

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



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.

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](#)



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**Call now**



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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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