



Hewlett Packard
Enterprise

XILINX ALVEO U250 ACCELERATOR FOR HPE (R4B03C)

**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.

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

- 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.

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 Alveo U250 Accelerator for HPE**

Product Number (SKU)	R4B03C
Number of accelerators per card	1
Memory size per board	64 GB
Memory bandwidth for board	77 GB/s
Architecture features	225W Passive Cooling
System	Supported on several HPE ProLiant DL and HPE Apollo platforms
Minimum dimensions (H x W x D)	3.91 x 23.39 x 11.13 cm
Weight	2 kg



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

HPE POINTNEXT

Access expertise at every step of your IT journey with [HPE Pointnext Services](#). [Advisory Services](#) focuses on your business outcomes and goals, to design your transformation and build a roadmap tuned to your unique challenges. Our [Professional](#) and [Operational Services](#) help speed up time-to-production and keep your IT stable and reliable.

Operational Services from HPE Pointnext Services

- [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.

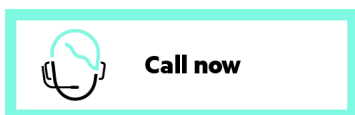
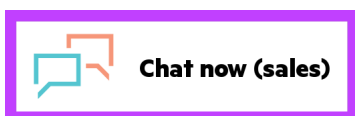
HPE GREENLAKE

[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.

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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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