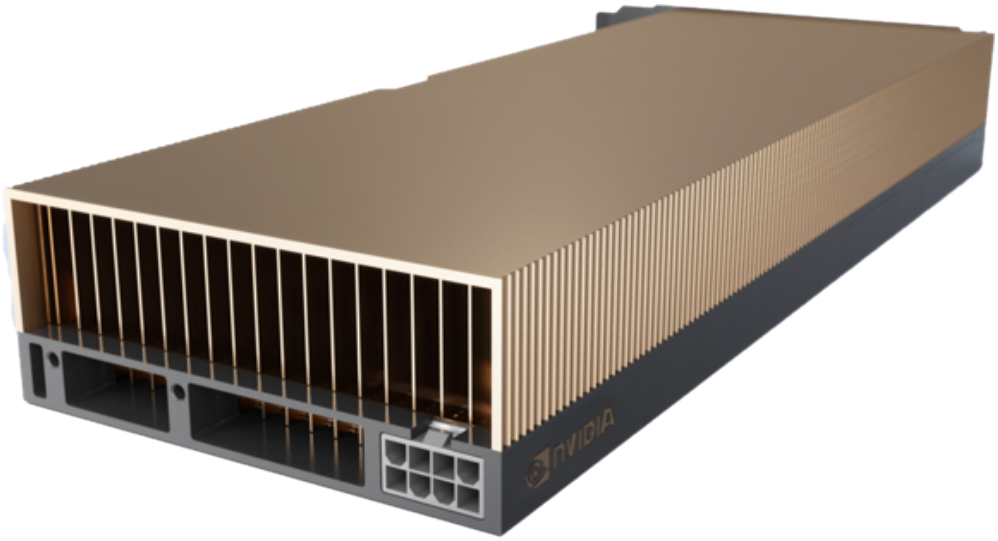
NVIDIA A40 48GB PCIe Non-CEC Accelerator for HPE (R9S37C)



What's new

- PCIe Express Gen5 provides increased bandwidth and improves data-transfer speeds from CPU memory.
- Fourth-generation tensor cores for dramatic AI speedups.
- Faster GPU memory to boost performance.
- Third generation NVLink doubles the GPU-GPU direct bandwidth.
- Third-generation RT cores for speeding up rendering workloads.

Overview

Do you require higher performance for artificial intelligence (AI) training and inference, high-performance computing (HPC) or graphics? NVIDIA® Accelerators for HPE help solve the world's most important scientific, industrial, and business challenges with AI and HPC. Visualize complex content to create cutting-edge products, tell immersive stories, and reimagine cities of the future. Extract new insights from massive datasets. Hewlett Packard Enterprise servers with NVIDIA accelerators are designed for the age of elastic computing, providing unmatched acceleration at every scale.

- NVIDIA confidential computing is a built-in security feature of Hopper-based accelerators.

Features

Develop and Deploy AI at Any Scale

Build new AI models with supervised or unsupervised training for generative AI, computer vision, large language models, scientific discovery, and financial market modeling with NVIDIA accelerators and HPE Cray systems.

Get real-time inference for computer vision, natural language processing, fraud detection, predictive maintenance, and medical imaging with NVIDIA accelerators and HPE ProLiant Compute Servers.

NVIDIA Accelerators for HPE improve computational performance, dramatically reducing the completion time for parallel tasks, offering quicker time to solutions.

NVIDIA Qualified and NVIDIA Certified HPE Servers

NVIDIA Accelerators for HPE undergo thermal, mechanical, power, and signal integrity qualification to validate that the accelerator is fully functional in the server. NVIDIA Qualified configurations are supported for production use.

NVIDIA Certified HPE servers are tested to validate both multi-GPU and multi-node performance for a diverse set of workloads to deliver excellent application performance, manageability, security, and scalability.

HPE Integrated Lights-Out (iLO) Management

HPE iLO server management software enables you to securely configure, monitor, and update your NVIDIA Accelerators for HPE seamlessly, from anywhere in the world.

Integrated Lights-Out (iLO) is an embedded technology that helps simplify server and accelerator set up, health monitoring, power, and thermal control, utilizing HPE's Silicon Root of Trust.

Technical specifications

NVIDIA A40 48GB PCIe Non-CEC Accelerator for HPE

Product Number	R9S37C
Platform supported	HPE ProLiant Rack/Tower/BladeSystem Servers/Synergy/HPE Specialized Compute Platforms
Number of accelerators per card	1
Processor core available	10752
Memory size per board	48 GB GDDR6
Memory bandwidth for board	696 GB/s
Accelerator applications	Datacenter virtualization vWS and graphics
Architecture features	The NVIDIA A40 GPU (non-CEC) is an evolutionary leap in performance and multi-workload capabilities from the data center, combining best-in-class professional graphics with powerful compute and AI acceleration to meet today's design, creative, and scientific challenges. Driving the next generation of virtual workstations and server-based workloads, NVIDIA A40 brings state-of-the-art features for ray-traced rendering, simulation, virtual production, and more to professionals anytime, anywhere.
System	Compatible with HPE SY480 Gen10 E2, HPE Apollo 6500 XL645d Gen10 Plus, HPE Apollo 6500 XL675d Gen10 Plus, HPE DL380 Gen10 Plus, HPE DL385 Gen10 Plus v2, HPE SY480 Gen10 Plus E2, HPE DL380 Gen10, HPE DL580 Gen10, HPE Superdome Flex 280, HPE Edgeline EL8000 e920d/e920t,
Product dimensions	3.47 x 26.7 x 11.1 cm
Weight	0.99 kg
Warranty	For details on HPE Qualified Options Limited Warranty visit: 1-year parts, 1-year labor, and 1-year on-site support coverage. For more warranty information refer to https://h20564.www2.hpe.com/hpsc/wc/public/home

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.

Find a partner

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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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