NVIDIA Accelerators for HPE

NVIDIA L40S 48GB PCIe Accelerator (S2L70A)

What's new

- NVIDIA® RTX PRO 4500 Blackwell Server Edition 32 GB PCIe Accelerator for HPE
- NVIDIA® RTX PRO 6000 Blackwell Server Edition 96 GB PCIe Accelerator for HPE
- NVIDIA® RTX PRO 6000D Blackwell Server Edition 84 GB PCIe Accelerator for HPE (for China/HK)
- NVIDIA® RTX A400 4GB PCIe ATX Brkt PCIe Accelerator for HPE
- NVIDIA® RTX A400 4GB PCIe LP Brkt PCIe Accelerator for HPE

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.

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 (LLM), 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.

HPE 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 L40S 48GB PCIe Accelerator
Product Number	S2L70A
System	Compatible with HPE DL380 Gen10 Plus, HPE XL675d Gen10 Plus, HPE DL380 Gen11, HPE DL380a Gen11, HPE DL385 Gen11, HPE ML350 Gen11, HPE DL320 Gen11, HPE DL560 Gen11
Architecture features	Hardware support for structural sparsity and optimized TF32 format provides out of-the-box performance gains for faster AI and data science model training. Accelerate AI-enhanced graphics capabilities with DLSS to upscale resolution with better performance in select applications. Enhanced throughput and concurrent ray-tracing and shading capabilities improve ray-tracing performance, accelerating renders for product design and architecture, engineering, and construction workflows. See lifelike designs in action with hardware-accelerated motion blur and stunning real-time animations. Accelerated single-precision floating point (FP32) throughput and improved power efficiency significantly boost performance for workflows like 3D model development and computer-aided engineering (CAE) simulation. Use enhanced 16-bit math capabilities (BF16) for mixed-precision workloads.
Accelerator applications	Generative AI image generation, Large Language Model (LLM) inference
Memory size per board	48 GB GDDR6
Memory bandwidth for board	864 GB/s
Number of accelerators per card	1
Warranty	For details on HPE Qualified Options Limited Warranty visit: 3-year parts, 0-year labor, and 0-year on-site support coverage. For more warranty information refer to https://support.hpe.com/hpesc/public/docDisplay?docId=sd00004309en_us
Shipping weight	1.7 kg
Shipping dimensions	3.47 x 26.7 x 11.1 cm
Platform supported	HPE Specialized Compute Platforms HPE Mainstream Compute Platforms

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.

Advisory & Professional 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.

Support 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.

— **HPE Multivendor Services:** Single point of accountability for managing on-site hardware and software support for multivendor products. HPE experts help manage your IT across technologies and platforms for HPE and non-HPE technologies, acting as the single point of contact for your IT operational needs.

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

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

GreenLake

GreenLake is the cloud to run and manage your entire hybrid landscape—private, public, and edge. It helps you to:

— Streamline IT Operations across compute, storage, and networking without the chaos

— Unify and secure data, as you move faster

— Accelerate AI, from pilot to production

The result: greater operational efficiency, lower TCO, and faster AI delivery—all from one unified, intelligent platform built for today's hybrid enterprise.

For additional technical information, available models and options, please reference the QuickSpecs

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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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PSN1014786966DKEN, October, 2026.

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