



# HPE NVIDIA Tesla V100 PCIe 16GB Computational Accelerator (Q2N68A)

## Server Accelerators



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### What's new

- NVIDIA Quadro RTX 8000 Graphics Accelerator
- NVIDIA Quadro RTX 4000 Graphics Accelerator

### Overview

Do you require higher performance computation for deep learning, high-performance computing (HPC) workloads, or graphics? Companies are facing greater computational and graphics requirements as large and complex computational models become more commonplace. Traditional CPU technology is no longer able to keep up with these increasing demands. NVIDIA® accelerators for HPE ProLiant servers seamlessly integrate GPU computing with select HPE server families. Designed for power-efficient, high-performance supercomputing, NVIDIA accelerators deliver dramatically

higher application acceleration than a CPU-only approach for a range of deep learning, scientific, and commercial applications. The thousands of NVIDIA CUDA® cores of each accelerator allow it to divide large computing or graphics tasks into thousands of smaller tasks that can be run concurrently, thus enabling much faster simulations and improved graphics fidelity for extremely demanding 3D models.

## Features

### **Increased Performance to Solve Problems Faster**

The NVIDIA accelerators for HPE ProLiant servers improve computational performance, dramatically reducing the completion time for parallel tasks, offering quicker time to solutions.

Co-locating the NVIDIA Quadro® or NVIDIA GRID GPUs with computational servers, large data sets can be shared, dramatically improving display refresh rates.

These GPUs are specifically designed to enable rich graphics in virtualized environments. Hewlett Packard Enterprise can satisfy NVIDIA GRID software via HPE Complete.

NVIDIA accelerators can be configured and monitored by HPE Insight Cluster Management Utility (CMU). HPE Insight CMU monitors and displays GPU health and temperature, as well as installs and provisions the GPU drivers and CUDA software.

**Technical specifications****HPE NVIDIA Tesla V100 PCIe 16GB Computational Accelerator**

|   |  |
|---|--|
| <b>Product Number (SKU)</b>                             | Q2N68A   |
| <b>Peak double precision floating point performance</b> | 7.0 TFlops   |
| <b>Peak single precision floating point performance</b> | 15 TFlops  |
| <b>Number of accelerators per card</b>                  | 1  |
| <b>Cores</b>  | 5120 CUDA   640 Tensor   |
| <b>Memory size per board</b>                            | 16 GB HBM2   |
| <b>Memory bandwidth for board</b>                       | 900 GB/s   |
| <b>Accelerator applications</b>                         | HPC  |
| <b>Architecture features</b>                            | NVIDIA® Tesla® V100 is the world's most advanced data center GPU ever built to accelerate AI, HPC, and graphics. Powered by NVIDIA Volta™, the latest GPU architecture, Tesla V100 offers the performance of 100 CPUs in a single GPU.   |
| <b>System</b>   | Compatible with HPE ProLiant DL380 Gen 10, HPE ProLiant XL190r Gen 10, HPE ProLiant XL270d Gen 9 servers   |
| <b>Minimum dimensions (H x W x D)</b>                   | 3.8 x 26.7 x 11.2 cm   |
| <b>Weight</b>   | 1.18 kg  |
| <b>Warranty</b>   | 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 <a href="http://h20564.www2.hp.com/hpsc/wc/public/home">http://h20564.www2.hp.com/hpsc/wc/public/home</a> |

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

## HPE Pointnext

**HPE Pointnext** leverages our breadth and depth of technical expertise and innovation to help to accelerate digital transformation. A comprehensive portfolio that includes – Advisory, Professional, and Operational Services is designed to help you evolve and grow today and into the future.


### Operational Services


- **HPE Flexible Capacity** is a new consumption model to manage on-demand capacity, combining the agility and economics of public cloud with the security and performance of on-premises IT.
- **HPE Datacenter Care** offers a tailored operational support solution built on core deliverables. It includes hardware and software support, a team of experts to help personalise deliverables and share best practices, as well as optional building blocks to address specific IT and business needs.
- **HPE Proactive Care** is an integrated set of hardware and software support including an enhanced call experience with start to finish case management helping resolve incidents quickly and keeping IT reliable and stable.
- **HPE Foundation Care** helps when there is a hardware or software problem offering several response levels dependent on IT and business requirements.


**Advisory Services** includes design, strategy, road map, and other services to help enable the digital transformation journey, tuned to IT and business needs. Advisory Services helps customers on their journey to Hybrid IT, Big Data, and the Intelligent Edge.

**Professional Services** helps integrate the new solution with project management, installation and startup, relocation services, and more. We help mitigate risk to the business so there is no interruption when new technology is being integrated in the existing IT environment.

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