

NVIDIA-CERTIFIED HPE SYSTEMS

Enabling the Accelerated Enterprise Data Center

Enterprises are looking for an easy way to deploy modern, scalable computing infrastructure to run their GPU-accelerated applications, whether in the data center or at the edge. Accelerated workloads include artificial intelligence for better customer engagement, data analytics for business forecasting, and advanced visualization for quicker product innovation. With the drive toward remote and flexible workplaces, the need for powerful virtual desktops is growing.

NVIDIA-Certified HPE Systems bring together HPE servers, NVIDIA GPUs and NVIDIA networking in optimized configurations that are validated for performance, manageability, security, and scalability and are backed by enterprise-grade support from NVIDIA and HPE.

With NVIDIA-Certified Systems™, enterprises can confidently choose performance-optimized hardware solutions to power their accelerated computing workloads—in small configurations and at scale.

The NVIDIA-Certified Systems program encompasses a wide range of enterprise GPUs, and the latest networking smart network interface cards (SmartNICs) from NVIDIA. The certification test suite exercises the performance and functionality on a set of software that represents a wide range of real-world applications. This includes deep learning training, AI inference, data science algorithms, intelligent video analytics (IVA), high-performance computing (HPC), CUDA®, and rendering. It also covers infrastructure performance acceleration, such as network and storage offload, security, and remote management.

NVIDIA-Certified HPE Systems provide the foundation for a complete enterprise accelerated computing platform. These servers provide industry-leading performance for AI, data analytics, and visualization applications, and they can be managed with IT frameworks from industry leaders such as VMware and Red Hat.

System Components

SERVERS

- > HPE ProLiant DL380 Gen10
- > HPE ProLiant DL360 Gen10 Plus
- > HPE ProLiant DL380 Gen10 Plus
- > HPE ProLiant DL385 Gen10 Plus v2
- > HPE Apollo 2000 (XL290n Gen10 Plus)
- > HPE Apollo 6500 (XL270d Gen10)
- > HPE Apollo 6500 (XL645d Gen10 Plus)
- > HPE Apollo 6500 (XL675d Gen10 Plus)

GPU

- > NVIDIA A10 Tensor Core GPU
- > NVIDIA A30 Tensor Core GPU
- > NVIDIA A40 Tensor Core GPU
- > NVIDIA A100 40GB Tensor Core GPU
- > NVIDIA HGX A100 4 GPU
- > NVIDIA HGX A100 8 GPU
- > NVIDIA T4 GPU

NETWORKING

- > NVIDIA® ConnectX®-6 adapters
- > NVIDIA® ConnectX®-6 Dx adapters

The Key Benefits of NVIDIA-Certified HPE Systems

- > **Performance**—NVIDIA-Certified Systems are configured to deliver excellent performance for a diverse range of workloads. Customers can run most accelerated applications on these systems and be confident that they will perform well.
- > **Manageability**—NVIDIA-Certified Systems configurations ensure that GPU-enabled servers work well out of the box, streamlining the procurement experience and reducing time to deployment. The validation of features such as remote management further simplifies IT administration.
- > **Scalability**—NVIDIA-Certified Systems are tested on single-node and multi-node configurations to validate cluster-level features and performance. They enable IT to scale out accelerated infrastructure to meet future workload demands.
- > **Security**—NVIDIA-Certified Systems secure workflows by protecting data at the platform, network, and application layers. Whether deployed in a data center or at the edge, customers can be assured that they do not have to compromise on security features when running accelerated applications.

NVIDIA-CERTIFIED SYSTEMS FROM HPE

HPE PROLIANT DL380 GEN10
HPE PROLIANT DL360 GEN10 PLUS
HPE PROLIANT DL380 GEN10 PLUS
HPE PROLIANT DL385 GEN10 PLUS V2



HPE APOLLO 2000 (XL290N GEN10 PLUS)



HPE APOLLO 6500 (XL270D GEN10)



HPE APOLLO 6500 (XL645D GEN10 PLUS)

HPE APOLLO 6500 (XL675D GEN10 PLUS)



NVIDIA-Certified Systems Software Support

Many customers will choose to run software from the NVIDIA NGC™ catalog, which offers a wide range of software products such as pre-built application containers, Helm charts for automated deployment in a Kubernetes environment, libraries and SDKs for application development, and industry-based AI frameworks for building application workflows. To provide enterprise support for these customers, NVIDIA offers NVIDIA-Certified Systems Software Support. Every NVIDIA-Certified System qualifies for this support, which can be purchased through HPE. This service offering covers:

- > NVIDIA GPU and networking drivers
- > CUDA libraries and toolkits
- > Software for integration with Kubernetes, including GPU operators, container runtimes, and device plug-ins
- > Industry-leading software for AI training and inferencing as well as data analytics

Direct access to NVIDIA subject matter experts allows for quick remediation of L1 software issues during local business hours or via web and email. Support also includes clear escalation paths for L2 and L3 issues. Enterprises can maximize user productivity during development and minimize system downtime during deployment.

For any questions related to this software support, please contact hils@hpe.com

Learn more about NVIDIA-Certified HPE Systems at www.hpe.com and nvidia.com

© 2021 NVIDIA Corporation. All rights reserved. NVIDIA, the NVIDIA logo, ConnectX, CUDA, NGC, and NVIDIA-Certified Systems are trademarks and/or registered trademarks of NVIDIA Corporation in the U.S. and other countries. All other trademarks and copyrights are the property of their respective owners. JUL21

