

NVIDIA Virtual GPU Software QuickSpecs

Unleash the full potential of virtualization with NVIDIA virtual GPU technology—delivering immersive, secure, and high-performance experiences for every user, on any device.

NVIDIA virtual GPU (vGPU) technology now enables any application to run in a GPU-accelerated virtual environment.

This platform brings the power of NVIDIA GPUs to virtual desktops and apps, ensuring high-quality, immersive experiences for all users.

IT teams can leverage graphics-accelerated cloud solutions to centralize applications and data, boosting security, productivity, and cost-efficiency.

[NVIDIA Virtual GPU Software](#)

While virtualization has long been a top priority for many organizations, adoption has been slow due to inadequate user experience. This has been caused by virtualized desktops lacking access to a GPU, which is a core component of every physical device today and is leveraged by all sorts of applications. Today, with NVIDIA virtual GPU (vGPU) technology, you can virtualize any application and deliver it in a GPU-accelerated virtual environment.

NVIDIA virtual GPU is a graphics virtualization platform that extends the power of NVIDIA GPU technology to virtual desktops and apps. It delivers an immersive, high-quality user experience for everyone from engineers and designers to knowledge workers. [NVIDIA Virtual GPU technology](#) lets IT tap into a powerful graphics-accelerated cloud solution to centralize apps and data, with virtual workspaces that offer improved security, productivity, and cost-efficiency.

Organizations in every industry have accelerated their workflows and improved their desktop virtualization environment with NVIDIA virtual GPU technology.

- Architecture, Engineering, and Construction
- Education
- Financial Services Institutions
- Government
- Healthcare
- Manufacturing
- Media and Entertainment
- Oil and Gas

NVIDIA virtual GPU solutions complement HPE workstation solutions to help customers solve specific use cases not addressed by physical environments. Customers can turn to virtual PCs and virtual workstations powered by NVIDIA virtual GPU software when they require these capabilities:

- Access to graphics-rich environments on any device, including laptops, tablets, and smartphones.
- Improved data security through centralization of corporate information within the data center, no longer exposed on workstations or endpoints.

NVIDIA virtual GPU (vGPU) software, combined with NVIDIA GPUs, integrated with HPE ProLiant, Apollo, and Synergy Servers deliver an enterprise-grade platform for organizations that want to deliver virtualized office productivity applications and high-performance Windows 10 virtual workspaces that scale cost-effectively. For more information about NVIDIA vGPU software, see <https://www.nvidia.com/en-us/data-center/virtual-pc-apps/>

NVIDIA RTX Virtual Workstation (RTX vWS) software, and NVIDIA GPUs, integrated with HPE ProLiant Servers combine to deliver the most powerful virtual workstations from the data center or the cloud to any device, anywhere. Access the most demanding applications and tackle larger datasets, all while meeting the need for greater security, with NVIDIA RTX vWS software. For more information about NVIDIA RTX vWS software see <https://www.nvidia.com/en-us/design-visualization/virtual-workstation/>

NVIDIA RTX PRO 4500 Blackwell Software Edition kit can be purchased with RTX PRO 4500 Server Edition GPUs and includes NVIDIA AI Enterprise (one GPU), NVIDIA Omniverse Enterprise (one GPU), and NVIDIA vGPU vPC (10 CCUs) and vWS (4 CCUs) software licenses.

NVIDIA RTX PRO 6000 Blackwell Software Edition kit can be purchased with RTX PRO 6000 Server Edition GPUs and includes NVIDIA AI Enterprise (one GPU), NVIDIA Omniverse Enterprise (one GPU), and NVIDIA vGPU vPC (32 CCUs) and vWS (16 CCUs) software licenses.

NVIDIA AI Enterprise Software

Artificial Intelligence (AI) has remarkably changed how business is done and impacted every industry by improving customer relationships to helping doctors deliver better outcomes for patients.

NVIDIA AI Enterprise is the end-to-end suite of AI and data analytics software, which helps organizations excel at AI. This product addresses the complexities of organizations trying to build and maintain their own high-performance, secure, cloud-native AI software platform. Use pre-trained and customizable models to streamline development and deployment to better results at lower costs.

NVIDIA AI Enterprise includes:

- TensorFlow and PyTorch for machine learning.
- [NVIDIA TAO Toolkit](#) for a faster, easier way to accelerate training and quickly create highly accurate, high-performance, domain-specific vision, and conversational AI models.
- [NVIDIA® TensorRT™](#), for GPU optimized deep learning inference and Triton Inference Server to deploy trained AI models at scale.
- [NVIDIA Triton™ Inference Server](#) supports all major frameworks, such as TensorFlow, TensorRT, PyTorch, MXNet, Python and more. Triton Inference Server also includes the RAPIDS FIL backend for the best inference performance for tree-based models on GPUs.
- NVIDIA RAPIDS, for end-to-end data science, machine learning and analytics pipeline.
- NVIDIA GPU and Network Operators, to deploy and manage NVIDIA GPU and Networking resources in Kubernetes.
- NVIDIA vGPU Software, to deploy vGPU on common data center platforms, including VMware and Red Hat.

Accelerate with NVIDIA AI Workloads, as NVIDIA AI Enterprise's packaged workflows for common enterprise use cases. This will provide a path for developers to get started building AI solutions, including:

- Generative AI Knowledge Base Chatbot
 - Intelligent Virtual Assistants
 - Audio Transcription
 - Cybersecurity Insider Threat Detection
 - Next Item Prediction
 - Route Optimization
 - Multi-camera tracking
 - Retail Store analytics
 - Retail Loss Prevention
-

Standard Features

Key Benefits with NVIDIA AI Enterprise

Data Preparation

NVIDIA Virtual GPU Software can dramatically increase data processing time with the [NVIDIA RAPIDS™ Accelerator for Apache Spark](#).

Model Training

Provide valuable data quickly by creating custom, accurate models in hours by using [NVIDIA TAO Toolkit](#) and [pretrained models](#).

Simulate and Test

Accelerate performance with [NVIDIA® TensorRT™](#) that delivers low latency and high throughput for inference applications.

Deploy at Scale

Simplify and optimize the deployment of AI models at scale and in production with [NVIDIA Triton™ Inference Server](#).

Key Benefits with NVIDIA Virtual GPU Software

Virtualize Any Application

Any application that can run on a physical desktop can now run on a virtual desktop, so companies can expand their virtualization footprint.

Raise the Bar on Productivity

Transform workflows to liberate your users and data from the confines of PCs, workstations, offices, and distance. With NVIDIA virtual GPU technology, your teams can seamlessly collaborate in real-time, wherever they are, using any device they choose.

Simplify IT Management

IT can now centralize data and applications in the data center and deliver a graphics-accelerated virtual workspace with improved IT manageability, security, and graphics performance that exceeds user expectations. - See more at:

<https://www.nvidia.com/en-us/design-visualization/solutions/it-management/>

Protect mission-critical assets and IP

Protect your intellectual property and mission-critical data by keeping it centralized within the data center. You can securely collaborate with business partners without the threat of data loss, while also enabling new mobile, work-from-anywhere work styles.

All virtual environments can now take advantage of graphics acceleration with NVIDIA virtual GPU software and Data Center GPUs.

NVIDIA virtual GPU software runs on NVIDIA GPUs making it the only solution on the market that meets the performance needs of all enterprise users. This includes everyone from the most demanding designers and engineers to knowledge workers.

For more information about NVIDIA GPUs for virtualization, refer to

<https://www.nvidia.com/en-us/design-visualization/graphics-cards-for-virtualization/>

Notes: NVIDIA virtual GPU software requires NVIDIA GPU hardware to work properly.

Service and Support

For the most up-to-date information on HPE Services, please refer to the [HPE Services - Supplemental QuickSpecs](#), which provides a comprehensive and regularly updated overview of available services.

Configuration Information

NVIDIA AI Enterprise software

Hewlett Packard Enterprise is making the following NVIDIA AI Enterprise software SKUs available

NVIDIA AI Enterprise Essentials

Notes: [NVIDIA AI Enterprise Essentials initial purchase SKUs](#).

NVIDIA AI Enterprise per GPU 1-year Subscription 9x5 Support E-LTU	S2S16AAE
NVIDIA AI Enterprise per GPU 3-year Subscription 9x5 Support E-LTU	S2S17AAE
NVIDIA AI Enterprise per GPU 5-year Subscription 9x5 Support E-LTU	S2S18AAE

NVIDIA AI Enterprise Essentials - Renewal SKUs

Notes: [Ordering NVIDIA AI Enterprise Essential Renewal SKU is applicable when the customer has an initial purchase of NVIDIA AI Enterprise Essentials that needs to be renewed.](#)

NVIDIA AI Enterprise per GPU 1-year Subscription 9x5 Support Renewal E-LTU	S2S19AAE
NVIDIA AI Enterprise per GPU 3-year Subscription 9x5 Support Renewal E-LTU	S2S20AAE
NVIDIA AI Enterprise per GPU 5-year Subscription 9x5 Support Renewal E-LTU	S2S21AAE

NVIDIA AI Enterprise Essentials for Education

Notes:

– [NVIDIA AI Enterprise Essentials for Education initial purchase SKUs](#).

– NVIDIA AI Enterprise Essentials Educational is only orderable under NVIDIA Education Pricing Program including specific eligibility requirements and legal terms and conditions.	
NVIDIA AI Enterprise Educational per GPU 1-year Subscription 9x5 Support E-LTU	S2S22AAE
NVIDIA AI Enterprise Educational per GPU 3-year Subscription 9x5 Support E-LTU	S2S23AAE
NVIDIA AI Enterprise Educational per GPU 5-year Subscription 9x5 Support E-LTU	S2S24AAE
NVIDIA AI Enterprise Essentials for Education - Renewal SKUs	
Notes:	
– Ordering NVIDIA AI Enterprise Essentials for Education Renewal SKU is applicable when the customer has an initial purchase of NVIDIA AI Enterprise Essentials for Education that needs to be renewed.	
– NVIDIA AI Enterprise Essentials Educational is only orderable under NVIDIA Education Pricing Program including specific eligibility requirements and legal terms and conditions.	
NVIDIA AI Enterprise Educational per GPU 1-year Subscription 9x5 Support Renewal E-LTU	S2S25AAE
NVIDIA AI Enterprise Educational per GPU 3-year Subscription 9x5 Support Renewal E-LTU	S2S26AAE
NVIDIA AI Enterprise Educational per GPU 5-year Subscription 9x5 Support Renewal E-LTU	S2S27AAE
NVIDIA AI Enterprise Essentials 24x7 Support	
Notes:	
– NVIDIA AI Enterprise Essential 24x7 Support initial purchase add-on SKU.	
– NVIDIA AI Enterprise Essentials 24x7 Support SKU must be ordered with an existing NVIDIA AI Enterprise Essentials Subscription.	
NVIDIA AI Enterprise per GPU 1-year 24x7 Support E-LTU	S2S28AAE
NVIDIA AI Enterprise per GPU 3-year 24x7 Support E-LTU	S2S29AAE
NVIDIA AI Enterprise per GPU 5-year 24x7 Support E-LTU	S2S30AAE
NVIDIA AI Enterprise Essentials 24x7 Support - Renewal SKUs	
Notes:	
– Ordering NVIDIA AI Enterprise Essential 24x7 Support Renewal SKUs is applicable when the customer has an initial purchase of NVIDIA AI Enterprise Essentials 24x7 Support that needs to be renewed.	
– NVIDIA AI Enterprise Essentials 24x7 Support SKU must be ordered with an existing NVIDIA AI Enterprise Essentials Subscription.	
NVIDIA AI Enterprise per GPU 1-year 24x7 Support Renewal E-LTU	S2S34AAE
NVIDIA AI Enterprise per GPU 3-year 24x7 Support Renewal E-LTU	S2S35AAE
NVIDIA AI Enterprise per GPU 5-year 24x7 Support Renewal E-LTU	S2S36AAE
NVIDIA AI Enterprise Essentials 24x7 Support for Education	
Notes:	
– NVIDIA AI Enterprise Essential 24x7 Support for Education initial purchase add-on SKU.	
– NVIDIA AI Enterprise Essentials 24x7 Support for Education SKU must be ordered with an existing NVIDIA AI Enterprise Essentials Subscription.	
– NVIDIA AI Enterprise Essentials Educational is only orderable under NVIDIA Education Pricing Program including specific eligibility requirements and legal terms and conditions.	
NVIDIA AI Enterprise Educational per GPU 1-year 24x7 Support E-LTU	S2S31AAE
NVIDIA AI Enterprise Educational per GPU 3-year 24x7 Support E-LTU	S2S32AAE
NVIDIA AI Enterprise Educational per GPU 5-year 24x7 Support E-LTU	S2S33AAE
NVIDIA AI Enterprise Essentials 24x7 Support for Education - Renewal SKUs	
Notes:	
– Ordering NVIDIA AI Enterprise Essential 24x7 Support Renewal SKUs is applicable when the customer has an initial purchase of NVIDIA AI Enterprise Essentials 24x7 Support that needs to be renewed.	
– NVIDIA AI Enterprise Essentials 24x7 Support SKU must be ordered with an existing NVIDIA AI Enterprise Essentials Subscription.	
– NVIDIA AI Enterprise Essentials Educational is only orderable under NVIDIA Education Pricing Program including specific eligibility requirements and legal terms and conditions.	
NVIDIA AI Enterprise Educational per GPU 1-year 24x7 Support Renewal E-LTU	S2S37AAE
NVIDIA AI Enterprise Educational per GPU 3-year 24x7 Support Renewal E-LTU	S2S38AAE
NVIDIA AI Enterprise Educational per GPU 5-year 24x7 Support Renewal E-LTU	S2S39AAE

NVIDIA virtual GPU software

Hewlett Packard Enterprise is making the following NVIDIA virtual GPU software SKUs available

NVIDIA Virtual Applications (NVIDIA vApps) - Perpetual licenses

Notes: NVIDIA virtual GPU software products with perpetual licenses must be purchased in conjunction with a five-year-SUMS.

NVIDIA Virtual Applications 1 Concurrent User Perpetual E-LTU	R3R01AAE
NVIDIA Virtual Applications SUMS 1 Concurrent User 5-year Subscription E-LTU	R3Q77AAE
NVIDIA Virtual Applications SUMS 1 Concurrent User 1-year Subscription Renewal E-LTU	R3Q73AAE

NVIDIA Virtual Applications (NVIDIA vApps) - Annual Subscriptions

NVIDIA Virtual Applications 1 Concurrent User 1-year Subscription E-LTU	R3Q44AAE
NVIDIA Virtual Applications 1 Concurrent User 3-year Subscription E-LTU	R3Q46AAE
NVIDIA Virtual Applications 1 Concurrent User 4-year Subscription E-LTU	R3Q47AAE
NVIDIA Virtual Applications 1 Concurrent User 5-year Subscription E-LTU	R3Q48AAE
NVIDIA Virtual Applications 1 Concurrent User 1-year Subscription Renewal E-LTU	R3R02AAE
NVIDIA Virtual Applications 1 Concurrent User 3-year Subscription Renewal E-LTU	R3R03AAE
NVIDIA Virtual PC (NVIDIA vPC) - Perpetual licenses	

Notes: NVIDIA virtual GPU software products with perpetual licenses must be purchased in conjunction with a five-year-SUMS.

NVIDIA Virtual PC 1 Concurrent User Perpetual E-LTU	R3R06AAE
NVIDIA Virtual PC SUMS 1 Concurrent User 5-year Subscription E-LTU	R3R21AAE
NVIDIA Virtual PC SUMS 1 Concurrent User 1-year Subscription Renewal E-LTU	R3R07AAE

NVIDIA Virtual PC (NVIDIA vPC) - Annual subscriptions

NVIDIA Virtual PC 1 Concurrent User 1-year Subscription E-LTU	R3Q49AAE
NVIDIA Virtual PC 1 Concurrent User 3-year Subscription E-LTU	R3Q51AAE
NVIDIA Virtual PC 1 Concurrent User 4-year Subscription E-LTU	R3Q52AAE
NVIDIA Virtual PC 1 Concurrent User 5-year Subscription E-LTU	R3Q53AAE
NVIDIA Virtual PC 1 Concurrent User 1-year Subscription Renewal E-LTU	R3Q79AAE
NVIDIA Virtual PC 1 Concurrent User 3-year Subscription Renewal E-LTU	R3Q81AAE

NVIDIA RTX Virtual Workstation (RTX vWS) - Perpetual licenses

Notes: NVIDIA virtual GPU software products with perpetual licenses must be purchased in conjunction with a five-year-SUMS.

NVIDIA RTX Virtual Workstation 1 Concurrent User Perpetual E-LTU	R3Q93AAE
NVIDIA RTX Virtual Workstation SUMS 1 Concurrent User 5-year Subscription E-LTU	R3Q67AAE
NVIDIA RTX Virtual Workstation SUMS 1 Concurrent User 1-year Subscription Renewal E-LTU	R3Q63AAE

NVIDIA RTX Virtual Workstation (RTX vWS) - Annual Subscriptions

NVIDIA RTX Virtual Workstation 1 Concurrent User 1-year Subscription E-LTU	R3Q35AAE
NVIDIA RTX Virtual Workstation 1 Concurrent User 3-year Subscription E-LTU	R3Q37AAE
NVIDIA RTX Virtual Workstation 1 Concurrent User 4-year Subscription E-LTU	R3Q38AAE
NVIDIA RTX Virtual Workstation 1 Concurrent User 5-year Subscription E-LTU	R3Q39AAE
NVIDIA RTX Virtual Workstation 1 Concurrent User 1-year Subscription Renewal E-LTU	R3Q95AAE
NVIDIA RTX Virtual Workstation 1 Concurrent User 3-year Subscription Renewal E-LTU	R3R12AAE

NVIDIA RTX Virtual Workstation (RTX vWS) for Education - Perpetual licenses

Notes:

- NVIDIA virtual GPU software products with perpetual licenses must be purchased in conjunction with a five-year-SUMS.
- NVIDIA RTX Virtual Workstation for Education is only orderable under NVIDIA Education Pricing Program including specific eligibility requirements and legal terms and conditions.

NVIDIA RTX Virtual Workstation 1 Concurrent User Education Perpetual E-LTU	R3Q94AAE
NVIDIA RTX Virtual Workstation SUMS 1 Concurrent User Education 5-year Subscription E-LTU	R3Q72AAE
NVIDIA RTX Virtual Workstation SUMS 1 Concurrent User Education 1-year Subscription Renewal E-LTU	R3Q68AAE

NVIDIA RTX Virtual Workstation (RTX vWS) for Education - Annual Subscriptions

Notes: NVIDIA RTX Virtual Workstation for Education is only orderable under NVIDIA Education Pricing Program including specific eligibility requirements and legal terms and conditions.

NVIDIA RTX Virtual Workstation 1 Concurrent User Education 1-year Subscription E-LTU	R3R26AAE
NVIDIA RTX Virtual Workstation 1 Concurrent User Education 3-year Subscription E-LTU	R3R27AAE
NVIDIA RTX Virtual Workstation 1 Concurrent User Education 1-year Subscription Renewal E-LTU	R3Q40AAE
NVIDIA RTX Virtual Workstation 1 Concurrent User Education 3-year Subscription Renewal E-LTU	R3Q42AAE

NVIDIA RTX PRO 6000 Blackwell Server Edition Software Kit - Annual Subscriptions

Notes: NVIDIA RTX PRO Blackwell Server Edition Software Kit is only orderable with RTX PRO 6000 GPU

NVIDIA RTX PRO 6000 Blackwell Server Edition per GPU 3-year E-LTU	S7K93AAE
NVIDIA RTX PRO 6000 Blackwell Server Edition per GPU 5-year E-LTU	S7K94AAE

NVIDIA RTX PRO 4500 Blackwell Server Edition Software Kit - Annual Subscriptions

Notes: NVIDIA RTX PRO 4500 Blackwell Server Edition Software Kit is only orderable with RTX PRO 4500 GPU

NVIDIA RTX PRO 4500 Blackwell Server Edition per GPU 3-year E-LTU	S8M87AAE
NVIDIA RTX PRO 4500 Blackwell Server Edition per GPU 5-year E-LTU	S8M88AAE

For more information, refer to: [NVIDIA SW Products at HPE Quotation Guidelines](#)

Technical Specifications

NVIDIA GPUs Recommended for Virtualization					
GPU	A100	A30	L40	L4	A16
GPU Architecture	NVIDIA Ampere	NVIDIA Ampere	NVIDIA Ada Lovelace	NVIDIA Ada Lovelace	NVIDIA Ampere
Memory Size	80 GB / 40 GB HBM2	24 GB HBM2	48 GB GDDR6 with ECC	24 GB GDDR6	64 GB GDDR6 (16 GB per GPU)
Virtualization Workload	Highest performance virtualized compute, including AI, HPC, and data processing. Includes support for up to seven MIG instances. Upgrade path for V100/V100S Tensor Core GPUs.	Virtualize mainstream compute and AI inference, includes support for up to four MIG instances. Upgrade path for T4.	High-end 3D visualization applications, AI training, and inference workloads. Upgrade path for Quadro® RTX 8000, Quadro RTX 6000, or T4.	Entry-level to mid-range design and creative workloads for virtual workstations. Video streaming, office productivity tools for virtual desktops. Upgrade path for T4.	Office productivity applications, streaming video and teleconferencing tools for graphics-rich virtual desktops accessible from anywhere. Upgrade path for M10 or T4.
vGPU Software Support	NVIDIA AI Enterprise	NVIDIA AI Enterprise	NVIDIA RTX Virtual Workstation (vWS), NVIDIA Virtual PC (vPC), NVIDIA Virtual Apps (vApps), NVIDIA AI Enterprise*	NVIDIA RTX vWS, vPC, vApps, NVIDIA AI Enterprise	NVIDIA RTX vWS, vPC, vApps, NVIDIA AI Enterprise

Notes: *Support for NVIDIA AI Enterprise is coming.

For more information, refer to: <https://www.nvidia.com/en-us/data-center/graphics-cards-for-virtualization/>

Summary of Changes

Date	Version History	Action	Description of Change
03-Aug-2026	Version 12	Changed	Overview, Configuration Information, and Service and Support sections were updated.
01-Dec-2025	Version 11	Changed	Configuration Information section was updated.
		Added	NVIDIA RTX Virtual Workstation (RTX vWS) for Education - Annual Subscriptions SKUs
22-Jan-2024	Version 10	Changed	Overview, Standard Features, Configuration Information, Service and Support and Technical Specifications sections were updated.
06-Nov-2023	Version 9	Changed	Configuration Information section was updated
16-Oct-2023	Version 8	Changed	Overview, Standard Features, Configuration Information sections were updated.
02-May-2022	Version 7	Changed	Configuration Information section was updated.
06-Dec-2021	Version 6	Changed	Technical Specifications section was updated

01-Nov-2021	Version 5	Changed	Obsolete SKUs were removed.
21-Jun-2021	Version 4	Changed	Overview, Standard Features, Configuration Information, Service and Support, and Technical Specifications sections were updated.
15-Feb-2021	Version 3	Changed	Configuration Information section was updated.
22-Jun-2020	Version 2	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated. Updates to align with NVIDIA marketing
01-Jun-2020	Version 1	New	New QuickSpecs

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