

### Overview

#### 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 M10 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 T4 Tensor Core or Quadro RTX 6000 or RTX 8000 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 Virtual Compute Server software (NVIDIA vComputeServer) enables data centers to accelerate server virtualization with the latest NVIDIA data center GPUs, including NVIDIA T4, V100, or V100S GPUs, so that the most compute-intensive workloads, such as artificial intelligence, deep learning, and data science, can be run in a virtual machine (VM). NVIDIA vCompute Server provides bare metal performance with operational savings costs and improved manageability of VMs see <https://www.nvidia.com/en-us/data-center/virtual-compute-server/>

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## Overview

### NVIDIA Virtual GPU Software

NVIDIA virtual GPU Software is available in four editions that deliver accelerated virtual desktops to support the needs of your users.

**1. NVIDIA Virtual Application (NVIDIA vApps)**

For organizations deploying Citrix Virtual Apps, RDSH or other app streaming or session-based solutions. Designed for PC level applications and server based desktops.

**2. NVIDIA Virtual PC (NVIDIA vPC)**

For users who want a virtual desktop but need a great user experience leveraging PC Windows applications, browsers, and high definition video.

**3. NVIDIA RTX Virtual Workstation (RTX vWS)**

For users who want to be able to use remote professional graphics applications with full performance on any device, anywhere.

**4. NVIDIA Virtual Compute Server (vComputeServer)**

For compute intensive, server workload such as artificial intelligence (AI), deep learning, or high-performance computing (HPC)

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## Standard Features

### Key Benefits

#### 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 to be productive.

#### 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,

[see https://www.nvidia.com/en-us/design-visualization/graphics-cards-for-virtualization/](https://www.nvidia.com/en-us/design-visualization/graphics-cards-for-virtualization/)

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

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## Service and Support

**Service and Support** for NVIDIA products are provided directly by NVIDIA. For any support and generic queries please visit the NVIDIA customer support portal at **URL: <http://www.nvidia.com/object/support.html>**. NVIDIA licensors service delivery organization will be responsible for responding with a call, assigning a severity level to the call, and determining the service Severity Level acceptable to Hewlett Packard Enterprise customer. The support request will be processed by NVIDIA in accordance with the Severity Level agreed upon.

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## Warranty

Any applicable software warranty is in the corresponding NVIDIA software license agreement. Please reference: **<https://www.nvidia.com/content/dam/en-zz/Solutions/design-visualization/solutions/resources/documents1/Virtual-GPU-Packaging-and-Licensing-Guide.pdf>**

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## Return Policy for Resellers

Please purchase accurate quantity required to fulfil the customer order.

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## Configuration Information

### NVIDIA virtual GPU software

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

#### NVIDIA Virtual Applications (NVIDIA vApps)

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 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)

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 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 SUMS 1 Concurrent User 3-year Subscription Renewal E-LTU	R3Q81AAE

#### NVIDIA RTX Virtual Workstation (RTX vWS)

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 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 SUMS 1 Concurrent User 3-year Subscription Renewal E-LTU	R3R12AAE

#### NVIDIA RTX Virtual Workstation (RTX vWS) for Education

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 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



## Configuration Information

### NVIDIA vComputeServer (vCS)

NVIDIA vComputeServer 1 GPU 1yr Subscription E-LTU

R6H02AAE

NVIDIA vComputeServer 1 GPU 1yr Subscription Renewal E-LTU

R6H03AAE

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## Technical Specifications

NVIDIA GPUs Recommended for Virtualization					
<b>GPU</b>	V100S/V100 with NVIDIA NVLink	Quadro RTX 8000	Quadro RTX 6000	T4	M10
<b>GPU Architecture</b>	Volta	Turing	Turing	Turing	Maxwell
<b>Cuda Cores</b>	5,120	4,608	4,608	2,560	2,560 (640 per GPU)
<b>Memory Size</b>	32/16 GB HBM2	48 GB GDDR6	24 GB GDDR6	16 GB GDDR6	32 GB GDDR5 (8 GB per GPU)
<b>Virtualization Workload</b>	Ultra-high-end rendering, simulation, and 3D design with NVIDIA RTX Virtual Workstation (RTX vWS). AI, deep learning, and data science with NVIDIA vComputeServer. Ideal upgrade path for V100.	High-end rendering, 3D design, and creative workflows with RTX vWS.	Mid-range to high-end rendering, 3D design, and creative workflows with RTX vWS.	Entry-level to high-end 3D design and engineering workflows with RTX vWS. High-density, low-power GPU acceleration for knowledge workers with NVIDIA vGPU software. AI, deep learning, and data science with vComputeServer	Knowledge workers using modern productivity apps and Windows 10 requiring best density and total cost of ownership (TCO). Multi-monitor support with NVIDIA vPC and NVIDIA vApps.
<b>VGPU Software Support</b>	RTX vWS, NVIDIA Virtual PC (NVIDIA vPC), NVIDIA Virtual Applications (NVIDIA vApps), vComputeServer	RTX vWS, NVIDIA vPC, NVIDIA vApps, vComputeServer	RTX vWS, NVIDIA vPC, NVIDIA vApps, vComputeServer	RTX vWS, NVIDIA vPC, NVIDIA vApps, vComputeServer	RTX vWS, NVIDIA vPC, NVIDIA vApps



## Summary of Changes

<b>Date</b>	<b>Version History</b>	<b>Action</b>	<b>Description of Change</b>
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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