
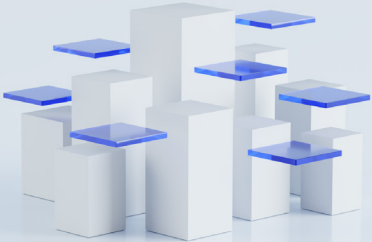



## NVIDIA GPUs FOR VIRTUALIZATION

NVIDIA virtual GPU (vGPU) software enables powerful GPU performance from the enterprise data center, as well as public and private clouds. Installed on a server with an NVIDIA GPU, the NVIDIA vGPU software creates virtual GPUs that can be shared between multiple virtual machines running on any device, anywhere. IT departments standardized on software-defined and hyperconverged infrastructure leverage the management and security benefits of virtualization – to achieve the performance of NVIDIA GPUs for modern graphics workloads.

NVIDIA RTX Virtual Workstation	NVIDIA Virtual PC	NVIDIA Virtual Apps
		
<p>NVIDIA RTX™ Virtual Workstation (vWS) is engineered for designers, architects, engineers, and artists. When paired with a powerful NVIDIA GPU, users can virtualize any application from the data center with an amazing user experience—including ANSYS Discovery Live, ESRI ArcGIS Pro, Siemens NX, Dassault Systèmes SOLIDWORKS, Autodesk Revit, and more—achieving workstation-class performance on any device.</p>	<p>NVIDIA Virtual PC (vPC) targets mobile professionals and knowledge workers who run virtual desktops that are optimized for Windows 10 and Microsoft Office applications. Software developers can also enjoy a modern software development environment, using 2D electronic design automation (EDA) tools and Linux applications. Healthcare providers and financial traders also benefit from increased productivity with support for multiple high-resolution monitors.</p>	<p>NVIDIA Virtual Apps (vApps) are used to launch applications on any device without having to present a full, virtualized desktop to a user. Remote desktop session host (RDSH) solutions can be paired with a more powerful GPU to run more graphics-intensive applications or paired with a less powerful GPU to run general-purpose applications with more users sharing a virtual machine.</p>

# NVIDIA GPUs Recommended for Virtualization

	A40	A10	A16	A2
GPU Architecture	1 NVIDIA Ampere	1 NVIDIA Ampere	4 NVIDIA Ampere	1 NVIDIA Ampere
RTX Technology	✓	✓	✓	✓
Guaranteed QoS (GPU Scheduler)	✓	✓	✓	✓
Live Migration	✓	✓	✓	✓
Multi-vGPU	✓	✓	✓	✓
Memory Size	48GB GDDR6	24GB GDDR6	64GB GDDR6 (16GB per GPU)	16GB GDDR6
vGPU Profiles	1GB, 2GB, 3GB, 4GB, 6GB, 8GB, 12GB, 16GB, 24GB, 48GB	1GB, 2GB, 3GB, 4GB, 6GB, 8GB, 12GB, 24GB	1GB, 2GB, 4GB, 8GB, 16GB	1GB, 2GB, 4GB, 8GB, 16GB
Form Factor	PCIe 4.0 dual slot	PCIe 4.0 single slot	PCIe 4.0 dual slot	PCIe 4.0 single slot
Power	300W	150W	250W	40-60W
Thermal	passive	passive	passive	passive
vGPU Software Support	vWS, vPC, vApps	vWS, vPC, vApps	vWS, vPC, vApps	vWS, vPC, vApps
Use Case	High-end 3D design and creative workflows with vWS; upgrade path for RTX 8000, RTX 6000, or T4	Mid-range 3D design and engineering workflows with vWS. High-density GPU acceleration for knowledge workers with vPC. Upgrade path for T4.	Knowledge worker virtual desktops using modern productivity apps and multimedia with NVIDIA vPC/vApps. Entry NVIDIA RTX Virtual Workstations, upgrade path for M10 or T4.	Space constrained environments and edge deployments

The following NVIDIA GPUs are also supported for virtualization: NVIDIA A10, V100/V100S, RTX A6000, RTX A5000, RTX 8000, RTX 6000, T4, P40, P6, and M10.

## WHAT MAKES NVIDIA VIRTUAL GPUS POWERFUL



### EXCEPTIONAL USER EXPERIENCE

Ultimate user experience, with the ability to support both compute and graphics workloads.



### CONTINUOUS INNOVATION

Regular cadence of new software releases to ensure you stay on top of the latest features and enhancements.



### OPTIMAL MANAGEMENT AND MONITORING

End-to-end management and monitoring for real-time insight into GPU performance. Broad partner integrations so you can use the tools you know and love.



### BEST USER DENSITY

Industry's highest user-density solution with support for up to 64 virtual desktops per physical GPU. Lower TCO with more than ten vGPU profiles for the most flexibility to provision resources to match your users' needs.



### PERFORMANCE

Consistent near bare-metal performance, whether on premises or in the cloud.



### BROADEST ECOSYSTEM SUPPORT

Support for all major hypervisors. Most extensive portfolio of professional apps certifications with NVIDIA RTX Enterprise Drivers.