

# NVIDIA GRID™ GRAPHICS-ACCELERATED VIRTUAL DESKTOPS AND APPLICATIONS



NVIDIA GRID technology delivers true PC graphics-rich experiences to users throughout the organization by offloading graphics processing from the CPU to the GPU in virtualized environments.

By adding GRID software and NVIDIA GPUs to an existing Citrix or VMware solution, data center managers can finally empower more users with full graphics capability, wherever they are.

## NVIDIA GRID-Enabled Hypervisors

NVIDIA provides Citrix, VMware, and Microsoft with GRID software libraries and technical support to enable GPU acceleration in their hypervisor products. These libraries also allow NVIDIA GRID K1 and K2 boards to be run in dedicated access mode (GPU pass-through) for power users, or NVIDIA GRID vGPU™ virtualization mode that lets multiple users share a single virtualized GPU's processing power.

## NVIDIA GRID-Enabled Virtual Desktops

A virtual desktop sitting in a remote data center requires the fastest possible remoting solution to deliver an end-user experience that's comparable to a dedicated PC. GRID's software enables virtual desktop solutions to capture and encode remote streams directly in the GRID GPU hardware, delivering a local desktop feel with dramatically reduced latency.

## NVIDIA GRID Graphics Boards

GRID graphics boards feature the NVIDIA® Kepler™ architecture that, for the first time, allows hardware virtualization of the GPU. With low-latency remote display, H.264 encoding,<sup>1</sup> and power efficiency built in, GRID lets multiple users share a single GPU while enjoying a true PC experience.

1. Consult your software provider to see if H.264 encoding is supported.



### Benefits of NVIDIA GRID for IT:

Leverage industry-leading virtualization solutions, including Citrix, Microsoft, and VMware

Add the most graphics-intensive users to virtual solutions

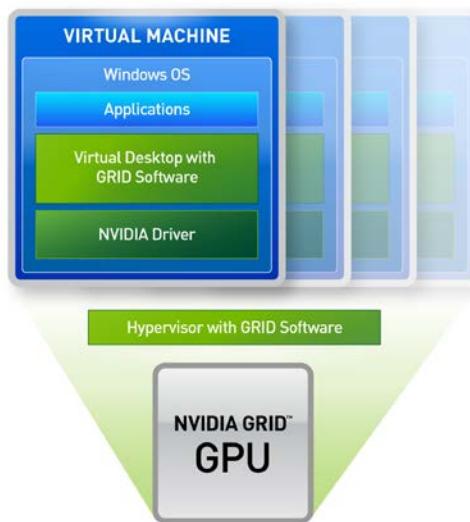
Improve the productivity of all users

### Benefits of NVIDIA GRID for users:

Enjoy highly responsive windows and rich multimedia experiences

Access all critical applications, even the most 3D-intensive, quickly and easily

Take advantage of the applications you need from anywhere, on any device



## Software Partners

The NVIDIA compatibility guarantee ensures that virtualized users experience the same state-of-the-art graphics they have at their desk. NVIDIA works with over 100 leading companies to ensure this experience meets their stringent application certification standards. A list of these solutions can be found at [www.nvidia.com/gridcertifications](http://www.nvidia.com/gridcertifications).

	NVIDIA COMPATIBILITY GUARANTEE	APPLICATION CERTIFICATIONS	GRAPHICS APIs SUPPORTED	GRID K1	GRID K2
<b>VIRTUALIZED APPLICATIONS</b>					
<b>Citrix XenApp 6.5</b> with OpenGL Add-on	✓		NVIDIA CUDA DirectX 9,10,11 OpenGL 4.3	✓	✓
<b>VIRTUAL DESKTOPS</b>					
<b>Citrix XenDesktop FP1</b> with NVIDIA GRID vGPU <sup>1</sup>	✓	✓	NVIDIA CUDA DirectX 9,10,11 OpenGL 4.3	✓	✓
<b>Microsoft RemoteFX</b> in Windows Server 2012			DirectX 9,10,11 OpenGL 1.1	✓	✓
<b>VMware Horizon View 5.2</b> with vSGA <sup>2</sup>			DirectX 9 OpenGL 2.1	✓	✓
<b>VIRTUAL REMOTE WORKSTATIONS</b>					
<b>Citrix XenDesktop 5.6</b> <b>Citrix XenDesktop 7 VDI</b> delivery	✓	✓	NVIDIA CUDA DirectX 9, 10, 11 OpenGL 4.3	4 Users	2 Power Users

## OEM Systems Partners



Also available from Asus, Fujitsu, Hitachi, Inspur, Sugon, Tyan, and Quanta.

For more information, visit [www.nvidia.com/vdi](http://www.nvidia.com/vdi)

1. NVIDIA GRID™ vGPU™ is only supported on compatible versions of Citrix XenServer. Consult Citrix for compatibility. | 2. Only compatible with VMware vSphere Hypervisor. Consult VMware for compatibility.

© 2013 NVIDIA Corporation. All rights reserved. NVIDIA, the NVIDIA logo, CUDA, Kepler, and NVIDIA GRID are trademarks and/or registered trademarks of NVIDIA Corporation. All company and product names are trademarks or registered trademarks of the respective owners with which they are associated. Features, pricing, availability, and specifications are all subject to change without notice. AUG13

