



NVIDIA AND CITRIX GRAPHICS-ACCELERATED VIRTUAL DESKTOPS AND APPLICATIONS



NVIDIA GRID™ technology delivers true PC graphics-rich experiences to users throughout an 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 solution, data center managers can finally empower more users with full graphics capability, wherever they are.

NVIDIA GRID-Enabled Hypervisors

NVIDIA provides Citrix with GRID software libraries and technical support to enable GPU acceleration in their XenServer 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,¹ and power efficiency built in, GRID lets multiple users share a single GPU while enjoying a true PC experiences.



Benefits of NVIDIA GRID for IT:

Leverage industry-leading Citrix virtualization solutions

Add your most graphics-intensive users to your virtual solutions

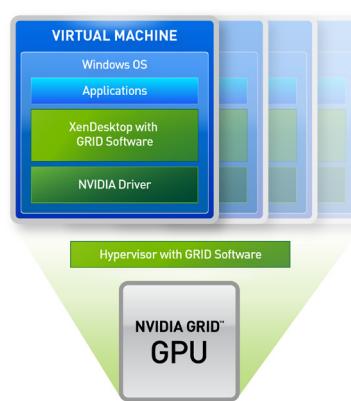
Improve the productivity of all users

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



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

In collaboration with Citrix



Specifications

	GRID K1	GRID K2
Number of GPUs	4 x entry Kepler™ based GPUs	2 x high-end Kepler™ based GPUs
Total NVIDIA® CUDA® Cores	768	3,072
Total Memory Size	16 GB DDR3	8 GB GDDR5
Max Power	130 W	225 W
Aux Power	6-pin connector	8-pin connector
Board Dimensions	10.5" long, 4.4" high, dual slot	
Display IO	None	
PCIe	x16, Gen3 (Gen2 compatible)	
Cooling Solution	Passive	

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.

NVIDIA COMPATIBILITY GUARANTEE	APPLICATION CERTIFICATIONS	GRAPHICS APIs SUPPORTED	GRID K1	GRID K2
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VIRTUALIZED APPLICATIONS

Citrix XenApp				
Citrix XenDesktop Hosted-Shared delivery	✓		DirectX 9,10,11 OpenGL 4.4	✓ ✓

VIRTUAL DESKTOPS

Citrix XenDesktop with NVIDIA GRID vGPU ¹	✓	✓	DirectX 9,10,11 OpenGL 4.4	✓	✓
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VIRTUAL REMOTE WORKSTATIONS

Citrix XenDesktop			NVIDIA CUDA 6.0 DirectX 9, 10, 11 OpenGL 4.4	4 High-End Users (pass-through)	2 High-End Users (pass-through)
Citrix XenDesktop with VDI delivery	✓	✓			

OEM System Partners



Also available from Asus, Fujitsu, Hitachi, Huawei, Inspur, Lenovo, Nutanix, Pivot3, Quanta, and Sugon. A complete list can be found at www.nvidia.com/buygrid.



Citrix and NVIDIA collaborate closely during product development to assure stability and reliability of the platform. As part of a joint Certification Program, NVIDIA GRID solutions are thoroughly tested to ensure customers get the performance they expect.

For more information, visit www.nvidia.com/vdi

1. NVIDIA GRID™ vGPU™ is only supported on compatible versions of Citrix XenServer. Consult Citrix for compatibility. | 2. NVIDIA CUDA is only supported in GPU pass-through mode.

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