

## DXG-P6

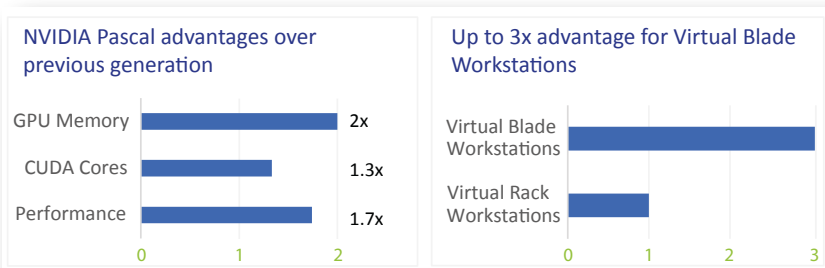
Graphics Virtualization Card  
for Dell PowerEdge M-series blades

## Datasheet

The Amulet Hotkey DXG-P6 is a unique solution that incorporates the NVIDIA Tesla P6 GPU accelerator to deliver exceptional graphics virtualization, NVIDIA Quadro® Virtual Data Center Workstation Software (Quadro vDWS), NVIDIA GRID vPC™ and compute acceleration to Dell M-series blade servers.

The DXG-P6 gives you immersive, interactive and photo-realistic environments for demanding professionals such as designers, engineers, scientists and graphics artists. Improve productivity and support flexible work-styles with anywhere, anytime access to applications and data.

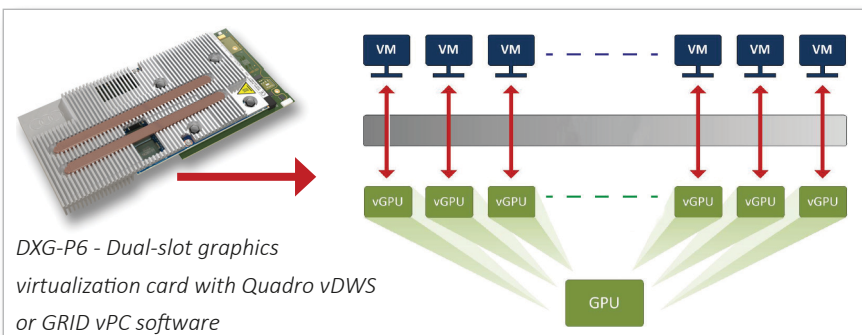
### The power of the NVIDIA Tesla P6 in a blade server



Blades provide up to three times the density for virtual workstations by matching CPU cores to virtual GPU capability. The DXG-P6 further improves scalability, manageability and security. Enterprise IT can efficiently allocate graphics and acceleration resources to a wide range of users across multiple devices/locations.

### Deploy the DXG-P6 in bare-metal or virtualized environments

NVIDIA Quadro vDWS and NVIDIA GRID vPC software lets you share the power of the Tesla P6 GPU across multiple virtual workstations, desktops and applications.



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### Key features and benefits

- Unique solution with NVIDIA Tesla P6 for Dell PowerEdge 13G & 14G M-series blade servers
- NVIDIA Pascal architecture with 2x GPU memory and 1.7x performance of the previous generation Maxwell card
- Virtualize workstations, desktops and applications with exceptional graphics and compute performance
- Blade servers deliver up to three times more workstations than other server form factors
- Support up to 16 users depending on the GPU performance required
- Boost compute capacity for machine learning, deep learning, IoT and big data analytics using CUDA and OpenCL acceleration
- Unique option for blade I/O capacity expansion by installing a secondary NIC card under the DXG-P6

### Flexible deployment applications

- Engineering and creative design
- Video and post production
- Simulation and modelling
- Remote application acceleration
- Windows 10 and Office
- Compute node for rendering and analytics

Developed in partnership with



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### More information

For latest DXG-P6 news and technical advice, please contact Amulet Hotkey.

For GPU specifications and further information about graphics virtualization technologies, visit [www.nvidia.com](http://www.nvidia.com).



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Towards greener computing

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### DXG-P6 Specifications

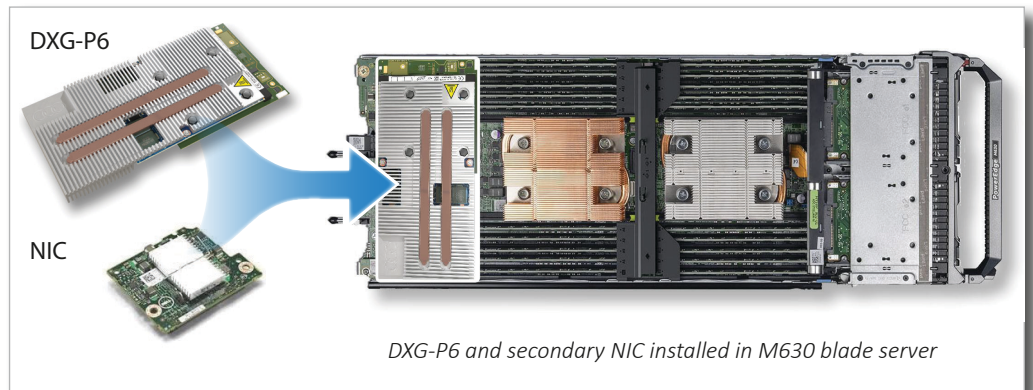
Form factor	Dual-slot mezzanine card for 13G and 14G Dell M-Series blade servers
GPU	NVIDIA Tesla GRID P6
Graphics memory	16 GB GDDR5
Memory interface	256-bit
Memory bandwidth	Up to 192 GB/s
Number of users	1 to 16
GPU cores	2048 NVIDIA CUDA cores
H.264 1080p30	24 streams
Graphics APIs	OpenGL 4.5, DirectX 12, Shader Model 5.0
Compute APIs	CUDA 6.1, DirectCompute, OpenCL 1.2
Guest OS	Windows, Linux
Licensing	NVIDIA Quadro vWDS and GRID vPC license required in a virtualized environment
Environments	VMware vSphere 6.0+, Horizon desktops, PCoIP, Blast Extreme Microsoft Hyper-V, RemoteFX Citrix XenServer, XenDesktop, XenApp

### Amulet Hotkey solutions

The **DXG-P6** is available to buy as a kit for Dell PowerEdge 14G M640 and 13G M630 blade servers. Contact Amulet Hotkey to confirm compatibility based on your configuration.

A dedicated installation tool for smooth installation is available on request.

**Amulet Hotkey CoreStation solutions** provide a complete graphics and compute virtual blade workstation based on the Dell PowerEdge M-series blade server. This includes a factory install of the DXG-P6 virtual GPU and an optional secondary NIC.



### Example CoreStation VM630 Virtual Blade Workstation

CPU	2-socket Intel Xeon E5-2600 v4 processor family with up to 44 cores
Memory	Up to 1.5 TB (24 DIMM slots): 4 GB to 64 GB DDR4 with up to 2400 MT/s
Storage	4x 1.8" or 2x 2.5" SSD/HDD drives
Graphics	DXG-P6 dual-slot card in either Fabric B or Fabric C
Secondary I/O NIC cards for Fabric B or Fabric C	Qlogic QME2572 dual 4 Gbps/8 Gbps Fibre Channel Custom Qlogic QME2662* dual 8 Gbps/16 Gbps Fibre Channel Custom Mellanox ConnectX-3* dual 10 GbE Custom Mellanox ConnectX-FDR10* dual 40 Gbps Infiniband/10 GbE Custom Intel X520* dual 10 GbE Custom Broadcom/Qlogic 57810** dual 10 GbE * Available from Amulet Hotkey      ** if no IDSDM card is installed