

Technical Specifications

NVIDIA Quadro K620 2GB Graphics



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J3G87AA

INTRODUCTION

The NVIDIA Quadro K620 offers impressive power-efficient 3D application performance and capability in a low profile design. 2 GB of DDR3 GPU memory with fast bandwidth enables you to create large, complex 3D models, and a flexible single-slot and low-profile form factor makes it compatible with even the most space and power-constrained chassis. Plus, an all-new display engine drives up to four displays with DisplayPort 1.2 support for ultra-high resolutions like 4096x2160 @ 60 Hz with 30-bit color.

The Quadro K620 is an excellent card for medium sized product development activities and media creation.

PERFORMANCE AND FEATURES

- Powerful graphics in a flexible form factor
- New NVIDIA Maxwell GPU architecture delivers advanced, power-efficient 3D application performance
- Comes with an extensive set of ISV applications certifications
- 2GB DDR3 GPU memory to handle more demanding models and datasets
- Up to quad-display support (using DisplayPort 1.2 MST technology)

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- New display engine supports ultra-high resolution monitors like 4096x2160 @ 60Hz
- Support for NVIDIA® Quadro® Mosaic, NVIDIA® nView® multi-display technology

COMPATIBILITY

The NVIDIA Quadro K620 is supported in the following HP Z Workstations:

- Z440, Z640, Z840

SERVICE AND SUPPORT

The NVIDIA Quadro K620 has a one-year limited warranty or the remainder of the warranty of the HP product in which it is installed. Technical support is available seven days a week, 24 hours a day by phone, as well as online support forums. Parts and labor are available on-site within the next business day. Telephone support is available for parts diagnosis and installation. Certain restrictions and exclusions apply.

TECHNICAL SPECIFICATIONS

Form Factor	Dimensions: 2.713" H x 6.3" L Single Slot, Low Profile Cooling: Active Weight: 133 grams
Graphics Controller	NVIDIA Quadro K620 GPU: GM107 GPU with 384 CUDA cores Power: 45 Watts
Bus Type	PCI Express 2.0 x16
Memory	Size: 2GB GDDR3 Memory Bandwidth: 29 GB/s Memory Width: 128-bit
Connectors	1 DL-DVI(I) 1 DisplayPort Factory Configured: No video cable adapter included After market option kit: One DP-to-DVI adapter included with card Additional DVI-to-VGA, DisplayPort-to-VGA or DisplayPort-to-DVI adapters are available as Factory Configuration or Option Kit accessories.
Maximum Resolution	DisplayPort 1.2: - up to 4096x2160 x 30 bpp @ 60Hz - supports High Bit Rate 2 (HBR2) and Multi-Stream Transport (MST) Dual Link DVI(I) output: - up to 2560 x 1600 x 32 bpp @ 60Hz Single Link-DVI(I) output: - up to 1920 x 1200 x 32 bpp @ 60Hz VGA (via adapter cable):

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- 2048 × 1536 × 32 bpp at 85 Hz

Image Quality Features

12-bit internal display pipeline (hardware support for 12-bit scanout on supported panels, applications and connection)

Stereoscopic 3D display support including NVIDIA® 3D Vision™ technology, 3D DLP, Interleaved, and passive stereo

Display Output

Maximum number of displays:

- 2 direct attached monitors
- 4 using DP 1.2a with MST and HBR2 enabled monitors

Maximum number of DisplayPort displays possible (may require MST and/or HBR2):

- 4 1920x1200
- 2 2560x1600
- 1 4096x2160

Maximum number of monitors across all available Quadro K620 outputs is 4.

Shading Architecture

Shader Model 5.0

Supported Graphics APIs

OpenGL 4.4
DirectX 11

API support includes:

CUDA C, CUDA C++, DirectCompute 5.0, OpenCL, Java, Python, and Fortran

Available Graphics Drivers

Microsoft Windows 8.1
Microsoft Windows 8
Microsoft Windows 7
Linux - Full OpenGL implementation, complete with NVIDIA and ARB extensions

HP qualified drivers may be preloaded or available from the HP support Web site:

<http://welcome.hp.com/country/us/en/support.html>

Notes

1. Factory configured Quadro K620 does not include a video cable adapter. Video cable adapters must be ordered separately.
 2. Quadro K620 offered as an Option Kit (AMO) includes one DP-to-DVI video cable adapter. Additional cables must be ordered separately.
 3. Full Height Profile bracket installed. Low Profile bracket included in after market kit.
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Summary of Changes

Date of change:	Version History:		Description of change:
Sept 15, 2014	Version 1	Added	Migrate to current template, add product photo

Summary of Changes

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