# QuickSpecs

Overview

#### Models

**NVIDIA Quadro K610M 1GB Graphics** 

E5Z74AA

#### Introduction

The NVIDIA Quadro® K610M graphics board is a graphics processing unit (GPU) module designed using the MXM™ version 3.1 Type A specification. This graphics module is ideal for entry level professional 3D workstation graphics applications and datasets.

### **Performance and Features**

The NVIDIA Quadro K610M offers:

- Fast 1 GB GDDR5 memory
- Lastest NVIDIA Kepler GPU architecture
- Extensive ISV application certifications

### Compatibility

Supported on HP Z1 G2 workstation.

## **Service and Support**

The NVIDIA Quadro K610M 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.



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## **Technical Specifications**

**Form Factor** MXM v3.1 Type A (82mm x 70mm) **Graphics Controller** N15M-Q3, 954MHz core clock

192 CUDA cores

**Bus Type** PCI Express Gen 3 x16 (part of MXM v3.1 connector)

1GB GDDR5 Memory

64 bit wide interface

2600MHz. 20.8 GB/s

**Connectors** One MXM v3.1 connector (285-pin)

**Maximum Resolution** 2 x 3840x2160 @ 60Hz digital displays

In Z1 G2 application:

- Internal Display: 2560x1440

- External Display via DP connector: 2560x1600

- External Display via optional Thunderbolt module: Two 3840x2160

**RAMDAC** Not Applicable

**Image Quality Features** Each color component can be processed at up to 32-bit floating point precision and displayed at up to 12-

bit precision.

Advanced FXAA and TXAA antialiasing. 16K Texture and Render Processing.

MPEG-2 HD and WMV HD video playback (1920x1080p).

H.264 hardware decode acceleration. Nvidia Scalable Geometry Engine.

**Shading Architecture** Shader Model 5.0 support Full IEEE 764-2008 32-bit **Supported Graphics APIs** 

DirectX 11.1 Shader Model 5.0

OpenGL 4.3

Compute API support for NVIDIA CUDA C, CUDA C++, DirectCompute 5.0, OpenCL, Java, Python and Fortran

**Available Graphics** 

Windows 7 64-bit Windows 8.1 64-bit **Drivers** 

SUSE Linux Enterprise Desktop 11 64-bit Red Hat Enterprise Linux 6 Workstation 64-bit

See www.hp.com/go/support for HP supported NVIDIA graphics drivers

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