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NVIDIA Quadro 3000M 2GB Graphics

A2HG99AV

Introduction

The NVIDIA Quadro® 3000M graphics board (N12E-Q1 / P1044) is a graphics processing unit (GPU) module designed using the MXM™ version 3.0 Type B specification. This graphics board is targeted for upper midrange professional 3D workstation graphics applications.

Performance and Features

Supported on HP Z1 workstation.

Service and Support

The NVIDIA Quadro 3000M 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.



QuickSpecs

Technical Specifications

Form Factor MXM v3.0 Type B (82mm x 105mm)

Graphics Controller N12E-Q1, 450MHz core clock

Bus Type PCI Express x16 (part of MXM v3.0 connector)

Memory 2GB GDDR5, 256-bit wide interface, 1250MHz

Connectors One MXM v3.0 connector (285-pin)

Maximum Resolution 2 x 2560x1600 @ 60Hz digital displays

In Z1 application:

- Internal Display: 2560x1440

- External Display via DP connector: 2560x1600

RAMDAC Not Applicable

Image Quality Features Capable of 10-bit per channel (3 channels) internal display processing, including hardware support for

10-bit per channel scan-out64-bit texture filtering and blending

Advanced vertex and pixel shaders, antialiasing, 16x anisotropic filtering

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

H.264 hardware decode acceleration

AES-128 CTR/CBC/ECB decryption modes supported

Advanced video algorithms

NVIDIA Digital Vibrance Control 3.0

Shading Architecture Shader Model 5.0 support

240 processor cores

Supported Graphics APIs Full IEEE 764-2008 32-bit or 64-bit precision

DirectX 11.0 Shader Model 5.0

OpenGL 4.0

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

and Fortran

Available Graphics

Drivers

Windows 7 32-bit and 64-bit

SUSE Linux Enterprise Desktop 11

HP Linux Installer Kit

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

Power Consumption 75W

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