

# PNY

## Quadro FX 540

### NVIDIA QUADRO FX ARCHITECTURE ACHIEVES UNPRECEDENTED PERFORMANCE

Designed for entry-level professional 3D applications, the NVIDIA Quadro FX 540 by PNY, featuring a HDTV 10-pin connector, deliver features and value without compromising on quality, precision, performance, and programmability. The NVIDIA Quadro FX entry-level GPUs provide advanced features and benefits found in the Quadro FX family, ranging from a 128-bit floating point graphics pipeline and 12-bit subpixel precision, to Quadro memory management and many more. Enabled by the NVIDIA gold-standard Unified Driver Architecture (UDA), the NVIDIA Quadro FX 540 by PNY is certified on a wide set of CAD, DCC, and scientific visualization applications, offering the value and capabilities workstation users expect.



#### KEY FEATURES & BENEFITS

**Proven Professional Graphics Architecture**  
Parallel vertex engines, programmable pixel pipelines, and workstation specific features result in the industry's highest application performance and quality.

#### Advanced Vertex and Pixel Programmability

Enables real-time shaders to simulate a wide range of physical effects and surface properties.

#### Full 128-bit Precision Graphics Pipeline

Enables mathematical computations to maintain high accuracy, resulting in unmatched visual quality.

#### 12-bit Subpixel Precision

3x that of the nearest competitive professional graphics, 12-bit subpixel precision delivers high geometric accuracy, eliminating speckles, cracks, and other rasterization anomalies..

#### PCI Express Support

Designed specifically to take advantage of the next-generation PCI Express bus architecture. This new bus doubles the bandwidth of AGP 8X delivering over 4 GB per second in both upstream and downstream data transfers.

#### Unified Driver Architecture

Provides easy installation and manageability through a single unified driver for large scale system deployment. The performance and power of the NVIDIA Quadro FX are built on a solid foundation of quality engineering. This engineering excellence is exemplified by the NVIDIA Unified Driver Architecture (UDA), which is certified for quality by the entire spectrum of CAD and DCC applications.

#### NVIDIA QUADRO FX WORKSTATION GPU:

- Full 128-bit floating-point precision pipeline
- 12-bit subpixel precision
- 8 pixels per clock rendering engine
- Hardware accelerated antialiased points and lines
- Hardware OpenGL overlay planes
- Hardware accelerated two-sided lighting
- Hardware accelerated clipping planes
- 3rd-generation occlusion culling
- 16 textures per pixel
- Hardware-Accelerated Pixel Read-Back

#### NEXT GENERATION SHADING ARCHITECTURE:

- Fully programmable GPU (OpenGL 1.5/DirectX 9.0 class)
- Long fragment and vertex programs (up to 65,536 instructions)

- Looping and subroutines (up to 256 loops per vertex program)
- Dynamic flow control
- Conditional execution

#### HIGH-LEVEL SHADER LANGUAGES:

- Optimized compilers for Cg, OpenGL shading language, and Microsoft HLSL
- OpenGL 1.5 and DirectX 9.0 support
- Open source compiler

#### ARCHITECTURE:

- x16 PCI-Express
- 128MB high-speed DDR frame buffer
- 128-bit IEEE floating-point precision graphics pipeline
- 128-bit color
- 32-bit floating point frame buffer
- 12-bit subpixel precision

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**PACKAGE CONTAINS:**

- NVIDIA Quadro FX 540 PCI Express graphics board
- CD-ROM Containing:
  - Drivers for Windows XP, 2000 & NT including DirectX 9.0 and OpenGL 1.5 support
  - Detailed Installation Guide
  - Quickstart Installation Guide

- Quadro® Application Utilities CD-ROM (MAXtreme?, POWERdraft?)

**MINIMUM SYSTEM REQUIREMENTS:**

- PC compatible with Intel Pentium® 4/Xeon® or AMD Athlon®/Opteron® class processor or higher
- PCI Express x16 lane bus
- Microsoft Windows® XP, 2000, NT4.0, (Service Pack 6) or Linux®
- 128MB system memory
- 50MB of available disk space for full installation
- CD-ROM or DVD-ROM drive
- VGA or DVI-I compatible monitor
- 350W Power Supply