



## NVIDIA® QUADRO® FX 380 LP PRO PERFORMANCE. DESIGNED FOR SMALL SPACES.

The NVIDIA® Quadro® FX 380 LP professional graphics solution, designed for desktop and small form factor systems, is certified for leading 3D applications. This power-efficient member of the Quadro family enables designers, animators, architects, and engineers to create and interact with more complex designs, increase visual quality, and maximize productivity.

In the past, in order to meet deadlines design professionals have had to sacrifice their ability to interact with intuitive and realistic 3D designs, relying on simplified representations. As a result, design decisions were often based on less precise information. Today, DCC and CAD software vendors, such as Autodesk, are shifting their applications to incorporate the addition of 3D features into previously 2D applications, making it more critical for professionals to future proof their platform.

Offered at an affordable price, the Quadro FX 380 professional graphics solution provides a 50% performance boost over previous generations. Digital artists and designers can now create stunning 3D designs from a professional platform. Enabling EnergyStar compliance, Quadro FX 380 provides extreme power efficiency to save you money. Certified on all industry-leading applications and featuring

automatic configuration of display settings, Quadro FX 380 provides both power efficiency and performance.

The entire NVIDIA Quadro family takes the leading professional applications to a new level of interactivity by enabling unprecedented capabilities in programmability and precision. The industry's leading workstation applications leverage this architecture to enable hardware-accelerated features, performance, and quality not found in any other professional graphics solutions. From Quadro FX 5800 at the ultra-high-end, and Quadro FX 4800 and 3800 at the high-end, through Quadro FX 1800 at the mid-range, to Quadro FX 580, 380, and 370 Low Profile at the entry-level, Quadro delivers the productivity you need at every price point and form factor.

### PRODUCT SPECIFICATIONS

#### FORM FACTOR

- > Low Profile, 2.731" (H) x 6.6" (L), Single Slot

#### CUDA CORES

- > 16

#### FRAME BUFFER MEMORY

- > 512 MB DDR3

#### MEMORY INTERFACE

- > 64-bit

#### MEMORY BANDWIDTH

- > 12.8 Gbps

#### MAX POWER CONSUMPTION

- > 28W

#### GRAPHICS BUS

- > PCI Express Gen 2 x16

#### DISPLAY CONNECTORS

- > Dual Link DVI (1), DisplayPort (1)

#### THERMAL SOLUTION

- > Variable Speed Active Fansink

# NVIDIA® QUADRO® FX 380 LP

Features	Benefits
Low-Profile Form Factor	Enables ISV certified, professional 3D graphics in space saving, small form factor systems.
Performance Drivers for Autodesk AutoCAD and 3D Studio Max	Increases productivity with up to a 10X acceleration in AutoCAD 2010 and up to 2X in 3D Studio Max while improving image quality.
Drive HD Video on Dual Displays	Display a separate HD video on each of the two displays, each supporting resolutions up to 2500x1600 @60Hz.
512 MB DDR3 GPU Memory with Ultra Fast Memory Bandwidth	Delivers high throughput needed to interact with large textured models.
30-Bit Color Fidelity	30-bit color fidelity (10-bits per color) enables billions rather than millions of color variations for rich, vivid image quality with the broadest dynamic range. 10-bit grayscale delivers 4X the number of shades of gray, critical for medical imaging applications.
NVIDIA CUDA Architecture	NVIDIA® CUDA™ is a revolutionary parallel computing architecture for Quadro professional GPUs, enabling breakthrough performance in areas such as video encoding, image processing, ray tracing, and accurate physics. CUDA enables this unprecedented performance via standard programming languages such as C and FORTRAN or APIs such as OpenCL and Microsoft DirectCompute.

## TECHNICAL SPECIFICATIONS

### MECHANICAL SPECIFICATIONS

- > Low Profile 2.7" x 6.6" single slot board (low profile and ATX brackets available)
- > 1 DVI-I Dual Link & 1 DisplayPort connector
- > Variable speed active fan-sink
- > 28W Max Power

### SUPPORTED PLATFORMS

- > Microsoft Windows 7 (64-bit and 32-bit)
- > Microsoft Windows Vista (64-bit and 32-bit)
- > Microsoft Windows XP (64-bit and 32-bit)
- > Microsoft Windows 2000 (32-bit)
- > Linux - Full OpenGL implementation, complete with NVIDIA and ARB extensions (64-bit and 32-bit)
- > Solaris
- > AMD64, Intel EM64T
- > PCI Express 2.0

### NVIDIA QUADRO FX 380 LP ARCHITECTURE

- > 128-bit color precision
- > Unlimited fragment instruction
- > Unlimited vertex instruction
- > 3D volumetric texture support
- > Hardware-accelerated, antialiased points & lines

- > Hardware OpenGL overlay planes
- > Hardware-accelerated, two-sided lighting
- > Hardware-accelerated clipping planes
- > 3rd-generation occlusion culling
- > Window ID clipping functionality
- > Hardware-accelerated line stippling

### SHADING ARCHITECTURE

- > Full Shader Model 4.1 (OpenGL 3.2/DirectX 10.1 class)
- > Long fragment programs (unlimited instructions)
- > Long vertex programs (unlimited instructions)
- > Looping and subroutines (up to 256 loops per vertex program)
- > Dynamic flow control
- > Conditional execution

### HIGH LEVEL SHADER LANGUAGES

- > Optimized compiler for Cg and Microsoft HLSL
- > OpenGL 3.2 and DirectX 10.1 support
- > Open source compiler

### GPU COMPUTING SUPPORT

- > CUDA C and CUDA FORTRAN
- > OpenCL
- > Microsoft DirectCompute

### HIGH-RESOLUTION ANTIALIASING

- > Rotated Grid Full-Scene Antialiasing (RG FSAA)
- > 32x FSAA dramatically reduces visual aliasing artifacts or "jaggies" at resolution up to 1920x1200

### DISPLAY RESOLUTION SUPPORT

- > DisplayPort output drives a digital display at resolutions up to 2560 x 1600 @ 60Hz
- > Dual-link DVI-I output drives a digital display at resolutions up to 2560 x 1600 @ 60Hz
- > Internal 400 MHz DAC drives one analog display up to 2048 x 1536 @ 85Hz

### NVIDIA® NVIEW® ARCHITECTURE

- > Advanced multi-display desktop & application management, seamlessly integrated into Microsoft Windows

For more information about NVIDIA Quadro, visit [www.nvidia.com/quadro](http://www.nvidia.com/quadro)

For more information about NVIDIA Quadro by PNY, visit [www.pny.com](http://www.pny.com)

PNY Technologies | 299 Webro Road | Parsippany, NJ 07054-0218 | T 408.567.5500 | F 408.567.5599 | [www.pny.com](http://www.pny.com)

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