NVIDIA QUADRO FX 370 LOW PROFILE
UNPRECEDENTED PERFORMANCE. BREAKTHROUGH PRICE.

QUADRO 370
LOW PROFILE DATASHEET

In today's competitive global marketplace, engineers, analyst, traders, designers, and power office users consistently demand more from their desktop computing solutions.

Increasingly sophisticated professional applications require higher performance and system reliability on tight information technology budgets. Although desktop PCs can address some enterprise user needs, the requirements of professional applications such as AutoCAD and Adobe require a graphics solution built for professionals. Yet, based on today's traditional workstation pricing, organizations often only deploy professional graphics solutions to hands-on designers and engineers, leaving a significant portion of the workforce with sub-optimal productivity.

Now, with the NVIDIA® Quadro® FX 370 Low Profile, organizations no longer have to make this trade-off. Built for professionals, the Quadro FX 370 Low Profile provides professional workstation graphics for small form factor desktop systems at a breakthrough price. Featuring NVIDIA® CUDA™ parallel processing cores and certified on leading professional applications, corporations can enhance productivity with a wide range of Quadro graphics solutions that meet budget requirements.

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, 5600 and 4700 X2 at the ultra-high-end, and Quadro FX 4800, 4600 and 3700 at the high-end, through Quadro FX 1700 at the mid-range, to Quadro FX 570, 470*, 370,and 370 Low Profile at the entry-level, Quadro delivers the productivity you need at every price point and form factor.

* NVIDIA Quadro FX 470 is a motherboard solution—not available as a discrete add-in graphics board

PRODUCT SPECIFICATIONS

FORM FACTOR
> Low Profile, 2.731" (H) x 6.6" (L)

FRAME BUFFER MEMORY
> 256MB DDR2

MEMORY INTERFACE
> 64-bit

MEMORY BANDWIDTH
> 8 GB/s

MAX POWER CONSUMPTION
> 25W

GRAPHICS BUS
> PCI Express x16

DISPLAY CONNECTORS
> DMS-59

SINGLE LINK DVI-I
> Yes (2)

DUAL LINK DVI
> Yes (2)

NUMBER OF SLOTS
> 1

THERMAL SOLUTION
> Fanless heatsink

Image Courtesy of Modo image created by WOw Dezign Strategies (Wick Jacobi and Robert Henry), Modo image created by Muharraqi-Studios (Khalid Al-muharraqi), NVIDIA® Corporation, and Right Hemisphere.

FEATURES AND BENEFITS

LOW-PROFILE FORM FACTOR	Enables Entry Level Professional 3D capabilities for Small Form Factor (SFF) systems.
PCI EXPRESS 2.0 COMPLIANT	Doubles the data transfer rate up to 5 GT/sec per lane for an aggregate bandwidth of 16 GB/sec bi-directional (8 GB/sec in each direction).
FANLESS DESIGN	Built with a passive heatsink for a quieter desktop environment.
NVIDIA UNIFIED GPU ARCHITECTURE	Industry's first unified architecture designed to dynamically allocate compute, geometry, shading and pixel processing power to deliver optimized GPU performance.
UNIFIED DRIVER ARCHITECTURE (UDA)	The NVIDIA UDA guarantees forward and backward compatibility with software drivers. Simplifies upgrading to a new NVIDIA product because all NVIDIA products work with the same driver software.
ROTATED-GRID FULL-SCENE ANTIALIASING (RG FSAA)	The rotated grid FSAA sampling algorithm introduces far greater sophistication in the sampling pattern, significantly increasing color accuracy and visual quality for edges and lines, reducing "jaggies" while maintaining performance.
NVIDIA PUREVIDEO HD TECHNOLOGY	The ultimate high-definition movie experience on your PC by combining high-definition movie decode acceleration and post-processing on HDCP enabled platform, HDCP circuitry, and integration with HD movie players. It delivers superb picture quality for all video formats, as well as stunning HD DVD and Blu-ray movies—with low CPU utilization and power consumption.

TECHNICAL SPECIFICATIONS

SUPPORTED PLATFORMS

- 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® x86
- AMD64, Intel EM64T

NVIDIA QUADRO FX 370 LOW PROFILE ARCHITECTURE

- 128-bit color precision
- Unlimited fragment instruction
- Unlimited vertex instruction
- 3D volumetric texture support
- 12 pixels per clock rendering engine
- Hardware accelerated antialiased points & lines
- Hardware OpenGL overlay planes
- Hardware accelerated two-sided lighting
- Hardware accelerated clipping planes
- 3rd-generation occlusion culling
- 16 textures per pixel in fragment programs
- Window ID clipping functionality
- Hardware accelerated line stippling

SHADING ARCHITECTURE

- Full Shader Model 4.0 (OpenGL 2.1/ DirectX 10 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 2.1 and DirectX 10 support
- Open source compiler

HIGH-RESOLUTION ANTIALIASING

- Rotated Grid Full-Scene Antialiasing (RG FSAA)
- 16x FSAA dramatically reduces visual aliasing artifacts or "jaggies", resulting in highly realistic scenes

DISPLAY RESOLUTION SUPPORT

- Single-link DVI-I output drives digital displays at resolutions up to 1920 x 1200 @ 60Hz
- Internal 400 MHz DACs – Two analog displays up to 2048 x 1536 @ 85Hz

NVIDIA® NVIEW® ADVANCED SOFTWARE TECHNOLOGY

- Boosts productivity by delivering maximum flexibility for single and multi-display set-ups, and provides unprecedented end-user control of the desktop experience.

To learn more about NVIDIA Quadro, go to **www.nvidia.com/quadro**

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