NVIDIA QUADRO PROFESSIONAL SOLUTIONS

NVIDIA Quadro Workstation Solutions

		PRODUCT POSITIONING	MEMORY	PRECISION GRAPHICS PIPELINE	PRECISION COLOR	PRECISION SUBPIXEL	PRECISION FSAA	PERFORMANCE[2] proe-02	PERFORMANCE[2] ugs-03	PERFORMANCE[2] 3dsmax-02	HARDWARE PROGRAMMABLE[4]	HARDWARE DIRECTX 8 AND OPENGL 1.4	HARDWARE DIRECTX 9 AND OPENGL 2.0	HARDWARE BOARD SIZE	HARDWARE GRAPHICS INTERFACE	OUTPUT OPTIONS DUAL-ANALOG	OUTPUT OPTIONS DUAL-DIGITAL[6]	OUTPUT OPTIONS ANALOG AND DIGITAL	OUTPUT OPTIONS OTHER[7]	VS. COMPETITION REPLACES	VS. COMPETITION NVIDIA QUADRO ADVANTAGE	CERTIFIED QUALITY UNIFIED DRIVER	CERTIFIED QUALITY PROFESSIONAL CERTIFICATIONS
HIGH-END	NVIDIA Quadro® FX 3000G[1]	Revolutionary advanced visualization power	256MB	128-bit	128-bit	12-bit	16x	41.6	44.4	26.1	✔	✔	✔	ATX[5]	AGP 8x	✔	✔	✔	S	No comparable products	• NVIDIA Quadro FX outperforms all products by up to 70%	✔	✔
HIGH-END	NVIDIA Quadro FX 3000			128-bit	128-bit	12-bit	16x				✔	✔	✔	ATX[5]	AGP 8x	✔	✔	✔	S			✔	✔
HIGH-END	NVIDIA Quadro FX 2000	Ultimate workstation performance and features	128MB	128-bit	128-bit	12-bit	16x	40.8	42.7	26.0	✔	✔	✔	ATX[5]	AGP 8x	✔	✔	✔	S			✔	✔
HIGH-END	NVIDIA Quadro FX 1000							33.9	33.2	23.3												✔	✔
MID-RANGE	NVIDIA Quadro4 980 XGL	Aggressive blend of price, performance, and features	128MB	32-bit	32-bit	8-bit	8x	23.3	23.6	20.0	✔	✔		ATX	AGP 8x	✔		✔	S	Wildcat™4/ VP	• 980 XGL outperforms Wildcat4 and FireGL X1	✔	✔
MID-RANGE	NVIDIA Quadro4 750 XGL							19.9	18.0	17.9	✔	✔		ATX	AGP 4x	✔		✔	S	FireGL™ X1	• 750 XGL outperforms Wildcat VP990	✔	✔
ENTRY-LEVEL	NVIDIA Quadro FX 500	NVIDIA Quadro FX features at an entry-level price	128MB	128-bit	128-bit	12-bit	8x	16.8	12.2	12.1	✔	✔		ATX	AGP 8x	✔		✔	N/A	FireGL E1	• FX 500 outperforms FireGL E1	✔	✔
ENTRY-LEVEL	NVIDIA Quadro4 580 XGL	Fastest entry-level 3D workstation graphics performance	64MB	32-bit	32-bit	4-bit	4x	15.2	12.4	11.4	✔			SFF[3]	AGP 8x	✔		✔	N/A	Wildcat VP	• 380/580 XGL are faster than Wildcat VP560	✔	✔
ENTRY-LEVEL	NVIDIA Quadro4 380 XGL							14.0	11.5	10.6	✔			ATX	AGP 8x	✔		✔	TV	FireGL/8800	• Entry 380 XGL is faster than FireGL E1/8800	✔	✔
MOBILE	NVIDIA Quadro FX Go700	Uncompromised professional graphics to Go	128MB	128-bit	128-bit	12-bit	8x	23.5	17.2	14.5	✔	✔	✔	Mobile	AGP 8x	N/A	N/A		TV	Mobility FireGL 9000	• More than 2x the performance and programmability of Mobility FireGL 9000	✔	✔

PROFESSIONAL CERTIFICATION EXAMPLES:

CAD
AutoCAD®
CATIA®
Inventor®
Microstation®
Pro/ENGINEER®
Solid Edge®
SolidWorks®
Unigraphics®
UG/SDRC®

DCC
3ds max®
combustion®
Houdini™
Lightwave®
Maya®
Softimage®
StudioTools®

…and many others

[1] NVIDIA Quadro FX 3000G features Genlock/Framelock capabilities
[2] SPECviewperf® 7.1: for more information, please visit www.spec.org. Tested on 3.2 GHz Pentium® 4, 2GB RAM, Driver Release 44.71. Source: NVIDIA® Performance Labs.
[3] Small form factor
[4] NV_vertex_program and register combiners
[5] Requires supplemental power connector
[6] Dual-link TMDS for QUXGA (3840x2400) digital flat panels (NVIDIA Quadro FX 2000/3000/3000G
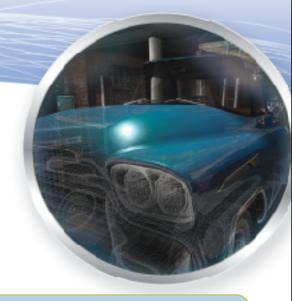[7] **S**=3-pin stereo sync connector, **TV**=TV support

NVIDIA Quadro Corporate Solutions

		PRODUCT POSITIONING	MEMORY	HARDWARE BOARD SIZE	HARDWARE GRAPHICS INTERFACE	SOFTWARE PROFESSIONAL APPLICATIONS	SOFTWARE UNIFIED DRIVER	SOFTWARE NVIDIA nView	OUTPUT OPTIONS QUAD-ANALOG	OUTPUT OPTIONS QUAD-DIGITAL	OUTPUT OPTIONS DUAL-ANALOG	OUTPUT OPTIONS DUAL-DIGITAL up to 1280x1024 digital display resolution	OUTPUT OPTIONS DUAL-DIGITAL up to 1600x1200 digital display resolution	VS. COMPETITION REPLACES	VS. COMPETITION NVIDIA QUADRO NVS ADVANTAGE
QUAD-DISPLAY	NVIDIA Quadro NVS 400	Ideal solution for power users that require four analog or four digital displays from one board	64MB	PCI	PCI	✔	✔	✔	✔	✔	✔	✔		Matrox™ G200/G450MMS — Appian Rushmore™ AppianX™	• Quad 350MHz RAMDACs • 64MB of graphics memory • nView™ desktop management software
DUAL-DISPLAY	NVIDIA Quadro NVS 280	Low-profile multi-display boards provide flexible dual-analog or dual-digital display support	64MB	SFF[3]	AGP 8x	✔	✔	✔			✔	✔	✔	Matrox Millennium G450/G550	• Dual 350MHz RAMDACs • 64MB of graphics memory • nView desktop management software • Low-profile form factors
DUAL-DISPLAY	NVIDIA Quadro NVS 200		64MB	SFF[3]	AGP 4x/ PCI	✔	✔	✔			✔		✔	ATI Radeon™ VE/7000	

PROFESSIONAL APPLICATION EXAMPLES

Financial
Bloomberg®
Reuters®
TradeStation™

Business
Hummingbird Exceed®
Lotus Notes®
McAfee® Virus Scan
Microsoft® Office Suite
pcAnywhere™

…and many others

DO YOU RUN A PROFESSIONAL APPLICATION?

NO → **YES** →

NVIDIA G-FORCE

NVIDIA Quadro

NVIDIA offers a complete line of GeForce™ consumer graphics solutions

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Certified for CAD, DCC, and visualization applications such as:

Mechanical Computer-Aided Design (MCAD):
- AutoDESK AutoCAD and Inventor
- Dassault CATIA and SolidWorks
- PTC Pro/ENGINEER
- Unigraphics/SDRC
- ...and many more

Digital Content Creation (DCC):
- Discreet 3ds max
- Alias | Wavefront Maya
- Softimage XSI
- NewTek Lightwave
- Side Effects Houdini
- ...and many more

Video Applications:
- Adobe suite
- Avid
- discreet combustion
- Macromedia suite
- Pinnacle
- ...and many more

Designed for business applications such as:

Financial Applications:
- Bloomberg
- Reuters
- Tradestation
- ...and many more

Corporate Applications:
- Hummingbird Exceed
- Lotus Notes
- McAfee Virus Scan
- MicrosoftOffice Suite
- pcAnywhere

- ...and many more

The Definition of Performance. The Standard for Quality
- 5th-generation Quadro architecture
- Certified for OpenGL® and DirectX® workstation applications
- NVIDIA nView™ multi-display technology

The Corporate Choice for Multi-display Graphics
- NVIDIA nView multi-display technology: advanced IT and system administration solution
- Guaranteed compatibility for business applications
- Industry's best image quality and display flexibility

Mobile	High-End	Mid-Range	Entry-Level		Quad-Display	Dual-Display

| FX Go700 | FX 1000/2000/3000/3000G | 750/980 XGL | FX 500 | 380/580 XGL | NVS 400 | NVS 200/280 |

Uncompromised professional graphics to Go

Ultimate workstation performance and features

Aggressive blend of price, performance, and features

Fastest entry-level workstation graphics performance