



NVIDIA® Quadro® FX 5800 by PNY®

Shatter the Limits Facing CAD, DCC, and Visualization Applications

VCQFX5800-PCIE-PB



If redefining the possible is the reality you routinely work to realize the NVIDIA Quadro FX 5800 by PNY deserves your careful consideration. Geophysics and computational biology, among numerous other scientific disciplines, designers, engineers, and other technical professionals who demand visual supercomputing from their desktops finally have a solution sophisticated and powerful enough to shepherd projects from insight thru development, to delivery

Quadro FX 5800 is EnergyStar compliant, with a reasonable – for the performance and features delivered – 189W power consumption rating. This ultra high-end member of the Quadro family enables demanding professionals from any discipline to realize breakthrough performance in areas such as interactive ray tracing, finite element analysis, computational fluid dynamics, geosciences, or bioinformatics.

Key Features and Benefits:

- **CUDA Parallel Computing Architecture:** A revolutionary parallel computing architecture for Quadro professional GPUs that enables breakthrough performance in areas such as video encoding, image processing, financial modeling, or in-silico engineering or research.
- **4GB GDDR3 GPU Memory with Ultra Fast 512-bit Memory Interface:** Delivers ultimate currently available throughput of 102GB/sec necessary to interact with and visualize massive models with high fidelity color definition for vivid, interactive modeling.
- **Visual Supercomputing Right on Your Workstation:** The synergistic combination of 240 CUDA parallel processor cores, 4GB of ultra-fast GPU memory and 30-bit color precision bring visual supercomputing to desktop environments.

- **30-bit Color Fidelity:** 30-bit color fidelity (10-bits per primary color) enables billions rather than millions of color variations for rich, vivid image quality with the broadest dynamic range of 4x the number of shades of gray critical for medical imaging applications.
- **Full-Scene Antialiasing (FSAA):** Up to 32x FSAA dramatically reduces visual aliasing artifacts or 'jaggies,' resulting in highly realistic scenes.
- **3 Year Standard Warranty and Professional Support:** PNY offers pre- and post-sales assistance, a 3 year standard warranty, toll-free professional technical support, and an unwavering commitment to customer satisfaction. Windows 7, Vista, XP (32- or 64-bit), Windows 2000 (32-bit) and Linux (32- or 64-bit) drivers are available.

Package Includes:

- DVI to VGA adapter (two)
- Auxiliary power connection cable (two)
- Driver CD with PDF documentation
- Printed Quick Install Guide

► **For More Information:** www.pny.com/quadro

Form Factor	Memory Size	CUDA™ Parallel Processor Cores	Max Power Consumption	Number of slots	Display Connectors
ATX, 4.36" H x 10.5" L	4GB GDDR3	240	189W	2	Dual Link DVI (2), DP, ST

*Viewperf 10 Geomean comparison to GeForce GTX 250

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Professional Solutions. Professional Support.

	Part No.	Memory Size	Bus Type	Form Factor	Dimensions	Power	Memory Interface	Display Connectors	Max. Displays	HD-SDI Option	G-Sync Option
QUADRO FX ULTRA HIGH END											
Quadro FX 5800	VCQFX5800-PCIE-PB	4GB GDDR3	PCIE x16	Full Height	4.376" x 10.5"	189W - Active	512-bit	DVI DL (2), DP, ST	2	✓	✓
Quadro FX 5600	VCQFX5600-PCIE-PB	1.5GB GDDR3	PCIE x16	Full Height	4.376" x 12.28"	171W - Active	384-bit	DVI DL (2), ST	2	✓	✓
Quadro FX 4800	VCQFX4800-PCIE-PB	1.5GB GDDR3	PCIE x16	Full Height	4.376" x 10.5"	146W - Active	384-bit	DVI DL, DP (2), ST	2	✓	✓
Quadro FX 4700 X2	VCQFX4700X2-PCIE-PB	2GB GDDR3 ³	PCIE x16	Full Height	4.376" x 10.5"	226W - Active	256-bit	DVI DL (4), ST	4		✓
Quadro FX 4600	VCQFX4600-PCIE-PB	768MB GDDR3	PCIE x16	Full Height	4.376" x 9.0"	134W - Active	384-bit	DVI DL (2), ST	2	✓	✓
QUADRO FX FOR MAC											
Quadro FX 4800 for MAC	VCQFX4800MACX16-PB	1.5GB GDDR3	PCIE x16	Full Height	4.376" x 10.5"	150W - Active	384-bit	DVI DL (2), ST	2		
QUADRO FX HIGH END											
Quadro FX 3800	VCQFX3800-PCIE-PB	1GB GDDR3	PCIE x16	Full Height	4.376" x 7.8"	107W - Active	256-bit	DVI DL, DP (2), ST	2	✓	
Quadro FX 3700	VCQFX3700-PCIE-PB	512MB GDDR3	PCIE x16	Full Height	4.376" x 9.0"	78W - Active	256-bit	DVI DL (2), ST	2		
QUADRO FX MID RANGE											
Quadro FX 1800	VCQFX1800-PCIE-PB	768MB GDDR3	PCIE x16	Full Height	4.376" x 7.8"	59W - Active	192-bit	DVI DL, DP (2)	2		
Quadro FX 1700	VCQFX1700-PCIE-PB	512MB GDDR2	PCIE x16	Full Height	4.376" x 6.60"	42W - Active	128-bit	DVI DL (2)	2		
QUADRO FX ENTRY LEVEL											
Quadro FX 580	VCQFX580-PCIE-PB	512MB GDDR3	PCIE x16	Full Height	4.376" x 6.88"	40W - Active	128-bit	DVI DL, DP (2)	2		
Quadro FX 570	VCQFX570-PCIE-PB	256MB GDDR2	PCIE x16	Full Height	4.376" x 6.60"	38W - Active	128-bit	DVI DL (2)	2		
Quadro FX 380	VCQFX380-PCIE-PB	256MB GDDR3	PCIE x16	Full Height	4.376" x 6.60"	34W - Active	128-bit	DVI DL (2)	2		
Quadro FX 380 LP	VCQFX380LP-PCIE-PB	512MB GDDR3	PCIE x16	Low Profile ¹	2.731" x 6.60"	28W - Active	64-bit	DVI DL, DP	2		
Quadro FX 370 LP	VCQFX370LP-PCIE-PB	256MB GDDR2	PCIE x16	Low Profile ¹	2.731" x 6.60"	25W - Passive	64-bit	DMS-59 ⁴	2		
QUADRO NVS DUAL MONITOR											
Quadro NVS 290 X16	VCQ290NVS-PCIEX16-PB	256MB GDDR2	PCIE x16	Low Profile ¹	2.731" x 6.60"	21W - Passive	64-bit	DMS-59 ⁴	2		
Quadro NVS 290 X1	VCQ290NVS-PCIEX1-PB	256MB GDDR2	PCIE x1	Low Profile ¹	2.731" x 6.60"	21W - Passive	64-bit	DMS-59 ⁴	2		
Quadro NVS 295 X16 for DisplayPort	VCQ295NVS-X16-PB	256MB GDDR3	PCIE x16	Low Profile ¹	2.731" x 6.60"	23W - Passive	64-bit	DP (2)	2		
Quadro NVS 295 X16 for DVI	VCQ295NVS-X16-DVI-PB	256MB GDDR3	PCIE x16	Low Profile ¹	2.731" x 6.60"	23W - Passive	64-bit	DP to DVI (2)	2		
Quadro NVS 295 X1 for DisplayPort	VCQ295NVS-X1-PB	256MB GDDR3	PCIE x1	Low Profile ¹	2.731" x 6.60"	23W - Passive	64-bit	DP (2)	2		
Quadro NVS 295 X1 for DVI	VCQ295NVS-X1-DVI-PB	256MB GDDR3	PCIE x1	Low Profile ¹	2.731" x 6.60"	23W - Passive	64-bit	DP to DVI (2)	2		
QUADRO NVS QUAD MONITOR											
Quadro NVS 420 x16 for DisplayPort	VCQ420NVS-X16-DP-PB	512MB GDDR3 ²	PCIE x16	Low Profile ¹	2.731" x 6.60"	40W - Active	128-bit	VHDCI (1) ⁵	4		
Quadro NVS 420 x16 for DVI	VCQ420NVS-X16-DVI-PB	512MB GDDR3 ²	PCIE x16	Low Profile ¹	2.731" x 6.60"	40W - Active	128-bit	VHDCI (1) ⁶	4		
Quadro NVS 420 x1 for DisplayPort	VCQ420NVS-X1-DP-PB	512MB GDDR3 ²	PCIE x1	Low Profile ¹	2.731" x 6.60"	40W - Active	128-bit	VHDCI (1) ⁵	4		
Quadro NVS 420 x1 for DVI	VCQ420NVS-X1-DVI-PB	512MB GDDR3 ²	PCIE x1	Low Profile ¹	2.731" x 6.60"	40W - Active	128-bit	VHDCI (1) ⁶	4		
Quadro NVS 450 x16 for DisplayPort	VCQ450NVS-X16-PB	512MB GDDR3 ²	PCIE x16	Full Height	4.376" x 6.60"	35W - Passive	128-bit	DP (4)	4		
Quadro NVS 450 x16 for DVI	VCQ450NVS-X16-DVI-PB	512MB GDDR3 ²	PCIE x16	Full Height	4.376" x 6.60"	35W - Passive	128-bit	DP to DVI (4)	4		

(1) Full Height bracket also supplied; (2) 512MB total frame buffer (256MB GDDR3 memory per GPU); (3) 2GB total frame buffer (1GB GDDR3 memory per GPU); (4) Ships with DMS-59 to 2 DVI adapter; (5) Ships with VHDCI to 4 DP adapter; (6) Ships with VHDCI to 4 DVI adapter; DP = DisplayPort. Limited 3rd Party availability on DP to VGA converters (non-certified)

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