



NVIDIA® Quadro® 6000 by PNY Technologies®

Part #: VCQ6000-PB

World's First 6 GB Professional Graphics Solution

NVIDIA Quadro 6000 by PNY delivers the industry's largest 6 GB GDDR5 graphics memory. Built on the innovative NVIDIA Fermi architecture and providing 448 NVIDIA CUDA™ parallel processing cores, the Quadro 6000 delivers up to 5X faster performance across a broad range of design, animation and video applications.

Modern applications harness the latest NVIDIA® CUDA™ parallel processing architecture of Quadro GPUs to deliver performance gains up to 8X faster when running computationally intensive applications such as ray tracing, video processing and computational fluid dynamics. For high-precision, data-sensitive applications, Quadro is the only professional graphics solution with ECC memory and fast double precision capabilities to ensure the accuracy and fidelity of your results. From medical imaging to structural analysis applications, data integrity and precision is assured, without sacrificing performance.

Package includes:

- NVIDIA Quadro 6000 by PNY professional graphics board
- DVI to VGA adapter
- DisplayPort to DVI adapter
- Two auxiliary power connection cables
- Driver CD (Windows 7, Vista, XP) with PDF documentation
- Printed Quick Install Guide

PNY Advantage:

- 3 year warranty
- Support for NVIDIA Quadro by PNY in all system brands
- Pre-and post sales assistance
- Toll-free professional technical support
- Dedicated Field Application Engineers

PNY provides unsurpassed service and commitment to its professional graphics customers. In addition, PNY delivers a complete solution including the appropriate adapters, cables, brackets, driver CD and documentation to ensure a quick and successful install.



Product Specifications:

GPU Memory	6 GB GDDR5
Memory Interface	384-bit
Memory Bandwidth	144 GB/sec
CUDA Parallel Processing Cores	448
ECC (Error Correcting Code)	Yes
High Performance Double Precision	Yes
Maximum Power Consumption	225 W
Physical Dimensions	4.376" (H) x 9.75" (L) Dual Slot
Display Connectors	DVI-DL (1), DP (2), Stereo (1)
Number of Displays Supported	2
DP	Yes
DVI	Yes
VGA	Yes
Graphics Bus	PCI Express 2.0 x16
Thermal Solution	Active
3D Vision Pro	Support via 3-pin mini DIN
G-Sync	Version Available
HD SDI Capture/Output	Version Available
Maximum Digital Resolution	2560 x 1600 @ 60Hz
APIs	DirectX 11, Open GL 4.0 and Shader Model 5.0
Support for	Microsoft Windows 7, Vista or XP (64-bit and 32-bit) Linux® (64-bit and 32-bit) Solaris®
Warranty	3 Year Warranty
PNY Part Number	VCQ6000-PB

* Note: With ECC on, a portion of the dedicated memory is used for ECC bits, so the available user memory is reduced by 12.5%. (e.g. 3 GB total memory yields 2.625 GB of user available memory.)

For more information visit: www.pny.com/quadro



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Professional Solutions. Professional Support.

QUADRO ULTRA HIGH END		Part No.	GPU Memory	Memory Interface	CUDA Cores	Dimensions	Power & Thermal	Display Connectors	Max. Displays	HD-SDI Versions ⁵	G-Sync Versions ⁶	ECC	High Performance Double Precision
Quadro 6000	NEW!	VCQ6000-PB	6GB GDDR5	384-bit	448	FH ¹ x 9.75"	225W - Active	DVI DL, DP (2) ²	2	✓	✓	✓	✓
Quadro FX 5800		VCQFX5800-PCIE-PB	4GB GDDR3	512-bit	240	FH x 10.5"	189W - Active	DVI DL (2), DP	2	✓	✓		
Quadro 5000	NEW!	VCQ5000-PB	2.5GB GDDR5	320-bit	352	FH x 9.75"	152W - Active	DVI DL, DP (2)	2	✓	✓	✓	✓
Quadro FX 4800		VCQFX4800-PCIE-PB	1.5GB GDDR3	384-bit	192	FH x 10.5"	146W - Active	DVI DL, DP (2)	2	✓	✓		
QUADRO FX FOR MAC													
Quadro FX 4800 for MAC		VCQFX4800MACX16-PB	1.5GB GDDR3	384-bit	192	FH x 10.5"	150W - Active	DVI DL (2)	2				
QUADRO FX HIGH END													
Quadro 4000	NEW!	VCQ4000-PB	2GB GDDR5	256-bit	256	FH x 9.5"	142W - Active	DVI DL, DP (2)	2	✓			✓
Quadro FX 3800		VCQFX3800-PCIE-PB	1GB GDDR3	256-bit	192	FH x 7.8"	107W - Active	DVI DL, DP (2)	2	✓			
QUADRO FX MID RANGE													
Quadro FX 1800		VCQFX1800-PCIE-PB	768MB GDDR3	192-bit	64	FH x 7.8"	59W - Active	DVI DL, DP (2)	2				
QUADRO FX ENTRY LEVEL													
Quadro FX 580		VCQFX580-PCIE-PB	512MB GDDR3	128-bit	32	FH x 6.60"	40W - Active	DVI DL, DP (2)	2				
Quadro FX 380		VCQFX380-PCIE-PB	256MB GDDR3	128-bit	16	FH x 6.60"	34W - Active	DVI DL (2)	2				
Quadro FX 380 LP		VCQFX380LP-PCIE-PB	512MB GDDR3	64-bit	16	LP ³ x 6.60"	28W - Active	DVI DL, DP	2				
Quadro FX 370 LP		VCQFX370LP-PCIE-PB	256MB GDDR2	64-bit	8	LP ³ x 6.60"	25W - Passive	DMS-59	2				
QUADRO NVS DUAL MONITOR													
Quadro NVS 290 X16		VCQ290NVS-PCIEX16-PB	256MB GDDR2	64-bit	16	LP ³ x 6.60"	21W - Passive	DMS-59	2				
Quadro NVS 290 X1		VCQ290NVS-PCIEX1-PB	256MB GDDR2	64-bit	16	LP ³ x 6.60"	21W - Passive	DMS-59	2				
Quadro NVS 295 X16 for DisplayPort		VCQ295NVS-X16-PB	256MB GDDR3	64-bit	8	LP ³ x 6.60"	23W - Passive	DP (2)	2				
Quadro NVS 295 X16 for DVI		VCQ295NVS-X16-DVI-PB	256MB GDDR3	64-bit	8	LP ³ x 6.60"	23W - Passive	DP to DVI (2)	2				
Quadro NVS 295 X1 for DisplayPort		VCQ295NVS-X1-PB	256MB GDDR3	64-bit	8	LP ³ x 6.60"	23W - Passive	DP (2)	2				
Quadro NVS 295 X1 for DVI		VCQ295NVS-X1-DVI-PB	256MB GDDR3	64-bit	8	LP ³ x 6.60"	23W - Passive	DP to DVI (2)	2				
QUADRO NVS QUAD MONITOR													
Quadro NVS 420 x16 for DisplayPort		VCQ420NVS-X16-DP-PB	512MB GDDR3 ⁴	128-bit	16	LP ³ x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x16 for DVI		VCQ420NVS-X16-DVI-PB	512MB GDDR3 ⁴	128-bit	16	LP ³ x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x1 for DisplayPort		VCQ420NVS-X1-DP-PB	512MB GDDR3 ⁴	128-bit	16	LP ³ x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x1 for DVI		VCQ420NVS-X1-DVI-PB	512MB GDDR3 ⁴	128-bit	16	LP ³ x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 450 x16 for DisplayPort		VCQ450NVS-X16-PB	512MB GDDR3 ⁴	128-bit	16	FH x 6.60"	35W - Passive	DP (4)	4				
Quadro NVS 450 x16 for DVI		VCQ450NVS-X16-DVI-PB	512MB GDDR3 ⁴	128-bit	16	FH x 6.60"	35W - Passive	DP to DVI (4)	4				

¹ FH = Full Height ATX, 4.376"

² DP = DisplayPort, NVIDIA certified DP to VGA adapters are available from PNY

³ LP = Low Profile, 2.731". Full Height bracket also supplied

⁴ 512MB total frame buffer (256MB GDDR3 memory per GPU)

⁵ NVIDIA Quadro by PNY models available as HD SDI versions

⁶ NVIDIA Quadro by PNY models available as G-Sync versions