



## NVIDIA® Quadro® 4000 by PNY Technologies®

Part #: VCQ4000-PB

### Accelerate your entire workflow

Offering 2 GB of GDDR5 graphics memory, 256 NVIDIA CUDA™ parallel processing cores and built on the innovative Fermi architecture, the NVIDIA Quadro 4000 by PNY is a true technological breakthrough delivering excellent performance across a broad range of design, animation and video applications. Using the Quadro 4000 graphics solution, your work flows — you can design, render and deliver higher quality projects in less time.

The NVIDIA Quadro 4000 by PNY graphics board significantly raises the bar for high performance visualization and computation providing Microsoft DirectX 11.0 and Shader Model 5.0 hardware acceleration, and the ability to drive a variety of display types including: CRTs, Digital Flat Panels, Projectors and HDTVs.

### Package includes:

- NVIDIA Quadro 4000 by PNY professional graphics board
- DVI to VGA adapter
- DisplayPort to DVI adapter
- Stereo connector bracket
- Auxiliary power connection cable
- 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	2 GB GDDR5
Memory Interface	256-bit
Memory Bandwidth	89.6 GB/sec
CUDA Parallel Processing Cores	256
High Performance Double Precision	Yes
Maximum Power Consumption	142 W
Physical Dimensions	4.376" (H) x 9.5" (L)
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
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	VCQ4000-PB

For more information visit: [www.pny.com/quadro](http://www.pny.com/quadro)



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# NVIDIA® Quadro® by PNY

Professional Solutions. Professional Support.

	Part No.	GPU Memory	Memory Interface	CUDA Cores	Dimensions	Power & Thermal	Display Connectors	Max. Displays	HD-SDI Versions <sup>5</sup>	G-Sync Versions <sup>6</sup>	ECC	High Performance Double Precision
<b>QUADRO ULTRA HIGH END</b>												
Quadro 6000	NEW!	VQ6000-PB	384-bit	448	FH <sup>1</sup> x 9.75"	225W - Active	DVI DL, DP (2) <sup>2</sup>	2	✓	✓	✓	✓
Quadro FX 5800		VQFX5800-PCIE-PB	512-bit	240	FH x 10.5"	189W - Active	DVI DL (2), DP	2	✓	✓		
Quadro 5000	NEW!	VQ5000-PB	320-bit	352	FH x 9.75"	152W - Active	DVI DL, DP (2)	2	✓	✓	✓	✓
Quadro FX 4800		VQFX4800-PCIE-PB	384-bit	192	FH x 10.5"	146W - Active	DVI DL, DP (2)	2	✓	✓		
<b>QUADRO FX FOR MAC</b>												
Quadro FX 4800 for MAC		VQFX4800MACX16-PB	384-bit	192	FH x 10.5"	150W - Active	DVI DL (2)	2				
<b>QUADRO FX HIGH END</b>												
Quadro 4000	NEW!	VQ4000-PB	256-bit	256	FH x 9.5"	142W - Active	DVI DL, DP (2)	2	✓			✓
Quadro FX 3800		VQFX3800-PCIE-PB	256-bit	192	FH x 7.8"	107W - Active	DVI DL, DP (2)	2	✓			
<b>QUADRO FX MID RANGE</b>												
Quadro FX 1800		VQFX1800-PCIE-PB	192-bit	64	FH x 7.8"	59W - Active	DVI DL, DP (2)	2				
<b>QUADRO FX ENTRY LEVEL</b>												
Quadro FX 580		VQFX580-PCIE-PB	128-bit	32	FH x 6.60"	40W - Active	DVI DL, DP (2)	2				
Quadro FX 380		VQFX380-PCIE-PB	128-bit	16	FH x 6.60"	34W - Active	DVI DL (2)	2				
Quadro FX 380 LP		VQFX380LP-PCIE-PB	64-bit	16	LP <sup>3</sup> x 6.60"	28W - Active	DVI DL, DP	2				
Quadro FX 370 LP		VQFX370LP-PCIE-PB	64-bit	8	LP <sup>3</sup> x 6.60"	25W - Passive	DMS-59	2				
<b>QUADRO NVS DUAL MONITOR</b>												
Quadro NVS 290 X16		VQ290NVS-PCIEX16-PB	64-bit	16	LP <sup>3</sup> x 6.60"	21W - Passive	DMS-59	2				
Quadro NVS 290 X1		VQ290NVS-PCIEX1-PB	64-bit	16	LP <sup>3</sup> x 6.60"	21W - Passive	DMS-59	2				
Quadro NVS 295 X16 for DisplayPort		VQ295NVS-X16-DVI-PB	64-bit	8	LP <sup>3</sup> x 6.60"	23W - Passive	DP (2)	2				
Quadro NVS 295 X16 for DVI		VQ295NVS-X16-DVI-PB	64-bit	8	LP <sup>3</sup> x 6.60"	23W - Passive	DP to DVI (2)	2				
Quadro NVS 295 X1 for DisplayPort		VQ295NVS-X1-PB	64-bit	8	LP <sup>3</sup> x 6.60"	23W - Passive	DP (2)	2				
Quadro NVS 295 X1 for DVI		VQ295NVS-X1-DVI-PB	64-bit	8	LP <sup>3</sup> x 6.60"	23W - Passive	DP to DVI (2)	2				
<b>QUADRO NVS QUAD MONITOR</b>												
Quadro NVS 420 x16 for DisplayPort		VQ420NVS-X16-DP-PB	128-bit	16	LP <sup>3</sup> x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x16 for DVI		VQ420NVS-X16-DVI-PB	128-bit	16	LP <sup>3</sup> x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x1 for DisplayPort		VQ420NVS-X1-DP-PB	128-bit	16	LP <sup>3</sup> x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x1 for DVI		VQ420NVS-X1-DVI-PB	128-bit	16	LP <sup>3</sup> x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 450 x16 for DisplayPort		VQ450NVS-X16-PB	128-bit	16	FH x 6.60"	35W - Passive	DP (4)	4				
Quadro NVS 450 x16 for DVI		VQ450NVS-X16-DVI-PB	128-bit	16	FH x 6.60"	35W - Passive	DP to DVI (4)	4				

<sup>1</sup> FH = Full Height ATX, 4.376"

<sup>2</sup> DP = DisplayPort, NVIDIA certified DP to VGA adapters are available from PNY

<sup>3</sup> LP = Low Profile, 2.731". Full Height bracket also supplied

<sup>4</sup> 512MB total frame buffer (256MB GDDR3 memory per GPU)

<sup>5</sup> NVIDIA Quadro by PNY models available as HD SDI versions

<sup>6</sup> NVIDIA Quadro by PNY models available as G-Sync versions

