



Features two dual-link DVI connectors

NVIDIA® Quadro® 2000D by PNY Technologies®

Part #: VCQ2000D-PB

Delivering the industry's best-in-class performance across leading professional ISV applications, the NVIDIA Quadro 2000D by PNY features two dual-link DVI connectors to drive two ultra-high-resolution panels and add flexibility for multi-monitor configurations. Professional applications can take advantage of the Quadro 2000D advanced feature set, including Scalable Geometry Engine™ technology, 192 NVIDIA CUDA™ parallel processing cores and 1GB of memory for fast processing of complex models and scenes.

Built for Diagnostic Imaging

The Fermi-based NVIDIA® Quadro® 2000D by PNY also delivers the industry's most advanced diagnostic imaging graphics solution, featuring:

- Dual DVI-DL connectivity (330MHz with DDC)
- DICOM calibration support via DDC
- Fully DICOM compliant for integration into medical imaging information systems
- 10-bit grayscale (1,024 shades of gray) support
- 12-bit grayscale (4,096 shades of gray) support
- Auto detection of grayscale monitors
- Supports displays up to 10 megapixels

Package includes:

- NVIDIA Quadro 2000D by PNY professional graphics board
- Two DVI to VGA adapters
- 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	1 GB GDDR5
Memory Interface	128-bit
Memory Bandwidth	41.6 GB/sec
CUDA Parallel Processing Cores	192
Maximum Power Consumption	62 W
Physical Dimensions	4.376" (H) x 7.0" (L)
Display Connectors	DVI-DL (2)
Number of Displays Supported	2
DVI-I DL	Yes
VGA	Yes, via supplied adapters
Graphics Bus	PCI Express Gen 2 x16
Thermal Solution	Active Fansink
3D Vision Pro	Support via USB
Mosaic Mode	Yes (Windows 7)
Maximum Digital Resolution (Single DVI-DL)	2560 x 1600 at 60Hz
Maximum Digital Resolution (Dual DVI-DL)	4096 x 2560 at 60Hz
Graphics APIs	DirectX 11, OpenGL 4.0 and Shader Model 5
Compute APIs	CUDA, OpenCL® and Direct Compute
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	VCQ2000D-PB



For more information visit: 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 ⁵	G-Sync Versions ⁶	ECC	High Performance Double Precision
QUADRO ULTRA HIGH END												
Quadro 6000	NEW!	VCQ6000-PB	384-bit	448	FH ¹ x 9.75"	204W - Active	DVI DL, DP (2) ²	2	✓	✓	✓	✓
Quadro FX 5800		VCQFX5800-PCIE-PB	512-bit	240	FH x 10.5"	189W - Active	DVI DL (2), DP	2	✓	✓		
Quadro 5000	NEW!	VCQ5000-PB	320-bit	352	FH x 9.75"	152W - Active	DVI DL, DP (2)	2	✓	✓	✓	✓
Quadro FX 4800		VCQFX4800-PCIE-PB	384-bit	192	FH x 10.5"	146W - Active	DVI DL, DP (2)	2	✓	✓		
QUADRO FOR MAC												
Quadro 4000 for Mac	NEW!	VCQ4000MAC-PB	256-bit	256	FH x 9.5"	142W - Active	DVI DL, DP	2				✓
Quadro FX 4800 for MAC		VCQFX4800MACX16-PB	384-bit	192	FH x 10.5"	150W - Active	DVI DL (2)	2				
QUADRO HIGH END												
Quadro 4000	NEW!	VCQ4000-PB	256-bit	256	FH x 9.5"	142W - Active	DVI DL, DP (2)	2	✓			✓
Quadro FX 3800		VCQFX3800-PCIE-PB	256-bit	192	FH x 7.8"	107W - Active	DVI DL, DP (2)	2	✓			
QUADRO MID RANGE												
Quadro 2000	NEW!	VCQ2000-PB	128-bit	192	FH x 7.0"	62W - Active	DVI DL, DP (2)	2				
Quadro 2000D	NEW!	VCQ2000D-PB	128-bit	192	FH x 7.0"	62W - Active	DVI DL (2)	2				
Quadro FX 1800		VCQFX1800-PCIE-PB	192-bit	64	FH x 7.8"	59W - Active	DVI DL, DP (2)	2				
QUADRO ENTRY LEVEL												
Quadro 600	NEW!	VCQ600-PB	128-bit	96	LP ³ x 6.60"	40W - Active	DVI DL, DP	2				
Quadro FX 580		VCQFX580-PCIE-PB	128-bit	32	FH x 6.60"	40W - Active	DVI DL, DP (2)	2				
Quadro FX 380		VCQFX380-PCIE-PB	128-bit	16	FH x 6.60"	34W - Active	DVI DL (2)	2				
Quadro FX 380 LP		VCQFX380LP-PCIE-PB	64-bit	16	LP ³ x 6.60"	28W - Active	DVI DL, DP	2				
Quadro FX 370 LP		VCQFX370LP-PCIE-PB	64-bit	8	LP ³ x 6.60"	25W - Passive	DMS-59	2				
NVS DUAL MONITOR												
NVIDIA NVS 300 x16 for DisplayPort		VCNWS300X16DP-PB	64-bit	16	LP ³ x 5.70"	17.5W - Passive	DMS-59	2				
NVIDIA NVS 300 x1 for DisplayPort		VCNWS300X1DP-PB	64-bit	16	LP ³ x 5.70"	15.1W - Passive	DMS-59	2				
NVIDIA NVS 300 x16 for DVI and VGA		VCNWS300X16-PB	64-bit	16	LP ³ x 5.70"	17.5W - Passive	DMS-59	2				
NVIDIA NVS 300 x1 for DVI and VGA		VCNWS300X1-PB	64-bit	16	LP ³ x 5.70"	15.1W - Passive	DMS-59	2				
QUADRO NVS DUAL MONITOR												
Quadro NVS 290 x16		VCQ290NVS-PCIEX16-PB	64-bit	16	LP ³ x 6.60"	21W - Passive	DMS-59	2				
Quadro NVS 290 x1		VCQ290NVS-PCIEX1-PB	64-bit	16	LP ³ x 6.60"	21W - Passive	DMS-59	2				
Quadro NVS 295 x16 for DisplayPort		VCQ295NVS-X16-DVI-PB	64-bit	8	LP ³ x 6.60"	23W - Passive	DP (2)	2				
Quadro NVS 295 x16 for DVI		VCQ295NVS-X1-DVI-PB	64-bit	8	LP ³ x 6.60"	23W - Passive	DP to DVI (2)	2				
Quadro NVS 295 x1 for DisplayPort		VCQ295NVS-X1-PB	64-bit	8	LP ³ x 6.60"	23W - Passive	DP (2)	2				
Quadro NVS 295 x1 for DVI		VCQ295NVS-X1-DVI-PB	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	128-bit	16	LP ³ x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x16 for DVI		VCQ420NVS-X16-DVI-PB	128-bit	16	LP ³ x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x1 for DisplayPort		VCQ420NVS-X1-DP-PB	128-bit	16	LP ³ x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 420 x1 for DVI		VCQ420NVS-X1-DVI-PB	128-bit	16	LP ³ x 6.60"	40W - Active	VHDCI (1)	4				
Quadro NVS 450 x16 for DisplayPort		VCQ450NVS-X16-PB	128-bit	16	FH x 6.60"	35W - Passive	DP (4)	4				
Quadro NVS 450 x16 for DVI		VCQ450NVS-X16-DVI-PB	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



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