



## NVIDIA® Quadro® 6000 SDI by PNY Technologies®

VCQ6000SDI-PB

**NVIDIA Quadro 6000 SDI by PNY Technologies** is the ideal solution for digital broadcast professionals, who use various applications such as virtual-sets, sports, and weather news systems to composite live video footage onto virtual backgrounds and send the result to live video for TV broadcast. NVIDIA Quadro SDI solutions also allow film production, post-production, and finishing professionals to preview the results of 3D compositing, editing, and color grading in real time on high definition (HD) broadcast monitors. This graphics-to-video-out solution delivers uncompressed 8-, 10-, or 12-bit SDI from programmable graphics, enabling a direct connection to broadcast monitors, switchers, tape decks, or SDI projectors.

The Quadro SDI solution provides two channels—fill or key—of 8-, 10-, or 12-bit uncompressed SDI in 2K, HD, or SD formats, and analog and digital house synchronization. It supports both Microsoft® Windows® and Linux®, and works on top of existing applications, or can be easily integrated within a broadcast or video editing application through the NVIDIA API.

### PNY Advantage:

- 3 year warranty
- Support for NVIDIA Quadro by PNY in all system brands
- Pre- and post-sales technical support
- 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:

Memory	6GB GDDR5
Memory Interface	384-bit
Memory Bandwidth	144GB/sec
CUDA Parallel Processing Cores	448
Physical dimensions (Quadro 6000)	ATX form factor, 4.376 inches high x 9.75 inches long Dual Slot
Physical dimensions (SDI Output Card)	ATX form factor, 3.875 inches high x 6.60 inches long
Maximum Power Consumption (Quadro 6000)	204W
Maximum Power Consumption (SDI Output Card)	7W
Graphics Bus (Quadro 6000)	PCI Express Gen 2 x16
Graphics Bus (SDI Output Card)	Not applicable, for mechanical stabilization only
Display Connectors (Quadro 6000)	DVI-I DL + DisplayPort (2) + ST
Dual Link DVI	Yes (1), used by crossover cable
DisplayPort	Yes (2)
Connectors (SDI Output Card)	BNC Fill, BNC Key, BNC Input (Sync)
Auxiliary power connectors (Quadro 6000)	Yes (2), one 8-pin and one 6-pin
Thermal Solution (Quadro 6000)	Active fansink
PNY part number	VCQ6000SDI-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!	VCQ6000-PB	6GB GDDR5	384-bit	448	FH <sup>1</sup> x 9.75"	204W - Active	DVI DL, DP (2) <sup>2</sup>	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	✓	✓	
<b>QUADRO FOR MAC</b>												
Quadro 4000 for Mac	NEW!	VCQ4000MAC-PB	2GB GDDR5	256-bit	256	FH x 9.5"	142W - Active	DVI DL, DP	2			✓
Quadro FX 4800 for MAC		VCQFX4800MACX16-PB	1.5GB GDDR3	384-bit	192	FH x 10.5"	150W - Active	DVI DL (2)	2			
<b>QUADRO HIGH END</b>												
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	✓		
<b>QUADRO MID RANGE</b>												
Quadro 2000	NEW!	VCQ2000-PB	1GB GDDR5	128-bit	192	FH x 7.0"	62W - Active	DVI DL, DP (2)	2			
Quadro 2000D	NEW!	VCQ2000D-PB	1GB GDDR5	128-bit	192	FH x 7.0"	62W - Active	DVI DL (2)	2			
Quadro FX 1800		VCQFX1800-PCIE-PB	768MB GDDR3	192-bit	64	FH x 7.8"	59W - Active	DVI DL, DP (2)	2			
<b>QUADRO ENTRY LEVEL</b>												
Quadro 600	NEW!	VCQ600-PB	1GB GDDR3	128-bit	96	LP <sup>3</sup> x 6.60"	40W - Active	DVI DL, DP	2			
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 <sup>3</sup> x 6.60"	28W - Active	DVI DL, DP	2			
Quadro FX 370 LP		VCQFX370LP-PCIE-PB	256MB GDDR2	64-bit	8	LP <sup>3</sup> x 6.60"	25W - Passive	DMS-59	2			
<b>NVS DUAL MONITOR</b>												
NVIDIA NVS 300 x16 for DisplayPort		VCNVS300X16DP-PB	512MB DDR3	64-bit	16	LP <sup>3</sup> x 5.70"	17.5W - Passive	DMS-59	2			
NVIDIA NVS 300 x1 for DisplayPort		VCNVS300X1DP-PB	512MB DDR3	64-bit	16	LP <sup>3</sup> x 5.70"	15.1W - Passive	DMS-59	2			
NVIDIA NVS 300 x16 for DVI and VGA		VCNVS300X16-PB	512MB DDR3	64-bit	16	LP <sup>3</sup> x 5.70"	17.5W - Passive	DMS-59	2			
NVIDIA NVS 300 x1 for DVI and VGA		VCNVS300X1-PB	512MB DDR3	64-bit	16	LP <sup>3</sup> x 5.70"	15.1W - Passive	DMS-59	2			
<b>QUADRO NVS DUAL MONITOR</b>												
Quadro NVS 290 x16		VCQ290NVS-PCIEX16-PB	256MB GDDR2	64-bit	16	LP <sup>3</sup> x 6.60"	21W - Passive	DMS-59	2			
Quadro NVS 290 x1		VCQ290NVS-PCIEX1-PB	256MB GDDR2	64-bit	16	LP <sup>3</sup> x 6.60"	21W - Passive	DMS-59	2			
Quadro NVS 295 x16 for DisplayPort		VCQ295NVS-X16-DVI-PB	256MB GDDR3	64-bit	8	LP <sup>3</sup> x 6.60"	23W - Passive	DP (2)	2			
Quadro NVS 295 x16 for DVI		VCQ295NVS-X16-DVI-PB	256MB GDDR3	64-bit	8	LP <sup>3</sup> 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 <sup>3</sup> x 6.60"	23W - Passive	DP (2)	2			
Quadro NVS 295 x1 for DVI		VCQ295NVS-X1-DVI-PB	256MB GDDR3	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		VCQ420NVS-X16-DP-PB	512MB GDDR3 <sup>4</sup>	128-bit	16	LP <sup>3</sup> x 6.60"	40W - Active	VHDCI (1)	4			
Quadro NVS 420 x16 for DVI		VCQ420NVS-X16-DVI-PB	512MB GDDR3 <sup>4</sup>	128-bit	16	LP <sup>3</sup> x 6.60"	40W - Active	VHDCI (1)	4			
Quadro NVS 420 x1 for DisplayPort		VCQ420NVS-X1-DP-PB	512MB GDDR3 <sup>4</sup>	128-bit	16	LP <sup>3</sup> x 6.60"	40W - Active	VHDCI (1)	4			
Quadro NVS 420 x1 for DVI		VCQ420NVS-X1-DVI-PB	512MB GDDR3 <sup>4</sup>	128-bit	16	LP <sup>3</sup> x 6.60"	40W - Active	VHDCI (1)	4			
Quadro NVS 450 x16 for DisplayPort		VCQ450NVS-X16-PB	512MB GDDR3 <sup>4</sup>	128-bit	16	FH x 6.60"	35W - Passive	DP (4)	4			
Quadro NVS 450 x16 for DVI		VCQ450NVS-X16-DVI-PB	512MB GDDR3 <sup>4</sup>	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



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