



NVIDIA® Quadro® FX 5800 SDI I/O by PNY Technologies®

VCQFX5800SDI-I/O-PB

NVIDIA Quadro FX 5800 SDI I/O by PNY Technologies delivers the industry's first fully integrated GPU-based solution for acquisition, processing and delivery of high resolution video providing the lowest system latency for real-time compositing. This innovative solution enables advanced capabilities for graphics rich production and delivery of video for broadcast, post production, film and new media.

NVIDIA Quadro FX 5800 SDI I/O by PNY enables multi-stream, uncompressed video to be streamed directly to GPU memory and provides an integrated graphics-to-video solution enabling 2D and 3D effects to be composited in real-time with 2K, HD and SD video.

- Capture up to 4 HD-SDI Single link sources simultaneously
- Supports input of all SMPTE standard formats (3G, 2K, HD and SD) through 75 Ohm BNC connectors
- Supports output of 2K, HD and SD video formats uncompressed 8-bit, 10-bit or 12-bit SDI
- Indicator LEDs on the bracket provide easy error detection

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:

Memory	4.0GB GDDR3
Memory interface	512-bit
Memory bandwidth	102GB/sec
Physical dimensions (FX 5800)	ATX form factor, 4.36 inches x 10.5 inches, dual slot
Physical dimensions (SDI Input Card)	ATX form factor, full height, half length
Physical dimensions (SDI Output Card)	ATX form factor, 3.875 inches x 6.60 inches
Maximum power consumption (FX 5800)	189W
Maximum power consumption (SDI Card)	20W
Graphics bus (FX 5800)	PCI Express Gen 2 x16
Display connectors (FX 5800)	DVI-I + DVI-I + DisplayPort + ST
Dual-link DVI	Yes (2)
DisplayPort	Yes (1)
Connectors (SDI Input Card)	Inputs: 4 BNCs (4 Single Link, 2 Dual Link, 2 3G-SDI Single Link, 1 3G-SDI Dual Link) ; Outputs: 1 Monitor out (BNC)
Connectors (SDI Output Card)	BNC fill, BNC key, BNC input (sync)
Auxiliary power connectors (FX 5800)	Yes (2), one 8-pin and one 6-pin
Auxiliary power connectors (SDI Card)	Yes (1)
Thermal solution	Active fansink
PNY part number	VCQFX5800SDI-I/O-PB

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



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NVIDIA® Quadro® by PNY

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) 288 total frame buffer (168 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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