



# NVIDIA QUADRO FX by PNY TECHNOLOGIES

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www.pny.eu	Entry-Level					Mid-Range		High-End		Ultra High-End				
	NVIDIA Quadro FX 370 (P588)	NVIDIA Quadro FX 370LP (P805)	NVIDIA Quadro FX 380 (P977)	NVIDIA Quadro FX 570 (P588)	NVIDIA Quadro FX 580 (P788)	NVIDIA Quadro FX 1700 (P588)	NVIDIA Quadro FX 1800 (P744)	NVIDIA Quadro FX 3700 (P933)	NVIDIA Quadro FX 3800 (P755)	NVIDIA Quadro FX 4600 (P356)	NVIDIA Quadro FX 4700 X2 (P390 + P590)	NVIDIA Quadro FX 4800 (P607)	NVIDIA Quadro FX 5600 (P357)	NVIDIA Quadro FX 5800 (P607)
Bus Connector	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16	PCI-Express x16
PCI-E Bandwidth	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	8 GB/s (4 GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)	8 GB/s (4 GB/s each direction)	PCI-E 2.0 Support 16 GB/s (8GB/s each direction)
GPU NVIDIA Quadro	G84-825	G98GL	G96GL	G84-850	G96GL	G84-875	G94GL	G92GL		G80GL	G92GL	G200GL	G80GL	G200GL
Core Clock	360 MHz	540 MHz		460 MHz		460 MHz		500 MHz		500 MHz	500MHz	600MHz	600 MHz	610MHz
Frame Buffer	256 MB	256 MB	256 MB	256 MB	512 MB	512 MB	768 MB	512 MB	1 GB	768 MB	2GB (2x 1GB)	1.5 GB	1.5 GB	4.1 GB
Memory Interface	64 bit	64 bit	128 bit	128 bit	128 bit	128 bit	192 bit	256bit	256bit	384bit	256 bit	384bit	384bit	512bit
Memory Type	DDR2 SDRAM	DDR2 SDRAM	GDDR3 SDRAM	DDR2 SDRAM	GDDR3 SDRAM	DDR2 SDRAM	GDDR3 SDRAM	GDDR3 SDRAM	GDDR3 SDRAM	GDDR3 SDRAM	GDDR3 SDRAM	GDDR3 SDRAM	GDDR3 SDRAM	GDDR3 SDRAM
Memory Clock	400 (800) MHz	500 (1000) MHz		400 (800) MHz		400 (800) MHz		800 (1600) MHz	800 (1600) MHz	600 (1200) MHz	800 (1600) MHz	800 (1600) MHz	800 (1600) MHz	800 (1600) MHz
Memory Bandwidth	6.4 GB/s	8 GB/s	22.4 GB/s	12.8 GB/s	25.6 GB/s	12.8 GB/s	38.4 GB/s	51.2 GB/s	51.2 GB/s	67.2 GB/s	51.2 GB/s	76.8 GB/s	76.8 GB/s	102 GB/s
RAMDAC	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	2x Dual 400 MHz	Dual 400 MHz	Dual 400 MHz	Dual 400 MHz
Power consumption	35 W	25 W	34 W	38 W	40 W	42 W	59 W	78 W	107 W	134 W	226 W	151 W	171 W	188 W
Additional Power Connector	-	-	-	-	-	-	-	1 x 6-pin PCI-E power connector	1 x 6-pin PCI-E power connector	1 x 6-pin PCI-E power connector	1 x 8-pin PCI-E power connector	1 x 6-pin PCI-E power connector	2 x 6-pin PCI-E power connector	1 x 6-pin PCI-E power connector 1 x 8-pin PCI-E power connector
Outputs	2 x DVI-I	DMS-59	2 x DVI-I	2 x DVI-I	2 x DP + 1 x DVI-I	2 x DVI-I, 1x HDTV	2 x DP + 1 x DVI-I	2x DVI-I, 3D Stereo	2 x DP + 1 x DVI-I, 3D Stereo	2x DVI-I, 3D Stereo	4x DVI-I, 3D Stereo	2x DP, 1x DVI-I, 3D Stereo	2x DVI-I, 3D Stereo	2x DVI-I, 1x DP, 3D Stereo
Max Displays / Card	2	2	2	2	2	2	2	2	2	2	4	2	2	2
Dual-Link DVI-I outputs	1	-	2	2	1	2	1	2	1	2	4	1	2	2
Display Port outputs	-	-	-	-	2	-	2	-	2	-	-	-	-	1
Adapters (Included)	2x DVI-I to VGA	DMS-59 to 2x DVI-I	2x DVI-I to VGA	2x DVI-I to VGA	1x DP to DVI	2x DVI-I to VGA	1x DP to DVI	2x DVI-I to VGA	1x DP to DVI	2x DVI-I to VGA	4x DVI-I to VGA	1x DP to DVI + 1 x DVI-I to VGA	2x DVI-I to VGA	1x DP to DVI + 2x DVI-I to VGA
HDTV Output	-	-	-	-	-	7 pin mini DIN	-	-	-	-	-	-	-	-
HDCP Support	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stereo connector	-	-	-	-	-	-	-	3 pin mini DIN	3 pin mini DIN	3 pin mini DIN	3 pin mini DIN	3 pin mini DIN	3 pin mini DIN	3 pin mini DIN
Genlock / Framelock	-	-	-	-	-	-	-	-	-	Optional w/ additional board P/N=VCOQF4600G-PCIE-PB	Optional w/ additional board P/N=VCOQF4700X2G-PCIE-PB	Optional w/ additional board P/N=VCOQF4800G-PCIE-PB	Optional w/ additional board P/N=VCOQF5600G-PCIE-PB	Optional w/ additional board P/N=VCOQF5800G-PCIE-PB
2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D	2D/3D
2D/3D max resolution analog	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz	2048x1536 @ 85 Hz
2D/3D max resolution digital	1900x1200 @ 60Hz Single Link 2560x1600 @ 60Hz Dual Link	1900x1200 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz	2560x1600 @ 60Hz
Full-Scene Antialiasing max. (FSAA)	16x	16x	16x	16x	16x	32x	32x	32x	32x	32x	64x	32x	32x	32x
C-Programming Environment - CUDA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
NVIDIA CUDA Processing Cores	16	8	16	16	16	32	64	112	192	112	256 (128 x 2)	192	128	240
OpenGL	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Shader Model	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
DirectX	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
SLI frame rendering	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes (Included)	Yes	Yes	Yes
Number of Slots	1	1	1	1	1	1	1	1	1	2	2	2	2	2
Physical dimensions	16,76cm x 11,12cm (6,6" x 4,376")	16,76cm x 6,94cm (6,6" x 2,731")		16,76cm x 11,12cm (6,6" x 4,376")		16,76cm x 11,12cm (6,6" x 4,376")		22,86cm x 11,12cm (9,0" x 4,38")		22,87cm x 11,12cm (9" x 4,376")	26,67cm x 11,12cm (10,50" x 4,376")	26,67cm x 11,12cm (10,50" x 4,376")	31,20cm x 11,12cm (12,283" x 4,376")	26,67cm x 11,12cm (10,50" x 4,376")
Universal Driver	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cooling System	Fan sink (active) 12Volt DC 29 dB	Heatsink (passive cooling)	Fan sink (active) 12Volt DC	Fan sink (active) 12Volt DC 29 dB	Fan sink (active) 12Volt DC	Fan sink (active) 12Volt DC 29 dB	Fan sink (active) 12Volt DC	Fan sink (active) 12 Volt DC	Fan sink (active) 12 Volt DC	Fan sink (active) 12 Volt DC 31.5 dB	Fan sink (active) 12 Volt DC 30.5 dB	Fan sink (active) 12 Volt DC 39.4 dB	Fan sink (active) 12 Volt DC 31.5 dB	Fan sink (active) 12 Volt DC 39.4 dB
Guarantee	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years	3 years
Geometry (Triangles per Sec.)	66 Million	90 Million	96 Million	137 Million	170 Million	191 Million	267 Million	250 Million	300 Million	250 Million	250 Million	300 Million	300 Million	300 Million
Fill Rate (Texels per Sec.)	2,9 Billion	4,32 Billion	3,6 Billion	3,7 Billion	7,2 Billion	7,4 Billion	7,6 Billion	28,0 Billion	38,0 Billion	24,0 Billion	32,0 Billion	38,4 Billion	38,4 Billion	52 Billion
Article No. Retail	VCOQF370-PCIE-PB	VCOQF370LP-PCIE-PB	VCOQF380-PCIE-PB	VCOQF570-PCIE-PB	VCOQF580-PCIE-PB	VCOQF1700-PCIE-PB	VCOQF1800-PCIE-PB	VCOQF3700-PCIE-PB	VCOQF3800-PCIE-PB	VCOQF4600-PCIE-PB	VCOQF4700X2-PCIE-PB	VCOQF4800-PCIE-PB	VCOQF5600-PCIE-PB	VCOQF5800-PCIE-PB
EAN code	3536403333133	3536403333267	3536403336479	3536403331157	3536403336523	3536403333171	3536403336578	3536403333799	35364033331849	3536403334536	3536403331863	3536403331863	3536403331863	3536403331863
Article No. 10 pack Bulk	VCOQF370-PCIEBLK-1	VCOQF370LP-PCIEBLK-1	VCOQF380-PCIEBLK-1	VCOQF570-PCIEBLK-1	VCOQF580-PCIEBLK-1	VCOQF1700-PCIEBLK-1	VCOQF1800-PCIEBLK-1	VCOQF3700-PCIEBLK-1	VCOQF3800-PCIEBLK-1	VCOQF4600-PCIEBLK-1	VCOQF4700X2-PCIEBLK-1	VCOQF4800-PCIEBLK-1	VCOQF5600-PCIEBLK-1	VCOQF5800-PCIEBLK-1
3D Application Performance <sup>1</sup>														
3dsmax-04	33,25	32,88	41,46	38,41	46,66	45,46	46,72	47,22	47,48	47,41	42,99 <sup>2</sup>	47,37	47,36	47,32
catia-02	39,21	36,57	51,2	49,53	53,97	52,42	57,35	56,84	59,35	57,06	55,39 <sup>2</sup>	59,58	59,47	60,09
ensight-03	18,03	21,87	34,21	27,82	42,00	31,65	50,65	49,28	54,04	49,68	71,53 <sup>2</sup>	55,41	55,21	57,02
maya-02	64,02	64,85	134,31	96,92	164,66	135,1	207,04	197,25	221,67	196,69	238,02 <sup>2</sup>	227,32	227,36	234,03
proe-04	33,39	33,95	43,91	40,59	52,82	50,14	57,63	56,34	59,73	56,29	44,65 <sup>2</sup>	59,95	60,59	60,31
sw-02	41,48	44,18	65,76	58,72	89,41	80,71	119,97	119,03	127,59	116,79	75,42 <sup>2</sup>	128,84	126,08	130,82
tcvis-01	9,89	8,45	15,32	13,33	20,66	18,71	28,86	26,28	29,13	24,93	37,38 <sup>2</sup>	29,08	29,36	30,02
ugnx-01	10,37	9,87	14,44	13,43	21,83	20,23	30,89	28,39	33,7	27,13	55,44 <sup>2</sup>	33,62	32,25	35,1

<sup>1</sup> SPECviewper® 10: for more information visit www.spec.org. Tested on 3 GHz Quad Core Xeon® , Driver Release 175+  
<sup>2</sup> NVIDIA Quadro FX 4700 X2 AFR turned on.

\* Features and specifications are subject to change without notice.