



# NVIDIA QUADRO FX by PNY TECHNOLOGIES



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 380LP (P690)	NVIDIA Quadro FX 570 (P588)	NVIDIA Quadro FX 580 (P788)	NVIDIA Quadro FX 1700 (P588)	NVIDIA Quadro FX 1800 (P744)	NVIDIA Quadro FX 3700 (P393)	NVIDIA Quadro FX 3800 (P755)	NVIDIA Quadro FX 4800 (P607)	NVIDIA Quadro FX 4800 for MAC (P607)	NVIDIA Quadro FX 5800 (P607)	
Bus Connector	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)			
GPU NVIDIA Quadro	G84-825	G98GL	G96GL	GT218GL	G84-850	G96GL	G84-875	G94GL	G92GL	G200GL	G200GL	G200GL	G200GL	
Core Clock	360 MHz	540 MHz	450 MHz	550 MHz	460 MHz	450 MHz	460 MHz	550 MHz	500 MHz	600MHz (1296 MHz Shader Clock)	600MHz	600MHz	610MHz	
Frame Buffer	256 MB	512 MB	256 MB	512 MB	256 MB	512 MB	512 MB	768 MB	512 MB	1 GB	1,5 GB	1,5 GB	4,1 GB	
Memory Interface	64 bit	64 bit	128 bit	64 bit	128 bit	128 bit	128 bit	192 bit	256bit	256bit	384bit	384bit	512bit	
Memory Type	DDR2 SDRAM						DDR2 SDRAM		GDDR3 SDRAM		GDDR3 SDRAM			
Memory Clock	400 (800) MHz	500 (1000) MHz	700 (1400) MHz	800 (1600) MHz	400 (800) MHz	800 (1600) MHz	400 (800) MHz	800 (1600) MHz	800 (1600) 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	12,8 GB/s	25,6 GB/s	12,8 GB/s	38,4 GB/s	51,2 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			
Power consumption	35 W	28 W	34 W	28 W	34 W	40 W	38 W	59 W	78 W	108 W	151 W	151 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	
Outputs	2 x DVI-I	DMS-59	2 x DVI-I	1 x DP + 1 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 optional)	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	2	2	2	
Dual-Link DVI-I outputs	1	-	2	1	2	1	2	1	2	1	2	2	2	
Display Port outputs	-	-	-	1	-	2	-	-	-	2	-	-	1	
Adapters (Included)	2x DVI-I to VGA	DMS-59 to 2x DVI-I	2x DVI-I to VGA	1x DP to DVI-D + 1 x DVI-I to VGA	2x DVI-I to VGA	1x DP to DVI-D + 1 x DVI-I to VGA	2x DVI-I to VGA	1x DP to DVI-D + 1 x DVI-I to VGA	2x DVI-I to VGA	1x DP to DVI-D + 1 x DVI-I to VGA	1x DP to DVI-D + 1 x DVI-I to VGA	2 x DVI-I to VGA	1x DP to DVI-D + 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	
Stereo connector	-	-	-	-	-	-	-	-	3 pin mini DIN	3 pin mini DIN - Optional	3 pin mini DIN	3 pin mini DIN	3 pin mini DIN	
Genlock / Framelock	-	-	-	-	-	-	-	-	-	-	Optional w/ additional board P/N=VCQFX4800G-PCIE-PB	-	Optional w/ additional board P/N=VCQFX5800G-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	
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	
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	
Full-Scene Antialiasing max. (FSAA)	16x	16x	16x	16x	16x	16x	32x	32x	32x	32x	32x	32x	32x	
C-Programming Environment - CUDA	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
NVIDIA CUDA Processing Cores	16	8	16	16	16	32	32	64	112	192	192	192	240	
OpenGL	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	
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	
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	
SLI Frame Rendering & SLI FSAA	-	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	
SLI Multi-OS	-	-	-	-	-	-	-	-	-	Yes	Yes	Yes	Yes	
Number of Slots	1	1	1	1	1	1	1	1	1	1	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 6,94cm (6,6" x 2,731")	16,76cm x 11,12cm (6,6" x 4,376")	17,46cm x 11,12cm (6,875" x 4,376")	16,76cm x 11,12cm (6,6" x 4,376")	19,81cm x 11,12cm (7,8" x 4,376")	22,86cm x 11,12cm (9,0" x 4,376")	22,86cm x 11,12cm (9,0" x 4,376")	26,67cm x 11,12cm (10,50" x 4,376")	26,67cm x 11,12cm (10,50" 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	
Cooling System	Fan sink (active) 12Volt DC 29 dB	Heatsink (passive cooling)	Fan sink (active) 12Volt DC 29 dB	Fan sink (active) 12Volt DC 31 dB	Fan sink (active) 12Volt DC 29 dB	Fan sink (active) 12Volt DC 31 dB	Fan sink (active) 12Volt DC 29 dB	Fan sink (active) 12Volt DC 39 dB	Fan sink (active) 12 Volt DC 34 dB	Fan sink (active) 12 Volt DC 49 dB	Fan sink (active) 12 Volt DC 39,4 dB	Fan sink (active) 12 Volt DC 39,4 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	
Geometry (Triangles per Sec.)	66 Million	90 Million	96 Million	93 Million	137 Million	170 Million	191 Million	267 Million	250 Million	300 Million	300 Million	300 Million	300 Million	
Fill Rate (Texels per Sec.)	2,9 Billion	4,32 Billion	3,6 Billion	4,7 Billion	3,7 Billion	7,2 Billion	7,4 Billion	7,6 Billion	28,0 Billion	38,0 Billion	38,4 Billion	38,4 Billion	52 Billion	
Article No. Retail	VCQFX370-PCIE-PB	VCQFX370LP-PCIE-PB	VCQFX380-PCIE-PB	VCQFX380LP-PCIE-PB	VCQFX570-PCIE-PB	VCQFX580-PCIE-PB	VCQFX1700-PCIE-PB	VCQFX1800-PCIE-PB	VCQFX3700-PCIE-PB	VCQFX3800-PCIE-PB	VCQFX4800-PCIE-PB	VCQFX4800MAC-PB	VCQFX5800-PCIE-PB	
EAN code	3536403333133	3536403335267	3536403336479	3536403335151	3536403333157	3536403336523	3536403333171	3536403336578	3536403333799	3536403336790	3536403335243	3536403337094	3536403335229	
Article No. 10 pack Bulk	VCQFX370-PCIEBLK-1	VCQFX370LP-PCIEBLK-1	VCQFX380-PCIEBLK-1	VCQFX380LP-PCIEBLK-1	VCQFX570-PCIEBLK-1	VCQFX580-PCIEBLK-1	VCQFX1700-PCIEBLK-1	VCQFX1800-PCIEBLK-1	VCQFX3700-PCIEBLK-1	VCQFX3800-PCIEBLK-1	VCQFX4800-PCIEBLK-1	VCQFX4800MAC-BLK-1	VCQFX5800-PCIEBLK-1	
3D Application Performance <sup>1</sup>														
3dsmax-04	33,25	32,88	41,46	46,79	38,41	46,66	45,46	46,72	47,22	47,48	47,37	47,37	47,32	
catia-02	39,21	36,57	51,2	38,67	49,53	53,97	52,42	57,35	56,84	59,35	59,58	59,58	60,09	
ensight-03	18,03	21,87	34,21	30,87	27,82	42,00	31,65	50,65	49,28	54,04	55,41	55,41	57,02	
maya-02	64,02	64,85	134,31	105,05	96,92	164,66	135,1	207,04	197,25	227,67	227,32	227,32	234,03	
proe-04	33,39	33,95	43,91	43,81	40,59	52,82	50,14	57,63	56,34	59,73	59,95	59,95	60,31	
sw-02	41,48	44,18	65,76	60,2	58,72	89,41	80,71	119,97	119,03	127,59	128,84	128,84	130,82	
tcvis-01	9,89	8,45	15,32	12,45	13,33	20,66	18,71	28,86	26,28	29,13	29,08	29,08	30,02	
ugnx-01	10,37	9,87	14,44	12,88	13,43	21,83	20,23	30,89	28,39	33,7	33,62	33,62	35,1	

<sup>1</sup> SPECviewperf® 10: for more information visit www.spec.org. Tested on 3 GHz Quad Core Xeon®, Driver Release 175-

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