



Quick Reference Guide – Desktop Graphics Solutions – Q1'07



		Feature Overview																															
		Best suitable for			Technologies				Graphics										Video				Display										
		Best for Gaming	Best for Video	Best for Office	CrossFire™ ready	Simultaneous HDR with AA	ATI Avivo™	HDTV ready	Shader Model 3.0 with Ultra-Threading	Memory Interface (max.)	Most Common Frame Buffer Size (*= GDDR4)	GPU Clock (MHz)	Memory Clock (MHz)	Pixel Shader Units	Vertex Shader Units	Adaptive AA	High-Quality AF	ATI HyperMemory™	Silent Cooling available	Windows Vista™ ready	DVD Upscaling (max. 1080p)	Motion Adaptive De-Interlacing (2:2, 2:2)	Multi-format HD Decoding	ATI Avivo™ Transcoder	Dual-Display Support	Digital LCD Support	Dual-Link DVI*	10-bit Display Engine	Max. Resolution Analog 2048 x 1536	Max. Resolution Digital**	HDTV-Out /TV-OUT	HDMI/HDCP-ready**	
PCI Express	Enthusiast	ATI Radeon™ X1950 XTX	■	■	■	●	●	●	●	256-bit	512MB*	650	1000	48	8	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
		ATI Radeon™ X1950 XT	■	■	■	●	●	●	●	256-bit	256MB	625	900	48	8	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
	Performance	ATI Radeon™ X1950 PRO	■	■	■	●	●	●	●	256-bit	256MB	575	690	36	8	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
		ATI Radeon™ X1950 GT	■	■	■	●	●	●	●	256-bit	256MB	500	600	36	8	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
	Mainstream	ATI Radeon™ X1650 XT	■	■	■	●	●	●	●	128-bit	256MB	575	675	24	8	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
		ATI Radeon™ X1650 PRO	■	■	■	●	●	●	●	128-bit	256MB	600	700	12	5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
	Value	ATI Radeon™ X1650	■	■	■	●	●	●	●	128-bit	256MB	500	400	12	5	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
		ATI Radeon™ X1550	■	■	■	●	●	●	●	64/128-bit	256MB	550	400	4	2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
		ATI Radeon™ X1050	■	■	■					64/128-bit	128MB	400	250	4	2			●	●	●		●		●	●	●	●	1900x1200	●	●	●		
AGP	Performance	ATI Radeon™ X1950 PRO	■	■	■	●	●	●	●	256-bit	512MB	575	690	36	8	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
		ATI Radeon™ X1650 XT	■	■	■	●	●	●	●	128-bit	256MB	575	675	24	8	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
		ATI Radeon™ X1650 PRO	■	■	■	●	●	●	●	64/128-bit	256MB	590	690	12	5	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
	Mainstream	ATI Radeon™ X1550	■	■	■	●	●	●	●	64/128-bit	256MB	550	400	4	2	●	●			●	●	●	●	●	●	●	●	●	●	2560x1600	●	●	●
		ATI Radeon™ X1050	■	■	■					64/128-bit	128MB	400	250	4	2			●	●	●		●		●	●	●	●	●	1920x1200	●	●	●	
	Value	ATI Radeon™ 9550	■	■	■					128-bit	256MB	250	200	4	2					●				●	●	●	●	●	●	1920x1200	●	●	●

** Implementation dependent on partner board design
 †) Max. 720p only





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CrossFire™ Combination Matrix									
Primary Card	Secondary Card	ATI Radeon™ Cards							
		ATI Radeon™ X1550	ATI Radeon™ X1650	ATI Radeon™ X1650 PRO	ATI Radeon™ X1650 XT	ATI Radeon™ X1950 GT	ATI Radeon™ X1950 PRO	ATI Radeon™ X1950 XT	ATI Radeon™ X1950 XT Edition
ATI Radeon™ X1550	●								
ATI Radeon™ X1650		●	●						
ATI Radeon™ X1650 PRO			●	●					
ATI Radeon™ X1650 XT				●	●				
ATI Radeon™ X1950 GT					●	●			
ATI Radeon™ X1950 PRO						●	●		
ATI Radeon™ X1950 XT								●	●
ATI Radeon™ X1950 XT Edition								●	●
Mainboards									
AMD 580X CrossFire™ Chipset			●	●	●	●	●	●	●
AMD 480X CrossFire™ Chipset	●	●	●	●					
ATI CrossFire™ Xpress 3200			●	●	●	●	●	●	●
Intel® 975X Express			●	●	●	●	●	●	●
Intel® P965 Express							●	●	●

● Recommended combination for best performance
 ● No card connector required
 ● External card connector required
 ● Internal CrossFire™ Bridge Interconnect

ATI Radeon™ Cross-Selling Matrix			
Segment	ATI Solution	Closest Competitor's Solution	
Enthusiast	ATI Radeon™ X1950 XTX CF	GeForce® 7950GX2 SLI™	
	ATI Radeon™ X1950 XTX	GeForce® 7900GTX	
	ATI Radeon™ X1950 XT	GeForce® 7950GT	
Performance	ATI Radeon™ X1950 PRO	GeForce® 7900GS	
	ATI Radeon™ X1950 GT	GeForce® 7600GT	
Mainstream	ATI Radeon™ X1650 XT	GeForce® 7600GT	
	ATI Radeon™ X1650 PRO	GeForce® 7650GS	
Value	ATI Radeon™ X1550	GeForce® 7300GS/7300	
	ATI Radeon™ X1050	GeForce® 6200/7100	
AGP	Performance	ATI Radeon™ X1950 PRO	GeForce® 7900GS
	Mainstream	ATI Radeon™ X1650 PRO	GeForce® 7600GS
		ATI Radeon™ X1550	n/a
	Value	ATI Radeon™ X1050	GeForce® 6200
		ATI Radeon™ 9550	GeForce® FX5200/5500
	ATI Radeon™ 9250	GeForce® MX 4000	

Features & Benefits Matrix		
Segment	Features	Benefits
Gaming	Fast ShaderModel 3.0 Performance with Ultra-Threading	Play the latest games at high frame rates and with amazing cinematic special effects
	Simultaneous Anti-Aliasing and HDR	No-compromise image quality for maximum gaming fun
	CrossFire™ Multi-GPU solutions	Flexibly add performance or quality with a second graphics card
Video	ATI Avivo™ Video and Display Engine	Get the best quality from your digital photos and DVDs
	Multi-format HD-Video Support	Be prepared for the HD revolution
Office	HDMI/HDCP and silent solutions available	Ideal choice for use with Multimedia PCs
	Advanced Display Support	Increased productivity and flexibility for home and business users
	Ready for Windows Vista™	Future-proof for the next-generation operating system
	ATI Catalyst™ Graphics Suite	Maximum stability and performance for superior productivity