



**SAPPHIRE Graphics Card Product Guide**  
Version 6.0 02/09

Segment	SKU	Product	Memory	Clock Speed (MHz)	Memory Speed (MHz)	Board Features			Graphics Features				Video & Audio Features			Display Support			O/S
						Slots	Low Profile	Cooling	DX 10.1	Avivo™ HD	CrossFireX-ready	Hybrid CrossFireX-ready	Blu-Ray/HD-DVD playback	HDCP Compliant	HDMI Audio Support (native or with dongle)	Video Output Resolution	Maximum Resolution (analog)	Maximum Resolution (Digital)	Windows Vista Support
Ultimate	11133-06-40R / 11133-14	HD 4870 TOXIC	512MB / 1GB GDDR5	780	1000(4.0 GB/s)/ 1100(4.6GB/s)	2		VaporX	*	*	*		*	*	7.1	1080p (with optional HDMI adapter) 1024 x 768 otherwise	2048 x 1536	2560 x 1600	*
	21137-00-40R	HD 4870 X2	2GB GDDR5	750	900(3.6 GB/s)	2		Fan	*	*	*		*	*	7.1				-
	11132-04-40R	HD 4850 TOXIC	1GB GDDR3	650	1150	2		Fan	*	*	*		*	*	7.1				-
	11139-00-40R	HD 4850 X2	2GB GDDR3	625	993	2		Fan	*	*	*		*	*	7.1				-
	11139-01-40R	HD 4850 X2	1GB GDDR 3	625	993	2		Fan	*	*	*		*	*	7.1				-
Performance	11132-17R	HD 4850	1GB GDDR3	625	993	2		Fan	*	*	*		*	*	7.1				-
	11132-12R	HD 4850	512MB GDDR3	625	993	1		Fan	*	*	*		*	*	7.1				-
	11147-00-20R	HD 4830	512MB GDDR3	575	900	1		Fan	*	*	*		*	*	7.1				-
	11147-06R	HD 4830 (HDMI on board)	512MB GDDR3	575	900	2		Fan	*	*	*		*	*	7.1				-
	11138-15	HD 4670 ULTIMATE	512MB GDDR3	750	873MHz	2		Heatpipe	*	*	*		*	*	7.1				-
	11138-17	HD 4670	512MB GDDR4	780	1000	1		Fan	*	*	*		*	*	7.1				-
	11138-01R	HD 4670	1GB DDR3	750	900	1		Fan	*	*	*		*	*	7.1				-
	11140-08-20R	HD 4650	512MB GDDR3	600	700	1		Fan	*	*	*		*	*	7.1				-
	11140-01R / 11140-02R	HD 4650	1024/512MB DDR2	600	400	1		Fan	*	*	*		*	*	7.1				-
	Mainstream	11142-09R	HD 4350	1GB HyperMemory 512MB DDR2	600	400	1	Bundled	Heatsink	*	*	*		*	*				7.1
11142-10R		HD 4350	1GB HyperMemory 256MB DDR2	600	400	1	Bundled	Heatsink	*	*	*		*	*	7.1	-			
11142-07R		HD 4350	512MB DDR2	600	400	1	Bundled	Heatsink	*	*	*		*	*	7.1	-			
11142-08R		HD 4350	256MB DDR2	600	400	1	Bundled	Heatsink	*	*	*		*	*	7.1	-			
11121-15-20R		HD 3850	1GB GDDR3	703	829	1		Fan	*	*	*		*	*	5.1	-			
11121-01-20R		HD 3850 ULTIMATE	512MB GDDR3	668	828	1		Heatpipe	*	*	*		*	*	5.1	-			
11121-10-20R		HD 3850	512MB GDDR3	668	828	1		Fan	*	*	*		*	*	5.1	-			
11121-09-20R		HD 3850	256MB GDDR3	668	828	1		Fan	*	*	*		*	*	5.1	-			
11127-04-20R		HD 3650	512MB GDDR3	725	800	1		Fan	*	*	*		*	*	5.1	-			
11127-03-20R		HD 3650	256MB GDDR3	725	500	1		Fan	*	*	*		*	*	5.1	-			
11127-02-20R		HD 3650	1GB HyperMemory	725	500	1		Fan	*	*	*		*	*	5.1	-			
11125-10-20R		HD 3450	512MB DDR2	600	400	1		Heatsink	*	*	*		*	*	5.1	-			
11125-19-20R		HD 3450	256MB DDR2	600	500	1	*	Heatsink	*	*	*		*	*	5.1	-			
11125-05-20R	HD 3450	1GB HyperMemory DDR2	600	500	1	*	Heatsink	*	*	*		*	*	5.1	-				
AGP									DX version	Avivo	CrossFireX-ready	Hybrid CrossFireX-ready	Video Playback Support	HDCP Compliant	Connectors	Video Output Resolution	Maximum Resolution (analog)	Maximum Resolution (Digital)	O/S
Mainstream	11124-00-20R	HD 3850	512MB GDDR3	668	828	1		Fan	10.1	HD	*		Blu-Ray	*	DVI / VGA / TV	1024 x 768	2048 x 1536	2560 x1600	Windows XP / Vista
	11129-00-20R	HD 3650	512MB GDDR3	725	700	1		Fan	10.1	HD	*		Blu-Ray	*	DVI / VGA / TV	1024 x 768	2048 x 1536	2560 x1600	Windows XP / Vista
	11114-02R	HD 2400 PRO	512MB DDR2	400	400	1		Fan	10	HD	*	*	Blu-Ray	*	DVI / VGA / TV	1024 x 768	2048 x 1536	2560 x1600	Windows XP / Vista
	11114-01R	HD 2400 PRO	256MB DDR2	400	400	1		Fan	10	HD	*	*	Blu-Ray	*	DVI / VGA / TV	1024 x 768	2048 x 1536	2560 x1600	Windows XP / Vista
Value	11046-01-20R	Radeon 9250	256MB DDR	240	166	1		Heatsink	8.1				MPEG2	*	DVI / VGA / TV	1024 x 768	2048 x 1536	1600 x 1200	Windows XP



## SAPPHIRE Graphics Card Product Guide

*Version 6.0 02/09*



## SAPPHIRE Mainboard Product Guide

Version 6.0 2/09

	PURE CrossFireX 790GX	PURE CrossFireX 790FX VoIP Edition	PURE CrossFireX 770	PURE Element CRT 690V	PURE Innovation Hybrid CrossFire 780G	PURE Innovation 780V	
<b>Model</b>	PC-AM2RS790G	PC-AM2RD790	PC-AM2RX780	PE-AM2RS690V2	PI-AM2RS780G	PI-AM2RS780V	
<b>SKU</b>	52026-00-40R	52022-00-41R	52024-00-40R	52020-01-40R	52023-00-40R	52025-00-40R	
<b>Chipset</b>	AMD 790GX+SB750	AMD RD790+SB600	AMD RX780+SB600	AMD 690V+SB600	AMD 780G + SB700	AMD 780V + SB700	
<b>Form Factor</b>	ATX	ATX	ATX	mATX	mATX	mATX	
<b>Measurements</b>	305 x 245	305 x 245	305 x 220	244 x 195	245 x 210	247 x 244	
<b>Board Layer</b>	4	6	4	4	4	4	
<b>PWM Power Phase</b>	6+1	6+1	5+1	3	4+1	4+1	
<b>Thermal Solution</b>	MOS+NB+SB heatpipe	MOS+NB+SB heatpipe	MOS & NB & SB heatsink	NB & SB heatsink	MOS+NB heatpipe SB heatsink	MOS+NB heatpipe SB heatsink	
<b>Socket Type</b>	AM2/AM2+	AM2/AM2+	AM2/AM2+	AM2/AM2+	AM2/AM2+	AM2/AM2+	
<b>HT Bus (MHz)</b>	2600	2600	2600	1000	2600	1600	
<b>Memory Support</b>	16 GB	16 GB	16G	8 GB	16G	16G	
<b>Memory Bus</b>	Dual 1066	Dual 1066	Dual 1066	Dual 800	Dual 1066	Dual 1066	
<b>Memory Slots</b>	4 x DDR2	4 x DDR2	4 x DDR2	2 x DDR2	4 x DDR2	4 x DDR2	
<b>Slots</b>	<b>AGP 8X</b>	x	x	x	x	x	
	<b>PCI</b>	2	2	2	2	2	
	<b>PCI-E x1</b>	2	1	2	x	x	
	<b>PCI-E x16</b>	2 (X16 or X8+X8)	3 (X16+X16 or X16+X8+X8)	2 (X16 or X8+X8)	1	1	
<b>Sound</b>	HD 8CH HD	HD 8CH HD Bernstein Card	HD 8CH HD	HD 6 Channel	HD 8CH HD	HD 6 Channel	
<b>Debug LED</b>	Yes	Yes	x	x	Yes	x	
<b>Onboard VGA</b>	Radeon HD3300 DX10 Hybrid CrossFire	x	x	X700 DX9.0	Radeon HD3200 DX10 Hybrid CrossFire	Radeon HD3100 DX10	
<b>Video Output</b>	HDMI + DVI + D-SUB	x	x	D-SUB	DVI + D-SUB	DVI + D-SUB	
<b>I/O Ports</b>	<b>IDE</b>	1x ATA133 ports	1x ATA133 ports	1x ATA133 ports	1x ATA133 ports	1x ATA133 ports	
	<b>Serial ATA</b>	6 x SATA-II	6 x SATA-II	4x SATA-II	4x SATA-II	6x SATA-II	6x SATA-II
	<b>FDD</b>	1x	1x	1x	1x	1x	1x
	<b>COM</b>	by cable	by cable	yes	by cable	by cable	by cable
	<b>Parallel</b>	x	by cable	by cable	by cable	x	by cable
	<b>USB</b>	USB 2.0 (4+8)	USB 2.0 (4+4+2)	USB 2.0 (4+6)	USB 2.0 (4+4)	USB 2.0 (4+6)	USB 2.0 (4+8)
	<b>Game Port</b>	x	by cable	by cable	x	x	x
	<b>IEEE 1394</b>	x	2	x	x	x	x
	<b>SPDIF</b>	yes	yes	yes(coaxial In/Out rear port + HDMI internal pin)	Yes	Yes	Yes
	<b>TV-Out</b>	x	x	x	Yes	x	x
<b>LAN (Ethernet)</b>	Gbit LAN	2 x Gbit LAN	Gbit LAN	10/100M bit LAN	Gbit LAN	10/100M bit LAN	
<b>RAID (Hardware)</b>	SATA-II RAID 0/1/10/5	SATA-II RAID 0/1/10/5	SATA-II RAID 0/1/10	SATA-II RAID 0/1/10	SATA-II RAID 0/1/10	SATA-II RAID 0/1/10	
<b>System Monitoring</b>	yes	yes	yes	yes	yes	yes	
<b>Special Features</b>	EZ Switch + OC-CON	EZ Switch + Genius BIOS + digital PWM	OC-CON	x	IR header	case-open pin header	
<b>Accessories</b>	4 in 1 cables	VoIP card					
<b>Software/Utilities included</b>	PC-Cillin 2007, Pro Magic Plus, My Guard Hardware Monitor, Wasay Image It		PC-Cillin 2007, Pro Magic Plus, My Guard Hardware Monitor, Wasay Image It	PC-Cillin 2007, Pro Magic Plus, My Guard Hardware Monitor, Wasay Image It	PC-Cillin 2007, Pro Magic Plus, My Guard Hardware Monitor, Wasay Image It	PC-Cillin 2007, Pro Magic Plus, My Guard Hardware Monitor, Wasay Image It	