



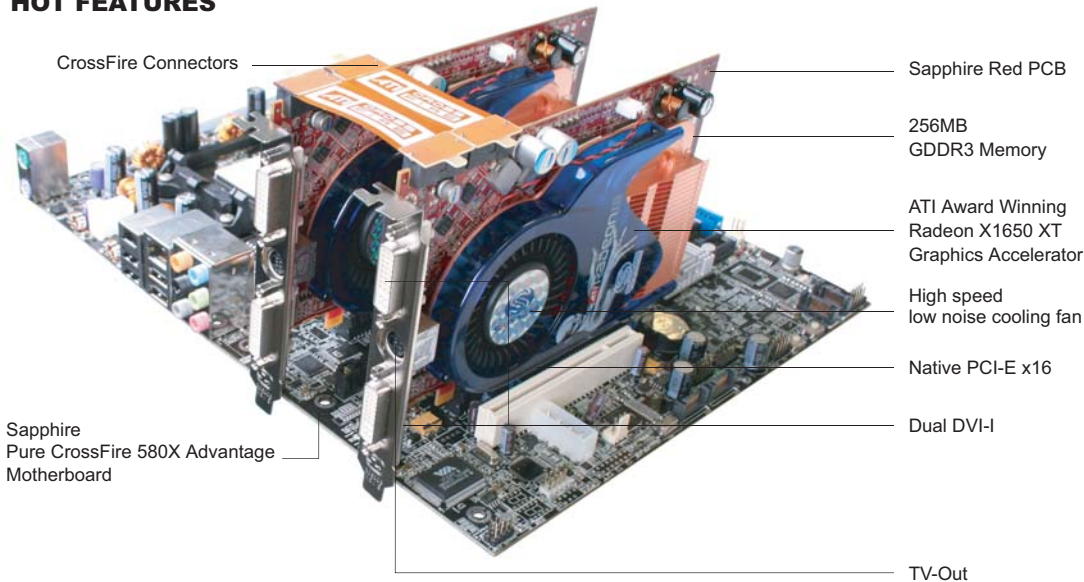
PRODUCT POSITIONING The Lead in the Midrange

Accelerate Your Tomorrow with Tools Available Today!

- Extreme frequencies for blistering performance
- Simultaneous HDR & AA for high image quality at low resolutions
- Avivo™ video & display technology
- Ideal Solution for Media Center PCs
- Dual link DVI-I (2560x1600 displays) for high definition display
- Recommended for Microsoft Vista™
- New Plug-and-Play CrossFire™



HOT FEATURES



SAPPHIRE X1650 XT

Interface	PCI Express
Memory	256MB GDDR3
Memory Bus	128-bit
Engine Clock / Memory Clock	600MHz / 1400MHz
Pixel Shader Processor	24
Outputs	TVO / Dual DVI-I



SAPPHIRE X1650 XT

SAPPHIRE X1650 XT ULTIMATE

Interface	PCI Express
Memory	256MB GDDR3
Memory Bus	128-bit
Engine Clock / Memory Clock	600MHz / 1400MHz
Pixel Shader Processor	24
Outputs	TVO / Dual DVI-I



SAPPHIRE X1650 XT Ultimate

SAPPHIRE X1650 PRO

Interface	PCI Express / AGP
Memory	256 / 512MB GDDR3
Memory Bus	128-bit
Engine Clock / Memory Clock	600MHz / 800 - 1400MHz (PCI-E) 590MHz / 800 - 1380MHz (AGP)
Pixel Shader Processor	12
Outputs	TVO / Dual DVI-I



SAPPHIRE X1650 PRO

SAPPHIRE X1650 PRO ULTIMATE

Interface	PCI Express
Memory	256MB GDDR3
Memory Bus	128-bit
Engine Clock / Memory Clock	600MHz / 1400MHz
Pixel Shader Processor	12
Outputs	TVO / Dual DVI-I

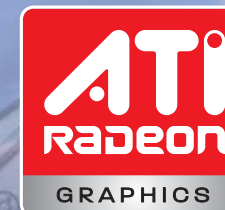


SAPPHIRE X1650 PRO Ultimate





SAPPHIRE X1650 SERIES



SAPPHIRE X1650 XT SAPPHIRE X1650 XT Ultimate SAPPHIRE X1650 PRO SAPPHIRE X1650 PRO Ultimate

SAPPHIRE BUNDLE OPTIONS (Full Retail)

Model	Composite	Dongle	DVI-to-VGA	HDTV Cable	Driver CD	PowerDVD	Game
SAPPHIRE X1650 XT / Ultimate	✓		✓	✓	✓	✓	✓
SAPPHIRE X1650 PRO / Ultimate	✓	✓	✓	✓	✓	✓	✓

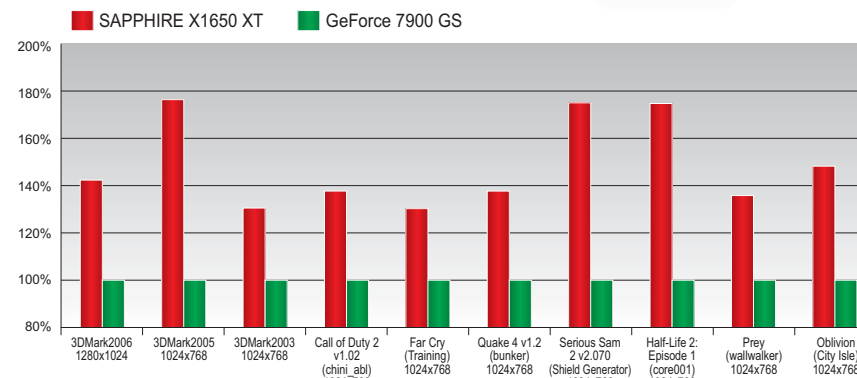
SAPPHIRE RADEON X1650 SERIES PRODUCT LINE UP

Model	Memory (MB)**	Bus Type	Core Frequency (MHz)	Memory Frequency (MHz, DDR)	Pixel Shader Processors	Memory Bus	Display Support
SAPPHIRE X1650 XT	256	PCI-E	600	1400	24	128	TVO/Dual DVI-I
SAPPHIRE X1650 XT Ultimate	256	PCI-E	600	1400	24	128	TVO/Dual DVI-I
SAPPHIRE X1650 PRO	256 / 512	PCI-E AGP	600 590	800 - 1400 800 - 1380	12	128	TVO/Dual DVI-I
SAPPHIRE X1650 PRO Ultimate	256	PCI-E	600	1400	12	128	TVO/Dual DVI-I

* Specifications subject to change without notice.

** For more memory information, please contact Sapphire authorized dealers near you.

X1650 XT Performance



2D DISPLAY MODES

Resolutions, colors and maximum refresh rates (Hz) in 256, 65K or 16.7M colors

Monitor Resolution	Hz
640X480	200
800X600	200
1024X768	200
1152X864	200
1280X1024	160
1600X1200	120
1920X1080 *(16:9)	120
1920X1200	100
1920X1440	90
2048X1536	85
2560X1600	60

MAXIMUM 3D RESOLUTIONS

65K colors	2048x1536
16.7M colors	2048x1536
1.07 billion colors	2560x1600

NOTE: resolutions are limited by the performance of the attached monitor.

* 16:9 aspect ratio monitors are supported on 1920x1080 and 848x480 on Windows® XP, Windows® 2000, and Windows® ME. The complete list of resolutions depends on the driver version and operating system.

EXCELLENCE

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