



RADEON[®] X550



Get the most from your gaming, digital photography, video editing and web surfing experiences with the Radeon[®] X550, an affordable graphics upgrade featuring ATI's industry-leading performance, technology and support.

the ultimate visual experience

OUTSTANDING GAMING EXPERIENCE

With the Radeon X550, your computer games come to life. The Radeon X550 supports today's top game titles and combines ATI's SmartShader™ and SmoothVision™ technologies to deliver incredible processing power and stunning 3D image quality. The Radeon X550 also fully supports Microsoft® DirectX® 9, ensuring that games look and play brilliantly, especially in high-definition.

SUPERIOR VISUAL OUTPUT

The Radeon X550 allows you to get the most from your digital still and video cameras, enabling you to see the true brilliance of your creativity, whether you are editing a video or previewing a photo before printing. The Radeon X550 pushes high-end monitors to their full capacity and maximizes the visual display capabilities of your digital input devices.

STABILITY AND SUPPORT

The Radeon X550 is managed by ATI's award-winning Catalyst™ software drivers, featuring the new Catalyst Control Center for exceptional visual quality, performance and stability. All ATI products are backed by ATI Customer Care™ and technical support. The Radeon X550 fully supports the PCI Express® bus, the newest PC industry standard for delivering maximum real-time performance for your graphics-intensive software applications.





RADEON X550

TECHNOLOGY FEATURES

- 64-bit and 128-bit memory interface supporting 64MB or 128MB DDR1 memory configurations
- Four extreme parallel 3D rendering pixel pipelines
- Two programmable vertex shader pipelines
- PCI Express™ x16 lane native support
- Full Microsoft® DirectX® 9 support

SMARTSHADER™ 2.0

- SMARTSHADER™ defines the level of realism in latest 2D/3D games and applications
- Complete hardware-accelerated Microsoft® DirectX® 9.0 programmable vertex and pixel shader support
- Full hardware support for OpenGL®

SMOOTHVISION™ 2.1

- SMOOTHVISION™ improves image quality by smoothing jagged edges, improving blurriness and refining background details during on-screen motion and at lower resolutions.
- SMOOTHVISION™ settings are user-configurable in ATI CATALYST™ Control Panel:
- 2x/4x/6x Anti-Aliasing (AA) modes
 - Sparse multi-sample algorithm with gamma correction, programmable sample patterns and centroid sampling
 - Loss-less Color Compression (up to 6:1) at all resolutions
 - Temporal Anti-Aliasing
- 2x/4x/8x/16x Anisotropic Filtering (AF) modes
 - Up to 128-tap texture filtering
 - Adaptive algorithm with bilinear (performance) and trilinear (quality) options

HYPER Z™ III

- HYPER Z™ ensures optimal hardware performance by discarding irrelevant object data that is not visible to end-user on their display.
- Leverages key features from ATI's third generation HYPER Z™ III technology that conserves video memory bandwidth for improved performance in demanding 2D/3D games and applications.

- Lossless Z-Buffer Compression (up to 48:1)
- Fast Z-Buffer Clear
- Z Cache optimized for real-time shadow rendering

VIDEOSHADER™

- Seamless integration of pixel shaders with video in real time
- FULLSTREAM™ video de-blocking technology for Real, DivX, and WMV9 formats
- VIDEOSOAP™ noise removal filtering for captured video
- MPEG1/2/4 decode and encode acceleration
- DXVA Support
- Hardware Motion Compensation, iDCT, DCT and color space conversion
- All-format DTV/HDTV decoding
- YPrPb component output for direct drive of HDTV displays†
- Adaptive Per-Pixel De-Interlacing and Frame Rate Conversion (temporal filtering) additional features

ADDITIONAL FEATURES

- Dual integrated display controllers
- Dual integrated 10 bit per channel 400 MHz DACs
- Integrated 165 MHz TMDS transmitter (DVI 1.0 / HDMI compliant and HDCP ready)
- Integrated TV Output support up to 1024x768 resolution
- Windows® Logo Program compliant
- ATI CATALYST™ Software Suite

2D DISPLAY MODES

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

DISPLAY MODES:

Resolutions, colors and maximum refresh rates (Hz) for 256, 65K and 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

MAXIMUM 3D RESOLUTIONS

65K colors	2048x1536
16.7M colors	2048x1536

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

† With optional HDTV adapter available from ATI Online Store

RADEON X550

RADEON X550	Engine Clock	Memory Clock	Memory Interface
X550	400 MHz	250 MHz	64 and 128-bit



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