

ATI Radeon® 9000 Series Video Cards

Features

Featuring a revolutionary Quad-pipe architecture and up to 128MB of memory, Radeon® 9000 SERIES provides bestof-class performance to accelerate all popular 3D applications. Four parallel, highly optimized rendering pipelines, typically available only for the high-end gaming cards, significantly enhance performance and game-play responsiveness when compared to the standard 2-pipeline architectures found in most mid-range products.

Charisma Engine™ II

Having the powerful next generation Transform and Lighting engine with Charisma Engine™ II is an important element to driving the latest 3D games and applications. Charisma Engine™ II takes the work off your system's CPU and accelerates today's demanding 3D graphics effortlessly. Being a next generation Transform and Lighting engine, Charisma Engine™ II is the most efficient and powerful GPU in its class.

SmartShader[™]

A new technology developed by ATI, represents a new generation of visual effects for your personal computer. With SmartShader™, game developers will be able to create immersive, life-like worlds by modelling the surface and material qualities of 3D objects with an unparalleled level of realism.

Supports a High-Performance anti-aliasing mode and a High-Quality anti-aliasing mode. Both of these modes give users the ability to choose between 2x, 3x, 4x, 5x, and 6x sampling, allowing for a total of 10 different anti-aliasing settings. This allows users to quite easily select both the desired level of visual quality and the corresponding performance level

FullStream™

The latest advancement in video processing technology, is a hardware accelerated filtering method that improves the performance and visual quality of streaming video playback.

ATI's Video Immersion™ II technology integrates industry-leading digital video features, including advanced adaptive de-interlacing algorithm, temporal filtering, and video gamma enhancement for unprecedented video quality and integrated digital TV decode capability. In addition, there is component output support for HDTVs (High Definition Television) at 480i, 480p, 720p and 1080i. Pixel Tapestry™ II

Provides ATI's graphics products with an advanced and flexible texturing system. With four parallel, highly-optimized

rendering pipelines each capable of handling two textures simultaneously, it delivers outstanding performance and opens up a whole range of new possibilities for making 3D surfaces look more detailed and realistic. HyperZ II™ Technology

ATI's Radeon chip takes a new approach to the memory bandwidth limitation issue. The innovative HyperZ technology improves memory bandwidth efficiency without the added cost of exotic embedded or proprietary memory technologies. By eliminating this key bottleneck, the final barrier to realistic, real-time 3D is overcome.

Supports dual display configurations with Hydravision™ software

Specifications

System Requirements

- ✓ Intel Pentium 4/III/II/Celeron, AMD K6/Duron/Athlon/Athlon XP or compatible with AGP 2X (3.3v), 4X (1.5V), 8X (0.8v) or Universal AGP 3.0 bus configuration (2X/4X/8X).
- ≤ 64MB of system memory
- Installation software requires CD-ROM drive
- DVD playback requires DVD drive

Graphics Technology

- Radeon 9000 SERIES graphics technology operating at 275MHz for Radeon 9000 PRO

Memory Configuration

Operating Systems Support

- Windows Me

Monitor Support

- CRT monitor: 15-pin VGA connector
- ≤ 64MB version: composite connector
 - 128MB version: composite or s-video connector
- DVI-I (flat panel display) connector on PRO version only

Display Support

- Register compatible with VGA
- Supports VESA PnP compatible displays
- ∠ DDC1/2b/2b+ monitor support VESA Display Power
- Separate horizontal and vertical synchronization at TTL levels

More Features

Charisma Engine II

- ✓ Four parallel rendering pipelines process up to 1.1 billion pixels per second
- 43 million triangles per second peak throughput

SmartShader technology

- ✓ Full support for DirectX 9.x + programmable pixel and vertex shaders in hardware
- 1.4 pixel shaders support up to 22 instructions and up to 6 textures per rendering pass
- ✓ 1.1 vertex shaders support vertex programs up to 128 instructions
- Programmable shaders provide enhanced 3D effects in over 100 existing and upcoming game titles

SmoothVision

- Programmable full-scene anti-aliasing supports 2 to 6 samples with user selectable performance and quality
- Advanced anisotropic filtering supports 2 to 16 samples for high quality texture rendering with minimal
- performance impact

HYPERZII

∠ Lossless Z-Buffer Compression and Fast Z-Buffer Clear reduce memory bandwidth by up to 25%

VIDEO FEATURES

- FullStream Hardware accelerated de-blocking of Internet video streams
- Video Immersion II delivers industry-leading DVD playback
- Integrated MPEG-2 decode including iDCT and motion compensation for top quality DVD with lowest CPU usage
- ✓ Unique Adaptive per-pixel de-interlacing feature combines the best elements of the "bob" and "addfield" (weave) techniques
- ■ Back-end scaler delivers top quality playback
- ∠ Upscaling and downscaling
- Hardware mirroring for flipping video images in video conferencing systems
- Supports 8-bit alpha blending and video keying for effective overlay of video and graphics

DISPLAY FEATURES

- ∠ Dual integrated display controllers to drive two displays simultaneously with independent resolutions and refresh
- Hydravision software provides complete control over multi-display configurations with a user-friendly interface
- ∡ 400MHz Dual integrated DACs with 10-bit per channel palette ✓ Integrated DVI-compliant 165MHz TMDS transmitter
- ✓ Integrated TV-Out support up to 1024x768 resolution

GENERAL FEATURES

- Comprehensive 2X and 4X AGP support. Compatible with AGP 8X universal motherboards.
- ✓ Optimized for Pentium 4 SSE2 and AMD Athlon 3Dnow! processor instructions
- << Our graphics cards sales page