



# RADEON™ 9100 PRO IGP

## ATI's RADEON™ 9100 PRO Integrated Graphics Processor (IGP) More Performance, Flexibility and Value

### AT A GLANCE

ATI presents the next generation of integrated graphics processors that provide more performance, flexibility and value than other chipsets in the market. For exciting game play, universal compatibility, and a wide range of multimedia entertainment options, the RADEON™ 9100 PRO IGP delivers the complete package with unprecedented value.



### Fastest Integrated Graphics and Strong RADEON™ Brand

The RADEON™ 9100 PRO IGP is a major step forward in desktop PC integrated graphics processing technology. With its advanced architecture, it is capable of delivering exciting game play and the richest graphic experience ever seen on an integrated motherboard. It is the only integrated graphics processor to support advanced programmable pixel shader technology and Microsoft® DirectX® 8.1.

### Industry Leading Platform Performance

The RADEON™ 9100 PRO IGP achieves industry leading performance in a wide range of platform solutions, such as anti-virus protection, file encryption/decryption, photo editing, web page rendering and video processing. With 800MHz FSB, dual channel memory design, Microsoft® DirectX® 8.1 graphics, Hi-speed USB2.0, RAID and Hyper-Threading support, the RADEON™ 9100 PRO IGP is ready for the most advanced CPU delivering unmatched system performance.

### Universal Connectivity and Compatibility

The flexible design of the RADEON™ 9100 PRO IGP platform enables universal connectivity and compatibility with the latest Intel® Celeron™ and Intel® Pentium® 4 processors. Its flexibility extends to the latest DDR400 and DDR333 memory modules in both balanced and unbalanced configurations. This innovative platform solution brings high performance input and output capabilities with popular peripherals such as USB 2.0 devices, digital cameras, CD-R/RW drives, DVD burners, flash card drives, USB hubs, video capture cards, scanners and more. The RADEON™ 9100 PRO IGP is also fully pre-tested for compatibility with all of the major operating systems, productivity applications and entertainment titles.

### Best Platform Value

The RADEON™ 9100 PRO IGP is targeted to be the most powerful integrated solution for cost effective Media Center Edition® (MCE) PC's. Its "all-in-one" value includes capabilities for advanced video features, networking, 6 channel sound, DVD acceleration, and USB 2.0 connectivity. By integrating all essential features in a single silicon package, the RADEON™ 9100 PRO IGP delivers the most comprehensive "all-in-one" solution for maximum benefit to end users and system integrators.

## FEATURES AND SPECIFICATIONS

### CPU INTERFACE

- Up to 800MHz CPU FSB for Intel® Pentium® 4 Processor
- Supports Intel® Hyper-Threading™ processors
- In-Order Queue (IOQ) depth of 12
- Supports Dynamic Bus Inversion (DBI)
- Supports system bus interrupt delivery

### SYSTEM LOGIC FEATURES

- Integrated master clock generator with spread spectrum support
- AGP 3.0 compliant AGP 8X interface with Fast Write support
- 266MB/second point-to-point interface to ATI IXP in A-Link mode
- Unified Memory Architecture (UMA)
- Dual channel 128-bit DDR SDRAM memory interface
- DDR400 SDRAM support provides up to 6.4 GB/second bandwidth
- Up to 4 GB DRAM support with two unbuffered SO-DIMMs
- 16 MB to 128 MB of main memory configurable as display memory
- Up to 8 USB2.0 ports
- Up to 2 SATA ports
- Two independent IDE channels with support of mode 0 to 4, and ATA 100
- Supports LPC based Super I/O
- Integrated 3-COM™ Ethernet controller

### 3D GRAPHICS FEATURES

- HYPER Z™ memory optimization technology
- Hardware with pixel shader 1.4 support
- Supports up to 2048x1536 @ 32bpp.
- Supports 3D textures and Microsoft® DirectX® texture compression
- Anisotropic texture filtering and Full Screen Anti-Aliasing (FSAA)

### VIDEO FEATURES

- Video scaling and filtering with advanced 4-tap horizontal and vertical filter
- Integrated hardware motion compensation and iDCT

- Enhanced MPEG-2 hardware decode
- Hardware DVD sub-picture decode
- Video deblocking with FULLSTREAM™

### 2D GRAPHICS FEATURES

- Highly optimized 128-bit 2D Engine
- Hardware cursor up to 64x64x32 BPP
- Supports a maximum resolution of 2048x1536 @ 32bpp.
- Support for Microsoft® Windows® XP alpha cursor

### DISPLAY CONTROLLER

- Dual CRT controllers provide independent dual display support
- Display rotation support
- Comprehensive DDC and hot plugging support
- Integrated high precision 300MHz triple 10-bit DAC supports resolutions up to 2048x1536

### FLAT PANEL MONITOR SUPPORT

- 12-bit digital output to support DVI, DFP and VESA P&D via external TMDS

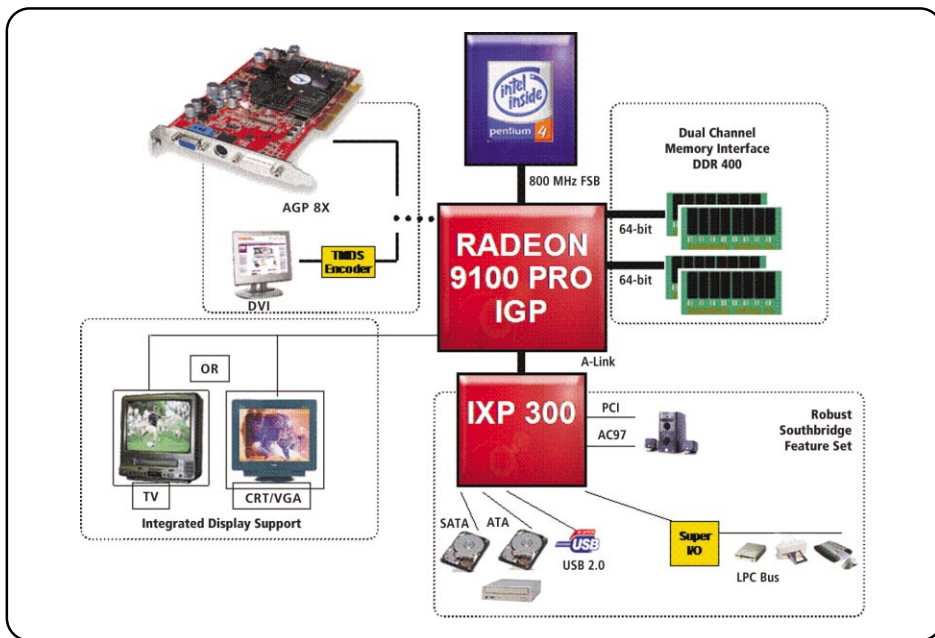
- Supports up to 1600x1200 screen resolution for LCD panels
- Support for VESA defined reduced blanking modes

### TV-OUT SUPPORT

- Integrated TV encoder with composite, S-Video, and RGB interfaces
- Supports PAL/NTSC TV formats
- 10-bit DAC with 8-tap filter and ATI-exclusive enhancements
- Macrovision 7.02 copy protection standard
- Supports up to 1024x768 32bpp mode

### OPTIMIZED SOFTWARE SUPPORT

- Microsoft® DirectX® 8.1 and OpenGL® drivers
- Unified driver support for all RADEON™ discrete and integrated graphics products
- Support for Microsoft® Windows® XP, Windows® 2000, and Linux



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