





Viper X1600 Pro

Cinematic 2D/3D Graphics CardFeaturing:RADEON™ X1600 PROMemory:256MB/512MBSlot Type:AGP or PCI ExpressWith:Dual DVI / TV-Out / HDTV



Overview

LATEST TECHNOLOGIES

Takes advantage of the revolutionary new Avivo video and display technology platform to enable High-Definition visual experience and enhance digital video, gaming and photos.

AVIVO

- Video and Display Perfection
- True-to-Life Image Reproduction
- Sharp video and photos, smooth video playback
- Universal connectivity for TVs and display



ULTI-

CROSSFIRE

- Combined Multi-GPU power for a new dimension of graphics capability
- High-performance processor sharing
- High compatibility with games, graphics cards, motherboards, and third party component
- * Crossfire not available with AGP version
- * Crossfire only available with HyperMemory^M * Crossfire only available on motherboards that support dual PCI Express x16 slots

Features

- 157 million transistors on 90nm fabrication process
- Dual-link DVI
 - Twelve pixel shader processors
 - Five vertex shader processors
 - 128-bit 4-channel DDR/DDR2/GDDR3 memory interface
 - Native PCI Express x16 bus interface
 - AGP 8x configurations also supported with AGP-PCI-E external bridge chip
 - Dynamic Voltage Control

Ring Bus Memory Controller

- 256-bit internal ring bus for memory reads
- Programmable intelligent arbitration logic
- Fully associative texture, color, and Z/stencil cache designs
- Hierarchical Z-buffer with Early Z test
- Lossless Z Compression (up to 48:1)
- Fast Z-Buffer Clear
- Z/stencil cache optimized for real-time shadow rendering

Advanced Image Quality Features

• 64-bit floating point HDR rendering supported throughout the pipeline

Includes support for blending and multi-sample anti-aliasing

- 32-bit integer HDR (10:10:2) format supported throughout the pipeline
 - Includes support for blending and multi-sample anti-aliasing
- 2x/4x/6x Anti-Aliasing modes
 - Multi-sample algorithm with gamma correction, programmable sparse sample patterns, and centroid sampling
 - New Adaptive Anti-Aliasing feature with Performance and Quality modes
 - Temporal Anti-Aliasing mode
 - Lossless Color Compression (up to 6:1) at all resolutions, including widescreen HDTV resolutions
- 2x/4x/8x/16x Anisotropic Filtering modes
 - Up to 128-tap texture filtering
 - Adaptive algorithm with Performance and Quality options
- High resolution texture support (up to 4k x 4k)



Diamond, Diamond Multimedia and Stealth are registered trademarks of Diamond Multimedia. ATI, Graphics by ATI, and Radeon are trademarks of ATI Technologies, Inc. All other trademarks are property of their respective owners. © 2006 Diamond Multimedia. All rights reserved.