Detailed Features Listing

AMD Radeon™ HD 8400 Series Graphics Feature Summary (OEM)

- 625-875 MHz engine clock
- 512MB-1GB DDR3/GDDR5 memory
- 900 MHz DDR3 (1.066-1.6 Gbps) or 800-900 MHz GDDR5 (3.2-3.6 Gbps) memory clock
- 8.5-12.8 GB/s (DDR3) or 25.6-28.8 GB/s (GDDR5) memory bandwidth
- 200-280 GFLOPS Single Precision compute power
- TeraScale 2 Unified Processing Architecture
    - 160 Stream Processing Units
    - 8 Texture Units
    - 16 Z/Stencil ROP Units
    - 4 Color ROP Units
- GDDR5/DDR3 memory interface
- PCI Express 2.1 x16 bus interface
- DirectX® 11 support
    - Shader Model 5.0
    - DirectCompute 11
    - Programmable hardware tessellation unit
    - Accelerated multi-threading
    - HDR texture compression
    - Order-independent transparency
- OpenGL 4.2 support
- Image quality enhancement technology
    - Up to 12x multi-sample and super-sample anti-aliasing modes
    - Adaptive anti-aliasing
    - Morphological anti-aliasing (MLAA)
    - 16x angle independent anisotropic texture filtering
    - 128-bit floating point HDR rendering
- AMD Eyefinity multi-display technology[1]
    - Native support for up to 4 simultaneous displays
        - Up to 4 displays supported with DisplayPort 1.2 Multi-Stream Transport
    - Independent resolutions, refresh rates, color controls, and video overlays
    - Display grouping
        - Combine multiple displays to behave like a single large display
- AMD App Acceleration[2]
    - OpenCL 1.1
    - DirectCompute 11
    - Accelerated video encoding, transcoding, and upscaling
    - MPEG-4 AVC/H.264
    - VC-1
    - MPEG-2 (SD & HD)
    - Multi-View Codec (MVC)
    - MPEG-4 part 2 (DivX, xVid)
    - Adobe Flash
- Enhanced video quality features
    - Advanced post-processing and scaling
        - Dynamic contrast enhancement and color correction
        - Mosquito noise reduction
        - Brighter whites processing (blue stretch)

    - Advanced color correction
        - Independent video gamma control
        - Flesh tone correction
        - Color vibrance control
        - Dynamic contrast
        - Dynamic video range control
    - Dual-stream 1080p playback support
    - DXVA 1.0 & 2.0 support
- AMD HD3D technology[3]
    - Stereoscopic 3D display/glasses support
    - Blu-ray 3D support
    - Stereoscopic 3D gaming
    - 3rd party Stereoscopic 3D middleware software support
- Cutting-edge integrated display support
    - DisplayPort 1.2
        - Max resolution: 2560x1600 per display
        - Multi-Stream Transport
        - 21.6 Gbps bandwidth
        - High bit-rate audio
    - HDMI 1.4a with Stereoscopic 3D Frame Packing Format, Deep Color, xvYCC wide gamut support,
        - Max resolution: 1920x1200
    - Dual-link DVI with HDCP
        - Max resolution: 2560x1600
    - VGA
        - Max resolution: 2048x1536
- Integrated HD audio controller
    - Output protected high bit rate 7.1 channel surround sound over HDMI or DisplayPort with no
    - Supports AC-3, AAC, Dolby TrueHD and DTS Master Audio formats
- AMD PowerPlay™ power management technology[4]
    - Dynamic power management with low power idle state
- AMD Catalyst™ graphicse and HD video configuration software
    - Certified for Windows 7, Windows Vista, and Windows XP
    - AMD Catalyst™ Control Center - AMD Catalyst™ software application and user interface for setup, configuration, and accessing features of AMD Radeon products.
    - Unified Graphics display driver - AMD Catalyst™ software enabling other PC programs and devices to use advanced graphics, video, and features of AMD Radeon™ products.

Additional Information

Additional hardware (e.g. Blu-ray drive, HD or 10-bit monitor, TV tuner) and/or software (e.g. multimedia applications) are required for the full enablement of some features. Not all features may be supported on all components or systems - check with your component or system manufacturer for specific model capabilities and supported technologies.

1 AMD Eyefinity technology supports up to six DisplayPort™ monitors on an enabled graphics card. Supported display quantity, type and resolution vary by model and board design; confirm specifications with manufacturer before purchase. To enable more than two displays, or multiple displays from a single output, additional hardware such as DisplayPort-ready monitors or DisplayPort 1.2 MST-enabled hubs may be required. Maximum two active adapters supported. See www.amd.com/eyefinityfaq for full details.

2 AMD App Acceleration is a set of technologies designed to improve video quality and enhance application performance. Full enablement of some features requires support for OpenCL™, DirectCompute or DirectX® Video Acceleration (DXVA) (including AMD's Universal Video Decoder (UVD)). Not all products have all features and full enablement of some capabilities and may require complementary products.

3 AMD HD3D is a technology designed to enable stereoscopic 3D support in games, movies and/or photos. Requires 3D stereo drivers, glasses, and display. Not all features may be supported on all components or systems – check with your component or system manufacturer for specific model capabilities and supported technologies. A list of supported stereoscopic 3D hardware is available at http://www.amd.com/HD3D.

4 AMD PowerPlay and other AMD power management technologies are a family of technologies offered with certain AMD Radeon™ graphics products, which are designed to intelligently manage GPU power consumption in response to certain GPU load conditions. Not all products feature all technologies—check with your component or system manufacturer for specific model capabilities.