# AMD Radeon™ Graphics – Quick Reference Guide
## AMD Radeon™ HD 6000M Series Graphics.

### Key Selling Points

| | Takeaways | Features | Benefits |
|---|---|---|---|
| **Get Armed** | Enjoy out-of-this-world mobile gaming experience with AMD's 2nd Generation DirectX® 11-Capable GPUs. | AMD's 2nd generation DirectX® 11-Capable GPUs | Enter a new era of visual realism and dynamic interactivity with DirectX® 11 support, including features like HDR Texture Compression, DirectCompute 11, Shader Model 5.0 and enhanced Tessellation. |
| | | Stereoscopic 3D gaming with AMD HD3D technology[11] | Bring the virtual world to life with Stereoscopic 3D and experience a new level of interactive gaming. |
| | | 2nd generation AMD Eyefinity technology[2] | Enjoy a tactical advantage over your opponents through expanded field of view and discover the joy of panoramic gaming. |
| | | DisplayPort™ 1.2 | DisplayPort™ 1.2 offers expanded options for multi-monitor configurations, display selection, DisplayPort audio features and ultra-high bandwidth for immersive Stereoscopic 3D experience. |
| | | GDDR5 High-Performance Memory | Support for large textures, anti-aliasing and anisotropic filtering, for better overall image quality and performance. |
| **Get Immersed** | Turn your notebook into an advanced HD entertainment platform with a myriad of cutting-edge features offered by the AMD Radeon™ HD 6000M series. | Blu-ray™ 3D with AMD HD3D technology [11] | Enjoy mind blowing Blu-ray™ 3D blockbusters with unrivalled visual details and high definition audio. |
| | | MPEG-4 part 2 (DivX7, Xvid) and MVC Support | Enjoy incredible video playback quality in Blu-ray movies and other HD content including support for DivX, Xvid, MVC and MPEG4-part 2 formats with advanced video enhancements. |
| | | 2nd generation AMD Eyefinity technology[2] | Expand your visual workspace and productivity and put all the information you need, right before your eyes. Declare an end to wasted time through unnecessary scrolling and alt-tabbing! |
| | | HDMI 1.4a[6] | Connect your notebook to 3D-capable HDTV for "theater-class" entertainment with breathtaking auditory details offered by Dolby® TrueHD and DTS-HD MasterAudio™ high-definition audio |
| **Get Amazed** | Tap into the massive parallel processing power of the GPU with AMD EyeSpeed technology. | AMD EyeSpeed Technology[5] | Improve application performance with new GPU-accelerated features in Internet Explorer® 9, Mozilla Firefox® and Microsoft® Office 2010 for an outstanding visual computing experience. |
| | | UVD 3.0 | Dedicated GPU video playback accelerator enables users to get the most out of Blu-ray™ 3D movies, other HD video formats, and online video, while enjoying video quality improvements such as advanced post-processing and scaling, dynamic contrast enhancement, color correction and more. |
| | | Premium Windows® 7 Experience | Enjoy premium Windows® 7 graphics experience through superior video playback, high-definition up-scaling and drag-and-drop transcoding or transfer media files to your portable devices.[12] |
| | | DirectCompute 11 | Helps improve PC performance by having the GPU take on some or all of a DirectX® 11-enabled application's processing load, freeing up the computer's main processor to take on additional tasks. |

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**AMD HD3D TECHNOLOGY**

Reach a new level of interactive gaming with AMD HD3D technology and play your favourite games in stereoscopic 3D over HDMI 1.4a for incredibly rich, true-to-life gameplay. Don't just watch it, become a part of it with AMD HD3D technology and marvel in premium HD entertainment features while viewing Blu-ray 3D movies and other 3D videos and photos.

**AMD Accelerated Parallel Processing TECHNOLOGY**

Tap into the massive parallel processing power of the AMD Radeon™ HD 6000M series GPUs and make everyday tasks a breeze with AMD EyeSpeed technology. Accelerate everyday applications from Microsoft® Office 2010 to deliver breathtaking PowerPoint® presentations with astounding visual effects that will instantly captivate your audience, to a smooth multimedia rich online experience in Internet Explorer® 9 and Mozilla Firefox®. Enjoy new features, functionality and improved performance in top media, entertainment and productivity applications made possible by AMD Accelerated Parallel Processing technology.

**AMD Eyefinity MULTI-DISPLAY TECHNOLOGY**

AMD Eyefinity technology enables support for multiple displays on select AMD Radeon™ HD 6000 series GPUs. [2]

**SUPPORTS Microsoft® DirectX® 11**

Get the complete Windows® 7 Experience with DirectX®11 for a visually dynamic and powerful computing experience. Unlock striking visual effects and dynamic interactivity with DirectX® 11 support, including features like HDR Texture Compression, DirectCompute 11, Shader Model 5.0 and Tessellation.

**AMD CrossFireX TECHNOLOGY**

AMD's multi-GPU technology designed to bring enhanced scalability and performance to the notebook PC. AMD CrossFireX™ technology enables two discrete graphics processors to work together to improve system performance with compatible motherboard chipset. [1]
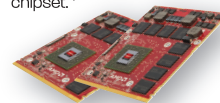
**AMD XGP™ Technology - External Graphics Platform**

Bring mobile gaming to a new level with AMD XGP™ technology - providing simple notebook scalability for the first time ever. This is AMD's external PCI Express® 2.0 graphics platform, designed to enable "enthusiast-class" performance, true multimedia upgradeability and multiple connectivity options revolutionizing GPU performance on a notebook.

**AMD Switchable Graphics technology**

With AMD Switchable Graphics technology you can tailor your graphics to your individual performance needs. Switch between power-saving integrated graphics when on the road or high-powered discrete graphics when plugged in for long battery life when you need it and maximum performance when you want it.

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## Feature Overview

| Product Family | Segment | Product Model | Manufacturing Process | DX11: Tessellation | AMD Eyefinity (# monitors) | Stream Processing Units | Memory Type Supported | Memory Bus Width | Memory Size (max.) | Memory Clock | GPU Clock | Transistors | Unified Video Decoder (UVD) | HDMI Compliant: Version | Built in HDMI Surround Sound | DisplayPort™ Version | DisplayPort™ Support | Capable Video Output Resolution | Driver and System Control |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMD Radeon™ HD 6000M Series | Enthusiast | HD 6970M | 40nm | Enhanced | up to 6 monitors | 960 | GDDR5 | 256-bit | up to 2 GB (GDDR5) | 3.6 Gbps | 680 MHz | 1.7 Billion | UVD 3 | 1.4a | 7.1 | 1.2 | 6 | 1080p / 2048 x 1536 / 2560 x 1600 | Catalyst™ Control Center |
| | Enthusiast | HD 6950M | 40nm | Enhanced | | 960 | GDDR5 | 256-bit | up to 2 GB (GDDR5) | 3.6 Gbps | 580 MHz | 1.7 Billion | UVD 3 | 1.4a | 7.1 | 1.2 | 6 | | |
| | Enthusiast | HD 6870M | 40nm | | | 800 | GDDR5 | 128-bit | up to 1 GB (GDDR5) | 4.0 Gbps | 675 MHz | 1.04 Billion | UVD 2 | 1.4a | 7.1 | 1.1 | 6 | | |
| | Enthusiast | HD 6850M | 40nm | | | 800 | GDDR5 | 128-bit | up to 1 GB (GDDR5) | 3.6 Gbps | 575 MHz | 1.04 Billion | UVD 2 | 1.4a | 7.1 | 1.1 | 6 | | |
| | Enthusiast | HD 6850M | 40nm | | | 800 | DDR3 | 128-bit | up to 2 GB (DDR3) | 900 MHz | 675 MHz | 1.04 Billion | UVD 2 | 1.4a | 7.1 | 1.1 | 6 | | |
| | Enthusiast | HD 6830M | 40nm | | | 800 | DDR3 | 128-bit | up to 2 GB (DDR3) | 900 MHz | 575 MHz | 1.04 Billion | UVD 2 | 1.4a | 7.1 | 1.1 | 6 | | |
| | Performance | HD 6770M | 40nm | Enhanced | | 480 | GDDR5 | 128-bit | up to 1GB (GDDR5) | 3.6 Gbps | 725 MHz | 715 Million | UVD 3 | 1.4a | 7.1 | 1.2 | 6 | | |
| | Performance | HD 6750M | 40nm | Enhanced | | 480 | GDDR5 | 128-bit | up to 1GB (GDDR5) | 3.2 Gbps | 600 MHz | 715 Million | UVD 3 | 1.4a | 7.1 | 1.2 | 6 | | |
| | Performance | HD 6730M | 40nm | Enhanced | | 480 | DDR3 | 128-bit | up to 2 GB (DDR3) | 900 MHz | 725 MHz | 715 Million | UVD 3 | 1.4a | 7.1 | 1.2 | 6 | | |
| | Performance | HD 6650M | 40nm | Enhanced | | 480 | DDR3 | 128-bit | up to 2 GB (DDR3) | 900 MHz | 600 MHz | 715 Million | UVD 3 | 1.4a | 7.1 | 1.2 | 6 | | |
| | Performance | HD 6630M | 40nm | Enhanced | | 480 | DDR3 | 128-bit | up to 2 GB (DDR3) | 800 MHz | 485 MHz | 715 Million | UVD 3 | 1.4a | 7.1 | 1.2 | 6 | | |
| | Performance | HD 6570M | 40nm | | | 400 | GDDR5 | 128-bit | up to 1 GB (GDDR5) | 3.6 Gbps | 650 MHz | 626 Million | UVD 2 | 1.4a | 7.1 | 1.1 | 6 | | |
| | Performance | HD 6570M | 40nm | | | 400 | DDR3 | 128-bit | up to 2 GB (DDR3) | 900 MHz | 650 MHz | 626 Million | UVD 2 | 1.4a | 7.1 | 1.1 | 6 | | |
| | Performance | HD 6550M | 40nm | | | 400 | DDR3 | 128-bit | up to 2 GB (DDR3) | 900 MHz | 600 MHz | 626 Million | UVD 2 | 1.4a | 7.1 | 1.1 | 6 | | |
| | Performance | HD 6530M | 40nm | | | 400 | DDR3 | 128-bit | up to 2 GB (DDR3) | 900 MHz | 500 MHz | 626 Million | UVD 2 | 1.4a | 7.1 | 1.1 | 6 | | |
| | Mainstream | HD 6490M | 40nm | Enhanced | up to 4 monitors | 160 | GDDR5 | 64-bit | up to 512 MB (GDDR5) | 3.2 Gbps | 750 MHz | 370 Million | UVD 3 | 1.4 | 7.1 | 1.2 | 4 | | |
| | Mainstream | HD 6490M | 40nm | Enhanced | | 160 | GDDR5 | 64-bit | up to 512 MB (GDDR5) | 3.2 Gbps | 700 Mhz | 370 Million | UVD 3 | 1.4 | 7.1 | 1.2 | 4 | | |
| | Mainstream | HD 6490M | 40nm | Enhanced | | 160 | GDDR5 | 64-bit | up to 1 GB (DDR3) | 900 MHz | 800 Mhz | 370 Million | UVD 3 | 1.4 | 7.1 | 1.2 | 4 | | |
| | Mainstream | HD 6470M | 40nm | Enhanced | | 160 | DDR3 | 64-bit | up to 1 GB (DDR3) | 900 MHz | 750 Mhz | 370 Million | UVD 3 | 1.4 | 7.1 | 1.2 | 4 | | |
| | Mainstream | HD 6470M | 40nm | Enhanced | | 160 | DDR3 | 64-bit | up to 1 GB (DDR3) | 900 MHz | 700 Mhz | 370 Million | UVD 3 | 1.4 | 7.1 | 1.2 | 4 | | |
| | Mainstream | HD 6450M | 40nm | Enhanced | | 160 | DDR3 | 64-bit | up to 1 GB (DDR3) | 800 MHz | 600 Mhz | 370 Million | UVD 3 | 1.4 | 7.1 | 1.2 | 4 | | |
| | Mainstream | HD 6430M | 40nm | Enhanced | | 160 | DDR3 | 64-bit | up to 1 GB (DDR3) | 800 MHz | 480 Mhz | 370 Million | UVD 3 | 1.4 | 7.1 | 1.2 | 4 | | |
| | Mainstream | HD 6370M | 40nm | | | 80 | DDR3 | 64-bit | up to 512 MB (DDR3) | 900 MHz | 750 Mhz | 242 Million | UVD 2 | 1.4a | 7.1 | 1.1 | 4 | | |
| | Mainstream | HD 6350M | 40nm | | | 80 | DDR3 | 64-bit | up to 512 MB (DDR3) | 800 MHz | 675 Mhz | 242 Million | UVD 2 | 1.4a | 7.1 | 1.1 | 4 | | |
| | Mainstream | HD 6330M | 40nm | | | 80 | DDR3 | 64-bit | up to 512 MB (DDR3) | 800 MHz | 500 Mhz | 242 Million | UVD 2 | 1.4a | 7.1 | 1.1 | 4 | | |
| ATI Mobility Radeon™ HD 5000 Series | Enthusiast | HD 5870 | 40nm | | up to 6 monitors | 800 | GDDR5 | 128-bit | up to 1 GB (GDDR5) | up to 4.0 Gbps | 700 MHz | 1.04 Billion | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Enthusiast | HD 5850 | 40nm | | | 800 | (G) DDR3/GDDR5 | 128-bit | up to 2 GB (GDDR3) / up to 1 GB (GDDR5) | 900 MHz (GDDR3) / up to 4.0 Gbps (GDDR5) | 625 MHz | 1.04 Billion | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Enthusiast | HD 5830 | 40nm | | | 800 | (G) DDR3/GDDR5 | 128-bit | up to 2 GB (GDDR3) / up to 1 GB (GDDR5) | 800 MHz (GDDR3), up to 4.0 Gbps (GDDR5) | 500 MHz | 1.04 Billion | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Performance | HD 5770 | 40nm | | | 400 | GDDR5 | 128-bit | up to 1 GB | up to 3.2 Gbps | 650 MHz | 626 Million | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Performance | HD 5750 | 40nm | | | 400 | GDDR5 | 128-bit | up to 1 GB | up to 3.2 Gbps | 550 MHz | 626 Million | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Performance | HD 5730 | 40nm | | | 400 | (G) DDR3 | 128-bit | up to 2GB | 800 MHz | 650 MHz | 626 Million | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Performance-Thin | HD 5650 | 40nm | | | 400 | (G) DDR3 | 128-bit | up to 2GB | 800 MHz | 450/550 MHz | 626 Million | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Mainstream | HD 5470 | 40nm | | up to 4 monitors | 80 | (G) DDR3/GDDR5 | 64-bit | up to 1 GB (DDR3) / up to 512 MB (GDDR5) | 800 MHz (GDDR3), up to 3.2 Gbps (GDDR5) | 750 MHz | 242 Million | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Mainstream | HD 5450 | 40nm | | | 80 | (G) DDR3 | 64-bit | up to 1 GB | 800 MHz | 675 MHz | 242 Million | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |
| | Mainstream | HD 5430 | 40nm | | | 80 | (G) DDR3 | 64-bit | up to 1 GB | 800 MHz | 550 MHz | 242 Million | UVD 2 | 1.3a | 7.1 | 1.1 | 4 | | |