



AMD Proprietary Linux Release Notes

This release note provides information on the latest posting of AMD's Proprietary Linux driver. This particular driver updates the software version to 8.741.

The AMD Linux release notes provide information on the following:

- *Web Content*
- *ATI Mobility™ and Integrated Mobility™ Product Family Support*
- *ATI Desktop Product Family Support*
- *ATI Integrated Product Family Support*
- *AMD FireStream™ Product Family Support*
- *ATI Embedded Product Family Support*
- *Operating Systems Distributions Supported*
- *System Requirements*
- *New Features*
- *Resolved Issues*
- *Known Issues*
- *Installing the AMD Proprietary Linux Software Driver*
- *Driver Update Notification*
- *Linux Feedback Program*

Web Content

The ATI Catalyst™ Linux Graphics Driver software suite is available through an installer executable.



Note: Refer to the minimum system requirements listed below to ensure you have downloaded the correct driver package for your system.

ATI Mobility™ and Integrated Mobility™ Product Family Support

The ATI Catalyst™ Linux software suite is designed to support the following ATI Mobility™ products:

| AMD Mobility™ Product Family Support | |
|--------------------------------------|------------------------------|
| ATI Mobility Radeon™ HD 5800 | ATI Mobility Radeon™ HD 4300 |
| ATI Mobility Radeon™ HD 5700 | ATI Mobility Radeon™ HD 4200 |
| ATI Mobility Radeon™ HD 5600 | ATI Mobility Radeon™ HD 3870 |
| ATI Mobility Radeon™ HD 5400 | ATI Mobility Radeon™ HD 3850 |
| ATI Mobility Radeon™ HD 4870 | ATI Mobility Radeon™ HD 3670 |
| ATI Mobility Radeon™ HD 4860 | ATI Mobility Radeon™ HD 3650 |
| ATI Mobility Radeon™ HD 4850 | ATI Mobility Radeon™ HD 3430 |
| ATI Mobility Radeon™ HD 4830 | ATI Mobility Radeon™ HD 3400 |
| ATI Mobility Radeon™ HD 4670 | ATI Mobility Radeon™ HD 2600 |
| ATI Mobility Radeon™ HD 4650 | ATI Mobility Radeon™ HD 2400 |
| ATI Mobility Radeon™ HD 4500 | |

ATI Desktop Product Family Support

The ATI Catalyst™ Linux software suite is designed to support the following ATI desktop products:

| AMD Desktop Product Family Support | |
|------------------------------------|----------------------------|
| ATI Radeon™ HD 5900 Series | ATI Radeon™ HD 4670 Series |
| ATI Radeon™ HD 5800 Series | ATI Radeon™ HD 4650 Series |
| ATI Radeon™ HD 5700 Series | ATI Radeon™ HD 4600 Series |
| ATI Radeon™ HD 5600 Series | ATI Radeon™ HD 4550 Series |
| ATI Radeon™ HD 5500 Series | ATI Radeon™ HD 4350 Series |
| ATI Radeon™ HD 5400 Series | ATI Radeon™ HD 3800 Series |
| ATI Radeon™ HD 4890 Series | ATI Radeon™ HD 3600 Series |
| ATI Radeon™ HD 4870 X2 Series | ATI Radeon™ HD 3400 Series |
| ATI Radeon™ HD 4850 X2 Series | ATI Radeon™ HD 2900 Series |
| ATI Radeon™ HD 4800 Series | ATI Radeon™ HD 2600 Series |
| ATI Radeon™ HD 4700 Series | ATI Radeon™ HD 2400 Series |



Note: The ATI Radeon™ HD 3870 X2 series of product is currently not supported by the ATI Catalyst™ Linux software suite.



Note: All-in-Wonder™ variants based on the above are also supported. However, video capture is not supported.



Note: Software driver support for ATI FireGL™, Integrated, Mobility™ and Desktop products prior to the ATI Radeon™ 9500 is available from www.amd.com.



Note: Specific Workstation products are enabled but not supported in the ATI Catalyst™ Linux Graphics Driver software suite. Official Workstation drivers can be downloaded from www.amd.com.

ATI Integrated Product Family Support

The ATI Catalyst™ Linux software suite is designed to support the following ATI desktop products:

| AMD Chipset Product Support | |
|-----------------------------|-------------------------|
| ATI Radeon™ HD 4290 | ATI Radeon™ 3200 Series |
| ATI Radeon™ HD 4250 | ATI Radeon™ 3100 Series |
| ATI Radeon™ HD 4200 Series | ATI Radeon™ 3000 Series |
| ATI Radeon™ HD 3300 Series | |

AMD FireStream™ Product Family Support

The ATI Catalyst™ Linux software suite is designed to support the following AMD products:

| AMD FireStream™ Product Support | |
|---------------------------------|----------------------|
| AMD FireStream™ 9270 | AMD FireStream™ 9170 |
| AMD FireStream™ 9250 | |

ATI Embedded Product Family Support

The ATI Catalyst™ Linux software suite is designed to support the following ATI Embedded products:

| AMD Embedded Family Product Support | |
|-------------------------------------|-------------------|
| ATI Radeon™ E2400 | ATI Radeon™ E4690 |

Operating Systems Distributions Supported

The latest version of the ATI Catalyst™ Linux software suite is designed to support the following Linux distributions:

- Red Hat Enterprise Linux suite
- Novell/SuSE product suite
- Ubuntu



Note: The ATI Catalyst™ Linux software suite may install on a number of other Linux distributions. Refer to the Package Generation installation instructions for more information.



Note: AMD has contributed packaging scripts to allow creation of other packages, but does not necessarily test, verify or warrant the reliability. Currently Red Hat Enterprise Linux suite and Novell/SuSE product suite are supported Linux distributions.

System Requirements

Before attempting to install the ATI Catalyst™ Linux software suite, the following software must be installed:

- XOrg 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4 or 7.5
- Linux kernel 2.6 or above
- glibc version 2.2 or 2.3
- POSIX Shared Memory (/dev/shm) support is required for 3D applications

The ATI Catalyst™ Linux software suite no longer provides precompiled Kernel Modules; all installations require GCC compiler and kernel-headers or kernel-source in order to enable 2D and 3D acceleration.

For best performance and ease of use, ATI recommends the following:

- Kernel module build environment
 - Kernel source code include either the Kernel Source or Kernel Headers packages
- The RPM utility should be installed and configured correctly on your system, if you intend to install via RPM packages

The following packages must be installed in order for the ATI Catalyst™ Linux driver to install and work properly:

- XFree86-Mesa-libGL
- libstdc++
- libgcc
- XFree86-libs
- fontconfig

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- freetype
 - zlib
 - gcc

New Features

This section provides information on new features found in this release of the ATI Radeon™ Display Driver. These include the following:

- *Support for New Linux Operating Systems*
- *Official support for OpenGL 4.0 and OpenGL 3.3*
- *2D performance enhancements*

Support for New Linux Operating Systems

This release of ATI Catalyst™ Linux introduces support for the following new operating system:

- RHEL 5.5 production support

Official support for OpenGL 4.0 and OpenGL 3.3

- ATI Catalyst™ 10.6 delivers official support for OpenGL 4.0 on the ATI Radeon™ HD 5000 Series
- ATI Catalyst™ 10.6 delivers official support for OpenGL 3.3 on the ATI Radeon™ HD Series

2D performance enhancements

ATI Catalyst™ 10.6 delivers a new architecture for 2D acceleration. The new 2D architecture delivers fast windows resizing with Compiz/Visual-Effects and general 2D performance improvements in all AMD supported Linux distributions.

Resolved Issues

The following section provides a brief description of resolved issues with the latest version of the ATI Catalyst™ Linux software suite. These include:

- "Xorg -probeonly" no longer causes screen corruption or the system to fail to respond

Known Issues

The following section provides a brief description of known issues associated with the latest version of ATI Catalyst™ Linux software suite. These issues include:

- OpenCL™ 1.0 conformance tests have not been run with this version of the ATI Catalyst™ Driver Suite in conjunction with the ATI Stream SDK v2.1. If you require

an OpenCL™ 1.0 conformant driver, we recommend that you install the ATI Catalyst™ 10.5 Driver Suite

- Desktop arrangement area may appear empty and fail to display the icon number when Catalyst Control Center is relaunched after disabling or hot-unplugging the secondary display
- Disabling the primary display in clone/dual-head mode may cause Catalyst Control Center not to launch properly after X restart
- Applying display rotation using Catalyst Control Center or XRandR may result in display turning blank with mouse cursor while rotating the display
- X-server may fail to start, or unusual behaviour may be observed, after applying various HDTV formats of 1080i30/25/p50 standard and optimized modes on DVI/DP displays
- CrossFire™ might not be enabled properly on the first Gemini card, with Anti-Alias 8x displaying no visual changes, under a 2 Gemini multi-adapter configuration
- Xserver may fail when applying "Maintain Aspect Ratio" option from GPU scaling at maximum resolution
- [SUSE] Desktop corruption may be visible after applying rotation using Catalyst Control Center and restarting X
- Enabling a second ASIC without a monitor connected may result in black screen and X window not launching when startx is executed
- System may fail to display error message when improper position values are used in "aticonfig --tv-geometry" resulting in invalid "TVHPosAdj" and "TVVPosAdj" values in xorg.conf file
- [Ubuntu 10.04] X segmentation faults on startup on multi-ASIC systems
- Switching to clone mode by pressing Fn+F4 might not function properly after connecting an external VGA monitor
- Segmentation fault may occur when running "Quake 4" and "Enemy Territory: Quake Wars" at 1280x1024 or resolutions higher than current desktop resolution



Note: On Novell's openSUSE, SLED and SLES operating systems running "sax2" or "sax2 -r" on the console overwrites the X.Org configuration file xorg.conf, reverting changes made by running "aticonfig --initial". As a result subsequent X session may start up using the open source ATI Radeon™ on X-Vesa graphics drivers instead of the proprietary ATI Linux Graphics Driver.

Solution: Do not use Sax2 when the proprietary Linux Graphics Driver is installed. Instead configure all display parameters using the ATI Catalyst™ Control Center--Linux Edition or the aticonfig command line interface.

Installing the AMD Proprietary Linux Software Driver

Installation information and instructions can found on the AMD website:

- Go to <http://support.amd.com/us/gpudownload/Pages/index.aspx>
- Select "Linux x86" or "Linux x86_64"
- Select your product family and product

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- Click on the GO! button
 - From the ATI Catalyst™ Display Driver page, click on the “Installer Instructions” link to download the PDF document

Driver Update Notification

To receive driver notifications, add the following RSS feed to your RSS reader:
<http://www2.ati.com/rss/catalyst.rss>



Note: In order to receive notifications you will need to have an RSS reader installed.

Linux Feedback Program

The ATI Catalyst™ Linux software suite releases may incorporate suggestions received through the Linux feedback program.

Please refer to <http://www.amd.com/us/LinuxCrewSurvey> to provide us with feedback.