

AMD *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 8.561.

The AMD Linux release notes provides information on the following:

- *Web Content*
- *ATI Workstation Product Support*
- *ATI Mobility™ and Integrated Mobility™ Product Family Support*
- *ATI Desktop 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 Workstation Product Support

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

ATI FireGL™ V8650	ATI FireGL™ V3300
ATI FireGL™ V8600	ATI FireGL™ V3200
ATI FireGL™ V7700	ATI FireGL™ V3100
ATI FireGL™ V7600	ATI FireGL™ X3-256
ATI FireGL™ V7350	ATI FireGL™ X3
ATI FireGL™ V7300	ATI FireGL™ V5000
ATI FireGL™ V7200	ATI FireGL™ X2-256
ATI FireGL™ V7100	ATI FireGL™ Z1-128
ATI FireGL™ V5600	ATI FireGL™ T2-128
ATI FireGL™ V5200	ATI FireGL™ X1-128
ATI FireGL™ V5100	ATI FireGL™ X1-256p
ATI FireGL™ V5000	ATI FireMV™ 2200 (Single card PCI-e configuration)
ATI FireGL™ V3600	ATI Mobility FireGL™ V5000
ATI FireGL™ V3400	ATI Mobility FireGL™ T2

ATI Mobility™ and Integrated Mobility™ Product Family Support

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

ATI Mobility Radeon™ X3870	ATI Mobility Radeon™ X1100
ATI Mobility Radeon™ X3850	ATI Mobility Radeon™ X800
ATI Mobility Radeon™ X3830	ATI Mobility Radeon™ X700
ATI Mobility Radeon™ X3430	ATI Mobility Radeon™ Xpress 1200 series
ATI Mobility Radeon™ X3400	ATI Mobility Radeon™ X600
ATI Mobility Radeon™ X2600	ATI Mobility Radeon™ X300
ATI Mobility Radeon™ X2400	ATI Mobility Radeon™ X200
ATI Mobility Radeon™ X2300	ATI Mobility Radeon™ 9800
ATI Mobility Radeon™ X1800	ATI Mobility Radeon™ 9600
ATI Mobility Radeon™ X1600	ATI Mobility Radeon™ 9550

ATI Mobility Radeon™ X1400	ATI Mobility Radeon™ 9500
ATI Mobility Radeon™ X1300	ATI Mobility Radeon™ Xpress 1100 series
ATI Mobility Radeon™ X1200	ATI Mobility Radeon™ Xpress 200 series

ATI Desktop Product Family Support

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



Note: The ATI Radeon™ HD 3870X2 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 Radeon™ 9500 is available from ati.com

AMD Desktop Product Family Support

ATI Radeon™ HD 4350 Series	ATI Radeon™ HD 4650 Series
ATI Radeon™ HD 4670 Series	ATI Radeon™ HD 4870 X2 Series
ATI Radeon™ HD 4550 Series	ATI Radeon™ HD4600 Series
ATI Radeon™ HD 4800 Series	ATI Radeon™ X1300 Series
ATI Radeon™ HD 3800 Series	ATI Radeon™ X1050 Series
ATI Radeon™ HD 3600 Series	ATI Radeon™ X850 Series
ATI Radeon™ HD 3400 Series	ATI Radeon™ X800 Series
ATI Radeon™ HD 2900 Series	ATI Radeon™ X700 Series
ATI Radeon™ HD 2600 Series	ATI Radeon™ X600 Series
ATI Radeon™ HD 2400 Series	ATI Radeon™ X550 Series
ATI Radeon™ X1950 Series	ATI Radeon™ X300 Series
ATI Radeon™ X1900 Series	ATI Radeon™ 9800 Series

ATI Radeon™ X1800 Series	ATI Radeon™ 9700 Series
ATI Radeon™ X1650 Series	ATI Radeon™ 9600 Series
ATI Radeon™ X1600 Series	ATI Radeon™ 9550 Series
ATI Radeon™ X1550 Series	ATI Radeon™ 9500 Series

ATI Integrated Product Family Support

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

ATI Radeon™ HD 3300 Series	ATI Radeon™ Xpress1200 Series
ATI Radeon™ HD 3200 Series	ATI Radeon™ Xpress 200 Series
ATI Radeon™ HD 3100 Series	ATI Radeon™ Xpress 1100 Series

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 or 7.4
- Linux Kernel 2.6 and 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, AMD 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
 - freetype
 - zlib

New Features

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

- *Support for New Linux Operating Systems*
- *Catalyst Control Center Linux Edition: Information Center Enhancement*
- *ATI Stream Computing Support*
- *SurroundView™ support*

Support for New Linux Operating Systems

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

- Ubuntu 8.10 support – early look

Catalyst Control Center Linux Edition: Information Center Enhancement

This release of ATI Catalyst™ Linux introduces enhancements to the ATI Catalyst Control Center Linux Edition – Bus bandwidth and memory bandwidth information is now included in the Information Center.

ATI Stream Computing Support

With the release of ATI Catalyst 8.12 users can unlock the potential of accelerated applications enabling ATI Stream technology for millions of ATI Radeon™ graphics processors worldwide

- ATI Stream computing harnesses the tremendous processing power of the graphics processing unit (GPU) for high-performance, data-intensive computations over a wide range of scientific, business and consumer applications.
- ATI Stream technology enables the hundreds of parallel Stream cores inside AMD graphics processors to accelerate general purpose applications. These capabilities will allow ATI Stream-enabled programs, for a variety of different tasks and from a growing number of software vendors, to operate with optimized performance or with new functionality.

SurroundView™ support

This release of ATI Catalyst™ Linux enables users to render multiple OpenGL applications across single/multiple displays.

- SurroundView™ can be enabled across a single discrete ATI Radeon™ graphics accelerator (ATI Radeon™ X1300 and higher product) and an AMD Integrated graphics product (ATI Radeon 1200 Series, ATI Radeon 3100 Series, ATI Radeon 3200 Series and, Radeon 3300 Series Integrated graphics)

Resolved Issues

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

- Primary display will remain blank after task switching between virtual terminals with dual displays running in Single Independent mode
- Executing Glxears may cause the operating system to stop responding
- Some systems may become unstable when running multiple OpenGL applications with an ATI Radeon HD 3200 Series adapter
- Catalyst Control Center fails to identify the correct display type connected
- Segmentation fault may occur when enabling bios version on systems with three or more adapters
- Executing 'Glxgears' may cause the operating system to stop responding
- CrossFire logo is not shown when playing 3D applications in full screen mode for 64bit Linux distributions
- Desktop corruption may occur when task switching from multiple X windows keeping one console in text mode
- Alientrap NEXUIZ,a delay may occurs when exiting the game
- X11Perf benchmark no longer causes a segmentation fault durring execution
- SUSE 10.3 32bit: Unable to set modes higher than 1600x1200 from command line
- SUSE 10.3 32bit: CRT screen corruption may occur after setting horizontal and vertical sync ranges

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- System with multi adapters may experience problems installing the display driver

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:

- Poor performance may intermittently be noticed when running GTKPerf on systems containing an ATI Radeon HD 38x0 or newer product
- SUSE 10.3 64bit: Connecting a DFP display device as a secondary display device may occasionally result in the secondary display device failing to display an image
- Red Hat 5.2 32bit, KDM X windows may restart when user selects to "Start New Session" during user switch
- System does not switch to "Optimal Performance" when running on AC power and returning from sleep
- This version of the Catalyst Control Center - Linux Edition shows the wrong version for the Catalyst driver, the version should be 8.12

Installing the AMD Proprietary Linux Software Driver

Installation information can be found at: www.ati.com/install

Driver Update Notification

To receive driver notifications, add the following RSS feed to your RSS reader: <http://www.ati.com/online/rss/atilinuxdriver.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://apps.ati.com/linuxDfeedback/> to provide us with feedback.