

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 8.452.

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:

ATI Radeon™ HD 4800 Series	ATI Radeon™ X1300 Series
ATI Radeon™ HD 3800 Series	ATI Radeon™ X850 Series
ATI Radeon™ HD 3600 Series	ATI Radeon™ X800 Series
ATI Radeon™ HD 3400 Series	ATI Radeon™ X700 Series
ATI Radeon™ HD 2900 Series	ATI Radeon™ X600 series
ATI Radeon™ HD 2600 Series	ATI Radeon™ X550/X300 Series
ATI Radeon™ HD 2400 Series	ATI Radeon™ 9800 Series
ATI Radeon™ HD 2400 Series	ATI Radeon™ 9700 Series
ATI Radeon™ X1900 Series	ATI Radeon™ 9600 Series
ATI Radeon™ X1800 Series	ATI Radeon™ 9550 Series
ATI Radeon™ X1600 Series	ATI Radeon™ 9500 Series



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

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*
- *New Display Enhancement*
- *ATI CrossFireX™ Enhancement:*

Support for New Linux Operating Systems

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

- RHEL 4.7 support

New Display Enhancement

This release of ATI Catalyst™ Linux introduces support for display scaling to resize the display devices that support TV timings (480i/p, 720p, 1080i, 1080p) through either digital (DVI or HDMI) or analog (component) interfaces

ATI CrossFireX™ Enhancement:

This release of ATI Catalyst™ enables users to verify whether an application is running in ATI CrossFireX™ mode. The new option found, in the ATI Catalyst™ Control Center, will allow users to verify whether an OpenGL application is running in ATI CrossFireX™ mode, the “ATI CrossFireX” logo will be shown on screen when the application is running.

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:

- Display driver installation may not complete when Powersaved has been enabled.

-
- The driver now changes hardware power states automatically when unplugging and plugging in AC power on mobile hardware older than Radeon Mobility HD 2xxx series
 - Catalyst Control Center may cause a segmentation fault when launched as Root under SUSE 11.
 - X Server will may not start when using two display adapters with mismatched memory sizes.
 - Corruption may be noticed when playing video content using mplayer.
 - Starting X in dual-head mode with only one monitor connected may result in a black screen and the X Server failing to start.

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:

- Reduced performance may be noticed when running GTKPerf on systems containing an ATI Radeon HD 38x0 or newer product.
- Primary display will remain blank after switching between virtual terminals with Dual-head Mode.
- Catalyst Control Center Pixel format settings always set to “RGB 4:4:4 Pixel format (Full RGB)” on restart X Server.
- Mplayer may stop responding when returning from S3/S4 sleep.
- X Server may not start when display is configured in Dual-Head mode.
- Enabling CrossFire may cause intermittent video corruption on the secondary display.
- X will start in clone mode when “Big Desktop” mode is enabled using Catalyst Control Center.
- The X Sever may fail to start with some combinations of Linux and ATI display adapter.
- Using the AMD installer to Generate Distribution Specific Driver Package may fail under Linux SUSE11.
- Desktop corruption may occur when switching from multiple X windows keeping one console in text mode.
- Alientrapp NEXUIZ game does not immediately exit.
- Switching from text console to graphical console may cause the mplayer to stop responding during playback.
- System does not switch to “Optimal Performance” when returning from sleep and plugging AC power.
- No video displayed during playback of H.264 media file on certain Mobile platforms.
- The name for the “FirePRO 2450” is incorrectly displayed as “ATI FireMV 2450”.

-
- CrossFire logo is not shown when playing 3D applications in full screen mode for 64bit Linux distributions.
 - There are no shortcuts available for AMD Catalyst Control Center with KDE4. Please run “amdccl” from a Console Terminal to start the AMD Catalyst Control Center”.
 - Display driver installation may not complete when Powersaved has been enabled. On some motherboards running openSuse 10.3 x86_64 an ACPI BIOS bug can cause a soft hang when starting X with the ATI Proprietary Linux Graphics Driver.

Workarounds:

1. Update the system BIOS if available to fix the BIOS bug
2. Update the kernel image to the latest version for openSuse10.3 x86_64, which works around the BIOS bug in the kernel
3. Disable powersaved service when booting up if the BIOS or kernel is not updated
4. After installing AMD Proprietary Linux Graphics Driver, run “aticonfig --acpi-services=off” to disable some ACPI services in the driver.

For further information and general help on driver or software installation, game issues, and more, visit the [ATI FAQ website](#).

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.