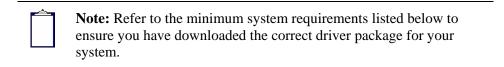# AMD Proprietary Linux Release Notes

This release note provides information on the latest posting of AMD's Proprietary Linux driver. This particular driver updates the software version to 8.69.

The AMD Linux release notes provide information on the following:

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

AMD Workstation Family Product Support	
ATI FirePro™ V8750	ATI FirePro™ 2260
ATI FirePro™ V8700	ATI FireGL™ V8650
ATI FirePro™ V7750	ATI FireGL™ V8600
ATI FirePro™ V5700	ATI FireGL™ V7700
ATI FirePro™ V3750	ATI FireGL™ V7600
ATI FirePro™ V3700	ATI FireGL™ V5600
ATI FirePro™ 2450	ATI FireGL™ V3600

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 4870	ATI Mobility Radeon™ HD 4100
ATI Mobility Radeon™ HD 4860	ATI Mobility Radeon™ HD 3870
ATI Mobility Radeon™ HD 4850	ATI Mobility Radeon™ HD 3850
ATI Mobility Radeon™ HD 4830	ATI Mobility Radeon™ HD 3670
ATI Mobility Radeon™ HD 4670	ATI Mobility Radeon™ HD 3650
ATI Mobility Radeon™ HD 4650	ATI Mobility Radeon™ HD 3430
ATI Mobility Radeon™ HD 4500	ATI Mobility Radeon™ HD 3400
ATI Mobility Radeon™ HD 4300	ATI Mobility Radeon™ HD 2600
ATI Mobility Radeon™ HD 4200	ATI Mobility Radeon™ HD 2400

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 4600 Series
ATI Radeon™ HD 5800 Series	ATI Radeon™ HD 4550 Series
ATI Radeon™ HD 5700 Series	ATI Radeon™ HD 4350 Series
ATI Radeon™ HD 4890 Series	ATI Radeon™ HD 3800 Series

ATI Radeon™ HD 4870 X2 Series	ATI Radeon™ HD 3600 Series
ATI Radeon™ HD 4850 X2 Series	ATI Radeon™ HD 3400 Series
ATI Radeon™ HD 4800 Series	ATI Radeon™ HD 2900 Series
ATI Radeon™ HD 4700 Series	ATI Radeon™ HD 2600 Series
ATI Radeon™ HD 4670 Series	ATI Radeon™ HD 2400 Series
ATI Radeon™ HD 4650 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*.

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 4200 Series	ATI Radeon™ 3100 Series
ATI Radeon™ HD 3300 Series	ATI Radeon™ 3000 Series
ATI Radeon™ HD 3200 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	

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 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

- 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*

Support for New Linux Operating Systems

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

- Ubuntu 9.10 production support

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:

- [ATI Catalyst™ Control Center] Display Manager Properties tab now properly shows a single mode instead of multiple modes when big desktop mode is enabled
- The operating system will no longer fail when switching between virtual desktops
- [RHEL 5.4 32-bit] [ATI Catalyst™ Control Center] System now functions properly after selecting "Detect Displays" button and hot-plugging a HDMI display
- [Ubunut 9.10] X no longer fails after executing multiple Xserver generations with Xinerama enabled
- Hotplugging a HDMI monitor or toggling between LCD and HDMI no longer causes the system to stop responding
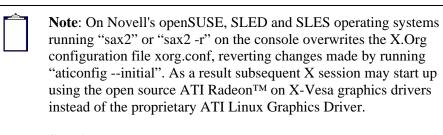
Known Issues

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

- [RHEL4-U8 32-bit] Corruption may be observed while starting Xserver on some ASICs
- Corruption may be observed after 90, 180 or 270 degree desktop rotation on some ASICs
- System may stop responding after switching to DC (battery) mode with CrossFire™ enabled and full-screen applications running
- System may become unresponsive after executing specific combinations of XRandR reflections and rotations
- The output log file may report the Engine Clock or Memory Clock values as 0 MHz on some systems

- [RHEL 5.4][ATI Catalyst™ Control Center] Applying customized TV modes might not work properly, pop up message requesting restart will not appear and customized format will not apply
- [Ubuntu 9.04 x86 64-bit] Some systems may become unresponsive during video playback with certain Dual Head configurations
- [ATI Catalyst™ Control Center] Specific customized modes under the HDTV page may fail to apply on some systems
- [Ubuntu 9.04] With one DP monitor and one DVI monitor connected in clone mode, unplugging and re-plugging the DVI monitor may cause the system to deadlock
- Xserver may fail to launch after enabling CrossFire™ and restarting on some ASICs
- [ATI Catalyst™ Control Center] Super Anti-Aliasing (16x) mode may not be available on some display adapters with CrossFire™ is enabled
- Display rotation may fail to apply from ATI Catalyst™ Control Center with desktop effects enabled
- [RHEL] Enabling Xinerama may cause input devices (keyboard and mouse) to become inaccessible after restarting Xserver
- System may fail to return to console mode after enabling all adapters and exiting Xserver for multi GPU configuration on some ASICs
- ATI Catalyst™ Control Center may report error when two displays of different maximum resolutions are set in clone mode
- [SUSE 11.1 64-bit] Enabling CrossFire™ might fail with some ASICs
- Scaling setting changes may fail to retain after mode change, reboot or restarting Xserver
- [SUSE 11.2 x86] CrossFire™ might not be functional under specific configurations
- [Ubuntu 9.10] CAL test "completemodulelist.txt" might not execute and throws segmentation fault
- [ATI Catalyst™ Control Center] Some systems may intermittently stop responding when changing the scaling options
- [ATI Catalyst™ Control Center] Applying "Size and Position" adjustments for Analog Monitors might not work properly
- [Ubuntu 9.04] Some video cards may stop video output signals when monitor has been powered off
- [ATI Catalyst™ Control Center] Disabled display will become enabled after Xserver restart
- Flickering corruption might be visible while running OpenGL applications with CrossFire™ enabled on specific ASICs

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
- Click on 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.