

## Installing AMD Catalyst Drivers:

### STEP1:

Check the minimum system requirements and Compatible operating systems.

### STEP2:

Install the openSUSE operating system without any failures.

### STEP3:

- The following packages must be installed in order for the AMD Catalyst driver for Linux to install and work properly.
- Install the following packages:
  1. XFree86 – Mesa – libGL (Zypper install Mesa)
  2. libstdc++
  3. libgcc
  4. XFree86-libs
  5. fontconfig
  6. freetype
  7. zlib
  8. gcc
  9. gcc-c++
  10. glut
  11. make
  12. kernel-devel

### STEP4:

Identify your system architecture by using `uname -a` in terminal window.

## Reference repositories urls list

**Version: 12.3**[http://geeko.ioda.net/mirror/amd-fglrx/openSUSE\\_12.3/](http://geeko.ioda.net/mirror/amd-fglrx/openSUSE_12.3/)

**Version: 12.2**[http://geeko.ioda.net/mirror/amd-fglrx/openSUSE\\_12.2/](http://geeko.ioda.net/mirror/amd-fglrx/openSUSE_12.2/)

**Version: 12.1**[http://geeko.ioda.net/mirror/amd-fglrx/openSUSE\\_12.1/](http://geeko.ioda.net/mirror/amd-fglrx/openSUSE_12.1/)

**Version: 11.4**[http://geeko.ioda.net/mirror/amd-fglrx/openSUSE\\_11.4/](http://geeko.ioda.net/mirror/amd-fglrx/openSUSE_11.4/)

**Version: 11.3**[http://geeko.ioda.net/mirror/amd-fglrx/openSUSE\\_11.3/](http://geeko.ioda.net/mirror/amd-fglrx/openSUSE_11.3/)

**Version: 11.2**[http://geeko.ioda.net/mirror/amd-fglrx/openSUSE\\_11.2/](http://geeko.ioda.net/mirror/amd-fglrx/openSUSE_11.2/)

## Adding the repository:

- Start YaST2, with the help of menu
- Click Software Repositories in the YaST Control Center
- Click Add, select Specify URL and click Next
- Enter the repository url and choose a name (FGLRX for example) for the repository
- Click OK
- Accept the repository gpg key
- Ensure its status is "enabled" and "refresh automatically" is also on

## Installing the fglrx package

- In the YaST Control Center, click Software Management.
- Search for "fglrx" and check the package that matches your architecture.

**Note:** For example on a 12.3 openSUSE fglrx64\_xpic\_SUSE123 is for 64bits and fglrx\_xpic\_SUSE123 is for 32bits

- Click Accept to confirm your changes

The simplest way to apply these changes is to reboot.

## Enable NO\_KMS:

- Go to Yast -> System -> /etc/system config editor
- Search for KMS.
- Enable KMS option type "mkinitrd" and reboot the system.

## STEP5:

- Update the system by using the Zypper update in the terminal window.
- Then Reboot the system.

## STEP6:

- Download the AMD Catalyst Driver from [developer.amd.com](http://developer.amd.com) that matches your system configuration and driver series.
- Unzip the AMD Catalyst and install the driver by using the terminal.
- Reboot the system for saving the changes.

## STEP7:

- Execute the `make_install.sh` in the path `lib/modules/fglrx`.
- Reboot the system for changes.

## STEP8:

- Execute `aticonfig --initial` two times to configure the AMD driver.
- Reboot the system for changes.

## Step9:

- Coping the `X.org` file into another folder for further use.(Backup of `X.org` file)
- Replace the `X.org` file with `X.Org-Original`.
- Reboot the system for changes.

## Step10:

- Install the AMD APP SDK
- Reboot the system for changes.

## Step11:

- Run the samples for testing the driver.
- See the `clinfo` for further details.