

# G4KLX AnalogueRepeater



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## **Online installation using YUM**

This document describes how to install the G4KLX software anloguerepeater package easily by using the Yum package installer of CentOS.

The anloguerepeater software is available for Windows and Linux systems from the G4KLX repository ([www.berlios.de](http://www.berlios.de) , project "opendv")

<http://developer.berlios.de/projects/opendv/>

Beta versions are only available in the files section of the Yahoo Group "PCRepeaterController"

<http://groups.yahoo.com/group/pcrepeatercontroller>

The Windows version is provided as a self installing executable, the Linux version is available in form of source code for self compilation and installation, CentOS and Debian packages for I386 and ARM systems.

A comfortable way to install the repeater software package on Linux systems is to use the package manager YUM and APT for full automatic online installation.

You do not need any development tools, no additional libraries have to be searched and installed manually, no compilation of source code, no experience with development work, neither resources on your repeater system, nor a special development system.

An anloguerepeater package is available for CentOS5 and Debian.

CentOS5 is available for free download and on CDs/DVDs.

Please check <http://www.centos.org> to find more details and mirrors for downloads.

Note that we composed and tested the package with CentOS~~5~~, but chances are good that the installation also works with CentOS6 .

Please find information on additional requirements for CentOS6 below.



## Step 1: Adding the openDV repository server

At first you have to run one of the following commands on your Linux system once.

If your system has full internet access:

```
curl ftp://141.75.245.226:8021/centos5/opencv.repo -o /etc/yum.repos.d/opencv.repo
```

For specialists only:

If your system is on the closed amprnet/hamnet you may use the following command instead:

```
curl http://44.225.73.2/pub/dl5di-soft/repositories/centos5/opencv.repo -o /etc/yum.repos.d/opencv.repo
```

Take care that you copy the complete line to your system and execute it!

This command copies a configuration file with information about the repository servers to your rpm sources directory. You will not need to execute this command again later for any updates.

## Step2: Clean your expire-cache

```
yum clean expire-cache
```

## Step3: Add Repo server

*(This step might not be necessary on all systems. In case that you get an error message saying that the package is already installed continue with step 4)*

```
yum install rpmforge-release
```

After this command was executed successful you need to clear the cache again to make sure that the new repo is used.

```
yum clean expire-cache
```

## Step 4: Install the repeater package

Use the following command to install the ircddbgateway package:

```
yum install analoguerepeater
```

Say “yes” to install the software.



The package “analogurepeater” is updated regular with all beta versions which are provided in the beta folder of the PCRepeaterController Yahoo Group and the BerliOS-SVN.

## Step 5: Configure repeater modules

### Configuration in GUI mode:

Next the AnalogueRepeater needs to be configured to your needs.

A text based configuration program like provided for the DStarRepeater and ircDDBGateway is not included in the package yet.

Currently you need to configure the AnalogueRepeater in GUI mode using an X session on the Linux PC or from remote. An easy way from remote is using VNC.

*(You can install a VNC server with “yum install vnc-server”. After that you can access the gateway system in GUI mode from remote using a free VNC client like UltraVNC for your favorite OS).*

**⇒ Configure the repeater software like described in the configuration manual.**

**You may find the documentation in the folder “Documentation” of the FILES section at the Yahoo Group “PCRepeaterController”.**

<http://groups.yahoo.com/group/pcrepeatercontroller/files/Documentation/>

If the configuration has been finished and the system runs properly use EXIT in the File menu to stop and leave the software.

### Configuration in text- or web-mode mode:

- Not yet implemented



## Step 6: Update Repeater Software

Later updates will be installed as usual by

```
yum update analoguerepeater
```

or during a normal YUM system update.

The update process will automatically stop the analoguerepeater, install the updates and restart it. It would be wise to check the configuration for possible changes and new options after each update.

In case of an issue you may easily step back to the version installed before:

```
yum downgrade analoguerepeater
```

Use

```
yum remove analoguerepeater
```

to remove the package. The configfiles in /etc need to be removed manual.

Please find more information on the Yum features in the manpage or on the internet.

## Step 7: Automatic startup of G4KLX AnalogueRepeater on CentOS Linux

The startup uses the usual features and standards of CentOS Linux.

The analoguerepeater is started by the startup script:

```
/etc/init.d/analoguerepeater
```

This startscript will use the configfile:

- /etc/sysconfig/analoguerepeater

It has 2 lines

- name with complete path of the executable, this is hardware depending
- the command line options which should be used

Sample:

File /etc/sysconfig/analoguerepeater:

```
REPEATER_PATH=/usr/local/bin/analoguerepeaterd  
REPEATER_OPTIONS="-daemon -logdir /var/log"
```

This system now needs to be enabled for automatic startup

- `chkconfig --add analoguerepeater`



## Manual start the AnalogueRepeater:

To manually start the AnalogueRepeater use this command:

```
service analogurepeater start
```

- the command will run the startup script /etc/init.d/analogurepeater
- the script will read the sysconfigfile /etc/sysconfig/analogurepeater
- in this script it will find the binary name which needs to be started and the command line options.

The resulting command which will be executed is:

```
/usr/local/bin/analogurepeaterd -daemon -logdir /var/log
```

- The logfile will be /var/log/analogurepeater.log

## Stop the AnalogueRepeater:

Use this command to stop the analogurepeater

```
service analogurepeater stop
```