

Setup a DVB (TDT) usb stick on Ubuntu GNU/Linux

How to set up a DVB-USB Tvisto or AverTV Volar M (for Mac) on Ubuntu 14.04 64bit (Gnu/Linux)

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1.1. Set up a DVB-T (TDT) USB stick with Totem in Ubuntu 14.04

We have an two old usb DVB-T (TDT) devices, which have these chipsets:

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- TVisto: **15a4:9016 Afatech Technologies, Inc. AF9015 DVB-T USB2.0 stick**

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- AverTV Volar M (Mac): 07ca:815a AVerMedia Technologies, Inc.
<http://www.avermedia.eu/avertv/uk/product/ProductDetail.aspx?Id=438>^[1]



```
xavi@coprinus:~$ lsusb
Bus 002 Device 004: ID 15a4:9016 Afatech Technologies, Inc. AF9015 DVB-T USB2.0
stick
Bus 002 Device 009: ID 07ca:815a AVerMedia Technologies, Inc.
(...)
xavi@coprinus:~$
```

1.1.1. Install some system packages

Install (if not already) these packagee:



```
sudo apt-get install linux-firmware-nonfree totem-plugins-dvb-daemon kaffeine
```

1.1.2. Add also just in case the proprietary driver

See:

- <http://palosaari.fi/linux/>
 - <http://palosaari.fi/linux/v4l-dvb/firmware/af9015/5.24.0.0/dvb-usb-af9015.fw>
- <http://linuxclues.blogspot.com.es/2012/02/install-configure-avertv-dvb-digi-volar.html>

Output of lsusb in a terminal:

- `15a4:9016 Afatech Technologies, Inc. AF9015 DVB-T USB2.0 stick`

Get firmware and place it in the right location:

Commands on a console



```
wget http://palosaari.fi/linux/v4l-dvb/firmware/af9015/5.24.0.0/dvb-usb-af9015.fw
sudo cp dvb-usb-af9015.fw /lib/firmware/
```

1.1.3. Setup the device with Totem

Then you can open the Video Player called "Totem" (**Videos** in the localized menu in Catalan and Spanish), and go to connectors in order to enable the support to manage DVB-T (TDT) channels from within Totem. It apparently works (the whole configuration worked apparently fine, recognizing the usb DVB-T receiver, channels, etc), but for some reason, the Totem program doesn't seem to be able to play the channels. The equivalent procedure worked like a charm with Kaffeine. Below you can find both setup procedures:

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1.2. Set up a DVB-T (TDT) USB stick with Kaffeine in Ubuntu 14.04

And using Kaffeine:

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1.3. Alternatively, set up and use DVB-T with ME-TV

There are several interesting programs suitable to watch DVB TV and radio streams:

- http://linuxtv.org/wiki/index.php/TV_Related_Software
- http://linuxtv.org/wiki/index.php/Me_TV

Me-TV is able to scan channels, show TV program information, record streams, network broadcast, etc.

Install some apps for dvb playback in your computer:

Commands on a console



```
sudo apt-get install dvb-apps me-tv
me-tv
```

Click to expand

1.4. Set up a DVB-T (TDT) USB stick with Kaffeine in Ubuntu 16.04

Since `linux-firmware-nonfree` package is not available any more in Ubuntu 16.04, you need to fetch the package from elsewhere than the usual default repositories. You can download it from here:

https://ubuntu.pkgs.org/14.04/ubuntu-updates-multiverse-i386/linux-firmware-nonfree_1.14ubuntu3_all.deb.html^[2]

Steps, in short:

1. Install this package, and kaffeine
2. Get the proprietary driver af9015 and place it in the `/lib/firmware` folder
3. plugin the dvb usb stick, and open kaffeine
 1. Go to Kaffeine > Television > Configure Television
 1. Setup the device, selecting the right location to get the frequencies for the non HD channels of your area
 2. Go to KAffeine > Television > Channels and get the list of channels. Copy the ones you are interested in your system.
4. you can use kaffeine normally.

Consider fetching a new usb stick capable of dvb hd channels.

Related:

- <https://ubuntu-mate.community/t/how-to-watch-digital-tv-with-kaffeine-or-me-tv-in-ubuntu/906>^[3]

Alias names for this page:

AF9015 | DVB-T | dvb | tdt | AF9015 DVB-T USB2.0 stick

^[1] <http://www.avermedia.eu/avertv/uk/product/ProductDetail.aspx?Id=438>

^[2] https://ubuntu.pkgs.org/14.04/ubuntu-updates-multiverse-i386/linux-firmware-nonfree_1.14ubuntu3_all.deb.html

^[3] <https://ubuntu-mate.community/t/how-to-watch-digital-tv-with-kaffeine-or-me-tv-in-ubuntu/906>