

# The cx88 driver

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This is a v4l2 device driver for the cx2388x chip.

## Current status

video

- Works.
- Overlay isn't supported.

audio

- Works. The TV standard detection is made by the driver, as the hardware has bugs to auto-detect.
- audio data dma (i.e. recording without loopback cable to the sound card) is supported via cx88-alsa.

vbi

- Works.

## How to add support for new cards

The driver needs some config info for the TV cards. This stuff is in cx88-cards.c. If the driver doesn't work well you likely need a new entry for your card in that file. Check the kernel log (using dmesg) to see whenever the driver knows your card or not. There is a line like this one:

```
System Message: WARNING/2 (D:\onboarding-resources\sample-onboarding-resources\linux-master\Documentation\admin-guide\media\[linux-master] [Documentation] [admin-guide] [media]cx88.rst, line 37)
```

```
Cannot analyze code. No Pygments lexer found for "none".
```

```
.. code-block:: none
```

```
cx8800[0]: subsystem: 0070:3400, board: Hauppauge WinTV \
          34xxx models [card=1,autodetected]
```

If your card is listed as "board: UNKNOWN/GENERIC" it is unknown to the driver. What to do then?

1. Try upgrading to the latest snapshot, maybe it has been added meanwhile.
2. You can try to create a new entry yourself, have a look at cx88-cards.c. If that worked, mail me your changes as unified diff ("diff -u").
3. Or you can mail me the config information. We need at least the following information to add the card:
  - the PCI Subsystem ID ("0070:3400" from the line above, "lspci -v" output is fine too).
  - the tuner type used by the card. You can try to find one by trial-and-error using the tuner=<n> insmod option. If you know which one the card has you can also have a look at the list in CARDLIST.tuner