

README. saa7134. txt

What is it?

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This is a v4l2/oss device driver for saa7130/33/34/35 based capture / TV boards. See <http://www.semiconductors.philips.com/pip/saa7134hl> for a description.

Status

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Almost everything is working. video, sound, tuner, radio, mpeg ts, ...

As with bttv, card-specific tweaks are needed. Check CARDLIST for a list of known TV cards and saa7134-cards.c for the drivers card configuration info.

Build

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Pick up videodev + v4l2 patches from <http://bytexex.org/patches/>. Configure, build, install + boot the new kernel. You'll need at least these config options:

```
CONFIG_I2C=m
CONFIG_VIDEO_DEV=m
```

Type "make" to build the driver now. "make install" installs the driver. "modprobe saa7134" should load it. Depending on the card you might have to pass card=<nr> as insmod option, check CARDLIST for valid choices.

Changes / Fixes

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Please mail me unified diffs ("diff -u") with your changes, and don't forget to tell me what it changes / which problem it fixes / whatever it is good for ...

Known Problems

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- * The tuner for the flyvideos isn't detected automatically and the default might not work for you depending on which version you have. There is a tuner= insmod option to override the driver's default.

Card Variations:

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Cards can use either of these two crystals (xtal):

- 32.11 MHz -> .audio_clock=0x187de7

README. saa7134. txt

- 24.576MHz -> .audio_clock=0x200000
(xtal * .audio_clock = 51539600)

Some details about 30/34/35:

- saa7130 - low-price chip, doesn't have mute, that is why all those cards should have .mute field defined in their tuner structure.
- saa7134 - usual chip
- saa7133/35 - saa7135 is probably a marketing decision, since all those chips identifies itself as 33 on pci.

Credits

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andrew.stevens@philips.com + werner.leebe@philips.com for providing
saa7134 hardware specs and sample board.

Have fun,

Gerd

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Gerd Knorr <kraxel@bytesex.org> [SuSE Labs]