

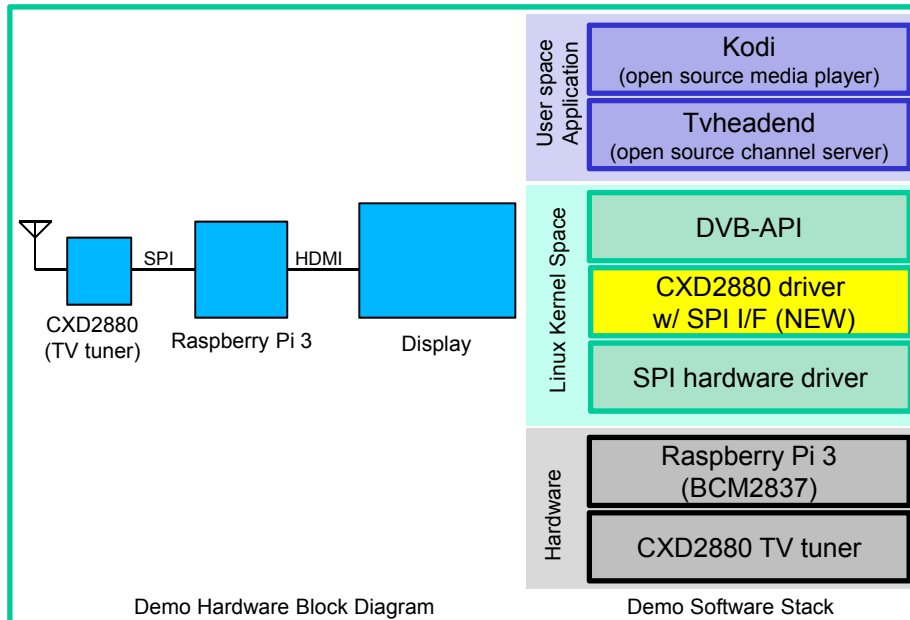


## TV tuner CXD2880 SPI I/F support in DVB-API

Paul Johns / Sony Europe Limited

Masayuki Yamamoto / Sony Semiconductor Solutions Corporation

### What is demonstrated



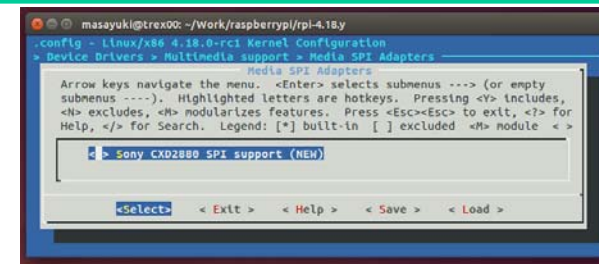
The CXD2880 receives DVB-T2/T signals and transfers an MPEG-2 transport stream via a SPI bus to the Raspberry Pi for picture decoding. An embedded MPEG-2 TS Packet ID (PID) filter reduces the data rate, which makes streaming over SPI possible. The CXD2880 driver is running in the Linux kernel space and has the common DVB API.

### Hardware Information

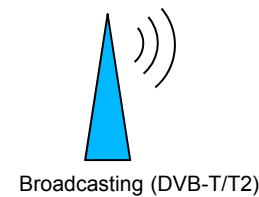
TV tuner: Sony CXD2880

SoC: Broadcom BCM2837 on Raspberry Pi 3

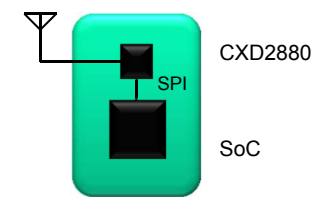
### What was improved



SPI I/F supported TV tuner is now available in Linux Kernel



Broadcasting (DVB-T/T2)



TV receiver

A low cost TV receiver can be designed with CXD2880 and embedded Linux SoC.

Single board computers have become popular. A low power TV tuner CXD2880 features SPI interface allowing direct attachment to a single board computer such as Raspberry Pi to make your own TV receiver with open source software. It may also be extended to new broadcasting services.

### Source code or detail technical information availability

[linux/drivers/media/dvb-frontends/cxd2880/](#)

[linux/drivers/media/spi/cxd2880-spi.c](#)

In Linux Kernel 4.17 or later versions