# HDMI CEC: A Status Update

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# Supported CEC Drivers

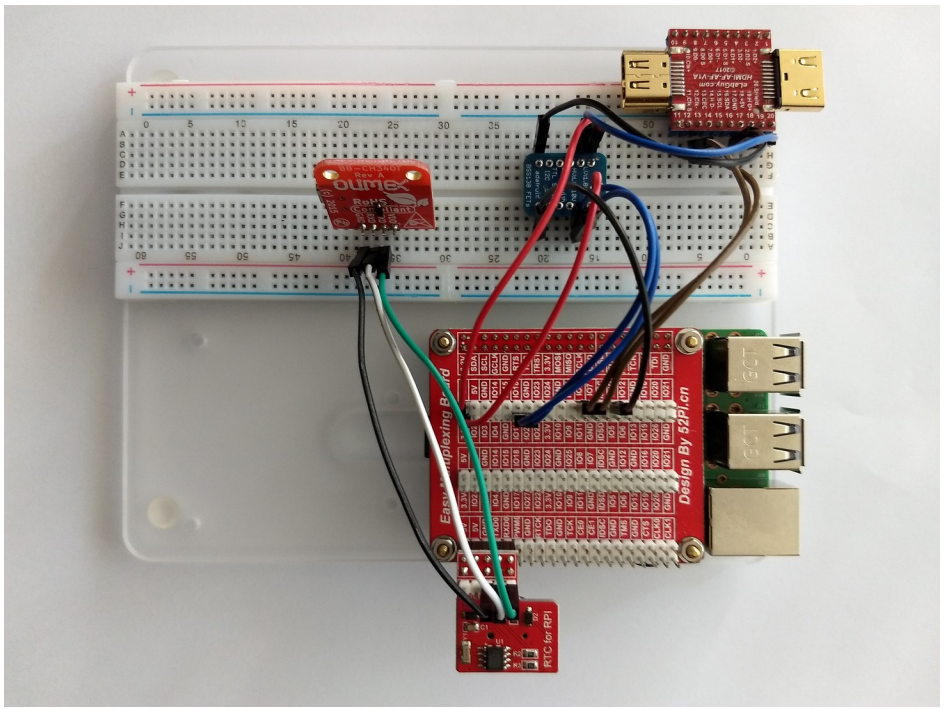
- HDMI Transmitters:  Exynos4, Exynos5, STIH4xx, adv7511/33, stm32, Allwinner A10, Raspberry Pi, dw-hdmi (Synopsis IP), amlogic (meson ao-cec), omap4, tegra, rk3288, rk3399, tda998x, ChromeOS EC CEC, CEC for SECO boards (UDOO x86).
- DisplayPort CEC-Tunneling-over-AUX: i915, nouveau and amdgpu. Still researching: supporting this for MST hubs. I suspect this is not possible.
- HDMI Receivers: adv7604/11/12, adv7842, tc358743.
- USB Dongles: Pulse-Eight, RainShadow Tech.
- Miscellaneous: vivid CEC emulation, cec-gpio.
- In progress: omap5/am57xx/dra7xx.

# CEC Utilities

- cec-ctl: Swiss army knife for CEC.
- cec-compliance: CEC compliance testing.
- cec-follower: emulate a CEC follower.

# CEC Debugging

- In most situations cec-ctl -M is sufficient.
- For bus-level testing you can turn a Raspberry Pi into a professional CEC tester:



# Future Work

- cec-compliance: not all features have in-depth tests, it would be nice to see this situation improve. Any volunteers?

# Resources

- Linux Media Infrastructure API: https://linuxtv.org/docs.php
- Upstream media git repository: http://git.linuxtv.org/media_tree.git
- v4l-utils git repository: http://git.linuxtv.org/v4l-utils.git
- linux-media mailinglist & irc channel: http://linuxtv.org/lists.php
- CEC Status document: https://hverkuil.home.xs4all.nl/cec-status.txt
- Raspberry Pi image for CEC debugging: https://hverkuil.home.xs4all.nl/cec-image
- https://linuxtv.org/wiki/index.php/Media_Open_Source_Projects:_Looking_for_Volunteers
- email: hverkuil@xs4all.nl

# Questions?