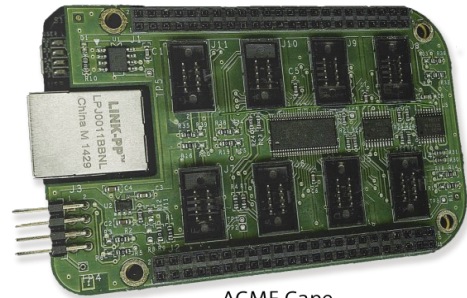# Power measurement with sigrok & ACME

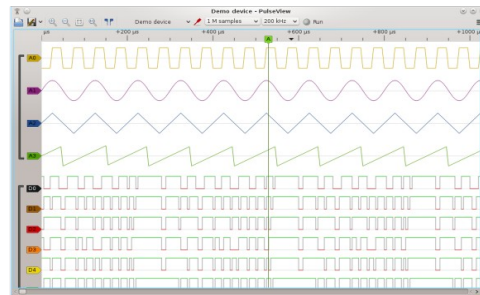Bartosz Golaszewski, Patrick Titiano / BayLibre, Ingenios
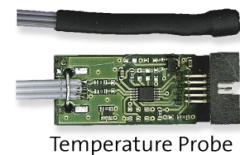
What is demonstrated

ACME power measurement cape for BeagleBone Black integrated with the sigrok software suite.
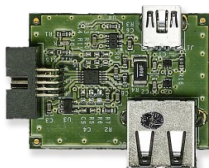

ACME Cape

Integrated with Sigrok Pulseview
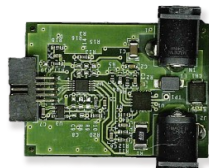

Temperature Probe

USB Power Probe

Jack Power Probe

ACME Power Probe

Hardware Information

TI BeagleBone Black (AM3358 SoC),
BayLibre ACME cape,
TI INA226, TI TMP435.

What was improved

- **All-in-one solution for power measurement and power control**
  - High-precision, multi-channel, low-cost
  - Power-switching control
  - Temperature measurement
  - Open Standard connector
  - Non intrusive & evolutive architecture

- **Sigrok - complete open-source suite**
  - Low-level hardware interface
  - Command-line and GUI front-ends
  - ACME driver in upstream
  - Complete buildroot package available

- **ACME solution**
  - Custom Linux system for BeagleBone Black built by Buildroot
  - Open hardware
  - Pulseview GUI available via onboard HDMI or remotely with vncviewer
  - Measurement components supported by mainline Linux

Source code or detail technical information availability

http://sigrok.org/
http://sigrok.org/wiki/BayLibre_ACME
http://baylibre.com/acme/