sigrok

sigrok is an Open-Source signal analysis software suite that supports various device types, such as logic analyzers, MSOs, oscilloscopes, multimeters, LCR meters, sound level meters, thermometers, hygrometers, anemometers, light meters, DAQs, dataloggers, function generators, spectrum analyzers, power supplies, GPIB interfaces, and more.

Supported Devices

Logic Analyzers

Oscilloscopes
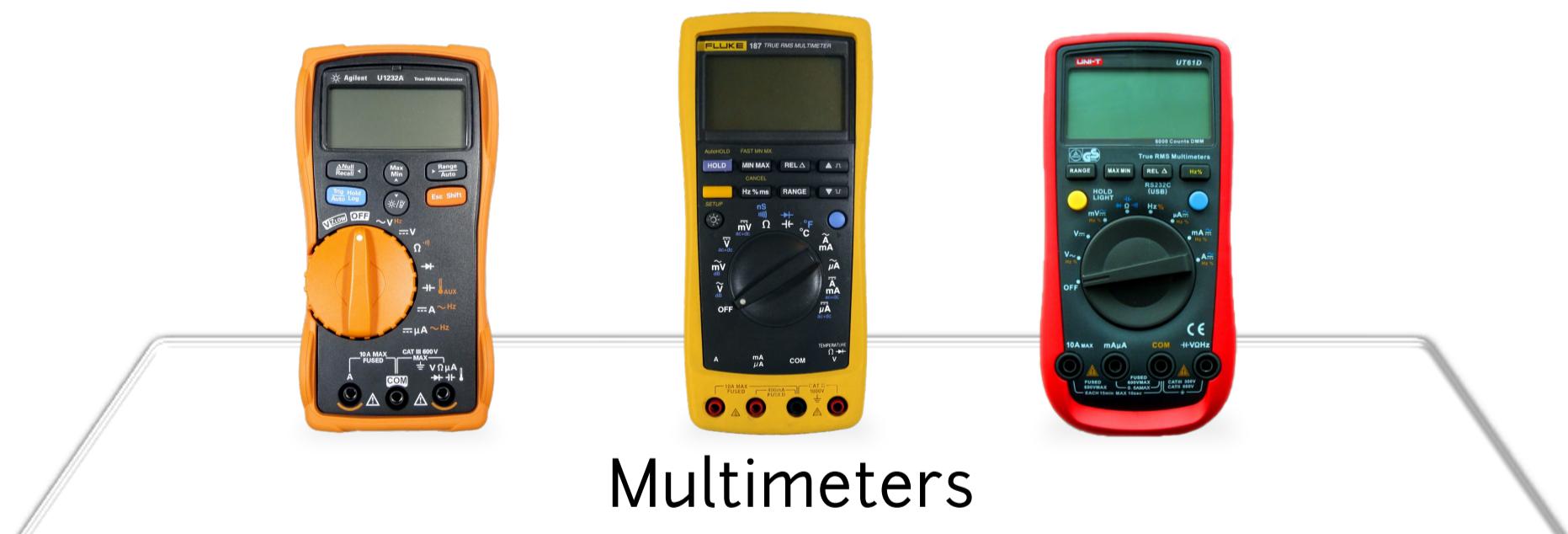
Multimeters
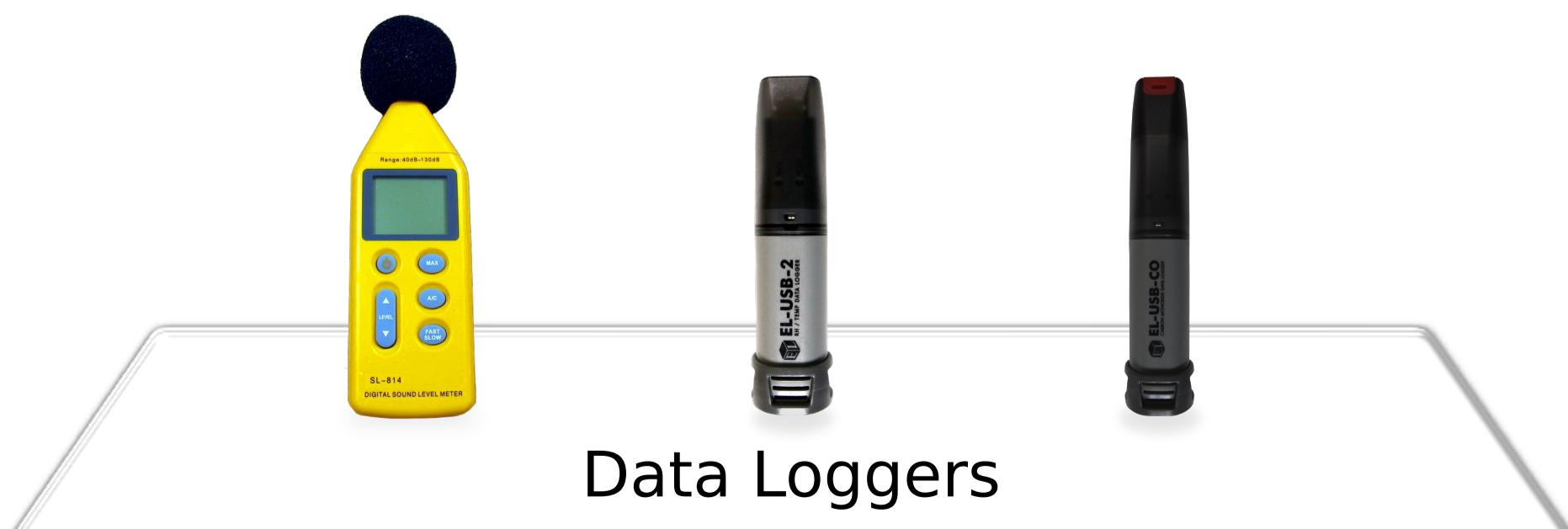
Data Loggers

Libraries

libsigrokdecode

Contains Stackable Python Protocol Decoders

Low Level Decoders

1-Wire	I²C	SPI	I²S
UART	JTAG	Parallel	CAN

etc.

High Level Decoders

EDID	MIDI	SD Card	IC Protocols

etc.

libsigrok

Contains Core Sigrok Functionality

Device Drivers	Output (ASCII, Hex, Binary, VCD, CSV, GnuPlot, etc.)
File Input (CSV, VCD, Binary, etc.)	

Applications

PulseView
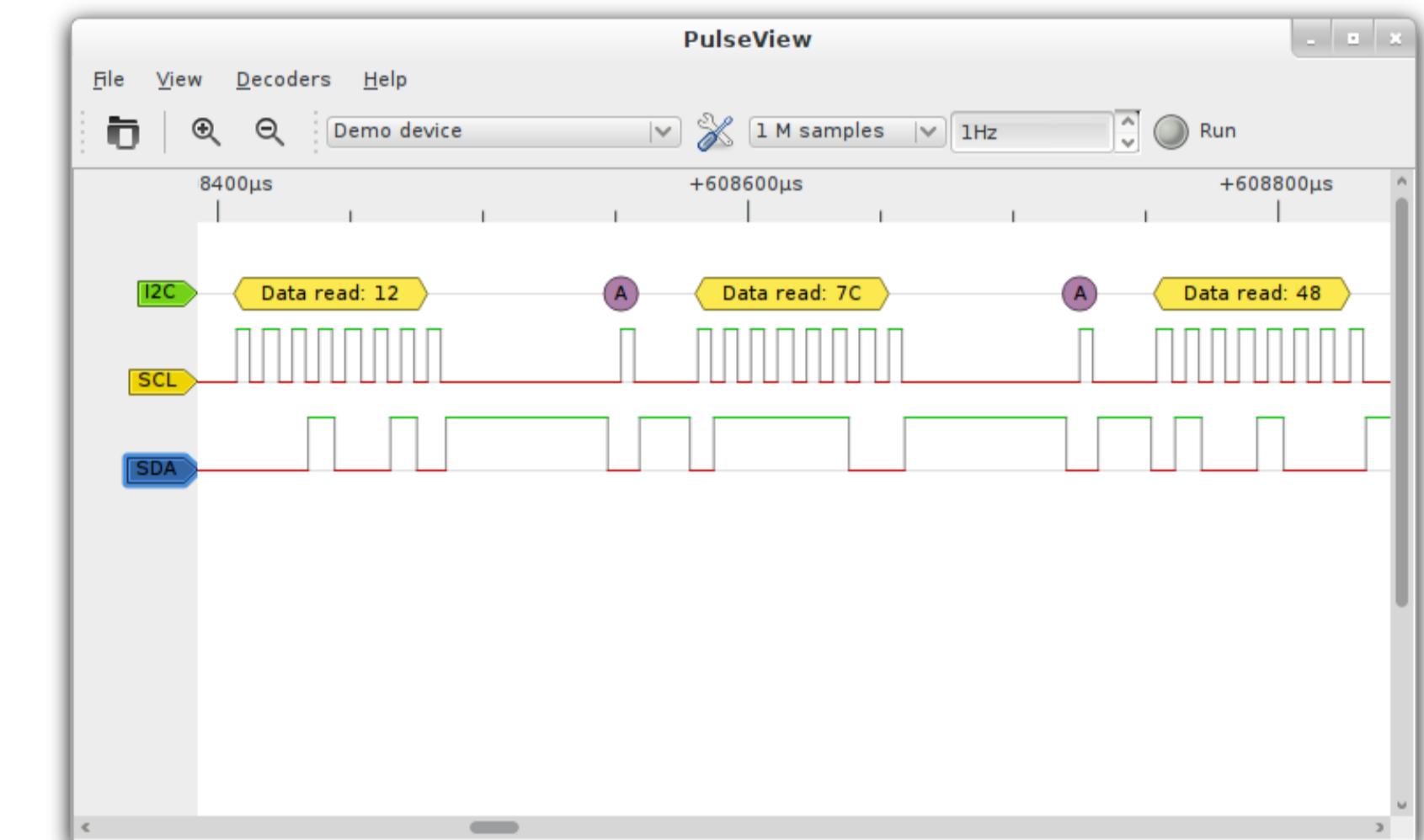
sigrok-cli

```
$ sigrok-cli --config samplerate=1M --prob
Acquisition with 2/16 probes at 1 MHz
1:/""""""""\............/""""""""""\....
2:............/"""""""""""""""""""""\.....
1:........../"""""""""\........../"""""""""
2:................/""""""""""""""""""""""\......

$ sigrok-cli -i spi.sr -P spi:mosi=0:sck=1
spi: "FF/1FFE"
spi: "FF/1FFE"
spi: "5C/1FFE"
spi: "C5/1FFE"
spi: "A4/1FFE"
```