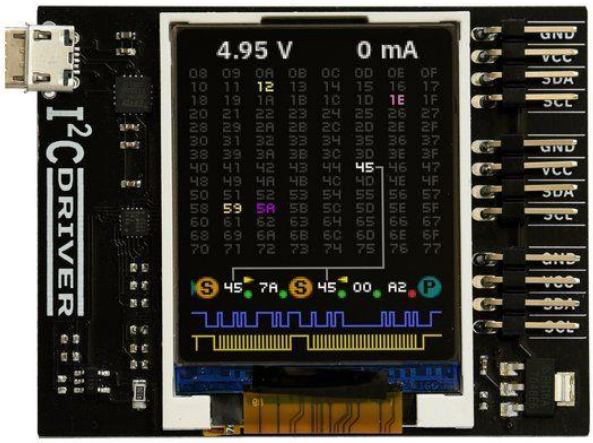
SEEED-105990130

I2C Driver/Adapter-Easily Driver I2C Devices



PRODUCT DETAILS

I²CDriver is an easy-to-use, open source tool for controlling I²C devices. It works with Windows, Mac, and Linux, and has a built-in color screen that shows a live "dashboard" of all the I²C activity. It uses a standard FTDI USB serial chip to talk to the PC, so no special drivers need to be installed. The board includes a separate 3.3 V supply with voltage and current monitoring.

Features

- Open hardware: the design, firmware and all tools are under BSD license
- Live display: shows you exactly what it's doing all the time
- Fast transfer: sustained I²C transfers at 400 and 100 kHz
- USB power monitoring: USB line voltage monitor to detect supply problems, to 0.01 V
- Target power monitoring: target device high-side current measurement, to 5 mA
- I²C pullups: programmable I²C pullup resistors, with automatic tuning
- Three I²C ports: three identical I²C ports, each with power and I²C signals
- Jumpers: color coded jumpers included in each pledge level

- 3.3 output: output levels are 3.3 V, all are 5 V tolerant
- Supports all I²C features: 7- and 10-bit I²C addressing, clock stretching, bus arbitration
- Sturdy componentry: uses an FTDI USB serial adapter, and Silicon Labs automotive-grade EFM8 controller
- Usage reporting: reports uptime, temperature, and running CRC of all traffic
- Flexible control: GUI, command-line, C/C++, and Python 2/3 host software provided for Windows, Mac, and Linux

Specifications

- Maximum power out current: up to 470 mA
- Device current: up to 25 mA
- Dimensions: 61 mm x 49 mm x 6 mm
- Computer interface: USB 2.0, micro USB connector

Part List

I²CDriver with three cable sets