

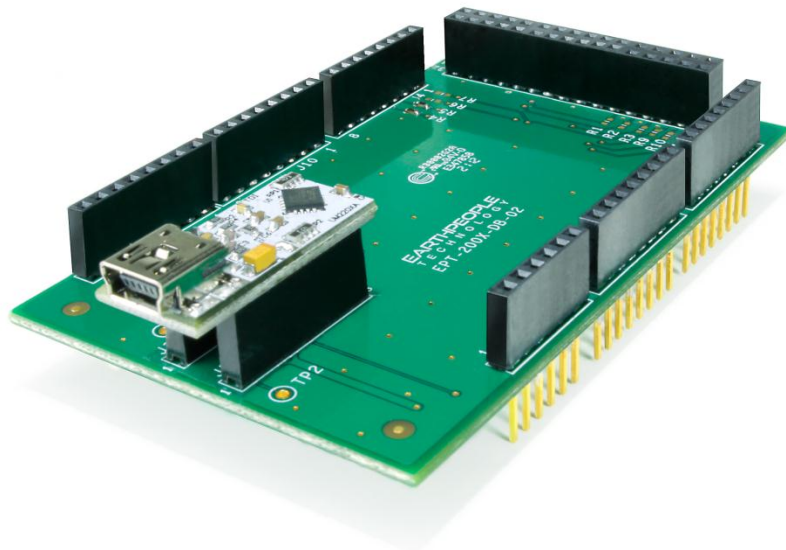


User Manual EPT USB to Slave I2C For The MEGA

## EPT 201X-DB-M4

# USB TO SLAVE I2C DEVICE FOR THE ARDUINO MEGA

## User Manual



The EPT 201X-DB-M4 is designed to support the 2560 Mega board of the Arduino Open source Prototyping Platform. The Mega can communicate as an I2C Master to an I2C Slave device. The EPT 201X-DB-M4 is a USB to Slave I2C device. This will allow users to communicate from the Arduino Mega board to the PC over I2C. Use the Active Host API to quickly and easily create a simulated I2C sensor on the PC. Use the simulated I2C Sensor to debug your Arduino I2C Master communication code.

The EPT 201X-DB-M4 I2C Slave Communications Board can communicate directly with Hyper Serial Port to provide a serial terminal for debugging the Arduino I2C Master communications. You can easily create your own I2C communications and debug it using the EPT 201X-DB-M4.

Circuit designs, software and documentation are copyright © 2012, Earth People Technology, Inc

Microsoft and Windows are both registered trademarks of Microsoft Corporation. Altera is a trademark of the Altera Corporation. All other trademarks referenced herein are the property of their respective owners and no trademark rights to the same are claimed.

<http://www.earthpeopletechnology.com/>

## 1 Introduction and General Description

The Earth People Technology USB to Slave I2C system comprises model number EPT-201X-DB-M4. The Hardware consists of a Full Speed (12 Mb/s) USB 2.0 to Slave I2C bus chip from FTDI, the FT201X. The software consists of support from Active Host.

### 1.1 1.1 Block Diagram

An overall block diagram of the USB to Slave I2C system is shown in figure 1 below.

Figure 1.

### 1.2 USB to I2C Slave Sensor Simulator

