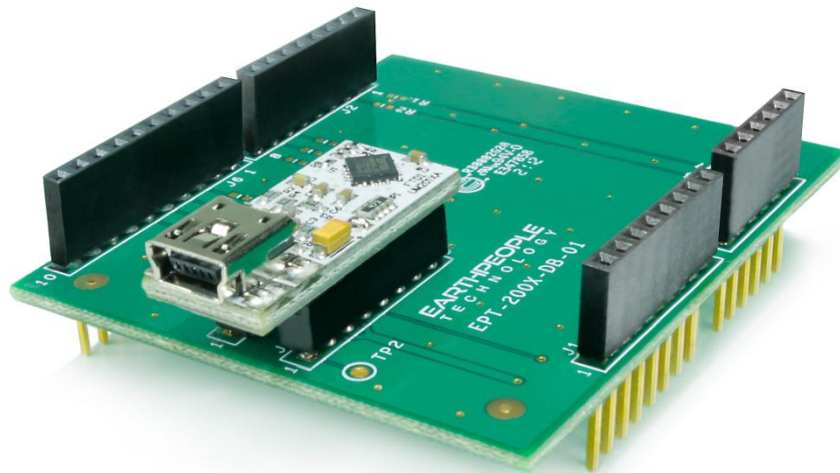


EPT 201X-DB-U2

USB TO SLAVE I2C DEVICE FOR THE ARDUINO UNO

Data Sheet



The EPT 201X-DB-U2 is designed to support the UNO board of the Arduino Open source Prototyping Platform. The UNO can communicate as an I2C Master to an I2C Slave device. The EPT 201X-DB-U2 is a USB to Slave I2C device. This will allow users to communicate from the Arduino UNO 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-U2 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-U2.

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Features:

- Uses FTDI 201X IC Chip
- USB to Slave I2C Interface
- Up to 3.4 MHz, high speed mode, I2C supported
- +5V I/O compatible
- Supported by Active Host API

1 1 Introduction and General Description

The Earth People Technology USB to Slave I2C system comprises model number EPT 201X-DB-U2. 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

