

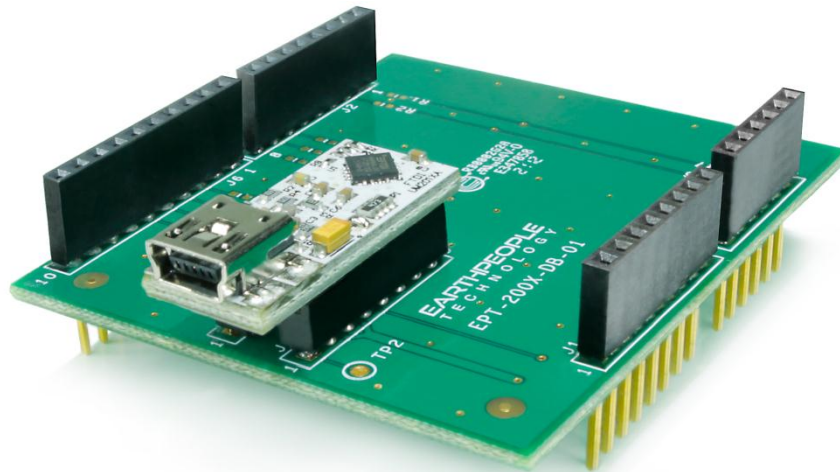


Data Sheet EPT USB to Slave SPI For The UNO

EPT 220X-DB-U2

USB TO SLAVE SPI DEVICE FOR THE ARDUINO UNO

Data Sheet



The EPT 220X-DB-U2 is designed to support the Uno board of the Arduino Open source Prototyping Platform. The Uno can communicate as an SPI Master to an SPI Slave device. The EPT 220X-DB-U2 is a USB to Slave SPI device. This will allow users to communicate from the Arduino Uno board to the PC over SPI. Use the Active Host API to quickly and easily create a simulated SPI sensor on the PC. Use the simulated SPI Sensor to debug your Arduino SPI Master communication code.

The EPT 220X-DB-U2 SPI Slave Communications Board can communicate directly with Hyper Serial Port to provide a serial terminal for debugging the Arduino SPI Master communications. you can easily create your own SPI communications and debug it using the EPT 220X-DB-U2.

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/>

Features:

Uses FTDI 220X IC Chip
USB to Slave SPI Interface
Data transfer rates to 500 Kbytes/sec
+5V I/O compatible
Supported by Active Host API

1 1 Introduction and General Description

The Earth People Technology USB to Slave SPI system comprises model number EPT 220X-DB-U2. The Hardware consists of a Full Speed (12 Mb/s) USB 2.0 to Slave SPI bus chip from FTDI, the FT220X. The software consists of support from Active Host.

1.1 1.1 Block Diagram

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

Figure 1.

1.2 USB to SPI Slave Sensor Simulator

