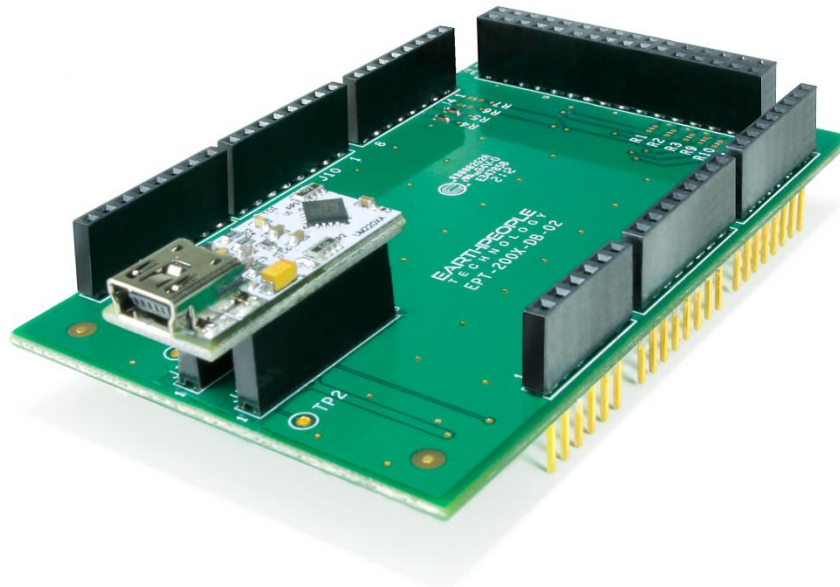


EPT 220X-DB-M4

USB TO SLAVE SPI DEVICE FOR THE ARDUINO MEGA

User Manual



The EPT 220X-DB-M4 is designed to support the MEGA board of the Arduino Open source Prototyping Platform. The MEGA can communicate as an SPI Master to an SPI Slave device. The EPT 220X-DB- M4 is a USB to Slave SPI device. This will allow users to communicate from the Arduino MEGA 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- M4 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- M4.

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1 1 Introduction and General Description

The Earth People Technology USB to Slave SPI system comprises model number EPT 220X-DB- M4. 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

