2. Soldering the headers

Before using your click™ board, make sure to solder 1x8 male headers to both left and right side of the board. Two 1x8 male headers are included with the board in the package.

USB SPI click™

1. Introduction

USB SPI click™ is an accessory board in mikroBUS™ form factor. It’s a compact and easy solution for adding SPI serial communication via USB cable. It features MCP2210 USB-to-SPI protocol converter with GPIO as well as USB MINI B connector. USB SPI click™ communicates with target board via SPI interface as a master device. The board is designed to use 3.3V or 5V power supply. It has a LED diode (GREEN) that indicates the presence of power supply.

2. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS™ socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS™ socket. If all the pins are aligned correctly, push the board all the way into the socket.

3. Essential features

USB SPI click™ with its MCP2210 IC gives additional SPI serial communication via USB cable. The MCP2210 IC contains 256 Bytes of user EEPROM, 128 Byte buffer to handle data (64 byte transmit and 64-byte receive) and nine general purpose I/O pins. The board contains 12 MHz crystal oscillator which provides external clock waveform for MCP2210 IC as well as a LED diode which indicates SPI traffic.
5. USB SPI click™ board schematic

6. SMD jumper

There is one zero-ohm SMD jumper J1 which is used to select whether 3.3V or 5V power supply is used. Jumper J1 is soldered in 3.3V position by default.

7. Code examples

Once you have done all the necessary preparations, it's time to get your click™ board up and running. We have provided examples for mikroC™, mikroBasic™ and mikroPascal™ compilers on our Libstock™ website. Just download them and you are ready to start.

8. Support

MikroElektronika offers free tech support (www.mikroe.com/support) until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!