

USB SPI click[™]

1. Introduction



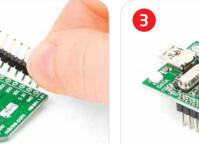
USB SPI Click[™] is an accessory board in **mikroBUS**[™] form factor. It's a compact and easy solution for adding SPI serial communication via USB cable. It features **MCP2210** USB-to-SPI protocol converter with GPIO as well as USB MINI B connector. USB SPI Click[™] communicates with target board via 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. 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.

2

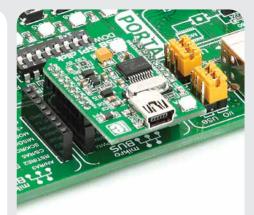




Turn the board upside down so that bottom side is facing you upwards. Place shorter parts of the header pins in both soldering pad locations.



to align the headers so that they are perpendicular to the board, then solder the pins carefully.



4. Essential features

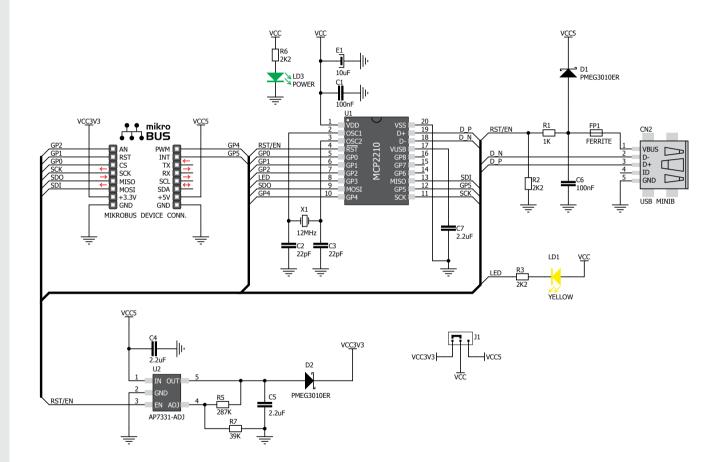
USB SPI Click[™] with it's MCP2210 IC's gives additional SPI serial communication via USB cable. The MCP2210 IC contains 256 Bytes of user EEPROM, 128 Byte buffer to handle data (64 byte transmit and 64-byte receive) and nine general purpose I/O pins. The board contains 12 MHz crystal oscillator which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







5. USB SPI Click^m 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 the 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/esupport) until the end of product lifetime, so if something goes wrong, we are ready and willing to help!



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