Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!
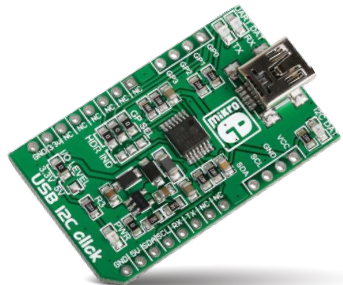

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
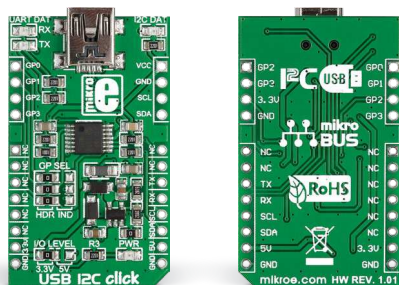Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

USB I2C click

1. Introduction

USB I²C click carries an **MCP2221 USB-to-UART/I²C** protocol converter. The board communicates with the target microcontroller through mikroBUS™ UART (RX, TX) or I2C (SCL, SDA) interfaces. In addition to mikroBUS™, the edges of the board are lined with additional GPIO (GP0-GP3) and I²C pins (SCL, SDA plus VCC and GND). It can operate on 3.3V or 5V logic levels.
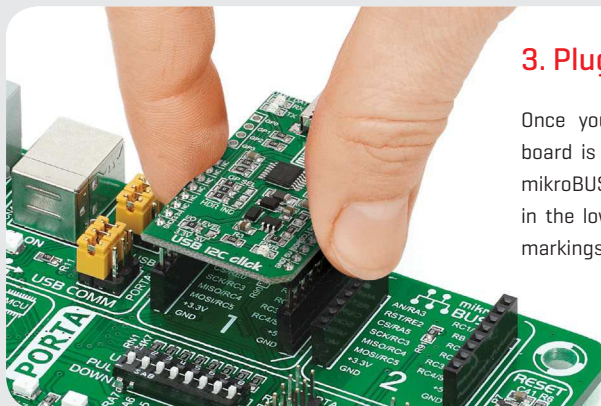
2. Soldering the headers

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.

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❷
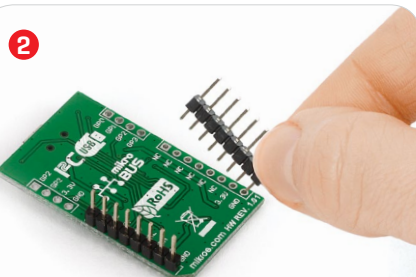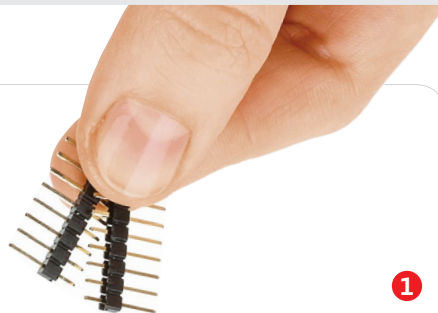
Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.

❸
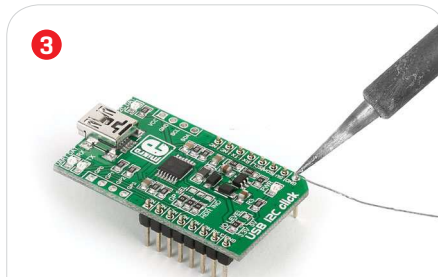
Turn the board upward again. Make sure to align the headers so that they are perpendicular to the board, then solder the pins carefully.

3. 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.
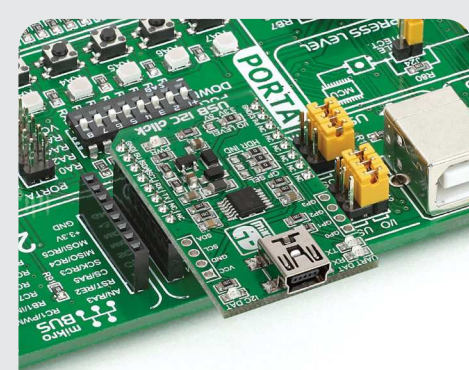
4. Essential features

The chip supports full-speed USB (**12 Mb/s**), I²C with up to **400 kHz** clock rates and UART baud rates between **300 and 115200.** The USB has a 128-byte Buffer (64-Byte Transmit and 64-byte Receive) supporting data throughput at any of those baud rates. The I²C interface supports up to 65,535-byte long Reads/Writes Blocks. The board is also supported with Microchip's configuration utility and drivers for Linux, Mac, Windows and Android.
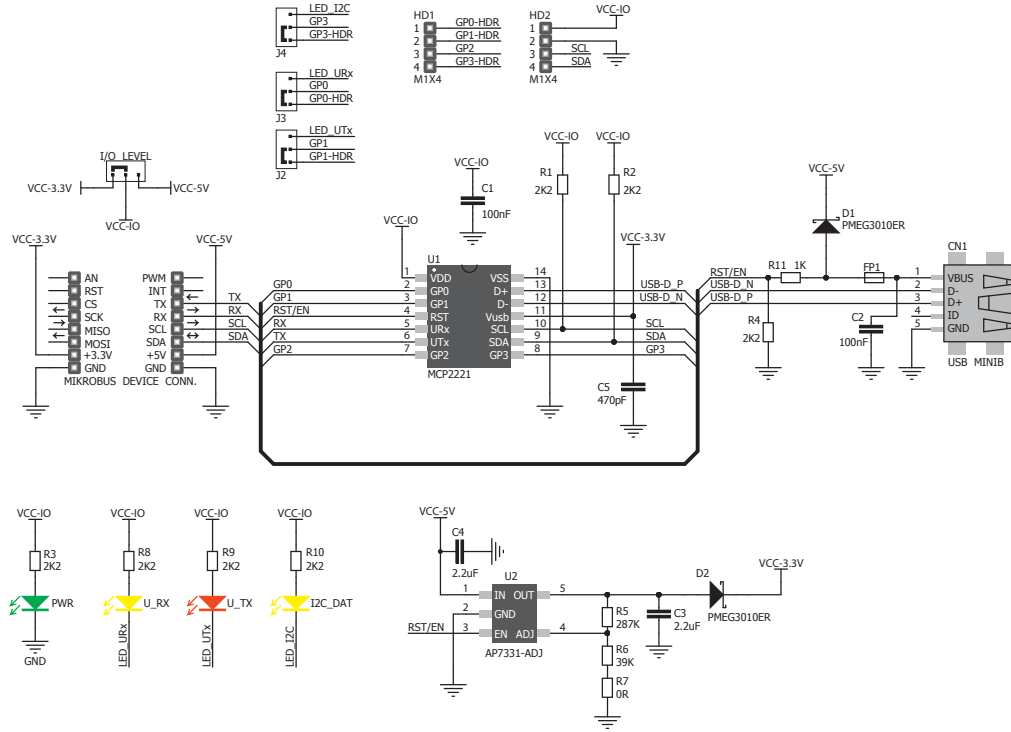
click
BOARD™
www.mikroe.com

5. Schematic

8. Code examples

9. 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!

MikroElektronika
DEVELOPMENT TOOLS | COMPILERS | BOOKS

6. Dimensions
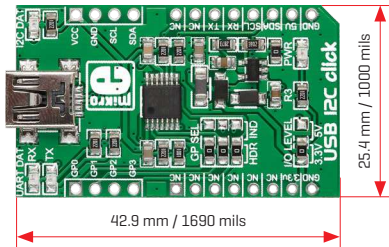
	mm	mils
LENGTH	42.9	1690
WIDTH	25.4	1000
HEIGHT*	3.9	154

* without headers

7. Two sets of SMD jumpers
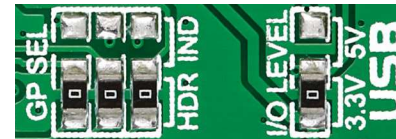
GP SEL is for specifying whether the GPO I/Os will be connected to the pinout, or used to power signal LEDs. I/O LEVEL jumpers are for switching between 3.3V or 5V logic.

10. Disclaimer