

click™

USB adapter

Connect the desired Click™ additional board directly to your PC via USB cable. No micro-controllers required.

TO OUR VALUED CUSTOMERS

I want to express my thanks to you for being interested in our products and for having confidence in MikroElektronika.

The primary aim of our company is to design and produce high quality electronic products and to constantly improve the performance thereof in order to better suit your needs.

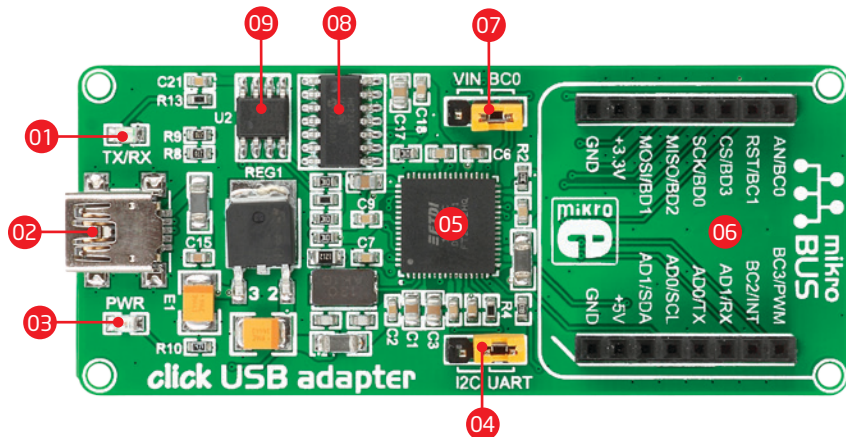
A stylized, handwritten signature in black ink, consisting of a large 'C' followed by several loops and a long horizontal stroke.

Nebojsa Matic
General Manager

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Introduction



- 01 TX/RX indication LED
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Click USB adapter board provides necessary interface for connecting Click™ add-on boards to your PC through high speed USB connection. There is no need to use a microcontroller. It features **FT2232H** dual high speed USB to multipurpose IC, Analog-to-Digital converter, EEPROM memory and a single mikroBUS™ host socket. **FT2232H** provides necessary communication lines defined by the mikroBUS™ standard. mikroBUS™ host connector consists of two 1x8 female headers with **SPI** (MOSI, MISO, SCK, CS), **I²C** (SDA,

SCL), **UART** (Tx, Rx), **RST**, **PWM**, **Analog** and **Interrupt** lines as well as **3.3V**, **5V** and **GND** power lines. **Click USB adapter** board can be powered through USB cable only. On-board power circuitry generates 3.3V and 5V. Two jumpers are provided on the board. **J1** jumper is used to select whether UART or I²C will be used. **J2** selects whether AN pin on mikroBUS™ socket will be just another GPIO pin, or connected to **MCP3204** AD converter circuit, thus serving for analog readings.

3.3V VOLTAGE REGULATOR

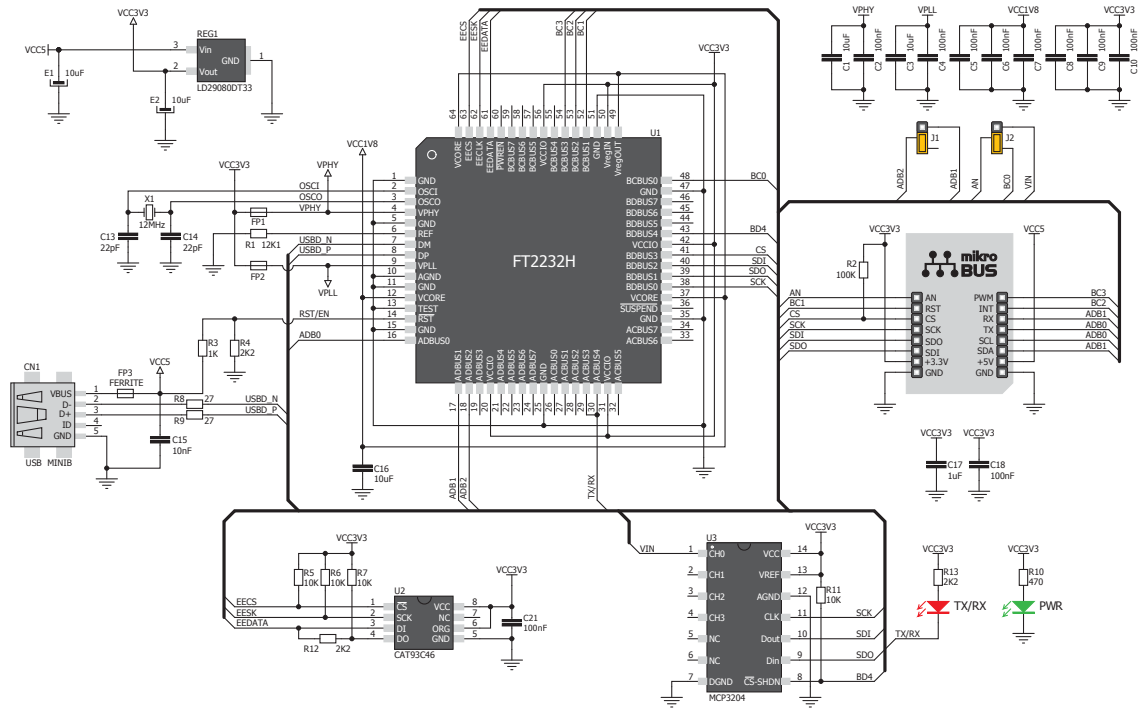


Figure 1: Click USB adapter schematic

Install drivers before use

On-board **FT232H** chip requires drivers to be installed on your PC before operation. Drivers are available on the manufacturer's website: <http://www.ftdichip.com/Drivers/VCP.htm>

Figure 2:
FT232H
controller
from FTDI® Chip

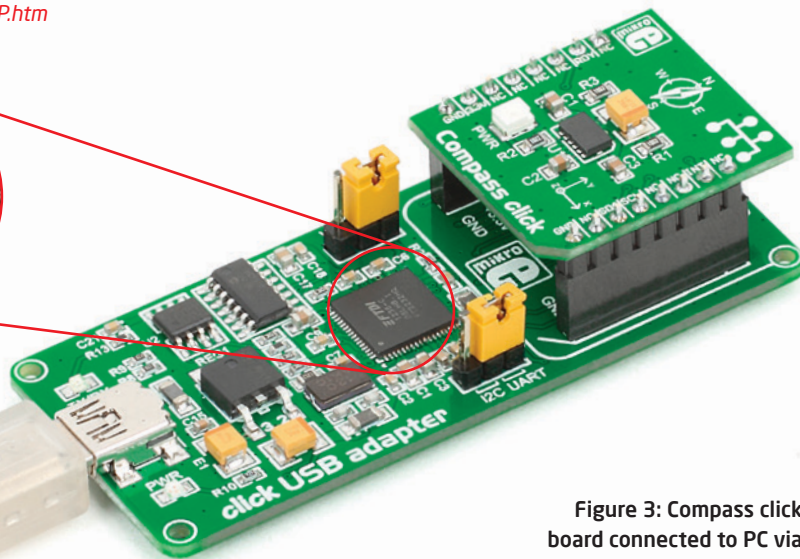
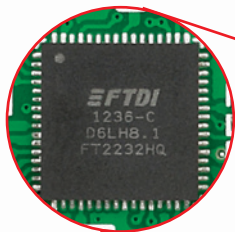
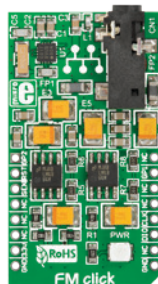


Figure 3: Compass click
board connected to PC via
click USB adapter board

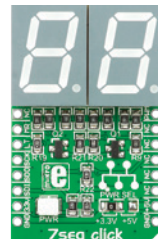
Click boards are plug and play!

Up to now, MikroElektronika has released more than 60 mikroBUS™ compatible **Click Boards™**. On the average, one click board is released per week. It is our intention to provide you with as many add-on boards as possible, so you will be able to expand your development board with additional functionality. Each board comes with a set of working example codes. Please visit the Click boards™ webpage for the complete list of currently available boards:

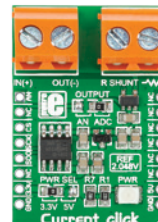
<http://www.mikroe.com/click/>



FM click™



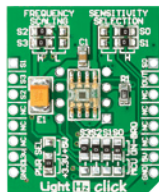
7seg click™



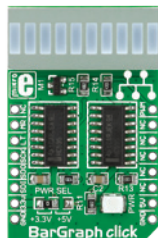
Current click™



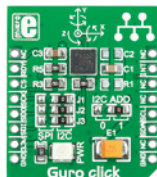
Bluetooth2 click™



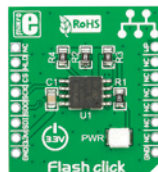
LightHz click™



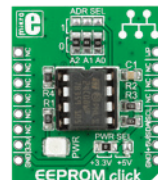
BarGraph click™



Gyro click™



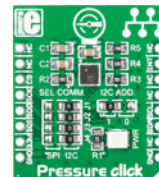
Flash click™



EEPROM click™

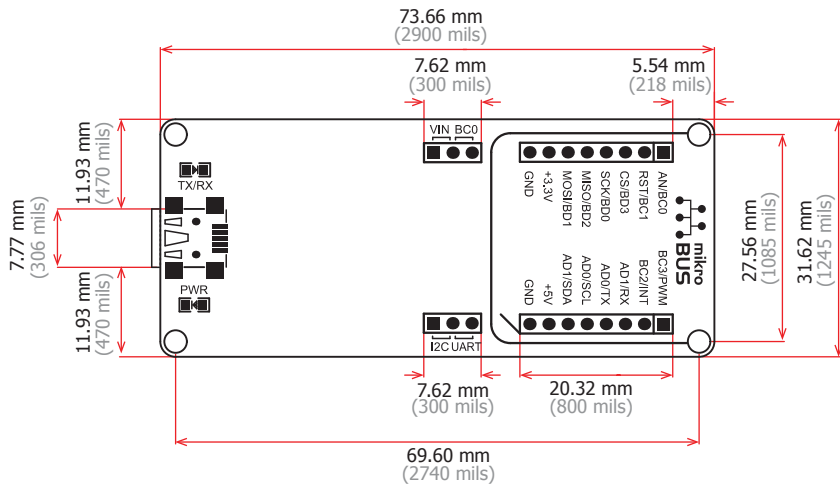


THERMO click™



Pressure click™

Dimensions



Notes:

Notes:

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ver. 1.02



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