BLUETOOTH click™

1. Introduction

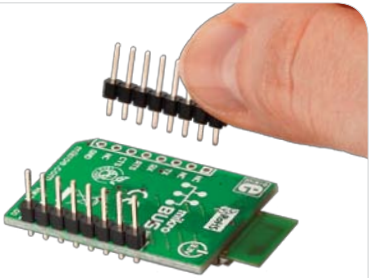
BLUETOOTH click is an accessory board in **mikroBus™** form factor. It features **RN-41** fully qualified Bluetooth 2.1/2.0/1.2/1.1 module with UART interface which is easy and simple to use. Device is a Class 1 high power radio and can operate up to **100m distance**. Board offers low power (30mA connected, less then 10mA sniffmode), highly economic Bluetooth radio for adding wireless capability to your products. Board is designed to use 3.3V power supply only.

2. Soldering the headers

Before using your click board, make sure to solder the provided 1x8 male headers to both sides of the board. Two 1x8 male headers are included with the board in the package.

1

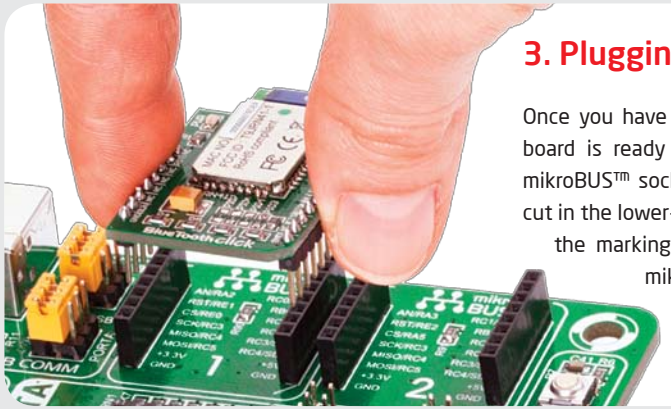
2



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

3

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 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. Board applications

The **RN-41** supports multiple Bluetooth profiles, is fully certified, and is simple to design in, making it a complete embedded Bluetooth solution. Low power consumption and high data rates make this device the best choice in barcode scanners, mesurement and monitoring systems, industrial sensors and controls, medical devices, asset tacking and more.

click™
BOARD
www.mikroe.com

Bluetooth click Manual
ver. 1.00

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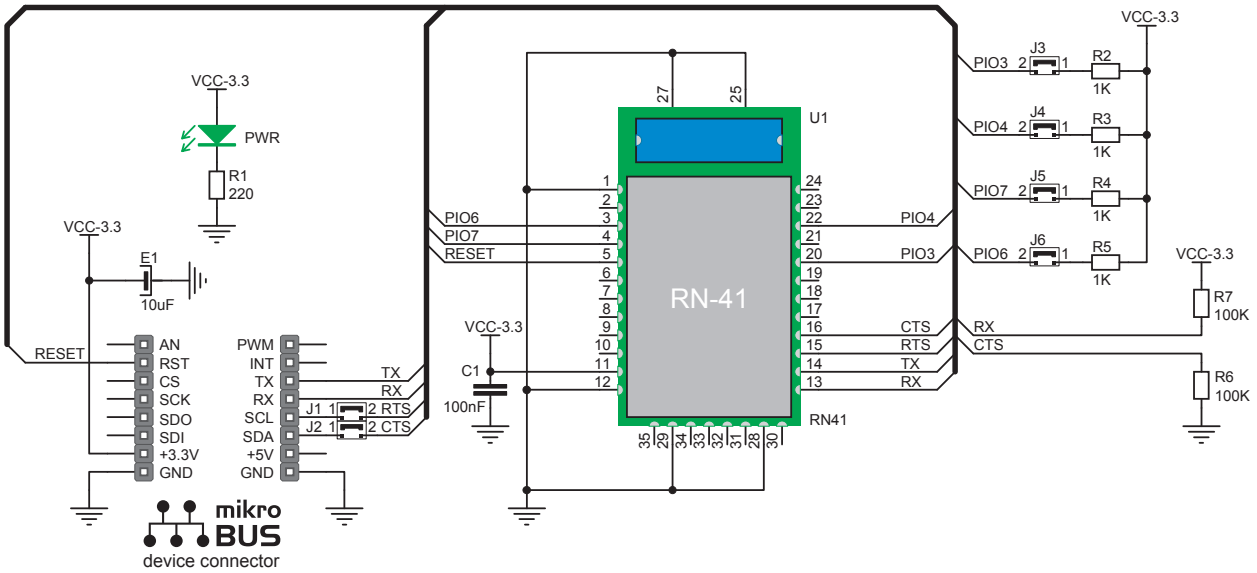
5. BLUETOOTH click Board Schematics



6. Power supply - 3.3V only

Board is designed to use 3.3V power supply only. If you need to add bluetooth feature to your 5V prototype or development board, we recommend you to use other boards such as the EasyBluetooth board:

http://www.mikroe.com/eng/products/view/621/easybluetooth-board/

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!