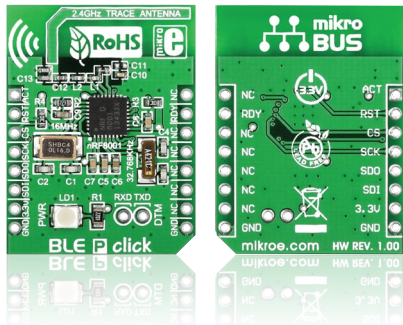




## BLE P click™

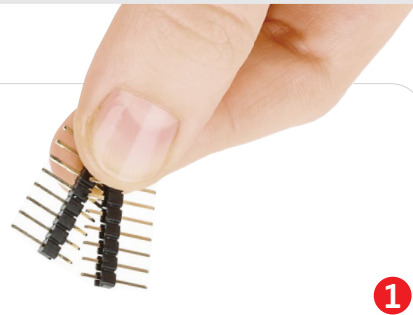
### 1. Introduction



BLE P click™ is a simple solution for adding a Bluetooth 4.0 (alternatively known as Bluetooth Low Energy) peripheral device to your design. It communicates with the target board through **mikroBUS™** SPI (CS, SCK, MISO, MOSI), INT (RDY) and AN (ACT) lines. Beside the mikroBUS™ socket, BLE P click™ also features additional UART input and output pins (RXD and TXD). These enable you to test the RF parameters of the BLE P's radio design. The board uses a 3.3V power supply only.

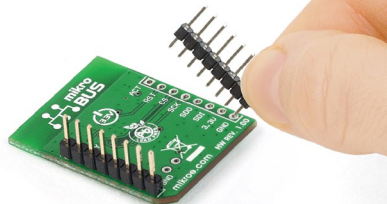
### 2. Soldering the headers

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.



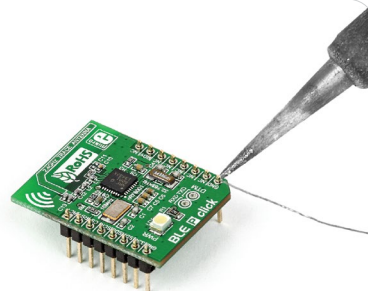
1

2



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.

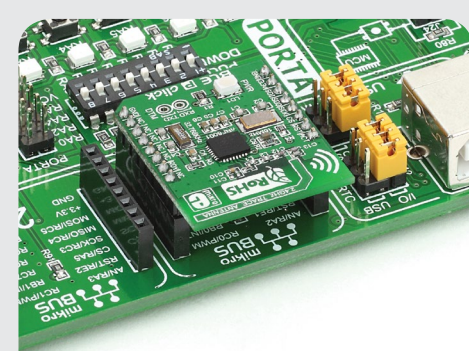
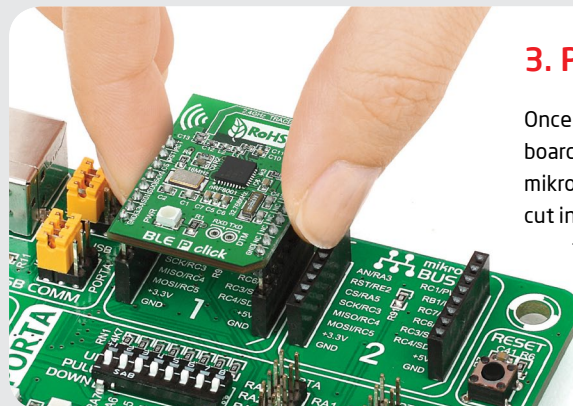
3



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 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

BLE P click™ carries a nRF8001 single-chip Bluetooth low energy IC. Compared to its predecessors, Bluetooth 4.0 has reduced power consumption while keeping a similar range. nRF8001 click™ has a built-in stack that features a low energy PHY layer, low energy link layer slave, low energy host for devices in the peripheral role and an Application Controller Interface. Applications for BLE P include Sport and fitness sensors, Health care sensors, proximity sensors, smart watches, Personal User Interface Devices and remote controls.



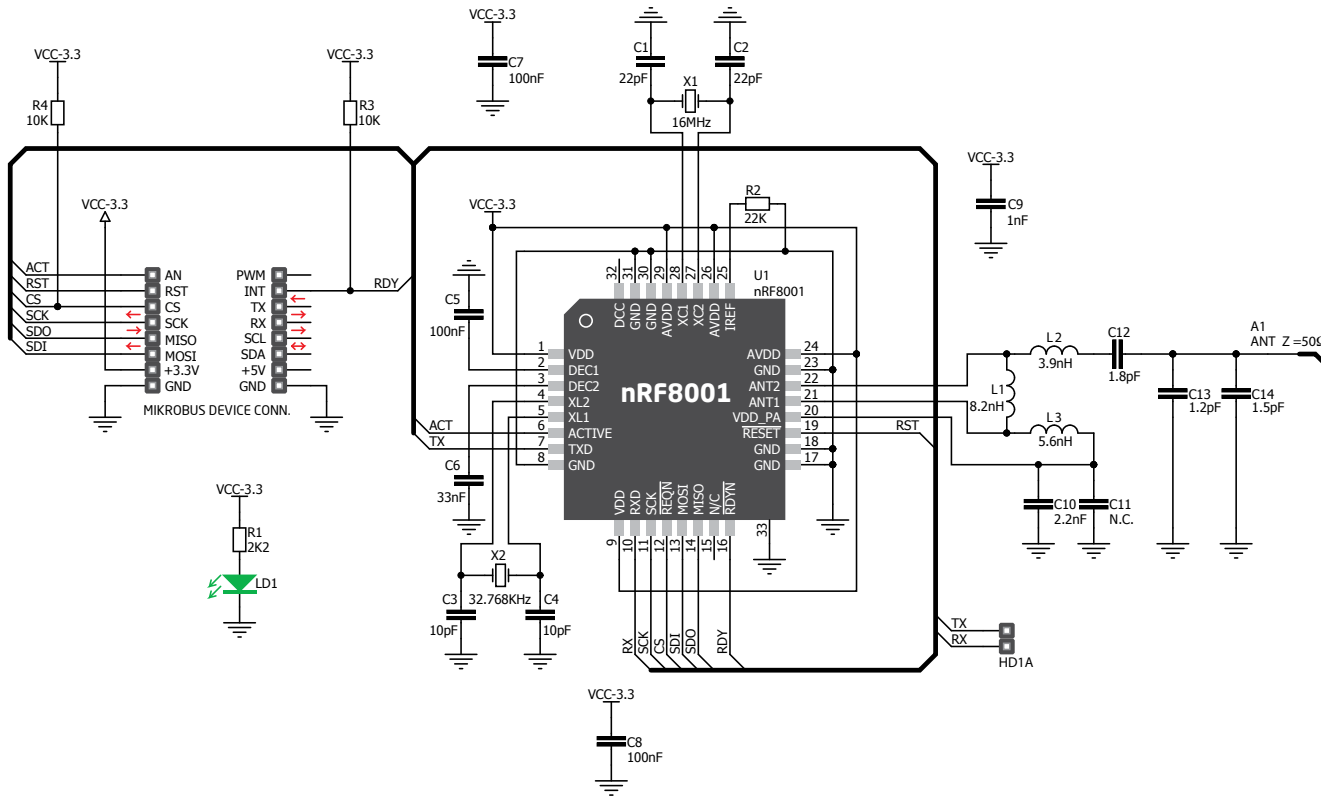
[www.mikroe.com](http://www.mikroe.com)

BLE P click™ manual  
ver. 1.00



0 100000 026823

## 5. BLE P click™ board schematic



## 6. PCB trace antenna



BLE P click™ features a PCB trace antenna, designed for the 2400-2483.5 MHz frequency band. Maximum device range is up to 40 meters in open space.

## 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](http://www.mikroe.com/support)) until the end of the product's lifetime, so if something goes wrong, we're ready and willing to help!



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

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Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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