

**XBEE click** 



## 1. Introduction

XBee click carries the Xbee<sup>®</sup> and Zigbeecompliant XB24CZ7PIS-004 module with a PCB antenna from Digi International. The module provides wireless connectivity to end-point devices in ZigBee mesh networks. The board can communicate with the target MCU either through the mikroBUS<sup>™</sup> UART interface (TX, RX, RTS i CTS), or SPI (MISO, MOSI, SCK, CS). Additional functionality is provided by, Reset, and ATTN-DTR pins. Uses 3.3V power supply only.

#### 2. Soldering the headers

Before using your click board<sup>™</sup>, 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.

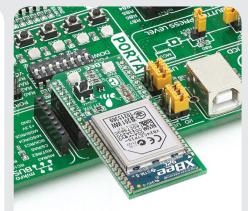


Turn the board upside down so that the bottom side is facing you upwards. Place shorter pins of the header into the appropriate soldering pads.



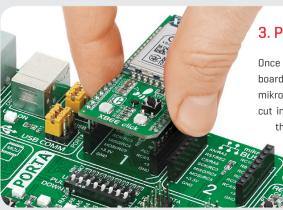
ิก

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



#### 4. Essential features

XBee click is network-compatible with other devices that conform to ZigBee standards. The module operates at the **2.4-2.5GHz** band, has a wireless range of up to **60m** indoors, or up to **1.2km** outdoors (line-of-sight). The RF data rate is up to **250 Kbps**. To simplify deployment, the click features a commissioning button and an associated LED. They allow you to issue simple configuration commands with subsequent button presses (joining or leaving networks, self-identification, restoring default values etc.]

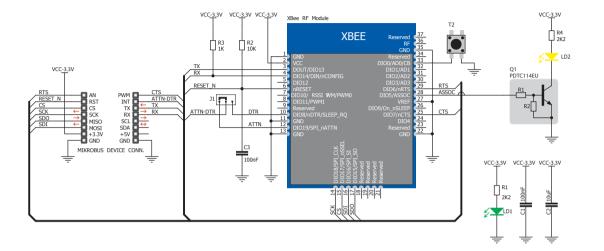


# 3. Plugging the board in

Once you have soldered the headers your board is ready to be placed into the desired mikroBUS<sup>™</sup> socket. Make sure to align the cut in the lower-right part of the board with the markings on the silkscreen at the mikroBUS<sup>™</sup> socket. If all the pins are aligned correctly, push the board all the way into the socket.



#### 5. Schematic



### 8. Code examples

Once you have done all the necessary preparations, it's time to get your click board<sup>™</sup> up and running. We have provided examples for mikroC<sup>™</sup>, mikroBasic<sup>™</sup> and mikroPascal<sup>™</sup> compilers on our **Libstock** website. Just download them and you are ready to start.



# 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!



## 6. Dimensions



	mm	mils
LENGTH	57.15	2250
WIDTH	25.4	1000
HEIGHT*	5.33	210

\* without headers

# 7. ATT/DTR jumper



The ATT/DTR jumper is for setting the interrupt feature, depending on whether SPI or UART is used for data transmission [ATT for SPI, DTR for UART].

## 10. Disclaimer

MikroElektronika assumes no responsibility or liability for any errors or inaccuracies that may appear in the present document. Specification and information contained in the present schematic are subject to change at any time without notice.

Copyright © 2015 MikroElektronika. All rights reserved.

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Zigbee Development Tools - 802.15.4 category:

Click to view products by MikroElektronika manufacturer:

Other Similar products are found below :

EVAL\_PAN4555ETU 4467CPCE10D868 STEVAL-IFS013V2 DFR0050 WRL-14549 BOB-13311 ATRCB256RFR2-XPRO ATREB231ED-EK ATREB233-XPRO ATZB-A-233-XPRO ATZB-X-212B-USB ATZB-X-233-USB ATZB-X-233-XPRO 76000956 XK-WDM IS.OMB-001 DM182016-1 MIKROE-4277 MIKROE-1599 MIKROE-290 MIKROE-987 FRDM-KW41Z 113020004 EM35X-BBRD RBK-ZW500-E2 RBK-ZW500-U2 RD-0039-0201 RFX2411N-EVB WRL-11373 WRL-11812 WRL-12847 CC2538-CC2592EMK 101-1272 SKY66114-11-EK1 SKY66403-11EK1 SKY66112-11EK1 XB24-DKS XB24-DKS-INT XB24-DKSJ XB24-DMDK XB24-DMDK-WJ XB24-PDKJ XBEE-MP-MCRO XBEE-MP-SMT XBEE-MP-TH XBIB-CU-TH XBP09-DMDK XBP24-DKS XK8-DMSB0 XKA2C-Z7T-U