

## WiFi PLUS click

**PID:** MIKROE-1135

**Weight:** 38 g

**WiFi PLUS click** is a compact solution for adding WiFi communication to your project. The click features **MRF24WB0MA** – 2.4GHz, IEEE std. 802.11 - compliant module from Microchip, as well as **MCW1001** companion controller with on-board TCP/IP stack and 802.11 connection manager.

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The combination of the MRF24WB0MA and MCW1001 results in support for IEEE Standard 802.11 and IP services.

WiFi PLUS click is designed to run on a 3.3V power supply. It communicates with the target MCU over an UART interface.

#### PCB antenna

The MRF24WB0MA RF transceiver module contains integrated PCB antenna with range up to **400m**.

#### MRF24WB0MA module

**MRF24WB0MA** is a low-power, 2.4 GHz, IEEE 802.11-compliant, surface mount module with all associated RF components such as crystal oscillator, bypass and bias passives with integrated MAC, baseband, RF and power amplifier, and built-in hardware support for AES, and TKIP (WEP, WPA, WPA2 security).

The module has low power consumption modes. In sleep mode it uses 250  $\mu$ A (typical), and while in hibernate mode the typical power consumption is only **0.1  $\mu$ A**.

## MCW1001A companion chip

The **MCW1001A** is a companion chip to the MRF24WB0 802.11 module. It provides simple socket based method of sending and receiving data from the MRF24WB0 802.11 module. The MCW1001A has an on-board TCP/IP stack and 802.11 connection manager to simplify the connection between a wireless network and the TCP/IP stack management.

### Key features

- ▶ MRF24WB0MA module from Microchip
  - ▶ IEEE 802.11-compliant RF Transceiver
  - ▶ Compatible with IEEE 802.11b/g/n networks
  - ▶ Integrated PCB antenna
  - ▶ Range: up to 400m (1300 ft.)
- ▶ MCW1001A companion chip
- ▶ Interface: UART
- ▶ 3.3V power supply

### Downloads

|                                                                                     |                                                                                                                                       |
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|   | <a href="#">mikroBUS™ Standard specification</a>  |
|  | <a href="#">WiFi PLUS click Examples</a>           |
|  | <a href="#">WiFi PLUS click Schematic</a>                                                                                             |
|  | <a href="#">MRF24WB0MA datasheet</a>                                                                                                  |
|  | <a href="#">MCW1001A datasheet</a>                                                                                                    |
|  | <a href="#">WiFi Click boards™ guide</a>                                                                                              |
|  | <a href="#">Click Boards™ Catalog</a>                                                                                                 |

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