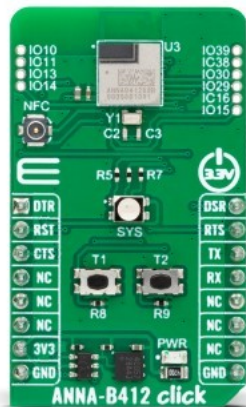


## ANNA-B412 Click



PID: MIKROE-5829

**ANNA-B412 Click** is a compact add-on board that provides BT/BLE connectivity for any embedded application. This board features the ANNA-B412, a standalone Bluetooth 5.1 low-energy module from u-blox. It is a System-in-Package (SiP) design with pre-flashed u-connectXpress software, which supports Bluetooth LE Serial port service, GATT client and server, Bluetooth beacons, Bluetooth long-range, NFC, and simultaneous peripheral and central roles. The Bluetooth module in LE mode can achieve up to 2Mbps data rates. This Click board™ makes the perfect solution for the development of industrial automation, smart building applications, low-power sensors, wireless-connected and configurable equipment, and more.

ANNA-B412 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.  
 ISO 14001: 2015 certification of environmental management system.  
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

## Specifications

Type	BT/BLE
Applications	Can be used for the development of industrial automation, smart building applications, low-power sensors, wireless-connected and configurable equipment, and more
On-board modules	ANNA-B412 - standalone Bluetooth 5.1 low-energy module from u-blox
Key Features	Based on the Nordic nRF52833 single-chip controller, Bluetooth 5.1 LE, the NFC interface operates an NFC tag, low power consumption, embedded flash, internal RAM, AT commands set support, onboard printed Bluetooth antenna, direction finding (AoA/AoD), and more
Interface	UART
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[ANNA-B412 click example on Libstock](#)

[ANNA-B412 click 2D and 3D files](#)

[ANNA-B412 click schematic](#)

[ANNA-B412 datasheet](#)

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