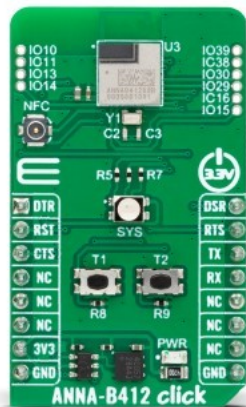# ANNA-B412 Click

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.

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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](#)