

## BLE 10 Click



PID: MIKROE-5135

**BLE 10 Click** is a compact add-on board that provides BT/BLE connectivity for any embedded application. This board features the PAN1780-AT, a Bluetooth® 5 Low Energy Module based on Nordic's nRF52840 single-chip controller from Panasonic. The Bluetooth® 5 features enable a higher symbol rate of 2Mbps using the high-speed LE 2M PHY, allowing for much larger broadcasted data in connectionless scenarios. Nordic nRF52840 comes with integrated BlueRadios nBlue™ Bluetooth® AT.s LE Command Set, ARM® Cortex®-M4F, 1MB Flash, and a 256kb RAM offering high design flexibility, supporting also Type 2 Near Field Communication (NFC). This Click board™ is suitable for low-energy Bluetooth® applications, high interference environments, connectionless scenarios, and long-range applications.

BLE 10 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 low-energy Bluetooth® applications, high interference environments, connectionless scenarios, and long-range applications
On-board modules	PAN1780-AT - Bluetooth® Low Energy Module from Panasonic
Key Features	Based on Nordic nRF52840 single-chip controller featuring ARM® Cortex®-M4F with 64 MHz, Bluetooth® 5 LE including LE 2M and LE Coded PHY, low power consumption, embedded 1 MB Flash memory and 256 kB internal RAM, AT command set, and more
Interface	UART,USB
ClickID	No
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

[BLE 10 click example on Libstock](#)

[BLE 10 click 2D and 3D files](#)

[BLE 10 click schematic](#)

[MAX40200 datasheet](#)

[PAN1780 AT commands](#)

[TLV1117 datasheet](#)

[PAN1780 datasheet](#)

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