

NFC 3 Click



PID: MIKROE-5538

NFC 3 Click is a compact add-on board that contains an NFC transceiver for contactless communication at 13.56MHz. This board features the [PN5180A0HN](#), a highly integrated high-performance full NFC Forum-compliant frontend from [NXP Semiconductors](#). The PN5180A0HN utilizes an outstanding modulation and demodulation concept for different contactless communication methods and protocols. It is fully compliant with many Reader/Writer standards (ISO 14443A/B, ISO 15693, ISO 18092, and more), alongside support for reading all NFC tag types (type 1, 2, 3, 4A, and 4B). Besides the SPI host interface, it also features high RF output power to drive an antenna etched on the PCB directly, besides its tuning circuit, at high efficiency. This Click board™ represents an ideal solution for rapidly integrating NFC technology into any custom application.

NFC 3 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	RFID/NFC
Applications	Can be used for industrial and consumer NFC applications like industrial, eGov readers, payment terminals, and more
On-board modules	PN5180A0HN - multiprotocol NFC frontend from NXP Semiconductors
Key Features	High performance, full NFC Forum-compliant frontend, contactless communication at 13.56MHz, fully compliant with many Reader/Writer standards, reading of all NFC tag types, SPI interface, high RF power, possibility of updating the implemented firmware, and more
Interface	SPI
ClickID	Yes
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V,5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

[ClickID](#)

Downloads

[NFC 3 click 2D and 3D files](#)

[PN5180A0HN datasheet](#)

[NFC 3 click schematic](#)

[NFC 3 click example on Libstock](#)

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