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NB IoT 4 Click

PID: MIKROE-4769

NB IoT 4 Click is a compact add-on board that contains a cellular IoT-based module with integrated eSIM for global data connectivity. This board features the C1-RM, a three-band NB-IoT, IoT/2G wireless communication module supporting Band 3, 5, and 8 mainly applied to low power data transmission service from Cavli Wireless. The module also supports the 3GPP Release 13 standard and meets almost all M2M requirements because of its ultra-small size. It uses low-power technology with a Standby power consumption of less than 1mA, where deep sleep mode can be as low as 5uA. It also offers external interfaces, protocol stacks (providing great convenience for your applications), and a complete range of SMS and data transmission services to meet client-side demands. This Click board™ is suitable for many IoT applications, such as smart metering, intelligent wearables, security and asset tracking, home appliances, environmental monitoring, and more.

NB IoT 4 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).

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Specifications

Type	LTE IoT
Applications	Can be used for many IoT applications, such as smart metering, intelligent wearables, security and asset tracking, home appliances, environmental monitoring, and more
On-board modules	C1-RM - LTE CAT NB-IoT intelligent cellular module with 2G fall-back option based on 3GPP Release 13 with integrated eSIM feature for global data connectivity from Cavli Wireless
Key Features	Ultra-low power consumption, multi-band NB-IoT module, high performance, built-in eSIM, wake-up interrupt, and more.
Interface	Analog,I2C,SPI,UART,USB
ClickID	No
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[NB IoT 4 click 2D and 3D files](#)

[FT230X datasheet](#)

[NB IoT 4 click schematic](#)

[C1-RM AT Command Manual](#)

[C1-RM datasheet](#)

[NB IoT 4 click example on Libstock](#)