

BATT Boost Click



PID: MIKROE-5947

BATT Boost Click is a compact add-on board that expands a coin battery cell's lifetime and current capability, like the CR2032 and lithium thionyl batteries. This board features the NBM5100A, a coin-cell battery life booster with adaptive power optimization from Nexperia. It is a battery energy management device designed to maximize usable capacity from non-rechargeable, primary batteries when used in low-voltage, low-power applications requiring burst current loads. The devices overcome voltage drop and battery life limitations associated with extracting high pulse currents. This Click board™ makes the perfect solution for the development of battery-powered IoT, industrial applications, consumer and wearable devices, and more.

BATT Boost Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this [Click board™](#) apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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	Boost
Applications	Can be used for the development of battery-powered IoT, industrial, consumer and wearable devices, and more
On-board modules	NBM5100A - coin-cell battery life booster with adaptive power optimization from Nexperia
Key Features	Coin-cell battery life booster with adaptive power optimization, programmable constant battery load current, protection against battery voltage dips, low ripple regulated programmable output voltage, low standby current, high peak conversion efficiency, integrated fuel gauge, and more
Interface	I2C
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V, External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[NBM5100 datasheet](#)

[BATT Boost click 2D and 3D files](#)

[BATT Boost click schematic](#)

[BATT Boost click example on Libstock](#)

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).