

BATT-MAN 2 Click



PID: MIKROE-4837

BATT-MAN 2 Click is a compact add-on board representing an advanced battery and power management solution. This board features the [MAX77654](#), a single inductor, multiple-output (SIMO) power management IC (PMIC) from [Analog Devices](#). This I2C programmable board features a buck-boost regulator that provides three independently programmable power rails from a single inductor. Also, it has one 100mA LDO output with ripple rejection for audio and other noise-sensitive applications and a highly-configurable linear charger that supports a wide range of Li+ battery capacities featuring battery temperature monitoring for additional safety (JEITA). This Click board™ is suitable as a battery charging and power supply solution for low-power applications where size and efficiency are critical.

BATT-MAN 2 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	Buck-Boost
Applications	Can be used as a battery charging and power supply solution for low-power applications where size and efficiency are critical
On-board modules	MAX77654 - single inductor, multiple-output (SIMO) power management IC (PMIC) from Maxim Integrated, now part of Analog Devices
Key Features	3 x Buck-Boost outputs, 1 x LDO output, low power consumption, DC charging source, charger optimized for small battery size, flexible and configurable interface, analog MUX output for power monitoring, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V, External

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)

Downloads

[BATT-MAN 2 click 2D and 3D files](#)
[BATT-MAN 2 click schematic](#)
[PCA9306 datasheet](#)
[MAX77654 datasheet](#)
[ADP160 datasheet](#)
[BATT-MAN 2 click example on Libstock](#)

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