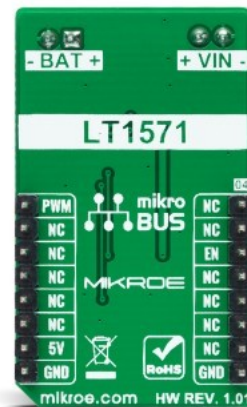


Charger 16 Click



PID: MIKROE-4768

Charger 16 Click is a compact add-on board that represents a single-cell battery charger. This board features the [LT1571](#), a constant-current/constant-voltage battery charger with preset voltage and termination flag from [Analog Devices](#). Powering up from an external power supply rated up to 20V, this Click board™ has an onboard current sense resistor which allows simple charge current programming to within 5% accuracy. The internal switch is capable of delivering a 1.5A DC (2A peak current). It also comes with an indication for battery near full-charge state, when the charge current drops to 20% of the programmed value, and selectable constant voltage for 4.1V or 4.2V per cell with 0.6% accuracy. This Click board™ is suitable as a Li-Ion, NiMH, NiCd battery charger for portable devices and accessories, power tools, and more.

Charger 16 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	Battery charger
Applications	Can be used as a Li-Ion, NiMH, NiCd battery charger for portable devices and accessories, power tools, and more
On-board modules	LT1571 - constant-current/constant-voltage battery charger with preset voltage and termination flag from Analog Devices
Key Features	Low power consumption, low shutdown current, fast charging of Li-Ion, NiMH and NiCd batteries, simple charge current programming, high efficiency up to 1.5A charge current, battery voltage selection, battery charging indication, and more
Interface	GPIO,PWM
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	5V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Charger 16 click example on Libstock](#)

[Charger 16 click 2D and 3D files](#)

[Charger 16 click schematic](#)

[LT1571 datasheet](#)

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