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Charger 6 Click





PID: MIKROE-4576

Charger 6 Click is a compact add-on board that represents a single-cell battery charger. This board features the BQ25601, an I2C controlled battery charger for high input voltage and narrow voltage DC power path management from Texas Instruments. This buck charger supports USB, and it's optimized for USB voltage input. The low impedance power path optimizes switch-mode operation efficiency, reduces battery charging time, and extends battery life during discharge. It also has a programmable current limiting, allowing it to use an external power supply rated up to 13.5V. This Click board™ is suitable as a Li-Ion and Li-polymer battery charger for portable devices and accessories, power tools, and more.

DC Motor 17 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	Battery charger
Applications	Can be used for a Li-Ion and Li-polymer battery charger for portable devices and accessories, power tools, and more.
On-board modules	BQ25601 - fast-charging solution for single-cell Li-Ion and Li-polymer battery with high input voltage suitable for a wide range of smartphones, tablets, and portable devices from Texas Instruments
Key Features	High efficiency, USB On-The-Go feature, high battery discharge efficiency, accuracy, programmable input current limit, and more.
Interface	I2C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Charger 6 click 2D and 3D files

BQ25601 datasheet

Charger 6 click schematic

Charger 6 click example on Libstock

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