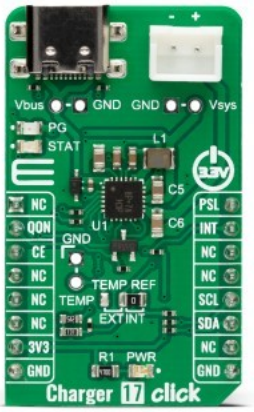
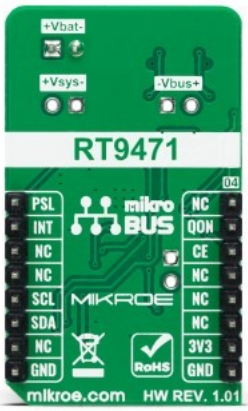
MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

Charger 17 Click





PID: MIKROE-4823

Charger 17 Click is a compact add-on board that provides a single-cell battery charging solution. This board features the RT9471, a 3A single-cell switching battery charger from Richtek. It is a highly-integrated battery charge and system power-path management device for single-cell Li-Ion and Li-Polymer batteries. The high-efficiency 1.5MHz synchronous switch-mode buck charger achieves up to 92% charge efficiency at 2A with 5V input and 3.8V battery. This Click board™ makes the perfect solution for the development of Li-Ion/Polymer battery chargers for portable devices and accessories, power tools, and more.

Charger 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.

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Specifications

Type	Battery charger
Applications	Can be used for the development of Li-Ion/Polymer battery chargers for portable devices and accessories, power tools, and more
On-board modules	RT9471 - 3A single-cell switching battery charger from Richtek
Key Features	JST connector for charging single-cell Li-Ion and Li-Polymer batteries, USB C external power supply, or over the VBUS/GND header, high charger efficiency, high boost efficiency, supports USB On-the-Go with current and voltage limit regulation, up to 3150mA of current charging range, over-temperature protection, VBUS over-voltage protection, battery over-voltage protection, and more
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

Charger 17 click example on Libstock

Charger 17 click 2D and 3D files

RT9471 datasheet

Charger 17 click schematic