

PowerBank Click



PID: MIKROE-4082

PowerBank Click is a USB charging expansion board which can be used for creating power bank devices or adding charging option to your device. For battery charging management this board uses [MP2632B](#) a highly integrated 3A Lu-ion and Li-polymer battery charger from [Microchip](#). In addition to battery charger PowerBank Click also has a [MCP3221](#) analog to digital converter, which is serving for monitoring battery voltage over I2C interface. Beside battery charging and monitoring feature, this board also has an operation section button, notification LEDs for operational mode selection and battery status. Power banks are popular for charging USB charged devices and can be used as a power supply for various USB powered devices such as lights and small fans.

PowerBank 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	Battery Charger Applications, Power-Bank Applications for Smartphones, Tablets and Other Portable Devices
On-board modules	MP2632B switch-mode battery charger
Key Features	Switch-mode battery charger with system power-path management designed for single-cell Li-ion or Li-polymer batteries
Interface	I2C
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[PowerBank click 2D and 3D files](#)

[MCP3221 datasheet](#)

[MP2632B datasheet](#)

[PowerBank click example on Libstock](#)

[PowerBank click schematic](#)

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