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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 $^{\text{TM}}$ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS $^{\text{TM}}$ 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.





health and safety management system.



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Specifications

Туре	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
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

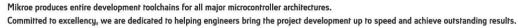
PowerBank click 2D and 3D files

MCP3221 datasheet

MP2632B datasheet

PowerBank click example on Libstock

PowerBank click schematic







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