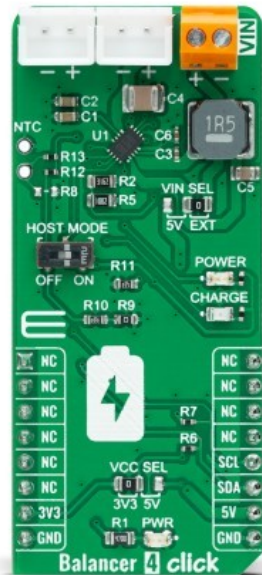


Balancer 4 Click



PID: MIKROE-5271

Balancer 4 Click is a compact add-on board optimized for overvoltage protection balancing the voltage of serially connected batteries. This board features the [MP2672A](#), a highly integrated, flexible switch-mode battery charger for Lithium-Ion batteries with two cells in series from [Monolithic Power Systems \(MPS\)](#). The MP2672A has a narrow voltage DC (NVDC) power structure and monitors the voltage across each cell, equalizing the cell's voltages if the difference between the two cells exceeds the mismatch threshold. It also has two selective operating modes with configurable output current up to 2A via register setting via I2C serial interface, alongside selectable MP2672A power supply, LED indication, and protection features allowing a reliable operation. This Click board™ is applicable for a wide range of portable applications, Point-of-Sale (POS) machines, general two-cell applications, and more.

Balancer 4 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 for portable applications, Point-of-Sale (POS) machines, general two-cell applications, and more
On-board modules	MP2672A - highly integrated and flexible switch-mode battery charger from Monolithic Power Systems (MPS)
Key Features	Two-cell Lithium-Ion batteries in series, up to 2A configurable charge current, compatible with Host-control or Standalone mode, NVDC power path management, integrated cell-balancing circuit for mismatched cells, status indicators, I2C interface, NTC, and more
Interface	I2C
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V, External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Balancer 4 click example on Libstock](#)

[MP2672A datasheet](#)

[Balancer 4 click 2D and 3D files](#)

[Balancer 4 click schematic](#)

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