

Charger 19 Click



PID: MIKROE-5899

Charger 19 Click is a compact add-on board that contains a battery charger. This board features the nPM1100, an integrated power management IC from Nordic Semiconductor. It has a highly efficient DC/DC buck regulator with automatic selection between hysteretic and PWM modes. The nPM1100 has automatic USB port detection and features discharge current limitation, battery thermal protection, automatic trickle, constant current, and constant voltage charging. This Click board™ makes the perfect solution for developing Li-Ion/Polymer battery chargers for portable devices and accessories, power tools, and more.

Charger 19 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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 developing Li-Ion/Polymer battery chargers for portable devices and accessories, power tools, and more
On-board modules	nPM1100 - integrated power management IC from Nordic Semiconductor
Key Features	Linear-mode Li-Ion/Li-Poly charger, selectable charging current, high efficiency, auto USB detection, battery thermal protection, step-down buck regulator, pin-selectable output voltage, and more
Interface	Analog,GPIO
ClickID	Yes
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

[ClickID](#)

Downloads

[Charger 19 click example on Libstock](#)

[Charger 19 click 2D and 3D files](#)

[nPM1100 datasheet](#)

[Charger 19 click schematic](#)

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