

Current Limit 9 Click



PID: MIKROE-5937

Current Limit 9 Click is a compact add-on board representing a current-limiting solution for your application. This board features the NPS4053, a load switch with a precision adjustable current limit from Nexperia. It is a 5.5V, 55mΩ load switch that allows precise adjustment of the current limit in a range of 110mA up to 2.5A while preserving the constant current during the current limiting. This Click board™ makes the perfect solution for the development of USB ports/hubs, portable devices, current limit circuits, optical socket protections, and more.

Current Limit 9 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	Power Switch
Applications	Can be used for the development of USB ports/hubs, portable devices, current limit circuits, optical socket protections, and more
On-board modules	NPS4053 - a load switch with a precision adjustable current limit from Nexperia
Key Features	External or internal input operating voltage, maximum continuous current of 2A, adjustable current limit, ILIM pin protection, constant current during current limit, active reverse voltage protection, flag interrupt pin, built-in soft start, ESD protection, and more
Interface	I2C
ClickID	Yes
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[MAX5419 datasheet](#)

[Current Limit 9 click example on Libstock](#)

[NPS4053 datasheet](#)

[Current Limit 9 click 2D and 3D files](#)

[Current Limit 9 click schematic](#)

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