

Current Limit 6 Click



PID: MIKROE-4915

Current Limit 6 Click is a compact add-on board representing a current-limiting solution. This board features the [MAX17608](#), adjustable overvoltage, and overcurrent protection device from [Analog Devices](#). This Click board™ is ideal for protecting systems with the flexible input overvoltage protection range from 4.5V to 60V, and the adjustable input undervoltage protection range is 4.5V to 59V. Also, the maximum current limit is 1A and can be programmed through a digital potentiometer [MAX5401](#). When the device current reaches the programmed threshold, the device prevents further current increases by modulating the FET resistance. This Click board™ is suitable for applications in portable equipment, process instrumentation, and condition monitoring, or with power supplies, protecting them in a short circuit or other overload conditions.

Current Limit 6 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	Power Switch
Applications	Can be used for applications in portable equipment, process instrumentation, and condition monitoring, or with power supplies, protecting them in a short circuit or other overload conditions
On-board modules	MAX17608 - current-limiting device with an adjustable overvoltage and overcurrent protection feature from Maxim Integrated, now part of Analog Devices
Key Features	OVLO/UVLO and reverse voltage protection, programmable current limiting up to 1A, wide input-supply range up to 60V, thermal overload protection, operational and fault signals indicators, and more
Interface	GPIO,SPI
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Current Limit 6 click 2D and 3D files](#)

[MAX5401 datasheet](#)

[MAX17608 datasheet](#)

[Current Limit 6 click example on Libstock](#)

[Current Limit 6 click schematic](#)

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