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Current Limit 7 Click

PID: MIKROE-4972

Current Limit 7 Click is a compact add-on board representing a current-limiting solution. This board features the MAX14575A, an adjustable current-limit switch from Analog Devices. This Click board™ features internal current limiting to prevent damage to host devices due to faulty load conditions, has a low 32mΩ on-resistance, and operates from a 2.3V to 5.5V input voltage range. Also, the current limit is adjustable from 250mA to 2.5A programmed through AD5272 digital rheostat and set via onboard range switch. This Click board™ is suitable for applications in portable equipment and condition monitoring or power supplies, protecting them in short circuits or other overload conditions.

Current Limit 7 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.

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Specifications

Type	Power Switch
Applications	Can be used for applications in portable equipment and condition monitoring or power supplies, protecting them in short circuits or other overload conditions
On-board modules	MAX14575A - programmable current-limit switch featuring internal current limiting to prevent damage to host devices due to faulty load conditions from Analog Devices
Key Features	Integrated protection features, programmable current limiting up to 2.5A, operational and fault indicator, and more
Interface	GPIO,I2C
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 7 click example on Libstock

MAX14575A datasheet

Current Limit 7 click 2D and 3D files

Current Limit 7 click schematic