

I2C Isolator 4 Click



PID: MIKROE-4675

I2C Isolator 4 Click is a compact add-on board that provides fully isolated bidirectional communication. This board features the [MAX14937](#), a two-channel, 5kVRMS I2C digital isolator from [Analog Devices](#). The MAX14937 provides two bidirectional, open-drain channels for applications that require data to be transmitted in both directions on the same line. It supports data rates from DC up to 1.7MHz and can be used in isolated I2C busses with or without clock stretching. This Click board™ is suitable for transferring digital signals between circuits with different power domains at ambient temperatures.

I2C Isolator 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	I2C, Isolators
Applications	Can be used for transferring digital signals between circuits with different power domains
On-board modules	MAX14937 - two-channel I2C digital isolator from Analog Devices
Key Features	Robust galvanic isolation of digital signals, withstands 5kVRMS for 60s, low power consumption, supports I2C clock stretching, glitch-free operation, excellent reliability, long operational life, and more
Interface	I2C
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™](#)

Downloads

[MAX14937 datasheet](#)
[I2C Isolator 4 click schematic](#)
[I2C Isolator 4 click 2D and 3D files](#)
[I2C Isolator 4 click example on Libstock](#)

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