

I2C Isolator 7 Click



PID: MIKROE-5943

I2C Isolator 7 Click is a compact add-on board that offers completely isolated bidirectional communication. This board features the ADuM1252, an ultra-low power, bidirectional I2C isolator from Analog Devices. It can isolate I2C bidirectional data transfer of up to 2MHz SCL and bidirectional SCL for advanced bus topologies, and it supports clock stretching and multiple controllers across the isolation barrier. It also features the enhanced hot-swappable side 2 IO. This Click board™ makes the perfect solution for the development of applications based on transferring digital signals between circuits with different power domains at ambient temperatures.

I2C Isolator 7 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	I2C, Isolators
Applications	Can be used for the development of applications based on transferring digital signals between circuits with different power domains at ambient temperatures
On-board modules	ADuM1252 - ultra-low power, bidirectional I2C isolator from Analog Devices
Key Features	Two bidirectional open-drain channels for applications such as I2C, wide independent supply range, especially for side 2, enhanced hot-swappable side 2 IO, strong current sinking, robust galvanic isolation of digital signals, ultra-low power consumption, and more
Interface	I2C
ClickID	Yes
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™](#)
[ClickID](#)

Downloads

[I2C Isolator 7 click 2D and 3D files](#)
[I2C Isolator 7 click schematic](#)
[I2C Isolator 7 click example on Libstock](#)
[ADuM1252 datasheet](#)

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).