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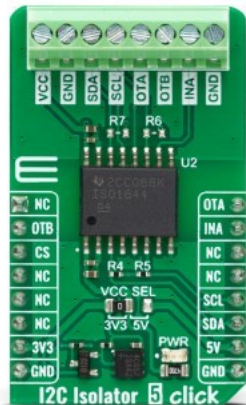www.mikroe.com

I2C Isolator 5 Click

PID: MIKROE-5725

I2C Isolator 5 Click is a compact add-on board that offers completely isolated bidirectional communication. This board features ISO1644, a hot-swappable bidirectional I2C isolator with enhanced EMC and GPIOs from Texas Instruments. The ISO1644 provides two bidirectional channels, supporting a completely isolated I2C interface that eliminates the need for splitting I2C signals into separate transmit and receive signals for use with standalone optocouplers. It supports data rates from DC up to 1.7MHz and has a hot swap circuitry to prevent data glitches. This Click board™ makes the perfect solution for transferring digital signals between circuits with different power domains at ambient temperatures.

I2C Isolator 5 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	I2C,Isolators
Applications	Can be used for transferring digital signals between circuits with different power domains at ambient temperatures
On-board modules	ISO1644 - a hot-swappable bidirectional I2C isolator with enhanced EMC and GPIOs from Texas Instruments
Key Features	Robust galvanic isolation of digital signals withstands 5kVRMS, low power consumption, supports four I2C speeds, three additional GPIO lines ideal for isolation and glitch-free operation, excellent reliability, long operational life, and more
Interface	GPIO,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

[I2C Isolator 5 click example on Libstock](#)

[I2C Isolator 5 click 2D and 3D files](#)

[ISO1644 datasheet](#)

[I2C Isolator 5 click schematic](#)