I2C MUX 4 Click

PID: MIKROE-4240

I2C MUX 4 Click is a compact add-on board that contains a dual bidirectional translating switch dedicated for applications with I2C slave address conflicts. This board features the TCA9543APWR, a low voltage 2-channel I2C bus switch with interrupt logic from Texas Instruments. The master SCL/SDA signals are directed to two downstream pairs, or channels, where either individual SCL/SDA channel or both channels can be selected by setting the programmable control register. It has two interrupts and a Reset input which allows the TCA9543A to recover from a situation where one of the downstream I2C buses is stuck in a low state. This Click board™ is suitable to work with I2C interfaces for applications such as fault isolation, address conflict, level translation, or broadcast communication.

I2C MUX 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.

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Specifications

Type	I2C
Applications	Can be used with I2C interfaces for applications such as fault isolation, address conflict, level translation, or broadcast communication.
On-board modules	I2C MUX 4 Click is based on the TCA9543APWR, a 2-channel, bidirectional translating I2C switch from Texas Instruments.
Key Features	1-of-2 bidirectional translating switches, low Stand-By current, support hot insertion, deselected channels during Power-Up, and more.
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

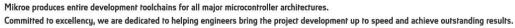mikroSDK

Click board™ Catalog

Click boards™

Downloads

I2C MUX 4 click 2D and 3D files

TCA9543A datasheet

AP7331 datasheet

I2C MUX 4 click example on Libstock

I2C MUX 4 click schematic

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