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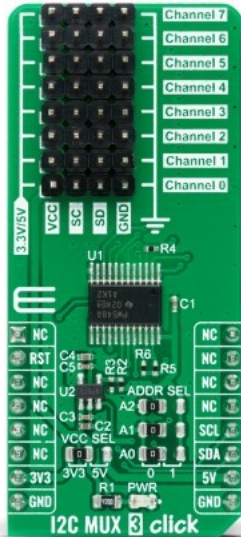www.mikroe.com

I2C MUX 3 Click

PID: MIKROE-4262

I2C MUX 3 Click is a compact add-on board that contains eight bidirectional translating switches dedicated for applications with I2C slave address conflicts. This board features the TCA9548APWR, a low voltage 8-channel I2C bus switch with an active-low reset input from Texas Instruments. It possesses three programmable address pins that allow up to eight TCA9548APWR devices, supports hot insertion, has a low Stand-by current, and no glitch during Power-Up with all switch channels deselected. This Click board™ is suitable to work with I2C interfaces for applications such as fault isolation, address conflict, level translation, or broadcast communication (servers, routers...).

I2C MUX 3 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.

Specifications

Type	I2C
Applications	Can be used with I2C interfaces for applications such as fault isolation, address conflict, level translation, or broadcast communication (servers, routers...).
On-board modules	I2C MUX 3 Click is based on the TCA9548APWR, a low voltage eight bidirectional translating switches with an active-low reset input controlled through the I2C serial interface from Texas Instruments.
Key Features	1-to-8 bidirectional translating switches, low Stand-By current, support hot insertion, deselected channels during Power-Up, and more.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

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

[TCA9548APWR datasheet](#)

[I2C MUX 3 click example on Libstock](#)

[I2C MUX 3 click schematic](#)

[AP7331 datasheet](#)