

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.

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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
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](#)

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