

I2C MUX 7 Click



PID: MIKROE-5069

I2C MUX 7 Click is a compact add-on board representing a bidirectional selector dedicated to applications with I2C slave address conflicts. This board features the PI4MSD5V9547, an octal bidirectional translating multiplexer controlled by the I2C-bus from Texas Instruments. Only one SCL/SDA channel can be selected at a time, determined by the contents of the programmable control register. The board powers up with Channel 0 connected, allowing immediate communication between the Master and downstream devices on that channel. The PI4MSD5V9547 also supports hot insertion, has a low Stand-by current, and has no glitch during the Power-Up sequence. This Click board™ is suitable for a wide range of applications from industrial to medical, communications, and automotive systems.

I2C MUX 7 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.

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
Applications	Can be used for a wide range of applications from industrial to medical, communications, and automotive systems
On-board modules	PI4MSD5V9547 - octal bidirectional translating multiplexer controlled by the I2C-bus from Texas Instruments
Key Features	Low power consumption, reset feature, channel selection via I2C bus, Power-Up with one channel ON, no glitch on Power-On, support hot insertion, 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 7 click example on Libstock](#)

[PI4MSD5V9547 datasheet](#)

[AP2112 datasheet](#)

[I2C MUX 7 click 2D and 3D files](#)

[I2C MUX 7 click schematic](#)

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