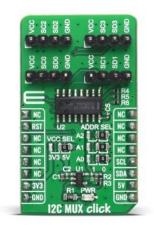
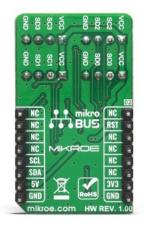


MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918 Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com www.mikroe.com







#### PID: MIKROE-4048

**I2C MUX Click** is an quad bidirectional translating I2C and SMBus switch with reset function, intended for applications with I2C slave address conflicts (multiple, identical temp sensors). It features a quad bidirectional translating switch controlled via the I2C bus, labeled as <u>TCA9546A</u> from <u>Texas Instruments</u>. Click has three address jumpers, allowing up to eight TCA9546A devices on the same bus. I2C MUX click allows voltage translation between 1.8V, 2.5V, 3.3V, and 5V buses, and also supports hot insertion. The TCA9546A can work on a 0 - 400 kHz clock frequency range and is ideal for communication with numerous devices that share the identical slave address on the same bus.

I2C MUX Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board<sup>™</sup> comes as a fully tested product, ready to be used on a system equipped with the mikroBUS<sup>™</sup> 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).



Time-saving embedded tools

MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918 Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com www.mikroe.com

# Specifications

Туре	12C
Applications	Servers, Routers (telecom switching equipment), Factory automation, Products with I2C slave address conflicts (multiple, identical temp sensors)
On-board modules	I2C MUX Click uses the TCA9546A IC, a quad bidirectional translating switch, from Texas Instruments
Key Features	Voltage translation between 1.8V, 2.5V, 3.3V, and 5V buses, hot insertion, 0 - 400 kHz clock frequency range
Interface	12C
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

<u>mikroBUS</u>™

<u>mikroSDK</u>

Click board<sup>™</sup> Catalog

Click boards™

### **Downloads**

I2C MUX click example on Libstock

I2C MUX click 2D and 3D files

TCA9546A datasheet

I2C MUX click schematic

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).

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Other Development Tools category:

Click to view products by MikroElektronika manufacturer:

Other Similar products are found below :

BK0004 BK0012 MAX9684EVKIT# EVAL01-HMC749LC3C 410-320 TPD6F002-Q1EVM TS9002DB 118777-HMC722LC3C 118777-HMC723LC3C DC1765A-A 125614-HMC851LC3C DC2062A-A LMH6321MR-EVAL/NOPB EVAL01-HMC747LC3C 4537 DK-M3F-1.8-TRK-1.5-S DK-M3-FS-1.8-1.5-M12/16 DK-M3-LS-1.8-6 ADALP2000 EVAL-CN0202-SDPZ EVAL-CN0203-SDPZ EVAL-CN0204-SDPZ EVAL-CN0209-SDPZ EVAL-CN0229-SDPZ EVAL-CN0251-SDPZ EVAL-CN0272-SDPZ EVAL-CN0301-SDPZ EVAL-CN0355-PMDZ EVAL-CN0364-SDPZ EVAL-SDP-CB1Z MAX4951AEEVKIT+ MAXREFDES60# BK0010 EFIELDEV PD70224EVB MIKROE-3319 MIKROE-3357 MIKROE-4048 MIKROE-1370 MIKROE-1899 MIKROE-1901 MIKROE-1910 MIKROE-1917 MIKROE-1993 MIKROE-3116 MIKROE-957 BB-GEVK NCS2200AGEVB 27115 64019