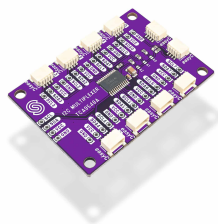


PRODUCT DATASHEET



I2C Multiplexer TCA9548A Breakout

333077

Connect up to 64 I2C devices with identical addresses using the TCA9548A multiplexer, simplifying complex electronics projects.

Full product documentation, files and tutorials: solde.red/333077

CORE ATTRIBUTES

SKU 333077

WEIGHT 13 g

BARCODE 732388670109

DESCRIPTION

Ever needed to connect two peripherals with the same I2C address to the same microcontroller? This module allows you to seamlessly connect up to eight I2C devices with identical addresses.. Using the TCA9548A IC, our breakout board provides flexibility, enabling control of up to 64 devices on the same I2C bus. This means you can integrate numerous sensors, such as 64 BME680s (because why not?), all managed by just one microcontroller, simplifying complex setups and expanding your possibilities.

Beyond its core capabilities, the TCA9548A breakout is engineered for compatibility and ease of use, especially within the Qwiic ecosystem. This adapter is convenient for makers and engineers looking for rapid prototyping solutions without the intricate wiring. Its broad voltage compatibility (1.65V - 5.5V) ensures integration with a wide range of microcontrollers, including Arduino and NULA boards, making it an addition to any electronics workbench. With its compact dimensions and clear pinout, integrating this multiplexer into your existing or new projects is easy and efficient.

This I2C multiplexer is designed and manufactured in the EU, guaranteeing great performance and durability. We offer documentation, quick start guides and dedicated technical support to ensure your success, including our open-source community. Choose our TCA9548A breakout for a high-performance solution that empowers your innovative projects with I2C communication capabilities.

TECHNICAL DETAILS

- **Based on:** TCA9548A
- **Voltage:** 1.65V - 5.5V
- **Default I2C address:** 0x70, adjustable via 3 on-board jumpers
- **Dimensions:** 54 × 38 mm / 2.1 × 1.5 inch

SPECIFICATIONS

INTERFACE	I2C
QWIIC COMPATIBLE	Yes
I2C ADDRESS DEFAULT	0x70
I2C ADDRESS CHANGEABLE	Yes
BREADBOARD COMPATIBLE	Yes
IC PART NUMBER	TCA9548A
SUPPLY VOLTAGE MIN V	1.65
SUPPLY VOLTAGE MAX V	5.5
LOGIC LEVEL	3V3 Or 5V

LINKS

Arduino Library	https://github.com/SolderedElectronics/Soldered-TCA9548A-I2C-Multiplexer-Arduino-Library
Open Source Hardware Files	https://github.com/SolderedElectronics/I2C-multiplexer-TCA9548A-breakout-hardware-design
Full Documentation	https://docs.soldered.com/tca9548a/overview/
Arduino: Get Started	https://docs.soldered.com/tca9548a/arduino/getting-started/
Hardware Details	https://docs.soldered.com/tca9548a/hardware/
Arduino Library Documentation	https://docs.soldered.com/joystick/arduino/examples/
Pinout	https://cms.soldered.com/products/333077/media/333077_pinout-png_3296c3.svg

GALLERY

