

Multi Stepper Click - TB67S209



PID: MIKROE-5042

Multi Stepper Click is a compact add-on board that contains a bipolar stepper motor driver. This board features the TB67S209FTG, CLOCK-in controlled bipolar stepping motor driver from Toshiba Semiconductor. It supports a PWM constant-current control drive, selectable mixed decay mode, and allows from full-step up to 1/32 steps resolution for less motor noise and smoother control. It has a wide operating voltage range of 10V to 47V with an output current capacity of 3A maximum in addition to several built-in error detection circuits. This Click board™ makes the perfect solution for stepping motors in various applications such as office automation, commercial, and industrial equipment.

Multi Stepper 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 | Stepper |
| Applications | Can be used for stepping motors in various applications such as office automation, commercial, and industrial equipment |
| On-board modules | TB67S209FTG - CLOCK-in controlled bipolar stepping motor driver from Toshiba Semiconductor |
| Key Features | Low power consumption, capable of controlling 1 bipolar stepping motor, from full-step up to 1/32 steps resolution, built-in clock decoder, selectable mixed decay mode, integrated error detection circuits, and more |
| Interface | GPIO,I2C |
| ClickID | No |
| Compatibility | mikroBUS™ |
| Click board size | L (57.15 x 25.4 mm) |
| Input Voltage | 3.3V or 5V,External |
| Driving Signal | Clock |
| Voltage Max | 50V |
| Current Max | 4A |
| Micro Step | 32 |
| RDSOn | 0.49 |
| ADMD | No |
| MO | Yes |
| Error Signal (LO) | Yes |
| ULVO | Yes |

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Multi Stepper Click - TB67S209 schematic](#)

[TB67S209FTG datasheet](#)

[PCA9555A datasheet](#)

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[Multi Stepper Click - TB67S209 2D and 3D files](#)

[Multi Stepper Click - TB67S209 example on Libstock](#)

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