

## Stepper 9 Click



PID: MIKROE-5263

Stepper 9 Click is a compact add-on board that contains a bipolar stepper motor driver. This board features the TB67S581FNG, a two-phase bipolar stepping motor driver from Toshiba Semiconductor. Fabricated with the BiCD process, it supports a PWM constant-current control drive and steps resolution from full to 1/32 for less motor noise and smoother control. It has a wide operating voltage range of 8.2V to 44V with a maximum output current capacity of 2A, decay modes selection function, protection, and several anomaly detection indicators. This Click board™ makes the perfect solution for small stepping motors in various applications such as consumer electronics and industrial equipment.

Stepper 9 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 small stepping motors in various applications such as consumer electronics and industrial equipment
On-board modules	TB67S581FNG - two-phase bipolar stepping motor driver from Toshiba Semiconductor
Key Features	Low power consumption, capable of controlling one bipolar stepping motor, PWM controlled constant-current drive, operational in full, half, quarter, 1/8, 1/16, and 1/32 step resolutions, selectable decay mode, anomaly detection functions, and more
Interface	GPIO,I2C
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

[Stepper 9 click example on Libstock](#)

[MCP1501 datasheet](#)

[TB67S581FNG datasheet](#)

[PCA9538A datasheet](#)

[Stepper 9 click 2D and 3D files](#)

[Stepper 9 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).