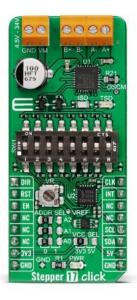


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Stepper 17 Click





PID: MIKROE-4547

Stepper 17 Click is a compact add-on board that contains a bipolar stepper motor driver. This board features the TB67S539FTG, a two-phase bipolar stepping motor driver using a PWM chopper from Toshiba Semiconductor. It supports a PWM constant-current control drive without a current sense resistor for motor-current detection and full-step to 1/32 steps resolution for less motor noise and smoother control. It has a wide operating voltage range of 4.5V to 34V with an output current capacity of 1.8A maximum in addition to several anomaly detection indicators. This Click board $^{\text{TM}}$ makes the perfect solution for small stepping motors in a wide range of applications such as office automation, commercial and industrial equipment.

Stepper 17 Click is supported by a $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $^{\mathsf{TM}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{TM}}$ 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.







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Specifications

Туре	Stepper
Applications	Can be used for small stepping motors in a wide range of applications such as office automation, commercial and industrial equipment
On-board modules	TB67S539FTG - two-phase bipolar stepping motor driver with resistorless current sensing from Toshiba Semiconductor
Key Features	Low power consumption, capable of controlling bipolar stepping motor, PWM controlled constant-current drive, operational in full, half, quarter, 1/8, 1/16, and 1/32 step resolutions, built-in a mixed decay mode, anomaly detection functions, 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

Resources

mikroBUS™

<u>mikroSDK</u>

Click board™ Catalog

Click Boards™

Downloads

MCP1501 datasheet

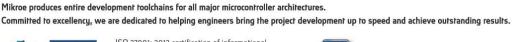
TB67S539FTG datasheet

PCA9555A datasheet

Stepper 17 click schematic

Stepper 17 click 2D and 3D files

Stepper 17 click example on Libstock







health and safety management system.