

Stepper 11 Click



PID: MIKROE-4578

Stepper 11 Click is a compact add-on board that contains a bipolar stepper motor driver. This board features the [TB9120AFTG](#), a two-phase bipolar stepping motor driver with a clock input interface and a PWM constant-current control system from [Toshiba Semiconductor](#). It supports from full-step to 1/32 steps for less motor noise and smoother control, while the PWM constant-current control allows stable output waveforms in mixed decay mode. It comes with a stall detection feature, as well as several anomaly detection functions. This Click board™ makes the perfect solution to be used for a small stepping motors in a wide range of automotive applications.

Stepper 11 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 a small stepping motors in a wide range of automotive applications
On-board modules	TB9120AFTG - constant-current 2-phase stepping motor driver for automotive applications from Toshiba Semiconductor
Key Features	PWM constant-current control, built-in a mixed decay mode, selectable excitation mode, anomaly detection functions, stall detection function, and many 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™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[MCP1804 datasheet](#)

[PCA9538A datasheet](#)

[TB9120AFTG datasheet](#)

[Stepper 11 click schematic](#)

[Stepper 11 click 2D and 3D files](#)

[Stepper 11 click example on Libstock](#)

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).