

Stepper 18 Click



PID: MIKROE-4689

Stepper 18 Click is a compact add-on board that contains a microstepping stepper motor driver. This board features the DRV8426, a stepper motor driver for industrial and consumer applications from Texas Instruments. It is fully integrated with two N-channel power MOSFET H-bridge drivers, a microstepping indexer, and integrated current sensing capable of driving up to 1.5A full-scale output current. A simple STEP/DIR interface allows managing the direction and step rate of the stepper motor up to 1/256 microstepping. This Click board™ is suitable for driving motors in any application that demands a precise and safe step motor driver.

Stepper 18 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 driving motors in any application that demands a precise and safe step motor driver
On-board modules	DRV8426 - an integrated motor-driver solution for bipolar stepper motors with integrated current sense, 1/256 microstepping, STEP/DIR interface, and smart-tune technology Texas Instruments
Key Features	Microstepping stepper motor driver (STEP/DIR interface), integrated current sense functionality, smart-tune decay technology, protection features, and more.
Interface	GPIO,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,External

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Stepper 18 click 2D and 3D files](#)

[MCP4726 datasheet](#)

[DRV8426 datasheet](#)

[Stepper 18 click schematic](#)

[Stepper 18 click example on Libstock](#)

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