

Silent Step 2 Click



PID: MIKROE-5934

Silent Step 2 Click is a compact add-on board that allows extremely smooth and silent operation of the connected motor. This board features the TMC2130, a high-performance two-phase stepper motor driver from Analog Devices. The driver uses an external motor power supply of 4.75 up to 43V to power a 2-phase stepper motor up to 2A coil current (2.5A peak). In addition, its sophisticated StealthChop chopper ensures noiseless operation combined with maximum efficiency and the best motor torque. This Click board™ makes the perfect solution for the development of a direct substitution for many complex motion controllers for various industrial purposes.

Silent Step 2 Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the mikroBUS™ standard. It comes with the mikroSDK open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this Click board™ apart is the groundbreaking ClickID feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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 the development of a direct substitution for many complex motion controllers for various industrial purposes
On-board modules	TMC2130 - high-performance two-phase stepper motor driver from Analog Devices
Key Features	2-phase stepper motor driver, high resolution per full step, wide input voltage range, passive braking and freewheeling mode, full protection and diagnostic, load-dependent speed control, highly dynamic motor control chopper, and more
Interface	GPIO,I2C,SPI
ClickID	Yes
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

[Silent Step 2 click example on Libstock](#)

[Silent Step 2 click 2D and 3D files](#)

[PCA9538A datasheet](#)

[Silent Step 2 click schematic](#)

[TMC2130 datasheet](#)

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