

Silent Step 4 Click



PID: MIKROE-5980

Silent Step 4 Click is a compact add-on board representing a completely integrated step motor driver solution. This board features the [TMC2240](#), a smart integrated stepper driver from [Analog Devices](#). The driver is based on a 256 micro-steps built-in indexer, two fully integrated H-Bridges, and non-dissipative integrated current sensing (ICS). The two H-Bridges can drive motors of up to 36V and 3A at max. This Click board™ makes the perfect solution for the development of textile industry machines, lab and factory automation, 3D printers, and more.

Silent Step 4 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 textile industry machines, lab and factory automation, 3D printers, and more
On-board modules	TMC2240 - smart integrated stepper driver from Analog Devices
Key Features	Two H-Bridges, fully integrated lossless current sensing, wide external voltage range, incremental encoder interface, high micro-step resolution, thermal shutdown, short protection, diagnostics, StallGuard2, StallGuard4, overvoltage protection, and more
Interface	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

[PCA9538A datasheet](#)

[TMC2240 datasheet](#)

[Silent Step 4 click 2D and 3D files](#)

[Silent Step 4 click schematic](#)

[Silent Step 4 click example on Libstock](#)

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