

STSPIN233 Click



PID: MIKROE-3546

STSPIN233 click is a complete solution for a 3-phase integrated motor driver, based on the STSPIN233, Low voltage 3-phase integrated motor driver. It is optimized for battery-powered, low voltage motor driving applications, featuring the lowest standby current available on the market (max 80 nA). The STSPIN233 is a high-efficiency motor driver, featuring low ON resistance MOSFETs as the output stage, and extremely low leakage current (max 1 μ A). Its output stage implements the PWM current control with fixed OFF time, along with a full set of protection features. The device can be used with the step motor voltage ranging from 1.8V to 10V, and current up to 1.3A per bridge.

STSPIN233 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 | Brushed |
| Applications | STSPIN233 click is perfectly suited for rapid development of various battery-powered stepper motor applications, including toys, printers, mechatronics, drones, robotics-related applications, etc. |
| On-board modules | STSPIN233, a low voltage DC brushed motor driver by STMicroelectronics. |
| Key Features | The main IC features a set of protection features, allowing reliable performance. It is optimized for a low-power and battery-operated applications, featuring very low ON resistance, and lowest standby current on the market. |
| Interface | GPIO,UART |
| Compatibility | mikroBUS |
| Click board size | L (57.15 x 25.4 mm) |
| Input Voltage | 3.3V,5V |

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[STSPIN233 click 2D and 3D files](#)

[STSPIN233 datasheet](#)

[STSPIN233 click example on Libstock](#)

[STSPIN233 click schematic](#)

[STSPIN233 Click firmware guidelines](#)

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