

H-Bridge 12 Click



PID: MIKROE-5690

H Bridge 12 Click is a compact add-on board with an H-Bridge gate driver, also known as a full-bridge pre-driver. This board features the DRV8823, a 4-bridge serial interface motor driver from [Texas Instruments](https://www.ti.com). Each of the four H-Bridge driver blocks uses N-channel power MOSFETs configured as H-Bridge to drive the motor windings. All four blocks provide programmable current with up to 1.5A current per channel. This Click board™ makes the perfect solution for the development of printers, scanners, and other office automation applications. It could also be used for developing robots, gaming machines, factory automation, and anywhere where independent control of two different motors is required.

H Bridge 12 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	Can be used for the development of printers, scanners, office automation, factory automation, and more
On-board modules	DRV8823 - a 4-bridge serial interface motor driver from Texas Instruments
Key Features	Four half-bridges for broad operating supply voltage range, up to 1.5A of current per winding, protection features, additional current-set threshold potentiometers, low power consumption, internal charge pump for gate drivers, and more
Interface	SPI
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[H-Bridge 12 click example on Libstock](#)

[DRV8823 datasheet](#)

[H-Bridge 12 click 2D and 3D files](#)

[H-Bridge 12 click schematic](#)

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