

H-Bridge 13 Click



PID: MIKROE-5795

H-Bridge 13 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 [DRV8411A](#), a dual H-bridge motor driver with current regulations from [Texas Instruments](#). It can drive one bipolar stepper motor, one or two brushed DC motors, solenoids, and other inductive loads. This gate driver has a high output current capability of 4A at its peak, and the Tripler charge pump allows the device to operate at a wide power supply voltage range of 1.65 up to 11V. This Click board™ makes the perfect solution for the development of battery-powered toys, POS printers, video security cameras, office automation machines, robotics, electronic smart locks, and more.

H-Bridge 13 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 battery-powered toys, POS printers, video security cameras, office automation machines, robotics, electronic smart locks, and more
On-board modules	DRV8411A - dual H-Bridge motor driver with current regulations from Texas Instruments
Key Features	Two half bridges up to 11V, high output current up to 4A peak, high performance, switches for protection of the host MCU, PWM control interface, low-power sleep mode, VM undervoltage lockout, auto-recovery overcurrent protection, thermal shutdown, fault indication, and more
Interface	I2C,PWM
ClickID	Yes
Compatibility	mikroBUS™
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click boards™](#)
[ClickID](#)

Downloads

[H-Bridge 13 click example on Libstock](#)
[TS5A23157 datasheet](#)
[PCA9538A datasheet](#)
[74LVC1G3157 datasheet](#)
[DRV8411A datasheet](#)
[H-Bridge 13 click 2D and 3D files](#)
[H-Bridge 13 click schematic](#)

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Time-saving embedded tools

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