

H-Bridge 14 Click



PID: MIKROE-5916

H-Bridge 14 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 [DRV8873](#), an automotive H-Bridge motor driver from [Texas Instruments](#). The DRV8873 is an N-channel H-Bridge motor driver that can drive one bidirectional brushed DC motor, two unidirectional brushed DC motors, solenoids, or other resistive inductive loads. The motor driver operates from a single power supply and supports a wide input supply range from 4.5V to 38V. This Click board™ makes the perfect solution for the development of electronic throttle control, exhaust gas recirculation, side-view mirror tilt, e-shifter, air-flow diverter valve control, and more.

H-Bridge 14 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	Brushed
Applications	Can be used for electronic throttle control, exhaust gas recirculation, side-view mirror tilt, e-shifter, air-flow diverter valve control, and more
On-board modules	DRV8873 - automotive H-Bridge motor driver from Texas Instruments
Key Features	N-channel H-Bridge motor driver can drive one bidirectional brushed DC motor, two unidirectional brushed DC motors, solenoids, or other resistive and inductive loads, wide operating range, integrated current sensing, proportional current output, configurable control interface, thermal shutdown, overcurrent protection, open load detection, UVLO, CPUV, 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

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

[ClickID](#)

Downloads

[H-Bridge 14 click example on Libstock](#)

[H-Bridge 14 click schematic](#)

[PCA9538A datasheet](#)

[DRV8873 datasheet](#)

[H-Bridge 14 click 2D and 3D files](#)

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