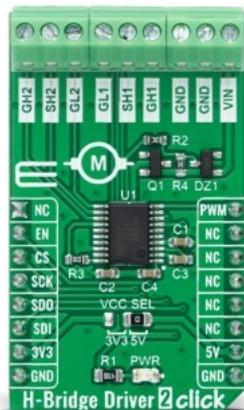


H-Bridge Driver 2 Click



PID: MIKROE-4931

H-Bridge Driver 2 Click is a compact add-on board that contains an H-bridge gate driver, also known as a full-bridge pre-driver. This board features the NCV7535, a monolithic H-bridge pre-driver for a DC motor with an enhanced feature set, useful in automotive systems from ON Semiconductor. The gate driver channels are independently controlled by a 24-bit SPI interface, allowing this Click board™ to be optionally configured in a single or dual H-bridge mode. It has a wide operating voltage range from 6V to 18V with built-in protection features against short-circuit, under/over voltage, overcurrent, and overtemperature conditions. This Click board™ is suitable to drive external MOSFETs, thus providing control of a DC-motor.

H-Bridge Driver 2 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 to drive external MOSFETs, thus providing control of a DC-motor
On-board modules	NCV7535 - H-bridge gate driver (or full-bridge pre-driver) with independent high and low-side driver channels from ON Semiconductor
Key Features	Active and standby operating modes, active/passive free-wheeling, single or dual H-bridge mode, 24-bit SPI interface, UVLO and OVLO, protection features, PWM, and more
Interface	PWM,SPI
ClickID	No
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™](#)

Downloads

[H-Bridge Driver 2 click example on Libstock](#)

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

[NCV7535 datasheet](#)

[H-Bridge Driver 2 click schematic](#)

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