

## H-Bridge 6 Click



PID: MIKROE-4289

H-Bridge 6 Click is a compact add-on board that contains a DC motor driver for automotive applications. This board features the VNHD7008AY, an H-bridge motor driver for automotive DC motor driving from STMicroelectronics. The VNHD7008AY, an I2C configurable motor driver, features an undervoltage shutdown, load current limitation, overload active power limitation, overtemperature shutdown, and more. This Click board™ also contains the PCA9538A, a low-voltage 8-bit GPIO expander for communication between MCU and motor driver. H-Bridge 6 Click is suitable for automotive motor control applications like automotive brushed DC motor, or in applications such as body control module (BCM), car-seat control, and others.

H-Bridge 6 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 automotive motor control applications like automotive brushed DC motor, or in applications such as body control module (BCM), car-seat control, and others.
On-board modules	H-Bridge 6 Click is based on the VNHD7008AY, a DC motor driver for automotive applications that integrates a full protected dual high-side driver and protection for the external power MOSFETs from STMicroelectronics.
Key Features	Fully protected HSD with MultiSense feedback, undervoltage shutdown, overvoltage clamp, load current limitation, overload active power limitation, overtemperature shutdown, cross current protection, and more.
Interface	I2C,PWM
ClickID	No
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 6 click 2D and 3D files](#)

[VNHD7008AY datasheet](#)

[PCA9538A datasheet](#)

[H-Bridge 6 click example on Libstock](#)

[H-Bridge 6 click schematic](#)

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