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H-Bridge 9 Click





PID: MIKROE-4821

H-Bridge 9 Click is a compact add-on board that contains six MOSFET half-bridge outputs. This board features the <u>L99UDL01</u>, a six-channel half-bridge driver monolithic integrated circuit that is PWM configurable and current regulated from <u>STMicroelectronics</u>. It achieves excellent load and line regulation over a wide input supply range up to 18V. These six integrated MOSFET H-bridges are commanded entirely by the SPI interface using duration and current level commands. Complete protection features include open load, short to battery and ground, and load integrity via 10-bit current feedback. This Click board™ is suitable as a multiple brushed DC motor driver for various applications.

H-Bridge 9 Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board $^{\text{m}}$ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS $^{\text{m}}$ 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.









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Specifications

Туре	Brushed
Applications	Can be used as a multiple brushed DC motor driver for various applications
On-board modules	L99UDL01 - multiple half-bridge driver that is PWM configurable and current regulated from STMicroelectronics
Key Features	Six integrated fully protected half bridges, several operational modes, low power consumption, high level of programming, high level diagnostics, protection features, and more
Interface	SPI
ClickID	No
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

<u>mikroBUS™</u>

mikroSDK

Click board™ Catalog

Click boards™

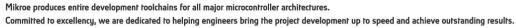
Downloads

H-Bridge 9 click example on Libstock

H-Bridge 9 click 2D and 3D files

L99UDL01 datasheet

H-Bridge 9 click schematic







health and safety management system.