

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 [L99UDL01](#), a six-channel half-bridge driver monolithic integrated circuit that is PWM configurable and current regulated from [STMicroelectronics](#). 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™ 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 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

[mikroBUS™](#)

[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](#)

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