

## DC Motor 21 Click



PID: MIKROE-4877

**DC Motor 21 Click** is a compact add-on board that contains a brushed DC motor driver. This board features the A3910, a DC motor driver designed for low voltage power applications from Allegro Microsystems. It is controlled via several GPIO pins and has a wide operating voltage range with an output current capacity of 500mA. In addition to the possibility to be used in the full-bridge configuration to drive a single bidirectional DC motor, it can also be used as a dual half-bridge to drive dual DC motors. Using an integrated MOS switch improves braking action for the motor, compared to implementation with a simple clamp diode. Besides, it also features built-in protection such as crossover current protection and thermal shutdown. This Click board™ is suitable for driving DC brushed motors and targeted at the consumer and industrial market with end applications to low voltage equipment.

DC Motor 21 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.

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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 driving DC brushed motors and targeted at the consumer and industrial market with end applications to low voltage equipment
On-board modules	A3910 - dual half-bridge motor driver designed for low voltage power applications from Allegro Microsystems
Key Features	Low power consumption, full- and half-bridge configuration, low rds, Standby mode with zero drain-current, crossover and thermal shutdown protection, and more
Interface	GPIO
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[DC Motor 21 click 2D and 3D files](#)

[A3910 datasheet](#)

[DC Motor 21 click schematic](#)

[DC Motor 21 click example on Libstock](#)

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