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## 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  $^{\text{m}}$  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  $\frac{\text{mikroSDK}}{\text{compliant library}}$ , which includes functions that simplify software development. This  $\frac{\text{Click board}^{TM}}{\text{comes}}$  comes as a fully tested product, ready to be used on a system equipped with the  $\frac{\text{mikroBUS}^{TM}}{\text{mikroBUS}^{TM}}$  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.





health and safety management system.



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## **Specifications**

Туре	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

<u>mikroBUS™</u>

**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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