

## DC Motor 6 Click



PID: MIKROE-4114

**DC Motor 6 Click** is a PWM chopper type brushed DC motor driver, labeled as TB67H451AFNG. This IC includes one channel of motor output block, using a wide range of supply voltages, while delivering reasonably high current to the connected DC motors. Low ON-resistance MOSFETs and a PWM control help the TB67H451AFNG exhibit lower heat generation thus efficient motor drive. Furthermore, the TB67H451AFNG has two inputs, IN1 and IN2, which allow for selection of the four operation modes; forward (clockwise), reverse (counter-clockwise), short brake, and stop modes.

DC Motor 6 Click board™ 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	Usable for various RC cars and boats, small to medium-sized robots, drones, and similar applications. as well as for driving motors in air or water pumps, air conditioners, ventilation systems, handheld tools, etc.
On-board modules	TB67H451AFNG
Key Features	DC Motor 6 click is a PWM chopper type brushed DC motor driver, labeled as TB67H451AFNG. This IC includes one channel of motor output block, using a wide range of supply voltages, while delivering reasonably high current to the connected DC motors.
Interface	GPIO
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	5V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

## Downloads

[DC Motor 6 click 2D and 3D files](#)

[DC Motor 6 click example on Libstock](#)

[TB67H451AFNG datasheet](#)

[DC Motor 6 click schematic](#)

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).