

# DC Motor 19 Click



PID: MIKROE-4883

**DC Motor 19 Click** is a compact add-on board that contains a brushed DC motor driver. This board features the [TC78H653FTG](#), a dual H-bridge driver for one or two DC brushed motors or one stepping motor, which incorporates DMOS with low ON resistance in output transistors from [Toshiba Semiconductor](#). The Forward/Reverse/Brake/Stop mode can be selected according to the state of its input control signals, while the motor operation and current mode can be chosen through onboard switches alongside control signals. It has a wide operating voltage range of 1.8V to 7.5V with an output current capacity of 4A (DC). Besides, it also features built-in protection against under-voltage, overcurrent, and overtemperature conditions. This Click board™ is suitable for driving DC brushed motors and stepping motors for low voltage equipment such as home electronic products and devices using a 5V USB power supply.

DC Motor 19 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 for driving DC brushed motors and stepping motors for low voltage equipment such as home electronic products and devices using a 5V USB power supply
On-board modules	TC78H653FTG - dual H-bridge driver for one or two DC brushed motors or one stepping motor from Toshiba Semiconductor
Key Features	Low power consumption, dual bridge driver, high drive capability, low voltage drive, low-on resistance, selectable motor operation, built-in Standby and protection features, and more
Interface	GPIO
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V, External

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[DC Motor 19 click example on Libstock](#)

[TC78H653FTG datasheet](#)

[DC Motor 19 click 2D and 3D files](#)

[DC Motor 19 click schematic](#)

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