

DC Motor 10 Click



PID: MIKROE-3879

DC Motor 10 Click is a brushed DC motor driver with the current limiting and current sensing. It is based on the TLE 6208-6 G, an Hex-Half-Bridge / Double Six-Driver IC, optimized for motor driving applications. It can be operated SPI communication interface, allowing to drive the connected motors in three different ways: it can be used as a free configurable as switch, half-bridge or H-bridge, offering an additional speed control and direction options. The TLE 6208-6 G also contains a set of protection features, offering a very high level of reliability. Besides driving capabilities, DC Motor 10 click can also sense current consumption at its output.

DC Motor 10 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	DC Motor 10 click is perfectly suited for rapid development of various DC motor driving applications, including home appliances, printers, industrial equipment, mechatronic applications, etc.
On-board modules	TLE 6208-6 G - a fully protected Hex-Half-Bridge-Driver designed specifically for automotive and industrial motion control applications, from Infineon Technologies AG
Key Features	Very low ON resistance of approximately 0.8Ω through each branch, build-in Over- and Undervoltage-Lockout, Over- Temperature-Protection and the very low quiescent current in stand-by mode
Interface	GPIO,SPI
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 10 click example on Libstock](#)

[TLE 6208-6 datasheet](#)

[DC Motor 10 click 2D and 3D files](#)

[DC Motor 10 click schematic](#)

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