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DC Motor 11 Click

PID: MIKROE-3649

DC Motor 11 Click is a brushed DC motor driver with the current limiting and current sensing. It is based on the DRV8830, an integrated H-Bridge driver IC, optimized for motor driving applications. It can be operated by two logic signals, allowing to drive the connected motor in two different ways: it can use fixed logic levels for the direction control, or it can be controlled by a PWM signal, offering an additional speed control option. The DRV8830 also contains a set of protection features, offering a very high level of reliability. Besides driving capabilities, DC Motor 11 click can also sense current consumption at its output.

DC Motor 11 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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Specifications

Type	Brushed
Applications	DC Motor 11click is perfectly suited for rapid development of various DC motor driving applications, including home appliances, printers, industrial equipment, mechatronic applications, etc.
On-board modules	DRV8830, Low-Voltage Motor Driver With Serial Interface
Key Features	The main IC features a set of protection features, allowing for reliable performance. It allows the motor current to be monitored at all times. It also features high efficiency, it can be operated within a wide voltage range.
Interface	Analog,GPIO
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™ Standard specification

LibStock: mikroSDK

Click board™ Catalog

Click boards™ Standard Page

Downloads

DC Motor 11 click example on Libstock

DC Motor 11 click 2D and 3D files

DRV8830 datasheet

DC Motor 11 click schematic