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DC Motor 17 Click

PID: MIKROE-4454

DC Motor 17 Click is a compact add-on board that contains a brushed DC motor driver. This board features the TC78H660FTG, a dual H Bridge driver for one or two brushed motors that incorporate a DMOS with low on-resistance in output transistors from Toshiba Semiconductor. This IC is a PWM controlled constant-current drive with supply voltages from 2.5V to 16V and 2A of output current. It features a sense-resistor less current control architecture and VCC regulator for the internal circuit. Also offers multi-error detect functions with error detection flag output function. This Click board™ is suitable for driving DC motors, controlling the direction of the rotation, as well as brake and regulate the motor current.

DC Motor 17 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	Can be used for driving DC motors, controlling the direction of the rotation, as well as brake and regulate the motor current.
On-board modules	DC Motor 17 Click is based on the TC78H660FTG, a dual H Bridge driver for one or two DC brushed motors that incorporates a DMOS with low on-resistance in output transistors from Toshiba Semiconductor.
Key Features	Built-in dual H Bridge, built-in sense resistor, multi error detect functions, error detection flag, selectable operating modes, and more.
Interface	GPIO,PWM
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V,5V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

TC78H660FTG datasheet

MAX6100 datasheet

DC Motor 17 click 2D and 3D files

DC Motor 17 click schematic

DC Motor 17 click example on Libstock