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DC Motor 18 Click

PID: MIKROE-4786

DC Motor 18 Click is a compact add-on board that contains a brushed DC motor driver. This board features the TB9051FTG, an automotive PWM-type single-channel H-Bridge DC brushed motor driver from Toshiba Semiconductor. The Forward/Reverse/Brake mode can be selected according to PWM control signals, while the motor operation and stop mode can be chosen by an enable pin. It has a wide operating voltage range of 4.5V to 28V with an output current capacity of 5A max. Besides, it also features built-in protection against under-voltage, overcurrent, and overtemperature conditions. This Click board™ is suitable for various automotive applications such as throttle and valve control, various engine bulbs, storing of door mirrors, and seat positioning.

DC Motor 18 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 various automotive applications such as throttle and valve control, various engine bulbs, storing of door mirrors, and seat positioning
On-board modules	TB9051FTG - motor driver which incorporates the output driver for the direct drive of a DC brushed motor intended for automotive use from Toshiba Semiconductor
Key Features	Key Features Low power consumption, ultra low on-resistance, anomaly detection features, selectable motor operation, PWM control, high-side current monitoring, diagnosis indicator, and more.
Interface	Analog,GPIO,PWM
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

DC Motor 18 click schematic

TB9051FTG datasheet

DC Motor 18 click 2D and 3D files

DC Motor 18 click example on Libstock