MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
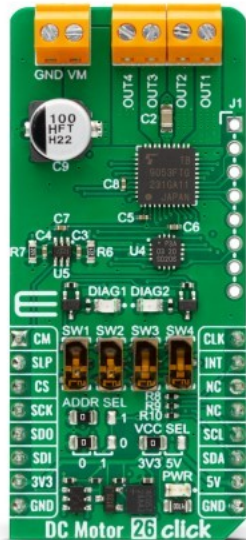Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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DC Motor 26 Click

PID: MIKROE-5655

DC Motor 26 Click is a compact add-on board with a brushed DC motor driver. This board features the TB9053FTG, a PWM-type, dual-channel, H-bridge, brushed DC motor driver from Toshiba Semiconductor. The TB9053FTG is rated for an operating voltage range from 4.5V to 28V, with the motor controlled directly through a PWM signal or SPI serial interface. In addition, this driver allows a dual configuration with two motors with 5A current ratings per channel or one 10A channel drive in a Parallel mode of operation. It also has complete diagnostic and protection capabilities supporting robust and reliable operation. This Click board™ is suitable for driving DC brushed motors in various automotive applications such as control of the throttle valve, engine valves, retractable door mirrors, and seat heater.

DC Motor 26 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 automotive applications (AEC-Q100 Grade 1 qualified), such as control of the throttle valve, engine valves, retractable door mirrors, and seat heater
On-board modules	TB9053FTG - thermal enhanced QFN package brushed DC motor driver from Toshiba Semiconductor
Key Features	Driver for one or two DC motors, direct PWM control or through SPI interface, selectable motor control functions and operational modes, Sleep mode and current monitoring, full protection and diagnostics, and more
Interface	I2C,PWM,SPI
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

DC Motor 26 click example on Libstock

PCA9538A datasheet

TB9053FTG datasheet

DC Motor 26 click schematic

DC Motor 26 click 2D and 3D files