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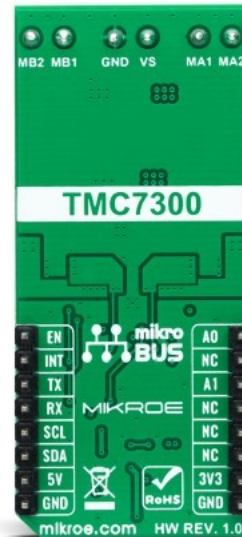Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
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DC Motor 22 Click

PID: MIKROE-5189

DC Motor 22 Click is a compact add-on board that contains a brushed DC motor driver. This board features the TMC7300, a low voltage driver for one or two DC motors from Analog Devices. The TMC7300 is rated for an operating voltage range from 2V to 11V and operates up to two DC motors via simple UART control for direction, velocity, and torque. It also has a complete set of diagnostic and protection capabilities that supports robust and reliable operation, like short to ground protection, short to power supply protection and undervoltage detection. This Click board™ is suitable for driving DC brushed motors and targeted at the consumer and industrial market with end applications to low voltage equipment with up to 2A (2.4A) current per motor.

DC Motor 22 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 brushed motors and targeted at the consumer and industrial market with end applications to low voltage equipment
On-board modules	TMC7300 - low voltage driver optimized for DC motor control from Analog Devices
Key Features	Driver for one or two DC motors, UART based control over motor velocity and direction by setting PWM voltage for each motor, control motor torque limit for both motors, full protection and diagnostics, and more
Interface	I2C,UART
ClickID	No
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 22 click example on Libstock

DC Motor 22 click 2D and 3D files

TMC7300 datasheet

MAX11645 datasheet

DC Motor 22 Click schematic