

Time-saving embedded tools

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DC Motor 29 Click





PID: MIKROE-5905

DC Motor 29 Click is a compact add-on board that contains a high-performance DC motor driver. This board features the DRV8245P, an automotive H-Bridge driver with integrated current sense and diagnostic from Texas Instruments. It can be configured as a single full-bridge driver or independent half-bridge driver. The driver offers excellent power handling and thermal capability due to a BiCMOS high power process technology mode, in which it is designed. This Click board[™] makes the perfect solution for the development of automotive brushed DC motors, solenoids, door modules, wiper motors, body control modules, steering systems, gas engine systems, and more.

DC Motor 29 Click is fully compatible with the mikroBUS[™] socket and can be used on any host system supporting the <u>mikroBUS[™]</u> standard. It comes with the <u>mikroSDK</u> open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this <u>Click board[™]</u> apart is the groundbreaking <u>ClickID</u> feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system. ISO 14001: 2015 certification of environmental management system. OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).



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Specifications

Туре	Brushed
Applications	Can be used for the development of automotive brushed DC motors, solenoids, door modules, wiper motors, body control modules, steering systems, gas engine systems, and more
On-board modules	DRV8245P - automotive H-Bridge driver with integrated current sense and diagnostic from Texas Instruments
Key Features	AEC-Q100 qualified for automotive applications, wide voltage operating range, configurable slew rate, and speed spectrum, integrated current sense, proportional load current output, protection and diagnostic features, and more
Interface	I2C,SPI
ClickID	Yes
Compatibility	mikroBUS™
Click board size	L (57.15 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

<u>mikroBUS</u>™

<u>mikroSDK</u>

Click board[™] Catalog

Click boards[™]

Downloads

TXS0104E datasheet

DC Motor 29 click example on Libstock

DC Motor 29 click 2D and 3D files

DRV8245 datasheet

PCA9538A datasheet

DC Motor 29 click schematic

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