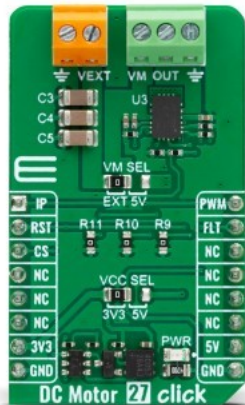


## DC Motor 27 Click



PID: MIKROE-5806

**DC Motor 27 Click** is a compact add-on board that contains a high-performance brushed DC motor driver. This board features the [DRV8143](#), an automotive half-bridge driver with integrated current sense and diagnostic from [Texas Instruments](#). It is designed in a BiCMOS high-power process technology node and has an operating range of 4.5V up to 35V. The driver features excellent power handling, thermal capability, EMI control, accurate current sense, robustness, and diagnostic capability. This Click board™ makes the perfect solution for the development of automotive brushed DC motors, solenoids, door modules, seat modules, body control modules (BCM), fuel, water, and oil pumps, onboard chargers, and more.

DC Motor 27 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.

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).

## Specifications

|                  |  |
|------------------|--|
| Type             | Brushed  |
| Applications     | Can be used for the development of automotive brushed DC motors, solenoids, door modules, seat modules, body control modules (BCM), fuel, water, and oil pumps, onboard charger, and more            |
| On-board modules | DRV8143 - half-bridge driver with integrated current sense and diagnostic from Texas Instruments   |
| Key Features     | Wide voltage operating range, PWM frequency operation up to 125KHz, configurable slew rate, integrated current sense, configurable current regulation, protection, and diagnostic features, and more |
| Interface        | Analog,PWM   |
| ClickID          | Yes  |
| 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 27 click example on Libstock](#)

[DC Motor 27 click 2D and 3D files](#)

[DRV8143-Q1 datasheet](#)

[DC Motor 27 click schematic](#)

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