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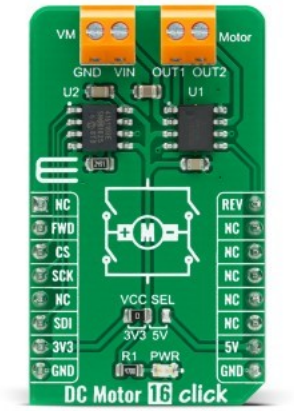
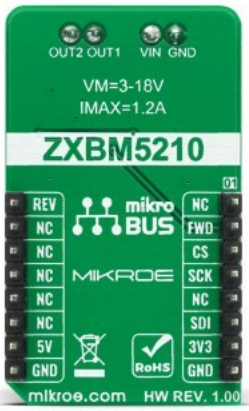
DC Motor 16 Click





PID: MIKROE-4333

DC Motor 16 Click is a compact add-on board that contains a high-performance single phase reversible DC motor drive with speed control. This board features the ZXBM5210, a fully-featured DC motor drive solution with an average current capability of up to 700mA from Diodes Incorporated. The ZXBM5210 has several modes of operations selected by two GPIO pins, has a wide supply voltage range from 3V to 18V, and low power consumption. It possesses three speed control modes, and provides under/over voltage protection, over current limit, and thermal shutdown capability. This Click board™ is suitable for a reversible DC motor and actuator drive, remote control motorized toy applications, home appliances, handheld power tools, and many more.

DC Motor 16 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).

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Specifications

Type	Brushed
Applications	Can be used for a reversible DC motor and actuator drive, remote control motorized toy applications, home appliances, handheld power tools, and many more.
On-board modules	DC Motor 16 Click is based on the ZXBM5210, a single chip solution for driving a single-coil reversible direct current (DC) fans and motors from Diodes Incorporated.
Key Features	Low power consumption, wide supply voltage range, under/over voltage protection, over current limit, thermal shutdown capability, and many more.
Interface	GPIO,SPI
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

ZXBM5210 datasheet

MCP4161 datasheet

DC Motor 16 click schematic

DC Motor 16 click example on Libstock

DC Motor 16 click 2D and 3D files

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