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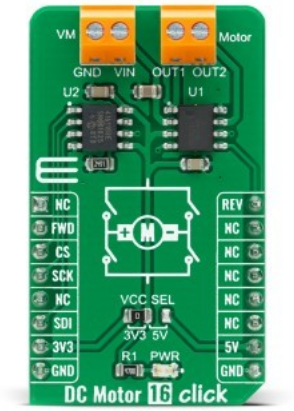
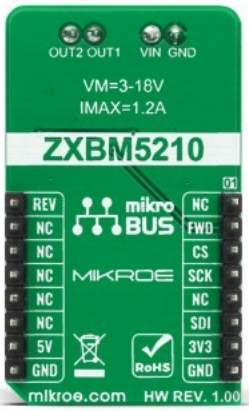
DC Motor 16 Click





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.

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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