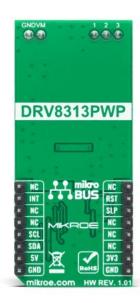


MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com

Brushless 20 Click





PID: MIKROE-5294

Brushless 20 Click is a compact add-on board that controls brushless DC (BLDC) motors with any MCU. This board features the <u>DRV8313</u>, a fully integrated three-phase BLDC motor driver from <u>Texas Instruments</u>. It provides three individually controllable half-H-bridge drivers intended to drive a three-phase BLDC motor, solenoids, or other loads. Each output driver channel consists of N-channel power MOSFETs configured in a 1/2-H-bridge configuration. Besides, it has a wide operating voltage range from 8V to 60V, alongside several built-in protection circuits such as undervoltage, charge pump faults, overcurrent, and overtemperature. This Click board ™ makes the perfect solution for driving three-phase brushless DC motors up to 2A output current rating.

DC Motor 17 Click is supported by a $\frac{\text{mikroSDK}}{\text{compliant library}}$, which includes functions that simplify software development. This $\frac{\text{Click board}^{\intercal}}{\text{comes}}$ comes as a fully tested product, ready to be used on a system equipped with the $\frac{\text{mikroBUS}^{\intercal}}{\text{mikroBUS}^{\intercal}}$ 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.





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Specifications

Туре	Brushless
Applications	Can be used for driving three-phase brushless DC motors up to 2A output current rating
On-board modules	DRV8313 - three-phase BLDC motor driver from Texas Instruments
Key Features	Triple 1/2 H-bridge driver, high current drive capability, low MOSFET ON resistance, integrated protection features, sleep mode for standby operation, and more
Interface	I2C
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

Brushless 20 click example on Libstock

DRV8313 datasheet

PCA9538A datasheet

Brushless 20 click 2D and 3D files

Brushless 20 click schematic

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