

Brushless 8 Click



PID: MIKROE-4275

Brushless 8 Click is a compact add-on board suitable for controlling BLDC motors with any MCU. This board features the TC78B042FTG, a sine-wave PWM drive three-phase full-wave brushless motor controller from Toshiba Semiconductor. The TC78B042FTG has Toshiba's original automatic phase adjustment function, which secures both a high-efficiency fan motor drive and sine-wave drive that reduces noise at a wide range of motor rotation speeds, from almost 0rpm (rotations per minute) at Start-Up up to several 1.000rpm. This Click board™ makes the perfect solution for use in home appliances such as air-conditioners, air purifiers, and industrial equipment.

Brushless 8 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.

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ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
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ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Brushless
Applications	Can be used in home appliances such as air-conditioner fans, air purifiers, and industrial equipment.
On-board modules	Brushless 8 Click is based on the TC78B042FTG, a three-phase brushless motor controller that offers high efficiency over a wide rotation range without phase adjustment from Toshiba Semiconductor.
Key Features	Sine-wave PWM control, automatic lead angle control (InPAC), Hall sensor input, rotation switch, output current limit, built-in motor lock detection, and more.
Interface	Analog,GPIO,I2C,PWM
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Brushless 8 click 2D and 3D files](#)

[TB67Z800FTG datasheet](#)

[TC78B042FTG datasheet](#)

[Brushless 8 click schematic](#)

[DAC43608 datasheet](#)

[Brushless 8 click example on Libstock](#)

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