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Brushless 7 Click





PID: MIKROE-4182

Brushless 7 Click is, as its name said, a motor driver based expansion board for controlling BLDC motors with any microcontroller. The board is based on TC78B009FTG IC from Toshiba, which is a three-phase BLDC motor controller that does not require Hall sensors. Some of the main features are a built-in closed loop speed control function that regulates and maintains the motor rotational speed under dynamic power fluctuations and load variations. With precise setting of a speed profile done by the built-in nonvolatile memory (NVM) it eliminates the need for an external MCU for closed loop speed control and makes it perfect solution for applications that include high-speed fans used in servers, blowers, cordless vacuum cleaners, and robot vacuum cleaners.

Brushless 7 Click board™ 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.







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Specifications

Туре	Brushless
Applications	Servers, Blowers, Fans, Cordless vacuum cleaners, Pumps and many more
On-board modules	TC78B009FTG,EL IC from Toshiba is a three- phase BLDC motor controller
Key Features	Sensorless PWM drive, Capable to drive Delta or Wye configured motors, Motor speed control by analog voltage, PWM duty cycle, or I2C
Interface	GPIO,I2C,PWM
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

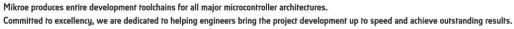
SSM6K513NU datasheet

TC78B009FTG datasheet

Brushless 7 click 2D and 3D files

Brushless 7 click example on Libstock

Brushless 7 click schematic



health and safety management system.





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