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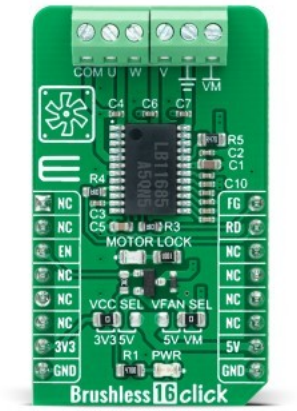
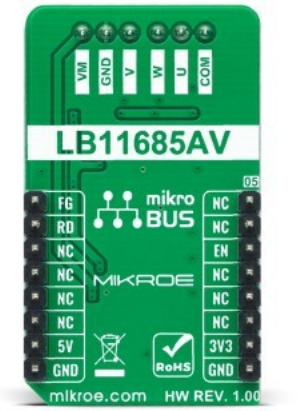
Brushless 16 Click





PID: MIKROE-4742

Brushless 16 Click is a compact add-on board suitable for controlling BLDC motors with any MCU. This board features the LB11685AV, a three-phase full-wave current-linear-drive motor driver from ON Semiconductor. It adopts a sensorless control system without the use of a Hall Effect device. The LB11685AV features a current soft switching circuit for quieter operation and is optimal for driving the cooling fan motors used in refrigerators. It also comes with several protection features such as motor lock, thermal shutdown, current limit, beat lock detection, and more. This Click board™ makes the perfect solution for use in home appliances such as air-conditioner and cooling fans, air purifiers, and industrial equipment.

Brushless 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	Brushless
Applications	Can be used for use in home appliances such as air-conditioner and cooling fans, air purifiers, and industrial equipment.
On-board modules	LB11685AV - three-phase full-wave current-linear-drive motor driver from ON Semiconductor
Key Features	Low power consumption, Hall-senor less, easy control, protection features (current limit, lock detection, thermal protection), stability at booting, and more
Interface	GPIO
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V,External

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Brushless 16 click 2D and 3D files

LB11685AV datasheet

Brushless 16 click schematic

Brushless 16 click example on Libstock