

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.

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.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

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](#)

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.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).