

HOD CAP Click



PID: MIKROE-5719

HOD CAP Click is a compact add-on board that adds a smart sensing solution to your application. This board features the [AS8579](#), a capacitive sensor from [ams OSRAM](#). The sensor features I/Q signal demodulation, parasitic influences from cable, and PCB protection. It has ten sense outputs, five of which come with sensing line filter circuits. This Click board™ makes the perfect solution for the development of autonomous driving applications such as hands-on steering wheel detection and detection of any human presence inside a vehicle or outside of the vehicle, e.g., for automatic trunk opener and more.

HOD CAP 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	Capacitive
Applications	Can be used for the development of autonomous driving applications such as hands-on steering wheel detection and detection of any human presence inside a vehicle or outside of the vehicle, e.g., for automatic trunk opener and more
On-board modules	AS8579 - capacitive sensor from ams OSRAM
Key Features	Accurate capacitive measurements, higher durability, and lower system costs, an enabler for safety-critical applications, suitable for automotive applications, 10 sense outputs from which five come with line sense filters, the possibility to set a system CLK frequency, and more
Interface	SPI
ClickID	Yes
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

[HOD CAP click example on Libstock](#)

[HOD CAP Click schematic](#)

[HOD CAP click 2D and 3D files](#)

[AS8579 datasheet](#)

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