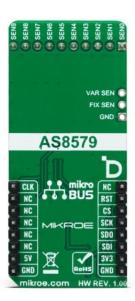


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HOD CAP Click





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 $\underline{\text{Click board}^{\,\,\,\,\,}}$ 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.





health and safety management system.



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Specifications

Туре	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

www.mikroe.com

Resources

<u>mikroBUS™</u>

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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