



## **IQS620AEV02** Overview

Combination sensor with dual channel capacitive proximity/touch, Hall-effect sensor and inductive sensing

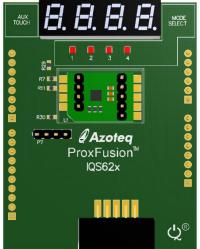
The IQS620A ProxFusion<sup>®</sup> IC is a multifunctional capacitance, Hall-effect & inductance sensor designed for applications where any or all of the technologies may be required. The IQS620A is an ultra-low power solution designed for short or long term activations through any of the sensing channels. The IQS620A is fully I<sup>2</sup>C compatible and can be configured to output main trigger events on GPIOs.

## **EV-Kit Overview**

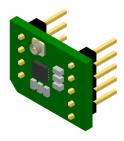
- Inductive sensing
- Hall-effect sensing
- Capacitive sensing

## **Evaluation Modes**

- Connect to PC GUI via CT210A USB Dongle<sup>1</sup>
- When connected to CT210A use 3.3V (default) only  $^{2}$ 
  - $\circ \quad \text{Raw info displayed in GUI}$
- Please ensure Shield Board<sup>3</sup> is unplugged from Arduino Uno / ST Nucleo when connected to CT210A
- Plug into Arduino Uno<sup>1</sup> or ST Nucleo<sup>1</sup>
  - o Sensor info displayed on 7-segment
  - Open source code for custom development
- Embed the small module PCB (stamp) into custom design & interface to host MCU (Additional modules sold separately as IQS620AEV01)



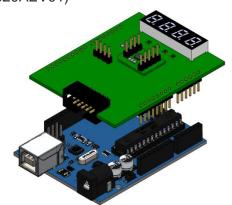
IQS620AEV02 Shield Board



Detachable Stamp Module

## **Applications**

- Mobile electronics (phones/tablets)
- SAR safety requirements for laptops, tablets and phones
- Wearable devices, on ear detection
- White goods and appliances
- Human Interface Devices



IQS620A Shield + Arduino Uno<sup>1</sup>

- Proximity activated backlighting
- Applications with long-term activation
- Aftermarket automotive<sup>4</sup>

<sup>1</sup> Sold separately

- <sup>2</sup> 1.8V not supported on Shield Board due to diode protection
- <sup>3</sup> Shield Board does not support programming
- <sup>4</sup> The part is not automotive qualified