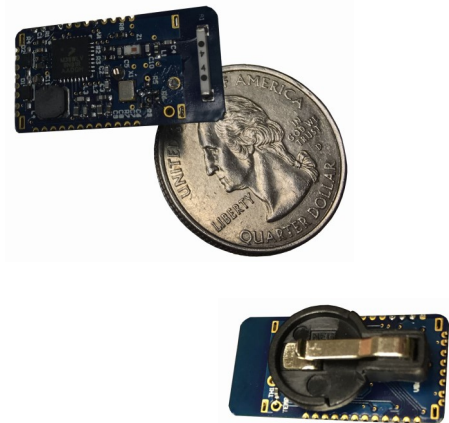ACS

Wireless Sensor Module

ACS is a product and technology development company with decades of experience in consumer, industrial, medical, military, and automotive industries providing electronic design and software solutions. Since 1983, ACS has provided electronic design services of a wide range of low voltage, low powered products for moderate and advanced designs.

The company also develops and manufactures its own propriety products that fall under its overall technology platform of wireless communication, remote monitoring, and wireless controlling of equipment and machinery.

Wireless Sensor Applications

- Humidity/Moisture
- Temperature
- Leak/Level
- Machine Vision
- Optical Motion/Velocity
- Position/Presence/Proximity

- Acceleration/vibration
- Acoustic/Ultrasonic
- Chemical/Gas
- Flow
- Force/Load/Torque/Strain
- Pressure

Overview

ACS offers designers, engineers, and new product development specialists a miniature communication and sensor module that can be customized for new product applications. Each unit has a Bluetooth Low Energy (BLE) radio that can communicate with handheld and/or portable devices operating on iOS, Android, and Windows platforms. The module is custom-configured and programmable for OEMs and product developers can utilize the device to communicate to their own custom-developed app. Competing off-the-shelf modules typically utilize closed-source coding, preventing them from being used with anything but their own application.

ACS will modify the module to customer specifications so that it acquires and manages input sensor data and sends it to the receiver in the proper format, protocol, and frequency as needed by the corresponding app. ACS will also modify the physical layout to mechanically fit into the housing design of the OEM.

Specifications/Details

- Can mount directly onto a PCB if desired (footprint will be provided).
- Operates on 3 VDC. Utilize optional battery mount or bring power to module through input pads.
- Physical size (L X W X H): 1" X 1/2" X 3/8" with battery installed
- Programmable transmission speed
- Includes microprocessor to potentially eliminate a duplicate on the control board
- Enables a simpler control PBC design
- Includes programmable automatic on/off/sleep
- Analog input ports form sensor connection
- Includes optional LED indicator
- Configurable/customizable to customer requirements (including size/footprint)