



## WICED Sense Kit Quick Start



Broadcom Corporation  
5300 California Avenue  
Irvine, CA 92617  
© 2014 by Broadcom Corporation  
All rights reserved  
Printed in the U.S.A.

Broadcom® Corporation reserves the right to make changes without further notice to any products or data herein to improve reliability, function, or design. Information furnished by Broadcom Corporation is believed to be accurate and reliable. However, Broadcom Corporation does not assume any liability arising out of the application or use of this information, nor the application or use of any product or circuit described herein, neither does it convey any license under its patent rights nor the rights of others.

Broadcom®, the pulse logo, Connecting everything®, and the Connecting everything logo are among the trademarks of Broadcom Corporation and/or its affiliates in the United States, certain other countries and/or the EU. Any other trademarks or trade names mentioned are the property of their respective owners.

# Introduction

The WICED Sense TAG is made up of the BCM20737S Bluetooth Low Energy SoC and five ST Microelectronics sensors: gyroscope, accelerometer, eCompass, pressure, and humidity/temperature. The BCM20737S connects directly to the sensors without the need for an external micro-processor. The WICED Sense smartphone application receives and displays real-time data from the sensors.

## Kit Contents

1. One WICED Sense TAG
2. One USB to Micro USB cable
3. This document, which contains information about how to download all required software, including the:
  - WICED Sense sample application for iOS.
  - WICED Smart Software Development Kit 2.X

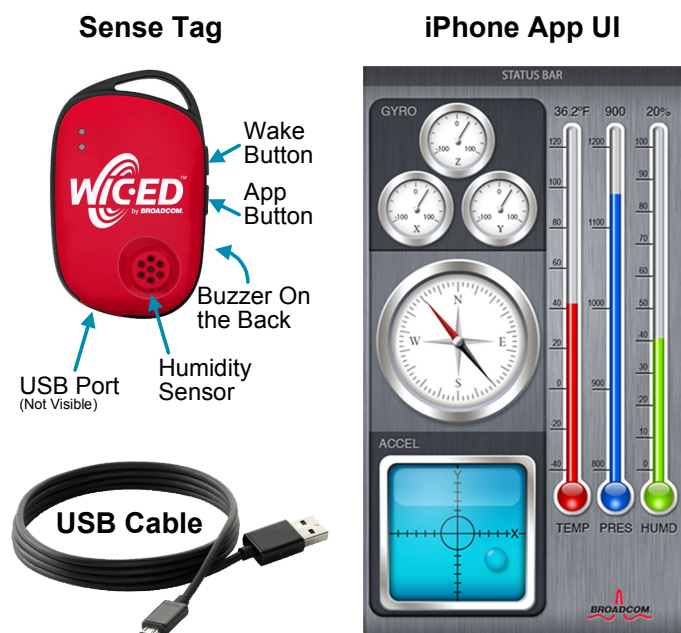
## Setup

### Pair the WICED Sense TAG and an iPhone

1. From the iPhone 4S (or greater):
  - Go to the iTunes App Store.
  - Search for and download the WICED Sense app.
2. When the download is complete, start the WICED Sense app.
3. On the WICED Sense TAG:
  - Remove the plastic shipping strip in the battery compartment (pull the tab).
  - Press the Wake button. See the WICED Sense TAG illustration for the location of the Wake button.
4. On the phone, the app will display the WICED Sense kits that are ready to pair. Tap the desired kit to complete pairing.

Tap the information icon ("i") in the lower-left corner of the iPhone screen for application information.

## Kit Components



For additional information and/or to download the WICED Smart SDK visit:

<http://www.broadcom.com/wicedsense>

For additional support and/or to download the WICED Sense reference design package, visit:

<http://community.broadcom.com/community/wiced-smart>

#### Note

ST Microelectronics Devices used in the WICED Smart Kit ([http://www.st.com/web/en/catalog/sense\\_power/...](http://www.st.com/web/en/catalog/sense_power/...)):

- Gyroscope (L3GD20) – ...FM89/SC1288/PF252443
- Accelerometer (LIS3DSH) – ...FM89/FM89/SC444/PF252716
- eCompass (LSM303D) – ...FM89/SC1449/PF253884
- Pressure sensor (LPS25H) – ...FM89/SC1316/PF255230
- Humidity Temperature sensor (HTS221) – ...FM89/SC1718/PF260067

Regulatory Statement  
Broadcom BCM9WICED\_SENSE

## 1. USA—Federal Communications Commission (FCC)

### **FCC COMPLIANCE STATEMENT:**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **INFORMATION TO USER:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the distance between the equipment and the receiver.
- Connect the equipment to outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 2. Canada - Industry Canada (IC)

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

### **French:**

Cet appareil est conforme avec Industrie Canada exempts de licence standard RSS (s) . Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas provoquer d'interférences et ( 2) cet appareil doit accepter toute interférence , y compris celles pouvant causer un mauvais fonctionnement de l'appareil.