



Push every boundary.™

## CSR $\mu$ Energy® Development Kits

### Starter Development Kit



#### Product Overview

CSR is the industry leader for Bluetooth Smart solutions delivered through the [CSR  \$\mu\$ Energy](#) product family.

CSR introduces a simplified yet comprehensive development kit for designers who need to get prototypes of their Bluetooth Smart products up and running fast then move quickly to production.

#### Product Highlights

The kit provides a complete set of tools for software development, board design and production test:

- Target board with CSR  $\mu$ Energy IC on reference module, USB programming interface and interfaces for breaking out I/O to application-specific sensors and actuators
  - CSR1010, CSR1011 and CSR1012 variants\*
- Fully licensed CSR xIDE software development environment
- Example applications for popular Bluetooth Smart profiles
- Example host applications for iOS and Android platforms
- Datasheets for CSR  $\mu$ Energy ICs
- Hardware design guidelines
- Manufacturing packs for module reference designs
- Production test and configuration tools

The Target board is normally powered from the host USB connection but can also be run standalone from an on-board coin cell (not included) to allow power measurements to be made.

#### Kit Contents

The Starter Dev Kit contains the following components:

- Target board
- Mini-USB cable to connect to Host PC USB port
- Setup and Quick Start Guides
- CSR  $\mu$ Energy Starter Dev Kit CD-ROM



#### Applications

Human Interface Devices including:

- Keyboard
- Mouse and touchpad
- Remote control

Sports and Fitness devices including:

- Heart rate monitor
- Foot pod
- Cycle speed, power and cadence

Health devices including:

- Glucose meter

# CSR $\mu$ Energy<sup>®</sup> Development Kits

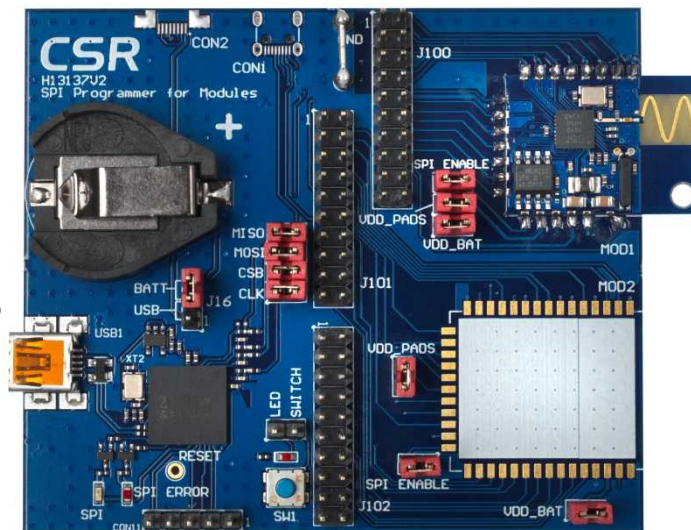
## Starter Development Kit

### Starter Kit Target Board

- Factory-fitted with CSR1010, CSR1011 or CSR1012 module
- USB or CR2032 battery powered (link selectable).
- USB SPI interface to development PC
- 1x push-button
- 1x LED
- 1x Headers for CSR1010/CSR1012 I/O
- 2x Headers for CSR1011 I/O
- 80 x 68 mm PCB area

CSR1010 kit part no. DK-CSR1010-10169

\*CSR1011 and CSR1012 kit versions are in development.



CSR1010  
or  
CSR1012  
Module  
Site

CSR1011  
Module  
(site)

For tech info visit: [forum.csr.com](http://forum.csr.com) & [wiki.csr.com](http://wiki.csr.com)

### Reference Modules

Common features:

- CE and FCC pre-qualified designs
- FR4 PCB layout
- Single-sided PCB mounting
- PCB antenna and passive filter

#### CSR1010 Reference Module

- 2-layer PCB (25.5 x 18.0 mm)

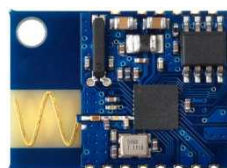
#### CSR1011 Reference Module

- 2-layer PCB (35.0 x 20.0 mm)

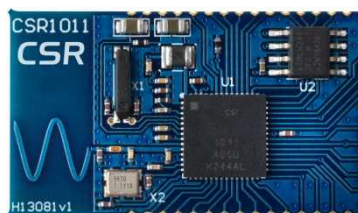
#### CSR1012 Reference Module

- 4-layer PCB (17.7 x 7.6 mm active area)

A Daughter board featuring 5 representative MEMS parts is in development, which will connect to the I/O Headers of all modules.



CSR1010



CSR1011



CSR1012

### Ordering Information

Visit the website [www.csr.com](http://www.csr.com) for a [list of distributors and representatives](#) [Contact > Sales Representatives] and for further information on other related products.

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