



Qualcomm® CSR102x Starter Development Kit

Entry level, expandable development kit for Bluetooth® low energy IoT applications.

The CSR102x Starter Development Kit is a simplified, yet comprehensive kit designed for developers and designers who need to get prototypes of their Bluetooth low energy products up and running and into production with reduced development time.

The Starter Kit is a great entry point for the cost sensitive developer with easy expansion to sensors and actuators. A non-pluggable CSR1025 module with a printed F-antenna is part of the target board design. A programming and debugging interface to the host is included on the board, as well as a debug interface to an alternative target, if required. Expansion connectors can be used to support an external flash device or additional PIO. It features a button and LED for developing a simple tag application, or to connect to a specific peripheral for more advanced applications.

CSR1025 is optimized for IoT applications where balancing performance, battery life, and cost is critical. Flexible I/O capabilities simplify integration for easy development and low cost designs with minimal external components.

There are a variety of development options available for the CSR102x platform for virtually all types of Bluetooth low energy applications. Kits are available to purchase online from our sales and solution providers including our network of distributors, representatives, module suppliers and design houses.

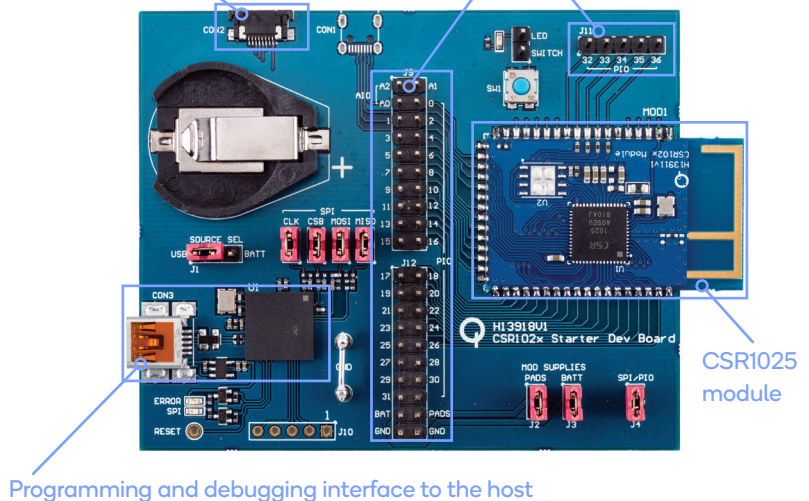
Kit Contents

- Starter Target Board
- Mini-USB cable to connect to Host PC USB port
- Flexible cable to connect programmer to target board
- Prototyping leads
- Setup guide
- Activation code for latest SDK

Starter Kit Target Board

Debug interface to alternative target

I/O expansion connectors



Programming and debugging interface to the host

- Factory-fitted with CSR1025 module with printed F-antenna
- I/O connectors available for rapid prototyping
- USB debugging interface to development PC
- 1x push-button
- 1x LED



Bluetooth Low Energy Applications

- Keyboards and Mice
- Fitness Devices
- Heart Rate Monitor
- Smart Tags
- Auto Keyless Entry
- Smart Lighting



CSR1025 SoC

- Starter target board with integrated CSR1025 module on board
- Simple set up, easy to use, with a low learning curve
- Programming and debugging interface to the host as well as a debug interface to an alternative target if required
- Includes expansion connectors which can be used to support an external flash device or additional PIO
- Power supply and measurement options
- Software IDE
- Example target applications for Bluetooth profiles
- Example module design files

Ordering Information

Product	Part Number
CSR102x Starter Dev Kit	DK-CSR1025-10285
IoT Dev Kit	DK-CSR1025-10280
Professional Dev Kit	DK-UENERGY-PB-10242
Bluetooth Node Dev Kit	DK-CSR1025-10284
Sport Watch Application Board	DB-UENERGY-AB-10244
Smart Remote Application Board	DB-UENERGY-AB-10243

To learn more visit: qualcomm.com or developer.qualcomm.com



Other CSR102x Development Kits

IOT Development Kit

DK-CSR1025-10280

The IoT development kit introduces a multi-purpose development platform for prototyping a range of IoT applications and is intended for use with Bluetooth mesh and CSRMESH™ SDKs.

Applications:

- Lighting
- Home automation
- Sensor networks

PROFESSIONAL Development Kit

DK-UENERGY-PB-10242

A development kit based on a modular design that allows the processor to be swapped out via a pluggable module. The target board can be run from different power sources, and current can be measured from the board directly.

Applications:

- Auto keyless entry
- Fitness & Health
- Keyboards & mice
- Beacons
- Alert tags

BLUETOOTH NODE Development Kit

DK-CSR1025-10284

A small form factor design with a motion sensor, indication LED and button suitable for making tag applications a reality.

Applications:

- Beacon
- Proximity tag
- Footpad form factor

SPORT WATCH Application Board

DB-UENERGY-AB-10244

Pluggable sport watch application board that includes NFC with payment support, GPS and multiple sensors.

Applications:

- Wearables

SMART REMOTE Application Board

DB-UENERGY-AB-10243

Pluggable smart remote application board that includes a microphone, IR transmitter and receiver, touchpad, motion sensor and other peripherals.

Applications:

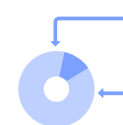
- Accessories

CSR1025

- High I/O count upgradeable platform
- 33x GPIO
- 2x AIO
- 80KB RAM
- 256KB internal flash
- LGA 60-lead package
- 8 x 8 x 0.75mm; 0.5mm pitch

SDK

The Bluetooth low energy SDK provides a comprehensive graphical code development environment for the CSR102x



IC products using its xIDE environment with breakpoint, variable viewing, memory viewing, etc.

The SDK is based on a gcc compiler tool chain with command line build and make

tools available, designed for reducing development time and regression builds.

IoT Development Kit, CSRMESH, Bluetooth Node Development Kit, Professional Development Kit, Sport Watch Application Board and Smart Remote Application Board are products of Qualcomm Technologies, Inc. and/or its subsidiaries.

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