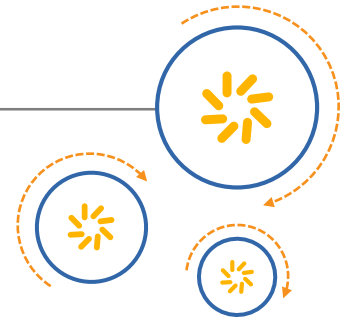




Qualcomm Technologies International, Ltd.



CSR8605 QFN (Dale) Product Brief

80-CC529-1 Rev. A

February 17, 2016

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Revision history

Revision	Date	Description
A	February 2016	Initial release of CSR/QTIL documentation to establish integration baseline.

CSR8605 QFN Development Kit



Product Overview

The BlueCore® CSR8605 QFN development kit is a rapid evaluation and development platform for cost sensitive Bluetooth audio sink, music streaming applications. It is the latest member of CSR's BlueCore® single chip Bluetooth ROM audio solution.

The BlueCore® CSR8605™ QFN integrates an ultra-low-power DSP and application processor with embedded ROM memory, a high-performance mono codec, a power management subsystem, LED drivers and comprehensive set of analogue and digital peripherals in a single chip.

Along with the development kit, the CSR configuration tools provides manufacturers a user-friendly means of customizing their end products from a extensive range of human machine interface setting. Developers can readily define PIO functionality, associate device control with different button configuration and define unique LED patterns with user actions.

Product Key Features

- Bluetooth® v4.0 specification compliant
- A2DP v1.2
- AVRCP v1.0
- Radio includes integrated balun and RF performance of 8dBm (typ) transmit power and -91dBm (typ) receive sensitivity
- 80MHz RISC MCU and 80MIPS Kalimba DSP
- Internal ROM, serial flash memory and EEPROM Interfaces
- High performance Mono CODEC
- Multipoint A2DP support enables connection to 2 A2DP source devices for music playback
- Audio interfaces: Mono line-in, I²S, PCM and SPDIF
- Integrated dual switch-mode regulators, linear regulators and battery charger
- 3 hardware LED controllers (for RGB)
- 68-lead QFN 8x8 x 0.9mm 0.4mm pitch package

Applications

Tablets / PCs / Mobile Connectivity

- Bluetooth Mono speakers
- A2DP audio sink (including multipoint) for music streaming

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CSR8605 Development Kit Contents

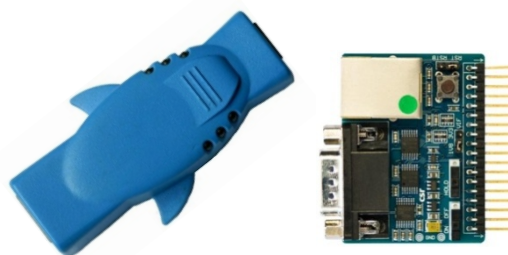
CSR8605 Software Development Board



This board features the latest CSR BlueCore® CSR8605 QFN Bluetooth audio solution. It interfaces with mono headphones and has flexible LED and push-button assignments. Battery current measurements can be performed, and a PIO header allows for connection of further application hardware, such as displays.

Board Ref: CNS12013

SPI-USB Converter and Interface Board



The kit includes an SPI-USB converter to allow software development via USB, a level shifting interface board is also included for communications with the development board.

Board Ref: DEV-PC-1309

Cables, Headphones and Quick Start Guide



Included in the kit is a battery, Bluetooth stub antenna, high-quality headphones as well as a quick-start guide and all necessary cables.

Ordering Information

Part number: **CSR8605A04-IQF-R**

Development Kit Part Number: **DK-8605-10141-1A**

Development Board Only: **DB-8605-10140-1A**

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