



Push every boundary.™

BlueCore® CSRB5348

Bluetooth Smart Ready Solution



Product Overview

CSR's latest BlueCore® CSRB5348 BGA SoC allows rapid development for next generation differentiated Bluetooth modules, embedded systems and emerging applications in the Internet of Things (IoT) space. CSRB5348 enables high integration and ultra-low power operation.

CSRB5348 dual mode Bluetooth Smart v4.1 qualified SoC provides enhanced connection topologies to improve smart device support and accessory support. This is combined with a powerful array of embedded system blocks including an 80 MHz processor, large I/O for sensor rich connection, ROM memory array, direct LED drive, and analogue and power management.

CSRB5348 powerful Software Development Kit (SDK) enables accessory developers of multiple operating systems to bring products to market quickly. The SDK includes an MFi® V4.0 add on, Android and PC support. The SDK allows over the air (OTA) updates for future proofing products.

Product Highlights

- **Dual mode Bluetooth Smart Ready**
 - Bluetooth v4.1 qualified
- **Peripheral rich**
 - USB battery charging
 - Extensive fully configurable digital or analogue I/O
- **Fast development**
 - Dedicated hardware and software development kit
- **Ultra low power**
 - Super sleep down to 48 µA
- **High performance**
 - 80 MHz embedded RISC processor
 - 24bit embedded DSP
 - Reduced latency by hardware enabled I/O scanning



Applications

- **BT4.1 modules**
- **Embedded systems**
 - Home automation
 - Industrial automation
 - EPOS
- **IoT**
- **Human Interface Devices**
- **Sports and leisure**

CSR Related Products

- **CSR101x µEnergy® family**
- **CSRmesh™**
- **CSR8510**

Key Product Features

Feature	CSRB5348
BT Version	4.1
Dual Mode	✓
Package (mm x mm)	VFBGA105 6x6
Package height (mm)	1.0
Package Pitch (mm)	0.5
22 analogue and 22 digital I/O	✓
External SQI Flash support	✓
Lithium-ion battery operation USB charger support	✓
OTA / USB update	✓
MFi® V4.0 support (iAP2)	✓
Operating temperature (°C)	-40°C to +85°C

Hardware Kits

- CSRB5348 development board



Ordering Information

Visit the website www.csr.com for a [list of distributors and representatives](#) [Contact > Sales Representatives] or request more information from a CSR representative [Contact > CSR Customer Support]. Visit the website for further information on other related products.

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