Bluecore™ CSRB534x Dual mode differentiated platforms
Qualcomm® Bluecore CSRB534x series
Dual Mode *Differentiated* Platforms

**CSR534x**
- BT v4.1 SoC
- Integrated MCU & DSP Smart Analog

- **CSR5341**
  - Low system cost

- **CSR5342**
  - Battery charger
  - Gamepad audio

- **CSR5348**
  - Extended temperature
  - Class 1 example design

*Wireless accessories and HID*

*Wireless modules*

---

BlueCore, CSR5341, CSR5432 and CSR5438 are products of Qualcomm Technologies International, Ltd. and/or other subsidiaries of CSR Limited.
Qualcomm® Bluecore CSRB534x
Dual mode Differentiated platforms

**Ultra Low-Power**
- Super sleep 60µA
- Standby <0.15 mA
- Operating <1 mA

**Peripheral Rich**
- 22 fully configurable digital
- 22 analogue I/O
- USB battery charging (CSRB5342/8)

**Dual mode Bluetooth**
- Bluetooth® v4.1 qualified
- Robust support of Bluetooth classic and Bluetooth LE topologies

**Fast Development**
- Market-leading Bluetooth stack
- Dedicated SDK and dev. board
  - MFi® pre-certified
  - Android and Windows support

**High Performance**
- 80MHz MCU & 40MHz DSP
- Low latency by hardware I/O scanning
- OTA updates

Bluecore CSRB5341 and CSRB5342 are products of Qualcomm Technologies International, Ltd. and/or other subsidiaries of CSR Limited.
Qualcomm® Bluecore CSRB534x

Applications

**Consumer**
- Wireless games controllers
- Wireless gaming mice
- Remote controls
- Toys
- Wireless keyboards

**Industrial**
- Bluetooth® v4.1 modules
- HVAC (Heating, ventilation, and air conditioning controls)
- Access and security
- EPOS
- Industrial automation
- Keypads

Bluecore CSRB5341 and CSRB5342 are products of Qualcomm Technologies International, Ltd. and/or other subsidiaries of CSR Limited.
Qualcomm® Bluecore CSRB5342
Dual Mode Differentiated Platforms

- Dual mode Bluetooth® v4.1 compliant
  - Embedded system in ROM, application in Flash
  - On chip Balun/ Filters
  - Key profiles include HID, SPP, GATT and HID over GATT (HOG)
- Memory
  - External serial Flash up to 64Mb
- I/O
  - 22 digital I/O and 22 analogue I/O
- Operating temperature
  - -20°C to +70°C
- Packages
  - QFN88, 10x10x0.9mm, 0.4mm pitch
  - BGA105, 6x6xmm, 0.5mm pitch
- Power Management
  - Integrated linear regs.
  - Power on reset - low voltage detect

- Li-Ion Battery Charger with instant-On support
  - Charge support up to 200mA – no external devices
  - Charge support up to 750mA using external pass device

Bluecore CSRB5341 and CSRB5342 are products of Qualcomm Technologies International, Ltd. and/or other subsidiaries of CSR Limited.
## Qualcomm® BlueCore CSRB534x
### Feature Comparison

<table>
<thead>
<tr>
<th>Feature</th>
<th>CSRB5341</th>
<th>CSRB5342</th>
<th>CSRB5348</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bluetooth® version</td>
<td>4.1</td>
<td>4.1</td>
<td>4.1</td>
</tr>
<tr>
<td>Dual mode</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Package dimensions (mm x mm)</td>
<td>QFN88 10x10</td>
<td>QFN88 10x10</td>
<td>VFBGA105 6x6</td>
</tr>
<tr>
<td>SQIF ext. flash support</td>
<td>✓ (64 Mb)</td>
<td>✓ (64 Mb)</td>
<td>✓ (64 Mb)</td>
</tr>
<tr>
<td>Li ion battery with USB Charger</td>
<td>-</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>support</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry cell battery operation (2xAA)</td>
<td>✓</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>OTA/ USB updates</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>HID (HID over GATT)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>MFi® V4 support (iAP2)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Operating temperature Range(°C)</td>
<td>-20°C to +70°C</td>
<td>-20°C to +70°C</td>
<td>-40 to +85°C</td>
</tr>
<tr>
<td>Bluetooth qualification</td>
<td>2</td>
<td>2</td>
<td>1</td>
</tr>
</tbody>
</table>

BlueCore, CSRB5341, CSRB5342 and CSRB5348 are products of Qualcomm Technologies International, Ltd. and/or other subsidiaries of CSR Limited.
Thank you

Follow us on:  

For more information, visit us at:  
www.qualcomm.com & www.qualcomm.com/blog