BSW403C Bluetooth 4.0 SMT Module Industrial Grade



Bointec



## USB 2.0 interface, saw edge package

## Introduction of Products

Bointec BSW403C is a single-chip radio and baseband solution for Bluetooth 2.4GHz systems including EDR to 3Mbps. Dedicated signal and baseband processing is included for full Bluetooth operation.

Bointec designed CSR8510 based BSW403C module/dongle PCBA to reduce PCB area and the number of external components, including no requirement for an external balun.

Customer can use in computing devices or embedded devices, such as PC, Laptop, Tablet, USB dongle, etc.

## **Product Highlight**

-Main chip :CSR8510 WLCSP

- -Support for Bluetooth low energy with low energy .
- -Fully qualified Bluetooth® v4.0 specification system.
- -Dual-mode Bluetooth/Bluetooth low energy operation.
- -HCI mode operation with full Bluetooth stack.
- -HID proxy mode for boot mode support and stackless operation.
- -High-sensitivity and Bluetooth low energy receiver.
- -Full-speed USB 2.0 interface.
- -SMT Module ,Saw edge
- -RoHS compliant





## Specification

| Dimenstion   16.5+-0.05 mm x 11.3+-0.05mm |  |  |
|---|--|--|
|   |  |  |
| General Specification                     |  |  |
|   | Bluetooth  |  |
| Standard                                  | Bluetooth V4.0LE, V3.0+HS, V2.1+EDR                                  |  |
| Data Rate                                 | 1 Mbps, 2Mbps and Up to 3Mbps (TBD)                                  |  |
| Modulation Scheme                         | GFSK, π/4-DQPSK and 8-DPSK (TBD)                                     |  |
| Frequency Range                           | 2.402~2.480 GHz  |  |
| Transmit Output Power                     | $0 \le \text{Output Power} \le +10$ , typical 9.7dBm; Class 1 Device |  |
| Receiver Sensitivity                      | -91 dBm (typ.) for pi/4-DQPSK, 0.1%BER (TBD)                         |  |
| Antenna                                   | PCB antenna  |  |
| USB Interface                             |  |  |
| Standard                                  | USB 2.0  |  |
| Data Rate                                 | Up to 12Mbps   |  |

| Environmental information |             |  |
|---------------------------|-------------|--|
| Environment               |             |  |
| Operating Temperature     | -30° ~ 85°C |  |
| Storage Temperature       | -40° ~ 85°C |  |



Product quick glance









TAIJET BOINTEC CO LTD 4F,#114,ZHOUZI ST., NEIHU-TAIPEI 11493, TAIWAN TEL:+886-2-2759-0081 EMAIL:contact@bointec.com とぼ WWW.BOINTEC.COM

We are Your Partner more than Business (C)BOINTEC. All rights reserved. Bointec & the Bointec logo are the trademarks of Taijet Bointec, which may be registered in some jurisdictions. All other brands and product names are registered trademarks of their respective holders. Information supplied by Bointec is believed to be accurate and reliable. Bointec assumes no responsibility for any errors in this brochure. Bointec reserves the right, without notice, to make changed in product design or specifications.