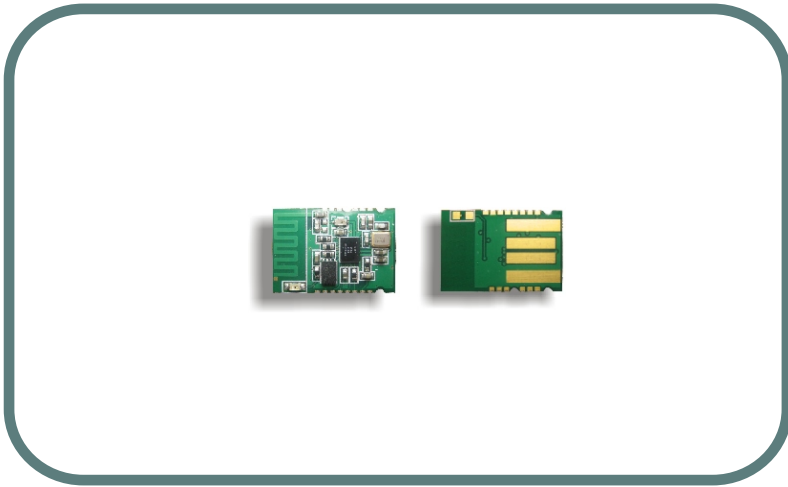




# BSW403C

Bluetooth 4.0 SMT Module Industrial Grade



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

Dimension	
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, $\pi/4$ -DQPSK and 8-DPSK (TBD)
Frequency Range	2.402~2.480 GHz
Transmit Output Power	$0 \leq \text{Output Power} \leq +10$ , typical 9.7dBm; Class 1 Device
Receiver Sensitivity	-91 dBm (typ.) for $\pi/4$ -DQPSK, 0.1%BER (TBD)
Antenna	PCB antenna

## USB Interface

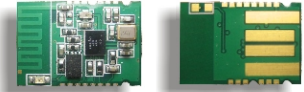
Standard	USB 2.0
Data Rate	Up to 12Mbps

## Environmental information

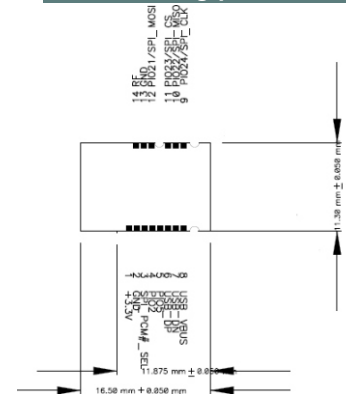
### Environment

Operating Temperature	-30° ~ 85°C
Storage Temperature	-40° ~ 85°C

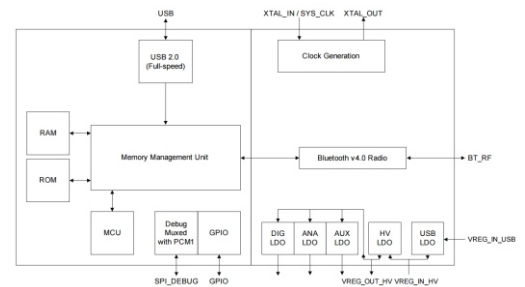
## Product quick glance



## ME Drawing/placement



## Block diagram



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