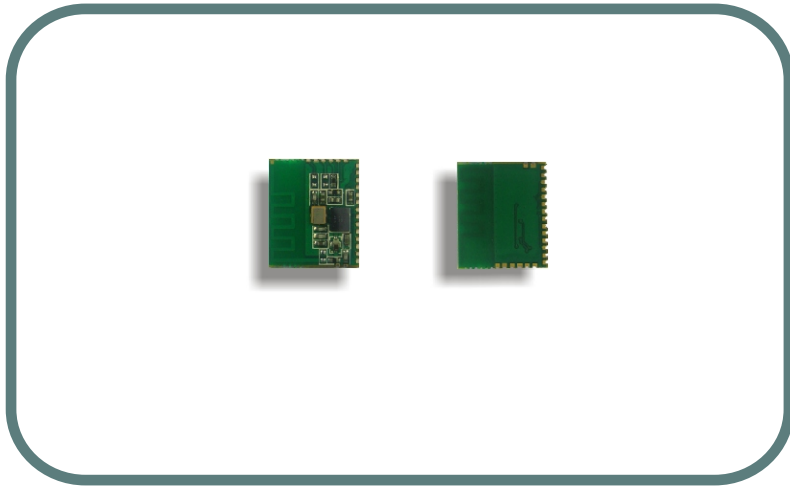


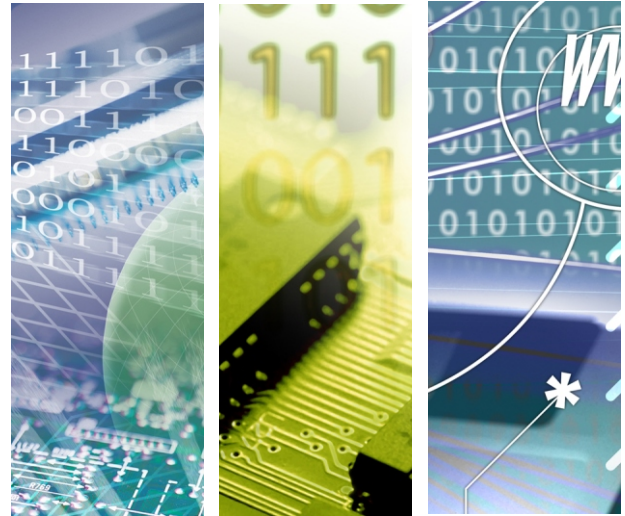


# BSW402C

Bluetooth 4.0 Dual Mode SMT Module



2.4GHz Bluetooth 4.0 Dual Mode SawEdge Module



BSW402C

## Introduction of Products

Bointec BSW402C is CSR single-chip radio and baseband IC solution for Bluetooth 2.4GHz systems including EDR to 3Mbits/s and Bluetooth low energy. BLE allows mobile devices to exchange simple data sets with very low consumption. Example use cases include watches, medical sensors and fitness trainers that can operate for many years from a small coin cell battery.

## Product Highlight

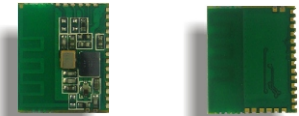
- Bluetooth Low Energy available with CSR8811WLCSP
- Bluetooth v4.0 specification
- Dual-mode Bluetooth®/Bluetooth low energy radio
- Can form part of Bluetooth v4.0 + HS system
- Class 1 or Class 2 Bluetooth power levels
- High-sensitivity Bluetooth and Bluetooth low energy receiver
- Full-speed Bluetooth operation with full piconet and scatternet support
- On-chip balun and minimal BOM
- Low-power selectable 1.2 to 3.6V I/O
- Integrated I/O and core regulators
- High-speed UART port (up to 4Mbps)
- Two PCM/I<sup>2</sup>S digital audio interfaces
- Support for IEEE 802.11 coexistence



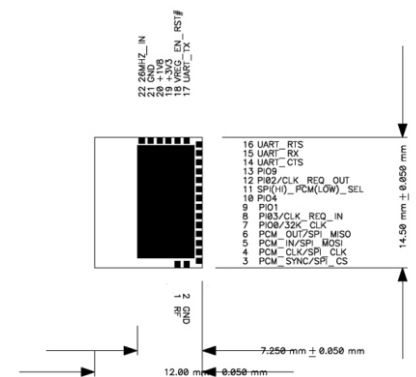
# Specification

General Specification		
<b>Bluetooth</b>		
Standard	Bluetooth V4.0LE, V3.0+HS, V2.1+EDR; Bluetooth v4.1 specification compliant	
Data Rate	Up to 24Mbit/s (TBD)	
Modulation Scheme	$\pi/4$ DQPSK, 8 DPSK	
Frequency Range	2.402~2.480 GHz	
Transmit Output Power	0 ≤ Output Power ≤ +10, typical 9 dBm; Class 1 Device	
Receiver Sensitivity	-95 dBm (typ.) for $\pi/4$ DQPSK, 0.1%BER	
Antenna	PCB antenna	
<b>UART Interface</b>		
Maximum Baud Rate	Up to 4Mbps	
<b>Dimension</b>		
Item	Dimension	
With PCB Antenna	14.5mm x 12mm x 1.8mm	
Without PCB Antenna	14.5mm x 7.25mm x 1.8mm	
<b>Electrical Characteristic</b>		
Operating Condition	Min	Max
Operating temperature range	-30°C	85°C
VBAT operation	2.3V	4.8V
Low-voltage operation	1.75V	1.95V
I/O supply voltage	1.2	3.6V
VREG_EN_RST#	VSS_PADS	VDD_HOST
<b>Environmental information</b>		
<b>Environment</b>		
Storage Temperature	-40° ~ 85°C	
Operating Temperature	-30° ~ 85°C	

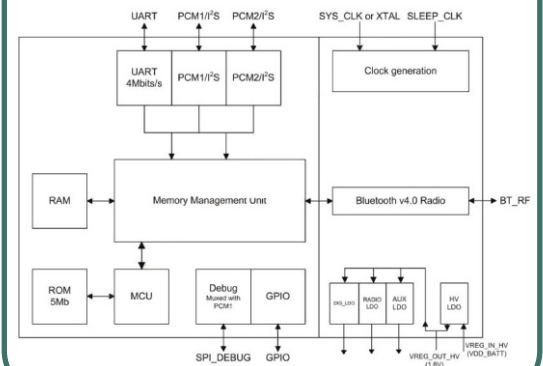
## Product quick glance



## ME Drawing/placement



## Block diagram



## Ordering Information

PART NUMBER	DESCRIPTION
TFGA-BSW402C0-11	non packaing,Bluetooth 4.0 Dual Mode SawEdge Modue



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