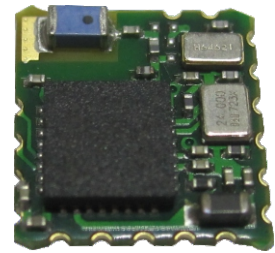


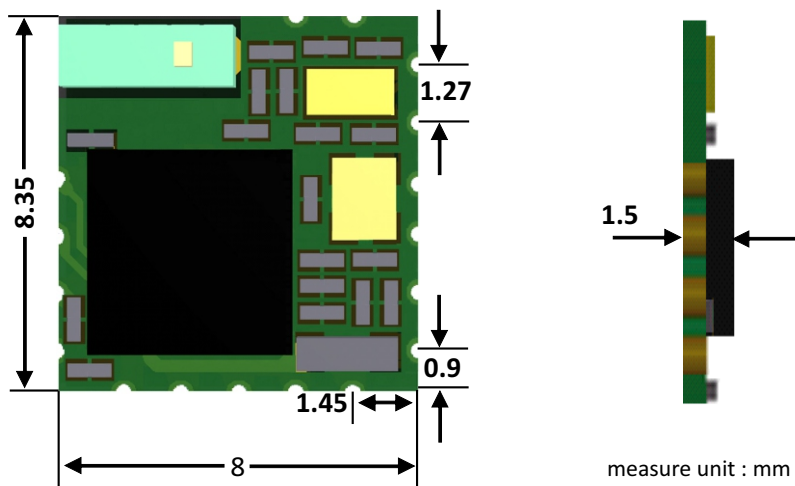
## RC-CC2640-A based on TI CC2640



### IoT Bluetooth Module based on CC2640 Texas Instrument

**RC-CC2640-A** is designed based on CC2640R2F128 Bluetooth Smart (Bluetooth 4.2 and Bluetooth 5.0) System-on-Chip, fully supports the single mode Bluetooth Low Energy operation. The module provides the ability to either put your entire application into the integrated ARM Cortex M3 microcontroller, or use the module in Network Processor mode in conjunction with the microcontroller of your choice.

### Mechanical Drawing and dimensions



### Feature

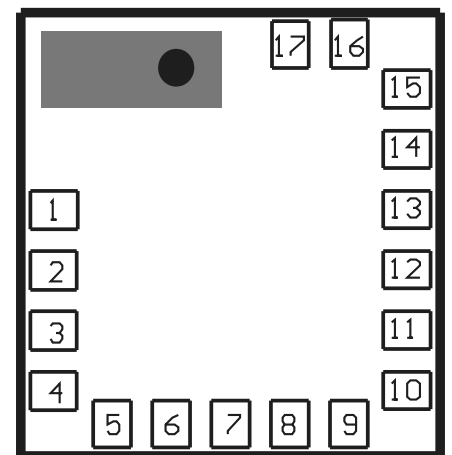
- Bluetooth 4.2, Single mode compliant-Supports master and slave modes
- Build in CC2640R2F128 Bluetooth Smart System-On-Chip
- RF Performance: TX Power: +2dBm    RX Sensitivity: -87 -94dBm
- Ultra low current consumption
  - Transmit current(0dBm): 6.1mA
  - Receiving current: 5.9mA
- Size: 8mm×8.35mm×1.5mm

## 1.0 Technical Specifications

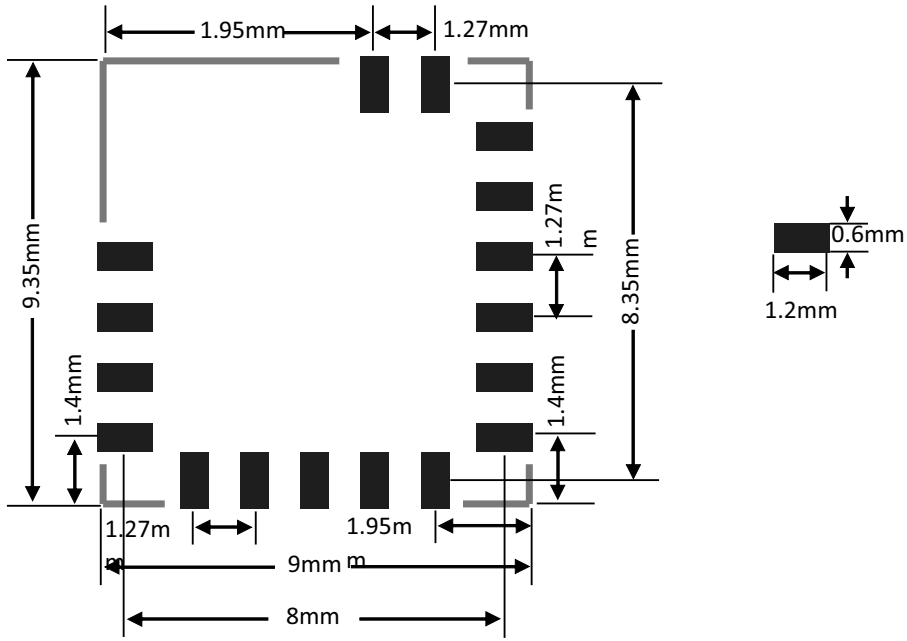
Characteristics	MIN	MAX	UNIT
Operation Voltage	1.8	3.8	VDC
Operating Temperature	-40	85	°C
Current Consumption	BLE Advertising (Interval 100mS)	0.23	mA
Current Consumption	BLE Connection (Interval 30mS)	0.35	mA
Current Consumption	BLE Connection (Interval 50mS)	0.22	mA
Current Consumption	BLE Connection (Interval 100mS)	0.12	mA
Current Consumption	BLE Connection (Interval 500mS)	0.02	mA
Current Consumption	Sleep Mode	1	µA
TX Power	-20	2	dBm
RX Sensitivity	-87	-94	dBm
Storage Temperature	-40	150	°C

## 2.0 Terminal description

Pads	Name	Description
1	JTM	JTAG TMSK
2	JTC	JTAG TCKC
3	VDDS	1.8V to 3.8V Power Supply
4	GND	Ground
5	DIO 3	GPIO, High drive capability, JTAG_TDO
6	DIO 4	GPIO, High drive capability, JTAG_TDI
7	DIO 5	GPIO, Sensor Controller, Analog
8	DIO 6	GPIO, Sensor Controller, Analog
9	DIO 7	GPIO, Sensor Controller, Analog
10	RSET	Reset, active-low (No internal pullup)
11	DIO 8	GPIO, Sensor Controller, Analog
12	DIO 9	GPIO, Sensor Controller, Analog
13	DIO 2	GPIO, Sensor Controller, High drive capability
14	DIO 1	GPIO, Sensor Controller, High drive capability
15	DIO 0	GPIO, Sensor Controller, High drive capability
16	GND	Ground
17	GND	Ground



### 3.0 Recommended pcb layout



### 4.0 Soldering recommendations

