

## 1. General description

The BLE Bee is a Bluetooth 4.0 BLE and compatible with Xbee. You can use it with Arduino and other MCU. Using with our APP, you can easily control robot, drone and others by BLE.

Adopting TI CC2540 chip with 256 KB space, the BLE Bee module can use BLE technology through the simple IO control, between the module and mobile, also between the module and module. The BLE module has both Master and Slave Mode, with the command control, through the serial port capable of switching module master-slave role, capable of configuring the serial port baud rate, capable of modifying the module radio name, capable of modifying the broadcast interval and the connection interval. Using this module, users can quickly transmit data in the form of Bluetooth packet.



## 2. **Features**

- Small size, light weight, UART interface, compatible with Bee Adapter
- Develop bands, working band of 2.4GHz
- Wireless transfer rate up to 1Mbps
- Using PCB antenna, the reliable transmission distance greater than 50 m
- BLE protocol depth optimization, standby power 60 ~ 800uA
- Master-Slave in one, arbitrarily switching
- Supporting Android 4.3, IOS, PC
- Operating voltage: 3.3V
- Dimension: 26\*34mm

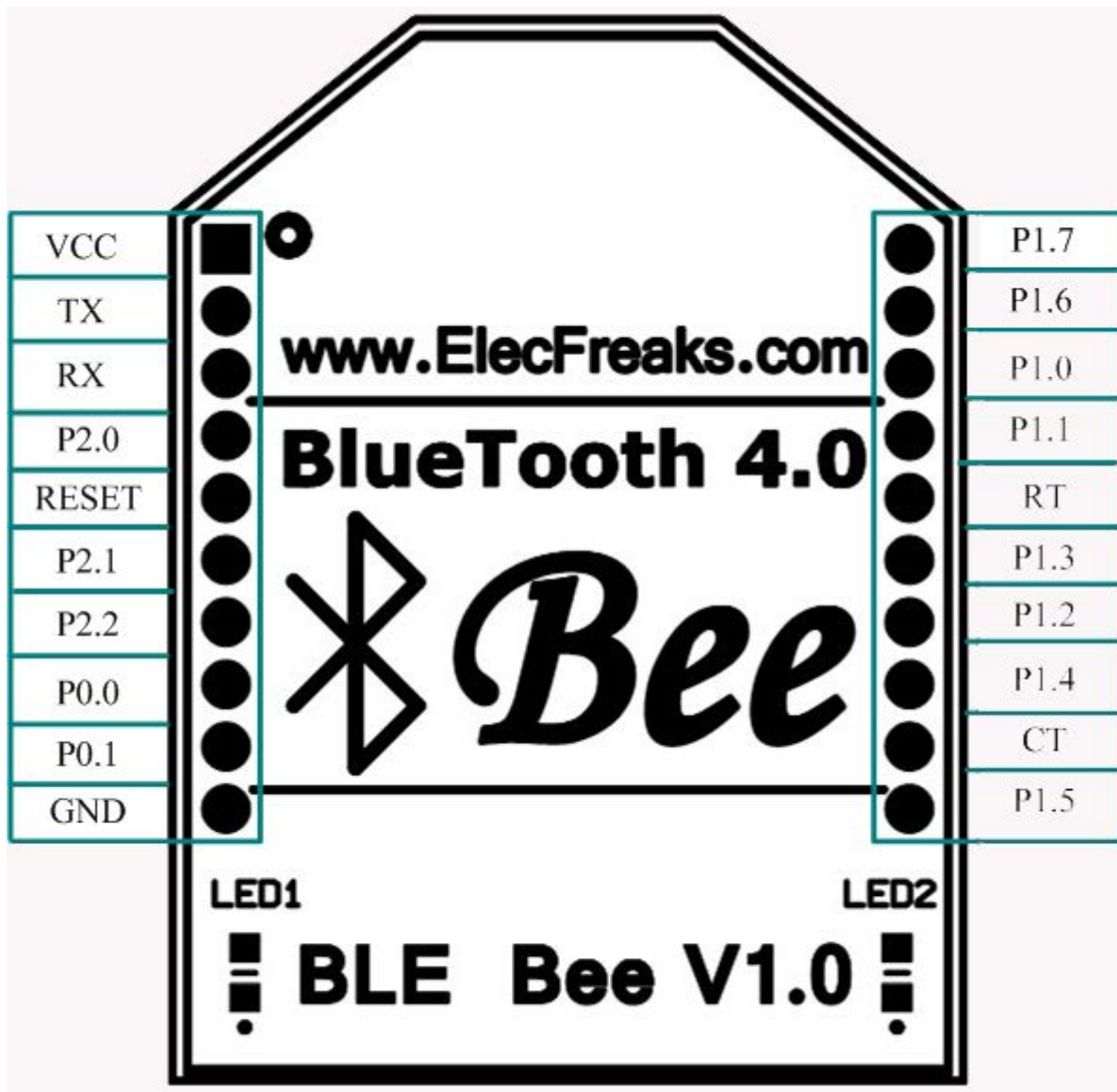
## 3. **Application**

- POS system, Bluetooth keyboard, mouse, gamepad
- Industrial remote control, telemetry
- Automotive testing equipment
- Portable, battery-powered medical equipment
- Automated data collection
- Bluetooth remote control toys
- Wireless LED Display System
- Bluetooth Printer
- Smart home, industrial control

## 4. **Electrical Characteristics**

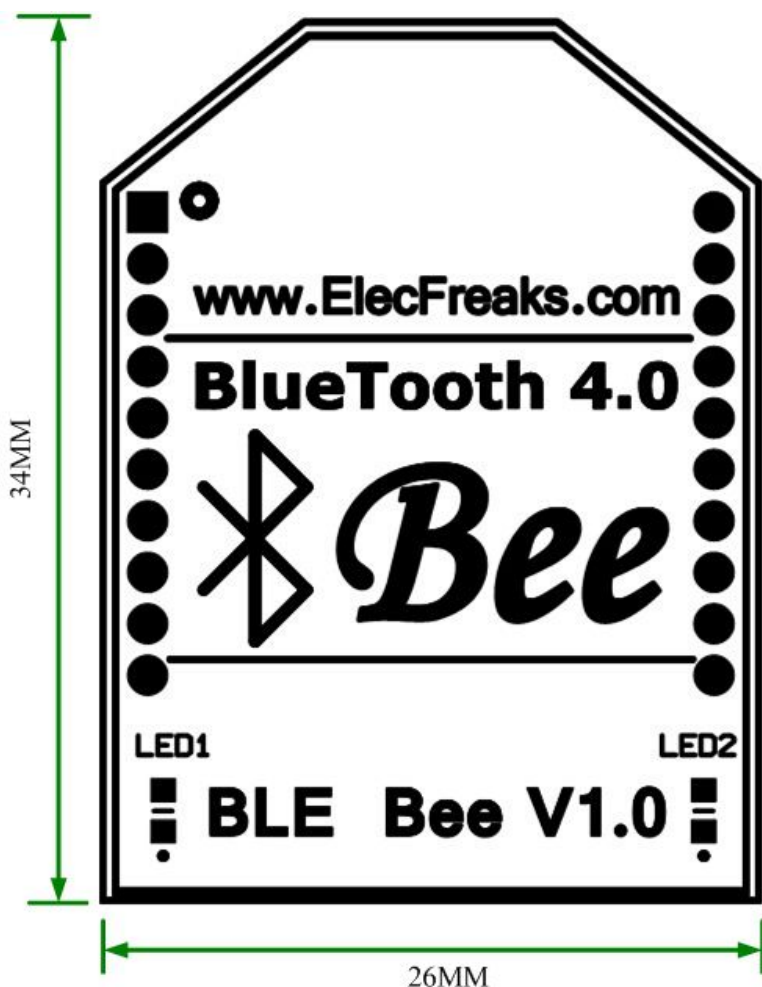
PARAMETER	MIN	TYP	MAX	UNIT
Power Supply Voltage	3	-	3.5	V
Power Supply Current	1.5	100	2000	mA
High-Level Input Voltage	3	3.3	3.5	V
Low-Level Input Voltage	-0.3	0	0.5	V

## 5. Pinning information



TYPES	Symbol	Description
	VCC	3.3V Power Supply
	TX	Communication Pin TX
	RX	Communication Pin TX
	P2.0	Port 2.0
	RESET	Reset
	P2.1	Port 2.1
	P2.2	Port 2.2
	P0.0	Port 0.0
	P0.1	Port 0.0
<b>BLE pin</b>	GND	Power Ground
	P1.7	Port 1.7
	P1.6	Port 1.6
	P1.0	Port 1.0 20-mA drive capability
	P1.1	Port 1.1 20-mA drive capability
	RT	RT
	P1.3	Port 1.3
	P1.2	Port 1.2
	P1.4	Port 1.4
	CT	CT
	P1.5	Port 1.5

## 6. Dimension



## 7. Revision history

REVISION	DESCRIPTION	RELEASE DATE
V1.4	Initial version	6/23/2014

## 8. Contact information

If you need more information, please refer to: <http://www.electfreaks.com>