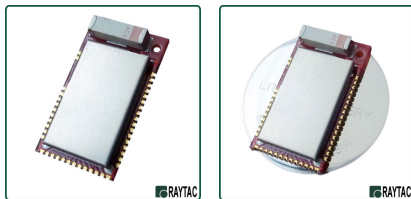
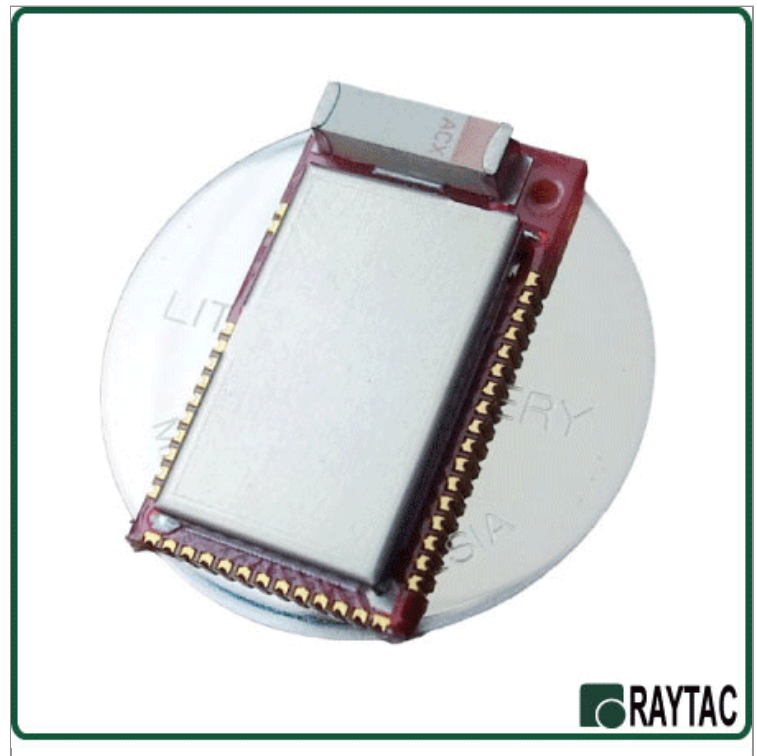


## MDBT40 (BT4.1 Module) 藍芽模組

- + Long Working Distance: MDBT40 Series: Over 80 meters in open space.
- + Memory: 256KB or 128KB embedded flash programmed memory; 16KB RAM or 32KB RAM
- + Compact size with (L) 18 x (W) 10 x (H) 3.2 mm
- + 42pin (SMD) module



### Introduction :

Raytac's MDBT40 is a BT4.0 & BT4.1 stack (Bluetooth low energy or BLE) module designed based on Nordic nRF51822 SoC solution incorporates: GPIO, UART, I2C and ADC interfaces for connecting peripherals and sensors.

#### The Merit of Raytac MDBT40 Module:

1. Long Working Distance (Over **80M** in open space)
2. Declaration ID already included all Nordic applied profiles.
3. FCC (USA) & Telec (Japan) certificate & CE(EU) granted.

#### The feature of the module:

1. Dual Transmission Mode of BLE & RF 2.4G upon customer preference.
2. Compact size with (L)18x(W)10x(H)3.2mm
3. Low power requirements, ultra-low peak, average and idle mode power consumption.
4. Compatible with a large installed based of mobiles phones, tablets and computers.
5. Fully coverage of BLE software stack including:  
Proximity Profile; Heart Rate Profile; Health Thermometer Profile;  
Blood Pressure Profile; Running Speed & Cadence Profile;  
HID Over GATT Profile; Alert Notification Profile; Glucose Profile;  
Cycling Speed & Cadence Profile  
Fully support customers to suit the needs of any application!
6. BLE & RF transmission switching may help products to fit all operation system

7. BLE & RF transmission switching may help products to fit all kinds of hardwares.

## Applications :

### • Computer peripherals and I/O devices

1. Mouse
2. Keyboard
3. Multi-touch trackpad

### • Interactive entertainment devices

1. Remote control
2. 3D Glasses
3. Gaming controller

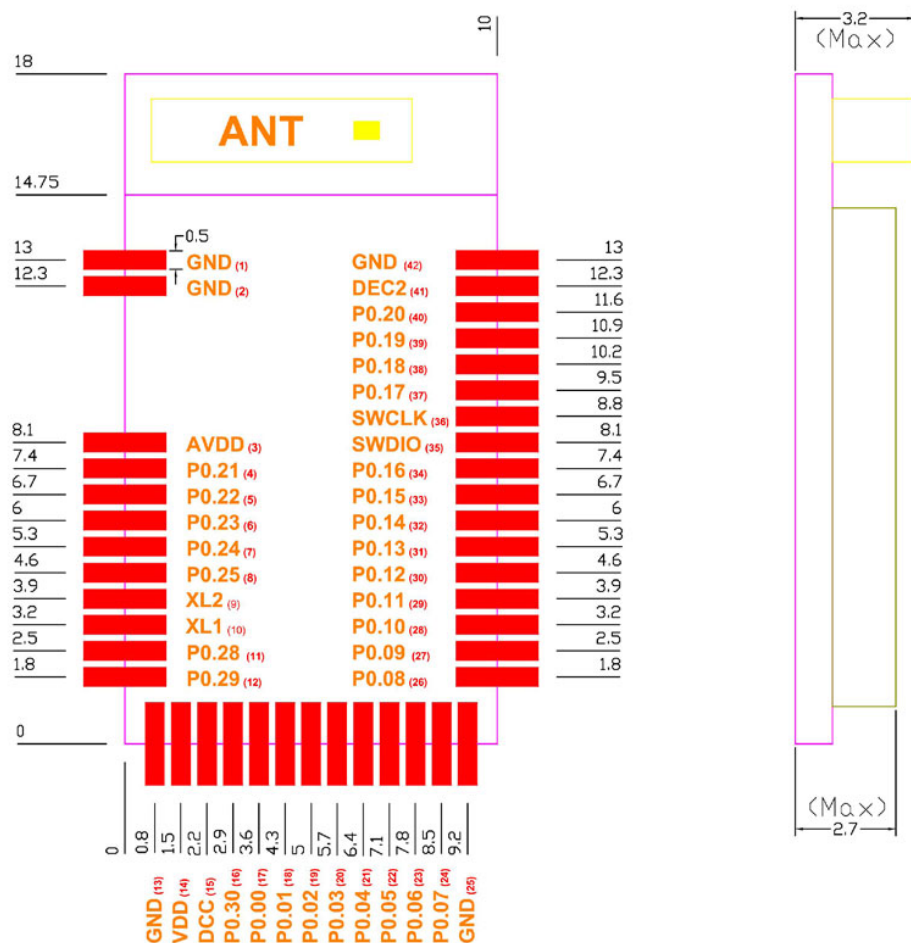
### • Personal Area Networks

1. Health/fitness sensor and monitor devices
2. Medical devices
3. Key-fobs + wrist watch
4. Remote control toys

## Dimension & Pin:

### MDBT40 Serial (in mm)

[Click to see large image!](#)



## Specification:

[MDBT40 & MDBT40-P Spec\(Ver.A4\)](#)

## Certificate:

### BQB Certificate

[Click to see large image!](#)



## Related Links:

- **Nordic** <https://www.nordicsemi.com/eng/Products/3rd-Party-Bluetooth-low-energy-Modules>  
(Raytac's MDBT40 module is a qualified Nordic 3<sup>rd</sup> Party Bluetooth low energy module, please go following website for more detailed information.)