



ITON Technology Corp.

# User Guide

Customer Name: ITON Technology Corp.

Product Name : SIM Card Extender

Model Name:VTL-BC03

FCC ID:VYVVTL-BC03



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## 1 Product Brief

### 1.1 Introduction

This product is a new design combined with Bluetooth and Modem technologies. Connect to Apple devices through Bluetooth, use App to achieve second SIM card phone call and SMS functions.

### 1.2 Compatible Systems

iOS 7.0 and newer

iPhone 4S and newer devices.

## 2 Product Appearance





## 3 Electrical Specification

### 3.1 Product Solution

MTK solution, Baseband chipset MT2502A

### 3.2 Modem Performance Index

Network Type: GSM

Network Frequency: GSM850MHz/EGSM900MHz /DCS1800MHz/ PCS1900MHz

Transmitting Power: 850/900MHz: 32.5dBm,

1800/1900MHz: 29.5dBm

Sensitivity: <-108dBm

### 3.3 Bluetooth Specification

Working Frequency 2.402GHz - 2.480GHz

Bluetooth Standard BT4.0 (BLE)

Power Class Class 1

Receiving Sensitivity - 88dBm

### 3.4 Power Consumption

Power Off Current 0.2mA/h



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Standby Current 4.5mA/h

Phone Call Current Avg. 100mA/h (vary to network condition)

Working Voltage 3.5V~4.2V

USB Charging Voltage DC5V

P.S: Min 400mAh battery capacity is recommended.

## 3.5 DIP Materials

### 1. SIM Card Type

Micro SIM

### 2. USB Type

Micro USB

## 3.6 Environment Requirement

**Working Temperature: -20~+60°**

## 4 User Guide

4.1 Go to <http://www.pgyer.com/tedcall> on iPhone Safari, to download Tedcall APP

4.2 Enter product into Pairing mode, Color LED flashing to indicate

4.3 Go to Tedcall Setting---Search Devices to search and find devices named as Tedcall-ffff

4.4 Click device found to connect, there will be a beeping sound to indicate, Color LED stop flashing.

When Network Carrier's name listed on top area of App, SIM card is successfully registered, you can access Phone Call, SMS, Remote Camera Shot functions.



4.5 When GSM is offline, Green LED will flash 0.5S/time; When Bluetooth is disconnected, Beeping sound will occur, user can customize the beeping period in App's Setting, and Red& Green LED will flash.

4.6 When Bluetooth is disconnected, there will be beeping sound 3 times/0.5S, and stop for 0.5S, green LED will be on.

## 5 Physical Character

PCBA Size

PCB: L \* W \* T = **44.1mm \* 31.1mm \* 2.6mm**

Material & Layers: **FR-4, Immersion Gold, 4 layers**

Weight:

## 6 Packing

Please refer to the physical device.



## 7 Reliability and Electromagnetic Compatibility Requirements

### 7.1 ESD

Contact Discharge     ±4KV     ±6KV     ±8KV     Others \_\_\_\_\_

Air Discharge         ±8KV     ±12KV     ±15KV     Others \_\_\_\_\_

### 7.2 Safety and Electromagnetic Compatibility Requirements

FCC ID         CE

# Application

## 1.App phone etc. portable device





## 2 Unpacking

To unpack the access point, follow these steps:

- 
- Step 1** Unpack and remove the access point and the accessory kit from the shipping box.
- Step 2** Return any packing material to the shipping container and save it for future use.
- Step 3** Verify that you have received the items listed below. If any item is missing or damaged, contact your Cisco representative or reseller for instructions.
- The module VTL-BC03
  - Mounting bracket (selected when you ordered the access point)
  - Battery (selected when you ordered the access point)
  - Antennas (selected when you ordered the access point)
- 

## 3 External Antennas

The Module has no own antennas,so you need selected the GSM and BT antenna when you install the module into the host device.

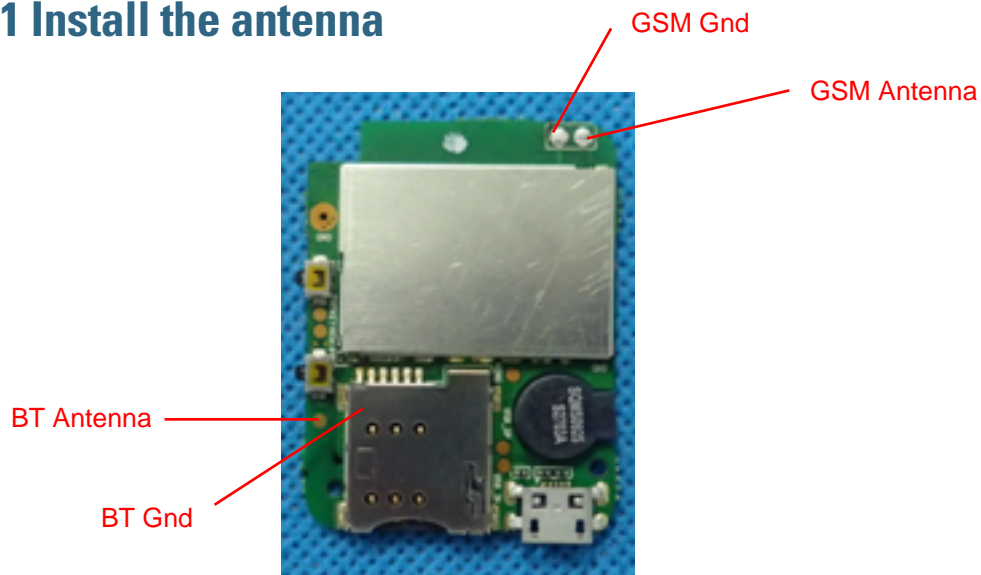
We highly recommend to us those antenna as follow:

BT Antenna: Wire Antenna,max gain 1dBi

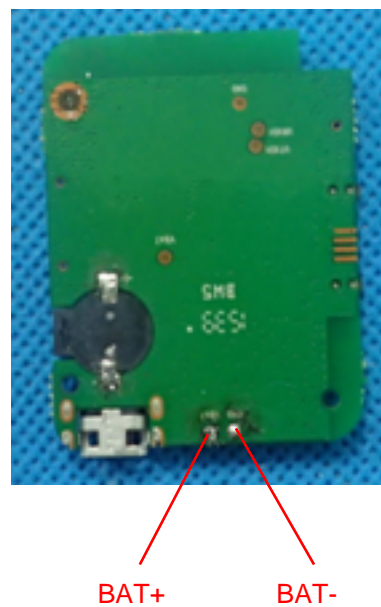
GSM Antenna: PIFA Antenna,max gain 1dBi

## 4 Access Point Ports and Connectors

### 4.1 Install the antenna



### 4.2 Install the Battery

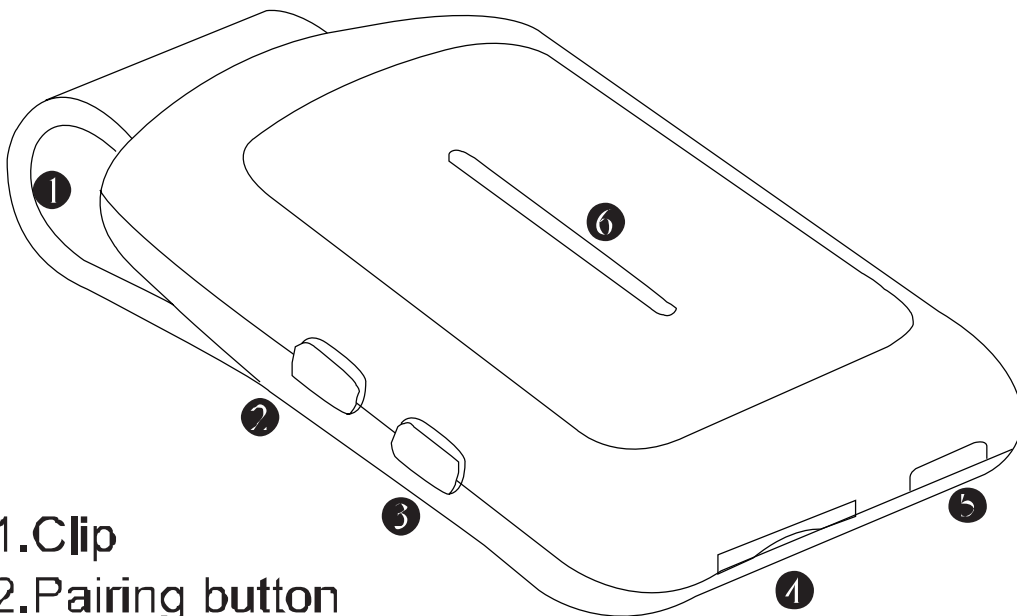


Note: Please used DC 3.7V,400mAh battery.

### 4.3 Install the module into host device

1. Open the host device.
2. Put the module that install the antenna and battery into the host device
3. Used the mounting bracket to fixed the module.
4. Close the host device.

### 4.4 finished product



**1.Clip**

**2.Pairing button**

Long press 5 seconds to power on, long press 3 seconds to power off.

**3.Camera shutter button**

Single press to take photo

**4.SIM card slot**

Micro SIM

**5.Micro USB charging port**

**6.LED indicator**

Red & Green dual color

## 5 Installation Summary

- install the antennas
- install the battery
- Install the module into host device
- Install the SIM Card.

Finished, Now you can use your app phone.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

(OEM) Integrator has to assure compliance of the entire end-product incl. the integrated RF Module. Additional measurements (15B) and/or equipment authorizations (e.g Verification) may need to be addressed depending on co-location or simultaneous transmission issues if applicable.

Integrator is reminded to assure that these installation instructions will not be made available to the end-user of the final host device.

About the SAR information, please check the FCC ID: VYVVTL-BC03 on fcc website.

The final host device, into which this RF Module is integrated" has to be labelled with an auxiliary label stating the FCC ID of the RF Module, such as "Contains FCC ID: VYVVTL-BC03".

If the module is used in "portable" equipment (FCC definition) then the integrator need to follow a C2PC procedures or a new certification.

The integrator of this module will be responsible to comply with the appropriate SAR Exposure requirements. In order to demonstrate compliance a full SAR exposure assessment need to be performed which shall then be used in a subsequent Class II Permissive Change or complete new certification the integrator is responsible to perform.

Because the module is NOT equipped with an antenna the integrator is free to choose an antenna whereas. However as a consequence of this choice a Class II Permissive Change or a new Certification need to be performed by the integrator. The maximum antenna gain for both, the GSM and Bluetooth antenna, shall not exceed 1dBi.