BTC100 User manual

Revision: 1.00

http://www.queclink.com
sales@queclink.com

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0. Revision History

Revision	Date	Author	Description of change
1.00	2016.5.18		Initial

1. Introduction

BTC100 is designed for detecting acceleration or deceleration record on a vehicle by its internal accelerometer, then transmitting the relevant data(x, y, z axis) to the mobile phone APP via bluetooth. It can also detect Ignition ON/OFF events in which it is tethered to. On the surface of BTC100, there is a rechargeable USB interface (output voltage: 5V) is convenient for us to charge our phone or other device. In addition to the above, it within the super-cap can regard as a battery, the super-cap could support the device for 48 hours when it's full of electricity and without outlet.

Note: This product has assumed that communication with sensor is limited to BT Low Energy, and Classic BT is not supported.

2. Product Overview

2.1. Appearance

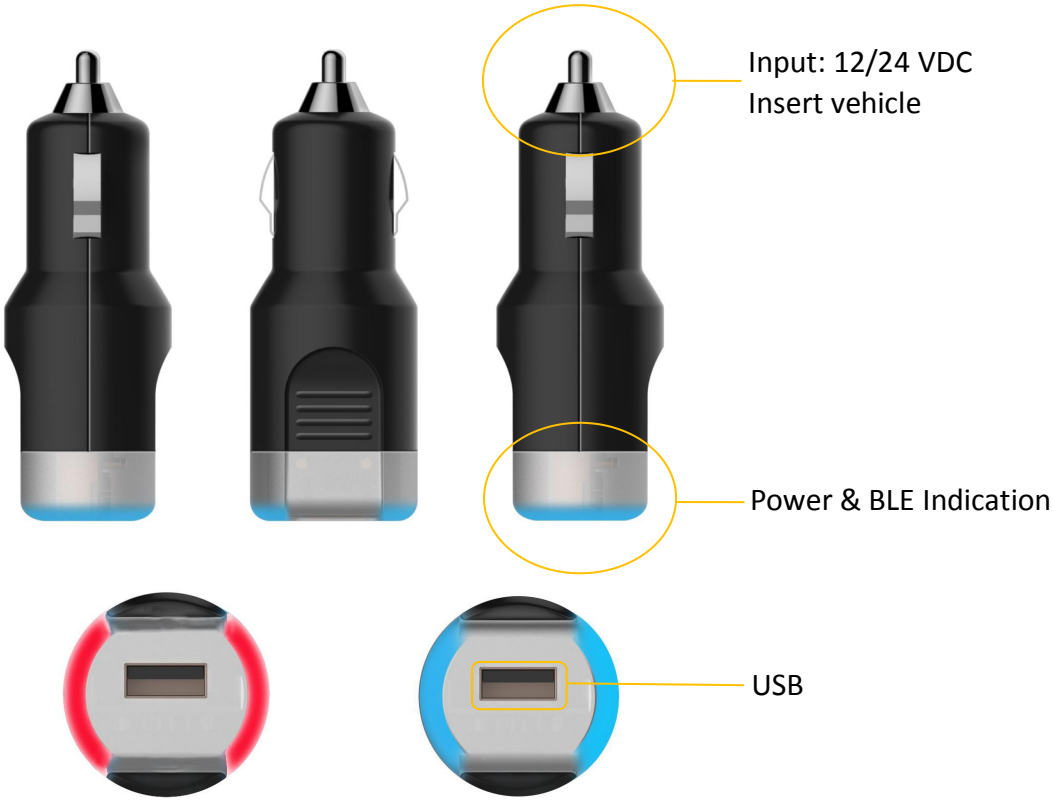


Figure 1

Power Indication

Figure 2

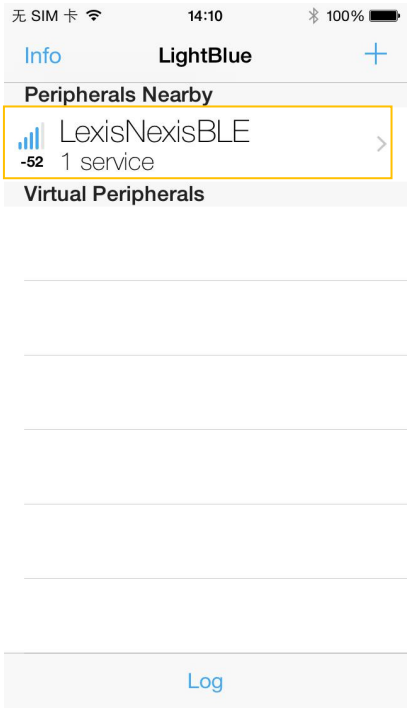
BLE Indication

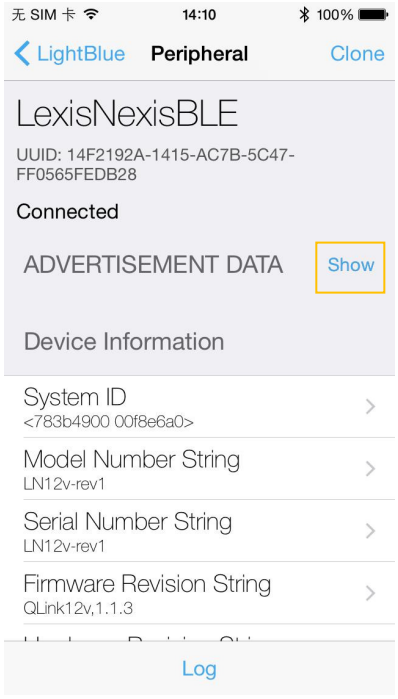
2.2. BLE Description

1. Supply 12/24 VDC or insert vehicle, then the LED will be red. As shown in figure 1.

2. Pair and Link BLE to phone without password,the LED will be blue. As shown in figure 2. The specific steps and simple function are as follows.

- Look at figure 3, clink selected area to connect BLE. If connect successfully , it will be figure 4, at the same time LED are blue.
- Clink “Show” in figure 4, there will display an UUID which you connected and local name. For example, please look at figure 5,there is Telematics Service UUID.





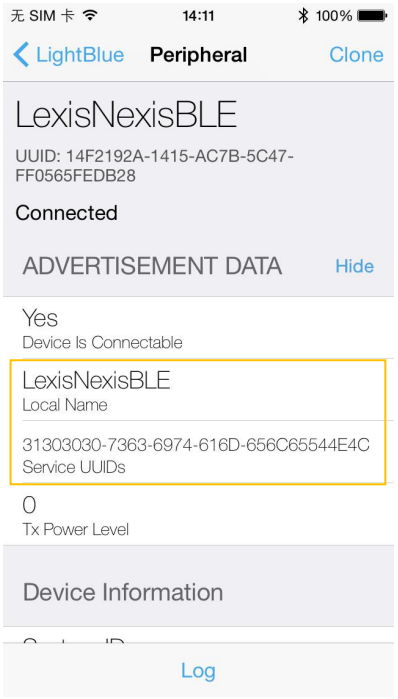
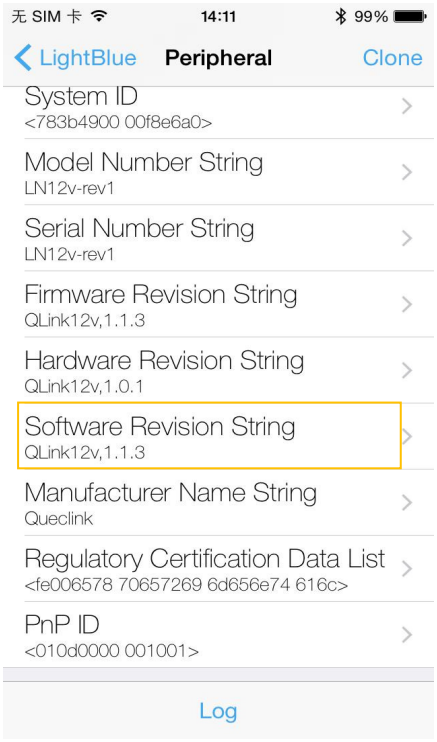


Figure 3 **Figure 4** **Figure 5**

- Read function. Look at figure 6 and figure 7, clink “Soft Revision String”, then clink” Read again”, if display a right string which indicate OK.



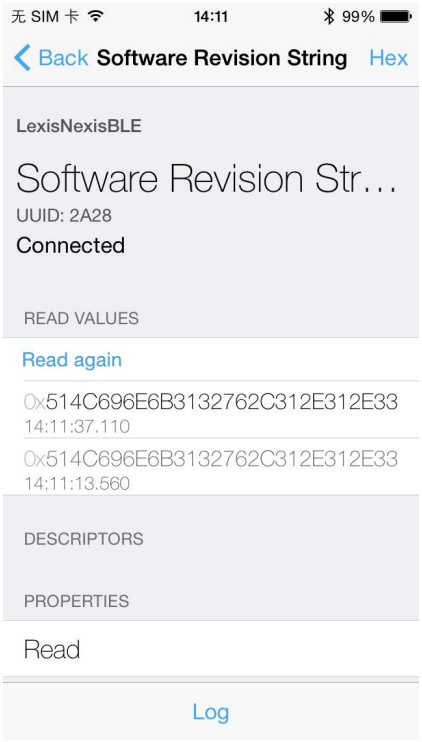


Figure 6 **Figure 7**

- Write function, Look at figure 8 . For example ,write a primary UUID, if it can be advertised which indicate OK, as shown in figure 9.

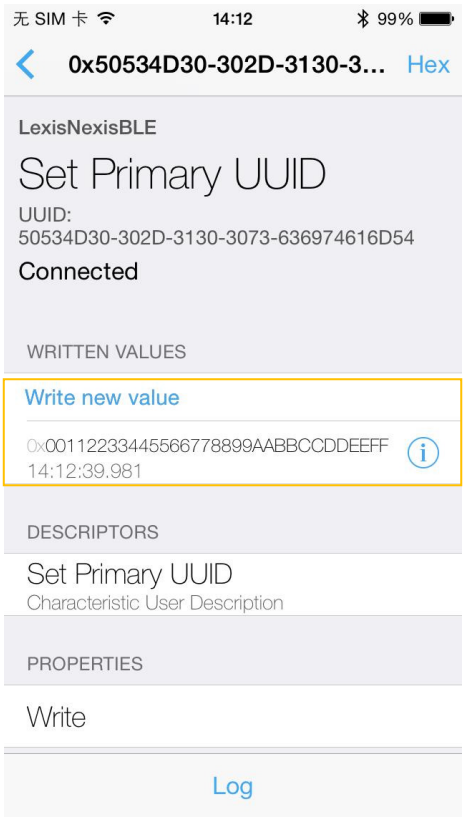


Figure 8

Figure 9

2.3. USB Interface Description

The USB can be connected with our phone or other device for charging by general data cable.

USB interface	Output voltage	5V
	Output max current	2.1A

2.4. LED Description

There are several LEDs (red and blue double color) indicate power and BLE state in BTC100, the description as following.

LED	Power on and normal	Red
	Connected bluetooth	Blue
	Disconnect bluetooth	Red
	Power off	Dark

FCC warning

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

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.

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.

RF exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment .The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.