

BTC100 User manual

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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



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.

BTC100 User manual



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Info LightBlue	+	LightBlue	Peripheral	Clone	LightBlue	Peripheral	Clone
Peripherals Nearby LexisNexisBLE -52 1 service Virtual Peripherals	>	LexisNe, UUID: 14F2192/ FF0565FEDB28 Connected	xisBLE A-1415-AC7B-5C4	7-	LexisNe UUID: 14F2192/ FF0565FEDB28 Connected	XISBLE A-1415-AC7B-5C47	7_
		ADVERTIS	EMENT DATA	Show	ADVERTIS	EMENT DATA	Hide
		Device Info	ormation		Yes Device Is Conne	ectable	
		System ID <783b4900 00f	8e6a0>	>	LexisNexisE Local Name	BLE	
		Model Num LN12v-rev1	ber String	>	31303030-736 Service UUIDs	3-6974-616D-6560	065544E4C
		Serial Numb LN12v-rev1	per String	>	0 Tx Power Level		
		Firmware R QLink12v,1.1.3	evision String	>	Device Info	ormation	
Log			Log			Log	

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.

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LightBlue Peripheral	Clone	Back Software Revision String Hex			
System ID <783b4900 00f8e6a0>	>	LexisNexisBLE			
Model Number String		Software Revision Str			
Serial Number String	>	UUID: 2A28 Connected			
Firmware Revision String QLink12v,1.1.3	>	READ VALUES			
Hardware Revision String	>	Read again			
Software Revision String	>	0x514O696E6B3132762C312E312E33 14:11:37.110			
Manufacturer Name String		0x514C696E6B3132762C312E312E33 14:11:13.560			
Queclink	>	25202127020			
Regulatory Certification Dat <fe006578 616<="" 6d656e74="" 70657269="" td=""><td>ta List 🍌 ^{Sc>}</td><td>DESCRIPTORS</td></fe006578>	ta List 🍌 ^{Sc>}	DESCRIPTORS			
PnP ID <010d0000 001001>	>	Read			
Log		Log			

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.





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.