



**FEASYCOM®**

# **FSC-BP119**

**FeasyAdapter - 100m USB-Bluetooth Adapter**

**Version 1.3**

shenzhen Feasycom Technology Co., Ltd  
**FEASYCOM®**

Shenzhen Feasycom Technology Co., LTD

Email: [support@feasycom.com](mailto:support@feasycom.com)

Direct Tel: 086 755 23062695

Skype: Feasycom Technical Support

## Main Features

- CSR 8510A10 chipset
- 100m work range
- Plug and Play
- Support Windows 10/8/7, Vista, XP, Linux, Mac OS, For other POSIX platform (such as Android), Please contact Feasycom for support



## Introduction

FeasyAdapter USB is a Class 1 Long Range Bluetooth Smart Ready USB Adapter. With Bluetooth 4.0 capabilities, gives you high quality music and data transmission experience with no packet loss or data delay at the speed of 3 Mbps.

FeasyAdapter USB adopts the powerful CSR8510A10 chipset, with a 2 dBi RP dipole antenna, the work distance can reach up to 100 m.

FeasyAdapter USB supports plug and play and high compatibility for windows 10/8/7, Vista, XP 32 bit/64 bit, potentially opens up a whole new realm of possibilities in wireless communication application.

## Specifications

Model	FSC-BP119
Chipset	CSR8510A10
Bluetooth version	V4.0 dual mode
Transmission frequency	2.402 - 2.480 GHz
Transmission Rate	Up to 3.0 Mbps
Transmission range	Up to 100 m (328 ft) In open air
External antenna gain	2 dBi
Antenna interface	SMA
Transmit power	18.5 dBm (Class 1)
Profiles	HFP 1.5, HSP 1.2, AVRCP 1.4, A2DP 1.2
Driver software	CSR Harmony Wireless Software Stack
OS	Windows 10/8/7, Vista, XP
Product size:	60.9 * 16 mm

## Mode Selection

The factory default mode of FSC-BP119 could be HID mode or HCI mode.

- HCI Mode: Standard HCI interface, work with host platform's own Bluetooth stack (tested on Windows 10, Ubuntu 14.04, macOS Mojave)
- HID Mode: Only available on Windows OS and, work with "CSR Harmony Wireless Stack".

"CSR Harmony Wireless Stack" supports not only standard Bluetooth stack but also BLE keyboard and/or mouse. For more information, refer to "CSR8510 A10 USB Dongle Application Note.pdf"

Mode Switch:

- User can switch from HID mode to HCI mode (tested on Windows & Linux)
- User cannot switch from HCI mode to HID mode.

**Warning: Please comment with desired operating mode when purchasing, the default mode is HCI mode**

## Work on Windows

### 1. HCI Mode

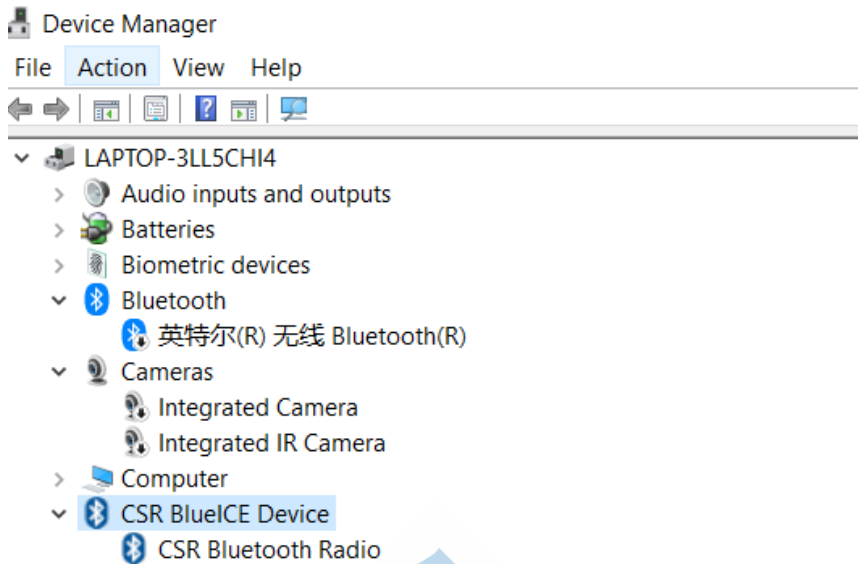
When FSC-BP119 inserted, it would be found in the Device Manager like this:



### 2. HID Mode

#### 2.1 Install CSR Harmony Wireless Stack

When FSC-BP119 inserted, it would be found in the Device Manager like this:

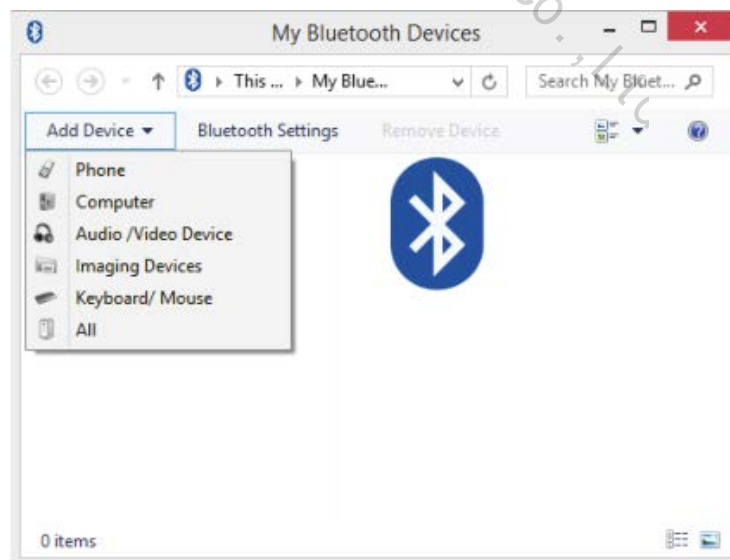


## 2.2 Pairing

(1). Right click the Bluetooth icon  in the notification area and select **Show Bluetooth Devices**.



(2). Click **Add Device** and select, for example, Audio/Video device.



### 3. Switch HID to HCI Mode

Use hid2hci.exe app to switch the FSC-BP119 to HCI mode

3.1 Uninstall “CSR Harmony Wireless Stack” may required before the following step

3.2 Open Command Prompt

```

Command Prompt - hid2hci.exe
Microsoft Windows [Version 10.0.17134.590]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\tony>cd C:\Users\tony\Desktop\BP119\hci2hci tool for windows

C:\Users\tony\Desktop\BP119\hci2hci tool for windows>hid2hci.exe
*****
*****hid2hci*****
*****
hid2hci.exe success
Press any key to continue . . .
  
```

3.3 then the device working in HCI mode now

## Work on Linux

1. HCI Mode: Plug and play with Bluez Bluetooth stack

```

ubuntu:/home/work/bluez/bluez-5.50
root@ubuntu:/home/work/bluez/bluez-5.50# hcitool scan
Scanning ...
DC:1D:30:00:0F:A5      ZT0588
DC:1D:30:00:0F:B1      ZT0588
00:EC:0A:0E:A0:3F      carfei
9C:FB:D5:B2:BB:82      vivo X9
A4:44:D1:F7:66:F4      魅蓝 Note5
B4:0B:44:0F:92:E7      Smartisan T1
DC:1D:30:00:0F:B0      ZT0588.
F4:8B:32:BA:38:14      红米手机fghjj
34:D7:12:98:79:E7      坚果 3.
00:13:04:84:01:F5      FSC-BT80X.
root@ubuntu:/home/work/bluez/bluez-5.50#
  
```

2. Switch HID to HCI mode :

2.1 Test platform:

```

root@ubuntu:/home/work/bluez/bluez-5.50# uname -a
Linux ubuntu 4.4.0-31-generic #50~14.04.1-Ubuntu SMP Wed Jul 13 01:07:32 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
root@ubuntu:/home/work/bluez/bluez-5.50#
  
```

2.2 Upgrade Bluez to latest version:

```

wget http://www.kernel.org/pub/linux/bluetooth/bluez-5.30.tar.xz
tar xf bluez-5.30.tar.xz
cd bluez-5.30
./configure --disable-systemd
make
  
```

sudo make install

## 2.3 Plug in FSC-BP119 and get device path

```
root@ubuntu:/home/work/bluez/bluez-5.50#  
root@ubuntu:/home/work/bluez/bluez-5.50# dmesg  
[ 4141.245545] usb 3-2: new full-speed USB device number 10 using xhci_hcd  
[ 4141.514105] usb 3-2: New USB device found, idVendor=0a12, idProduct=100b  
[ 4141.514108] usb 3-2: New USB device strings: Mfr=0, Product=2, SerialNumber=0  
[ 4141.514109] usb 3-2: Product: CSR8510 A10  
[ 4141.537539] input: CSR8510 A10 as /devices/pci0000:00/0000:00:15.0/0000:03:00.0/usb3/3-2/3-2:1.0/0003:0A12:100B.000A/input/input14  
[ 4141.594183] hid-generic 0003:0A12:100B.000A: input,hiddev0,hidraw1: USB HID v1.11 Keyboard [CSR8510 A10] on usb-0000:03:00.0-2/input0  
[ 4141.598537] input: CSR8510 A10 as /devices/pci0000:00/0000:00:15.0/0000:03:00.0/usb3/3-2/3-2:1.1/0003:0A12:100B.000B/input/input15  
[ 4141.653989] hid-generic 0003:0A12:100B.000B: input,hidraw2: USB HID v1.11 Mouse [CSR8510 A10] on usb-0000:03:00.0-2/input1  
root@ubuntu:/home/work/bluez/bluez-5.50#
```

## 2.4 Use Bluez - hid2hci tool switch FSC-BP119 from HID mode to HCI mode

```
# /lib/udev/hid2hci --mode=hci --method=csr2 --devpath=/devices/pci0000:00/0000:00:15.0/0000:03:00.0/usb3/3-2/3-2:1.0/0003:0A12:100B.000A/input/input14  
#
```

## 2.5 Now the FSC-BP119 should be working

## Work on macOS

### 1. HCI Mode: Plug and play

Note: Hold "option" key while plug FSC-BP119 to replace the build-in Bluetooth chip if you have.

## Package include:

- FSC-BP119 \* 1
- User Manual \* 1