USB-Serial port BLE gateway

(user manual)



Model No: JW-1401GU

1, Function

USB port ble gateway, which is also called BLE sniffer, scans nearby BLE beacon data, filter data by customized rules, parse and report data to personal computer by USB port. If need to customize rules, please send email to: <u>bob@joyway.cn</u>

2, How to use

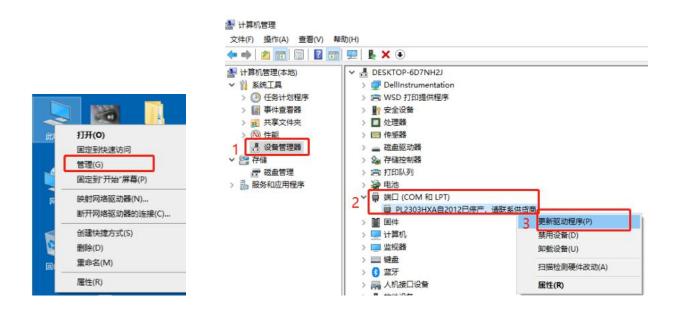
(1) Remove USB cap, insert into computer USB port, install drivers for USB device.

Download drivers for Windows 7~10: http://www.joyway.cn/download/pl2303drivers/PL2303_driver_for_Win7_Win10.zip

Note: Windows 10 may upgrade its driver to the latest version automatically in background, which says current hardware is out of date or no longer in service, thus it can not work. To solve this problem, please downgrade driver by yourself.

Step to downgrade:

(1) Plug in JW1401GU on your computer. Right click on 'Computer' icon in desktop, choose 'Manage' – > 'Device Manage', find 'Port(COM and LPT)', you can see PL2303HXA out of service since 2012. Right click it, choose update driver,



Choose 'Browse my computer to search drivers',

Choose 'Let me choose available drivers from driver list'

× 🖌 夏新驱动程序 - PL2303HXA自2012已停产,请联系供货商	★ ■ 更新驱动程序 - PL2303HXA自2012已停产, 请联系供货商
你要如何搜索驱动程序?	浏览计算机上的驱动程序
→ 自动搜索驱动程序(S) Windows 将在你的计算机中搜索最佳可用驱动程序,并将其安装在你的设备上。	在以下位置搜索驱动程序: CAProgram Files (x86))Fuji Xerox\Brmf114g\NetScn
→ 浏览我的电脑以查找驱动程序(B) 手动重线并安装驱动程序。	→ 让我从计算机上的可用驱动程序列表中选取(L) 此列表将显示与该设备兼容的可用驱动程序、以及与该设备属于同一类别的所有驱动程序。
取消	下一页(N) 取消

Choose the older version of driver, version 3.3.10.140 (2009/11/19), click 'Next' to install, then succeed. You can see Prolific USB-to-Serial Common Port(COM4). This COM4 may be different on your computer, such as COM1, COM2, ..., COM7, etc.

← 📲 更新驱动程序 - PL2303HXA自2012已停产,请联系供货商

选择要为此硬件安装的设备驱动程序



请选定硬件设备的厂商和型号,然后单击"下一步"。如果手头有包含要安装的驱动程序的磁盘, 请单击"从磁盘安装"。

型号		
Prolific USB-to-Seria	al Comm Port 版本: 3.3.10.140 [2009/11/19]	
Prolific USB-to-Seria	al Comm Port 版本: 3.8.42.0 [2023/2/22]	
这个驱动程序已经过3 告诉我为什么驱动程		<u>+</u>).
	下一页(N)	取
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> 🛃 事件查看器	> 🔐 安全设备	
> 📓 共享文件夹	> 🗖 处理器	
> 🚳 性能	> 🔚 传感器	
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Then you can choose this COM port in demo application to communicate with JW1401GU.

erial port: COM4	~ 5	Start	Stop	Export	Clear		
	driver 2) In	stall a new driver	r 3) On the device mana		2, please contact the supplier erial port device, right-click		
					t computer sends a 'READY' st		
Reporting data format: total	31 bytes: for	mat= mac(6byte) u	uid(16byte) major(2byt	e) minor(2byte) rssi	@1meter(1byte) rssi(1byte) "E	ND"(3byte)	
						1	
'ilter RSSI: └── dBm	WID:		∽ MAJO	DR: MINOR:	✓ MAC:	~	
Only show one line for one	iBeacon						
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AC= C9:F8:25:40:50:A6, AC= EB:65:8B:0C:1C:7C,			B86D5296B1B1E5496 B86D5296B1B1F5496	,	MINOR= 1377, RssiAtOne MINOR= 955, RssiAtOne		
					MINOR= 1429, RssiAtOne		
			B86D5296B1B1E5496	,	MINOR= 1206, RssiAtOne		
AC= ED:05:7D:F2:CB:0B,		1FCD82FD55460	B86D5296B1B1E5496	5. MATOR= 2021.	MINOR= 1199, RssiAtOne	=I228 001 =rotoMe	00
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(2) You can develop your own application on personal computer, read/write data via USB serial port.

By default, serial port baud rate is 19200. The gateway is always scanning nearby Standard iBeacon once plugged in computer, but will not report data to computer until received 'READY' from computer via serial port. Report data format is: MAC, UUID, MAJOR ID, MINOR ID, RSSI@1METER, RSSI, 'END'. To receive the next report, you must send 'READY' again.



3. Features:

- 1. Scan all BLE data, customized filter.
- 2. Power by USB port, no battery is needed.
- 3. Portable, small like a USB disk.
- 4. Multi system platform: Windows, Linux.
- 5. Receiver sensitivity: -91dbm.

6. Fast develop, easy integrated. It is easy work to develop a application on windows with .net framework, or add to ready management system.

4. Product parameters

Size: 105*25*50mm

Net weight: 25g

Gross weight: 30g

5. Applications

* Retail

(1) display related ADs on screen when client pick up a goods in store.

(2) Count which goods is more popular.

* Company

- (1) Monitor employee attendance
- (2) Person / asset tracking

* Nursing home

- (1) Person tracking
- (2) Old man body monitor
- * Warehouse
 - (1) Asset tracking
 - (2) Environment condition monitor
- * School
 - (1) Student attendance

- (2) Person tracking
- (3) Let beacon work as voting machine