Operation Guide

HF-BL300

This document is applicable for the following product.



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1. HF-BL300 Module

This document take HF-BL300-1 EVB as example

1.1. HF-BL300 EVK

HF-BL300 EVK is as following.



Use USB cable to connect to EVB for communication test.

2. UART TOOLS

2.1. SecureCRT

Download address:

http://www.hi-flying.com/download-center-1/applications-1/download-item-securecrt

SecureCRT.exe SecureCRT Application VanDyke Software, Inc. , click Quick Connect icon,		
💼 not connected - SecureCRT	_	×
File Edit View Options Transfer Script Tools Help		
🐔 駾 🖓 🖓 🐚 🖻 🗣 🔓 🚭 📾 🖆 💥 🕇 💡 🖪		
		×
		^

2.2. UART PARAMETERS

Set UART parameters Quick Connect		•	×
<u>P</u> rotocol: P <u>o</u> rt: <u>B</u> aud rate: <u>D</u> ata bits: P <u>a</u> rity: <u>S</u> top bits:	Serial COM5 115200 8 None 1 V	Flow Control DTR/DSR RTS/CTS XON/XOFF	
□ Sho <u>w</u> quick	connect on star	✓Sa <u>v</u> e session Open in a <u>t</u> ab Connect Can	cel

3. HF-BL300 Module Test

3.1. AT Command

Step1: Connect USB to PC and install the following driver. http://www.hi-flying.com/download-center-1/applications-1/driver-ft232r

> 型 处埋器
 > 圖 磁盘驱动器
 > 圖 存储控制器
 > 圖 打印队列
 > 圖 請口 (COM 和 LPT)
 ■ USB Serial Port (COM12)
 ■ USB Serial Port (COM13)
 ■ USB Serial Port (COM4)



Step 2: Open SecureCRT and set UART parameters.

Step 3: Input the command in the input area and it will show the response on the output area as following picture.





3.2. Test Case One: Throughput

Download LightBlue in IOS appstore or CySmart for Android . May also use other BLE communication APP. The following take LightBlue for example.



Step 1: Open LightBlue and connect HF-BL300.



3	搜索	14:23	@ 7 0	69% 🔲
	Sort	LightBlue Explorer		Filter
	Peri	oherals Nearby		
	-42	HF-BL300 No services	-	>
	.ull	Unnamed No services		>
	.ull	Unnamed No services		>
	.ull	Unnamed No services		>

Step 2: Click the following UUID to read UART data.





Step 3: Click Listen For notifications to show the received UART data.



< 搜索 🔐 夺	14:28	@ 🕈 🏹 68% 🔲)
KHF-BL300	0x2B10	Hex
HF-BL300		
Ox2B10 UUID: 2B10 Connected		
READ/NOTIFIED VAL	JES	
Read again	Liste	en for notifications
i Cloud Conr	nect	\bigcirc
×0000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000
Send UART data "1"(Ascii format)	to module, and APP got 0x31	(hex format)
🐷 serial-com69 - SecureCRT File Edit <mark>View</mark> Options Transfer Script Tools Window हिन्द्र 🕄 ्यो 🎝 Enter host <alt+r></alt+r>	Y Help	14:28
Session Manager ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	HF-BL300 OX2B10 UUID: 2B10 Connected	
 10.10.100.254 10.10.100.254 10.10.100.254-2323 192.168.1.201 	READ/NOTIFIE	D VALUES
 192.168.1.208 192.168.100.254 192.168.83.110 192.168.83.124 	Read again	Stop listening
Fight Results Fight R	DEVICE 0X31 14:28:50.322 0X31 14:28:48.703 0X31 14:28:47.941	

Step 4: Click the following UUID to send UART data.





Test case for Cysmart APP is as following.

Step 1: Open APP and connect to module. Select 2b00 service.





Step 3: Choose 2b10, click notify and then it will print any data received from the moduleby UART.



13:22 🛄 🧐 🗐	068	49,49,		
≡ GATT DB	4			
<	Details			
Service	: Unknown Service			
Characteristic	: 05f9b34fb	000		
ASCII	0			
HEX	30			
Date	26 9月 2018			
Time	13:22 30 878			
	Descrip	otors		
\$	Stop Notify			

Step 4: Choose 2b11, and click write to send data to module. The module UART output ASCII "0" $_{\circ}$





3.3. OTA Upgrade

Step 1: Install Beken_RC_OTA_V3.0.APK software, and send OTA firmare to QQ or other software.



Step 2: Click OTA button then Other Files button.



BEKEN HF-BL300	*	BEKEN HF-BL	300	*
Device address: BB:34	Device address: BB:34:24:22:77:88			
State: 🛠		State: *	OTA	Other Files
UUID	OTA	Device Ver. : OTA File Ver. :	1112 Dev. Ron File Rom	n Ver. : 000B
Generic Acces 00001800-0000-1000-	S 8000-00805f9b34fb		idle	
 Generic Attribu 00001801-0000-1000-1 				
Unknown servi				
Device Informa 0000180a-0000-1000-7				
 Battery Service 0000180f-0000-1000-8 				
Unknown servi	Refresh Li	st	START	
Step 3: Find the firmare saved directory				





≡ tencent ~	९ ≡ :	≡	QQfile_recv ∽ Ϙ 🎟 :
	名称 🔨		名称 🗸
imsdkfileca	imsdkpicca	-	JDWeilian-RELEASEdev-1b6d3c0-2
imsdkvideo	MicroMsg	×	IxChariot EP.apk
MobileQQ	msflogs		
🖿 mta	mta1000001	Ĩ	hiflying-iots-android-smartlink-demo
mta3	omg		HF-BL300-UART_1.1.1-OTA.bin 16:21 161 kB 文件
OpenSDK	QAPM		PL 200 1 1-0TA 20100/11 bin
QQ_Collecti	QQ_Images		16:38 161 kB 文件
QQfile_recv	QWallet		BL300_1.0-OTA_20190411.bin 16:32 161 kB 文件
dzone	tbs	,×	Beken_RC_OTA_V3.0.apk

Step 4: When APP find new version, click Full OTA to upgrade.

