

ACI8107-BLE Mesh Module

BTLE 4.2 Mesh Network Command V1.5

Document revision History

Date	Revision Content	Revised By	Version
2016/3/29	Initial released	David Liao	V1.1
2016/4/15	Addition A8106 Remote pairing command	David Liao	V1.2
2016/4/21	Revise Set Command 01 describe	David Liao	V1.3
2016/5/10	(OTA_FW0002_20160505_1.bin) Revise CMD01 Group ID setting, Addition CMD8D CMD82 CMD10 CMD11	David Liao	V1.4
2016/5/18	(OTA_ACI107_MESH_FW0002T_20160517.bin) Addition mesh re-transmit number of time in CMD01	David Liao	V1.5
2016/5/18	Revise CMD0D describe	David Liao	V1.6

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BTLE 4.2 Mesh APP & UART Command type					
Command		Target	Description	Reply	
Control	Set	CMD01	Current Link device ※Note1	Set revise Device information: RF_ID/Device_ID/Group_ID/mesh re-transmit number of time	0X00 (pass) 0XFF(fail)
		CMD02	Single device	Set Single Device on/off, Set Single Device PWM ※Note3	0X00 (pass) 0XFF(fail)
		CMD03	All device	Set Group Device on/off Set Group Device PWM ※Note3	0X00 (pass) 0XFF(fail)
		CMD04	Group device	Set All Device on/off Set All Device PWM ※Note3	0X00 (pass) 0XFF(fail)
		CMD0A	Single device	Set RF Transmit power level	0X00 (pass) 0XFF(fail)
		CMD0B	Single device	Set BLE Device name	0X00 (pass) 0XFF(fail)
		CMD0C	Single device	Set BLE Device into paring mode with A8106 Remote	0X00 (pass) 0XFF(fail)
		CMD0D	Single device	Set Device Temporary data buffer	0X00 (pass) 0XFF(fail)
	Read	CMD81	Current Link device	Read current link Device information: RF_ID/Device_ID/Group_ID	RF_ID/Device_ID/Group_ID
		CMD82	Single device	Read Target Device PWM0/1/2/3 status& Group ID	
CMD8D		Current Link device	Read Device Temporary data buffer		
Data Transmit	Send	CMD05	Single device	Send data to Single device	
		CMD06	Group device	Send data to Group device	
		CMD07	All device	Send data to All device	
Link Associating	Setup	CMD09	Current Link device	Direct assign and set MESH network connect device ID NO into flash Memory	0X00 (pass) 0XFF(fail)
		CMD10	Input password		0X00 (pass) 0XFF(fail)
		CMD11	Set password		0X00 (pass) 0XFF(fail)
	Get	CMD88	Current Link device	Get current new device link status & Link counter	Link Device quantity & ID ※Note4

※Note1 : Current Link device: The device linking by APP or UART

※Note2 : UART default format: Baudrate:9600bps/ None parity /8 data bit/1 stop-bit

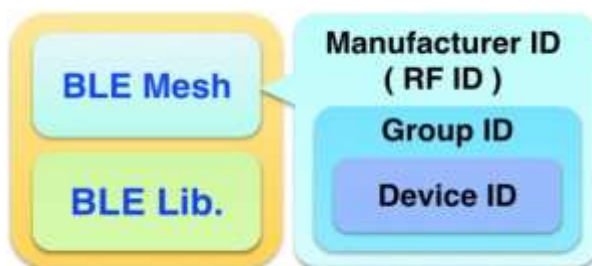
Baudrate	(P0.5)	(P0.6)
9600	Open	Open
19200	GND	Open
38400	Open	GND
115200	GND	GND

※Note3: The PWM value will save to flash ROM, and auto output When restart power on

※Note4 : RF_ID/Device_ID/Group_ID/ MESH network connect device ID NO

Pls reference information in detail as the following page 3 4:

Mesh Network ID type



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● **Control format**

Set/ Read command Packet Format

Bytes	1	2	3	4	5	6	7	8	9	10	11	12
Value(HEX)	Device /Group ID		CMD	XX	XX	XX	XX	XX	XX	XX	XX	

Bytes1,2:	Device or Group ID	Target device or group ID
Bytes3:	CMD	See CMD Format as below
Bytes4....n:	Data	See CMD Format as below

● **Set Command**

CMD 01 (Set Revise Current link Device information :

RF_ID/Device_ID/Group_ID)

After CMD01 execution, The RF_ID/Device_ID/Group_ID will save to internal flash ROM, no need reset Module;

Bytes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Value(HEX)	00	00	01	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

Bytes1/2/3:	Command	00,00,01(Fixed)
Bytes4/5/6/7:	Device RF_ID	XX.XX.XX.XX (default 54.75.C5.2A)
Bytes 8/9:	Device_ID	1~65535 (default 0) Byte 8:Low byte, Byte 9:High byte,
Bytes 10/11:	Group_ID 1 st	1~65535 (default 0) Byte 10:Low byte, Byte 11:High byte,
Bytes 12/13:	Group_ID 2 nd	1~65535 (default 0) Byte 12:Low byte, Byte 13:High byte,
Bytes 14/15:	Group_ID 3 rd	1~65535 (default 0) Byte 14:Low byte, Byte 15:High byte,
Bytes 16/17:	Group_ID 4 th	1~65535 (default 0) Byte 16:Low byte, Byte 17:High byte,
Bytes 18/19:	mesh re-transmit number of time	1~65535 (default 0) Byte 18:Low byte, Byte 19:High byte,

Byte 4 Recommend Fixed value:0x54.
Reply: Success: "0x00" ; Fail: "0xFF"

CMD 02 (Set Single Device on/off,PWM)

Bytes	1	2	3	4	5	6	7	8	9	10	11
Value(HEX)	XX	XX	02	XX	XX	XX	XX	XX	XX	XX	XX

Bytes1/2:	Target Device ID	1~65535, Byte 1:Low byte, Byte 2:High byte,
Bytes 3:	Command	02(Fixed)
Bytes4,5,6,7	PWM0/1	Default 0
Bytes8,9,10,11	PWM2/3	Default 0

Reply: Success: "0x00" ; Fail: "0xFF"

After CMD02 execution, The PWM value will save to internal RAM, and direct output PWM, no need reset Module;

In addition, The PWM value will auto save to Flash ROM after 30 seconds without any PWM update; Next time power on the module, The module will auto output PWM

Bytes 4	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
	PW0E	P0F2	P0F1	P0F0			P0DP	Pin-Out0
Reset	0	0	0	0	0	0	0	0

PW0E: P1.6 PWM function enable.

[0]: Disable [1]: Enable

P0F[2:0]: P1.6 PWM Frequency Select.

[000]:15.6KHz

[001]:7.8KHz

[010]:3.9KHz

[011]:1.95KHz

[100]:0.97KHz

[101]:0.48KHz

P0DP: P1.6 PWM Duty Direct/Progressive select

[0]: Direct [1]: Progressive

Pin-Out0: P1.6 output status (J3-3),if PW0E = 1, Pin-Out0 is inactive

[0]: output Low [1]: output high

Bytes 5	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
PW0D								
Reset	0	0	0	0	0	0	0	0

PW0D: P1.6 PWM Duty.

Bytes 6	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
	PW1E	P1F2	P1F1	P1F0			P1DP	Pin-Out1
Reset	0	0	0	0	0	0	0	0

PW1E: P1.7 PWM function enable.

[0]: Disable [1]: Enable

P1F[2:0]: P1.7 PWM Frequency Select.

[000]:15.6KHz

[001]:7.8KHz

[010]:3.9KHz

[011]:1.95KHz

[100]:0.97KHz

[101]:0.48KHz

P1DP: P1.7 PWM Duty Direct/Progressive select

[0]: Direct [1]: Progressive

Pin-Out1: P1.7 output status, if PW1E = 1, Pin-Out1 is inactive

[0]: output Low [1]: output high

Bytes 7	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
PW1D								
Reset	0	0	0	0	0	0	0	0

PW1D: P1.7 PWM Duty.

Bytes 8	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
	PW2E	P2F2	P2F1	P2F0			P2DP	Pin-Out2
Reset	0	0	0	0	0	0	0	0

PW2E: P1.4 PWM function enable.

[0]: Disable [1]: Enable

P2F[2:0]: P1.4 PWM Frequency Select.

[000]:15.6KHz

[001]:7.8KHz

[010]:3.9KHz

[011]:1.95KHz

[100]:0.97KHz

[101]:0.48KHz

P2DP: P1.4 PWM Duty Direct/Progressive select

[0]: Direct [1]: Progressive

Pin-Out2: P1.4 output status, if PW2E = 1, Pin-Out2 is inactive

[0]: output Low [1]: output high

Bytes 9	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
PW2D								
Reset	0	0	0	0	0	0	0	0

PW2D: P1.4 PWM Duty.

Bytes 10	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
	PW3E	P3F2	P3F1	P3F0			P3DP	Pin-Out3
Reset	0	0	0	0	0	0	0	0

PW3E: P1.5 PWM function enable.

[0]: Disable [1]: Enable

P3F[2:0]: P1.5 PWM Frequency Select.

[000]:15.6KHz

[001]:7.8KHz

[010]:3.9KHz

[011]:1.95KHz

[100]:0.97KHz

[101]:0.48KHz

P3DP: P1.5 PWM Duty Direct/Progressive select

[0]: Direct [1]: Progressive

Pin-Out3: P1.5 output status, if PW3E = 1, Pin-Out3 is inactive

[0]: output Low [1]: output high

Bytes 11	bit 7	bit 6	bit 5	bit 4	bit 3	bit 2	bit 1	bit 0
PW3D								
Reset	0	0	0	0	0	0	0	0

PW3D: P1.5 PWM Duty.

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CMD 03 (Set All Device on/off ,PWM)

Bytes	1	2	3	4	5	6	7	8	9	10	11
Value(HEX)	00	00	03	XX	XX	XX	XX	XX	XX	XX	XX

Bytes 1/2/3:	Command	00,02,03(Fixed)
Bytes4,5,6,7	PWM0/1	Refer to CMD02
Bytes8,9,10,11	PWM2/3	Refer to CMD02

Reply: Success: "0x00" ; Fail: "0xFF"

CMD 04 (Set Group Device on/off ,PWM)

Bytes	1	2	3	4	5	6	7	8	9	10	11
Value(HEX)	XX	XX	04	XX	XX	XX	XX	XX	XX	XX	XX

Bytes1,2:	Target Group ID	1~65535; Byte 1:Low byte, Byte 2:High byte,
Bytes 3:	Command	04(Fixed)
Bytes4,5,6,7	PWM0/1	Refer to CMD02
Bytes8,9,10,11	PWM2/3	Refer to CMD02

Reply: Success: "0x00" ; Fail: "0xFF"

CMD 0A (Set RF Transmit power level)

Bytes	1	2	3	4
Value(HEX)	00	00	0A	XX

Bytes1/2/3:	Command	00,00,0A(Fixed)
Bytes4	RF Power Level	00~07

Reply: Success: "0x00" ; Fail: "0xFF"

00	-17dBm
01	-15dBm
02	-10dBm
03	-5dBm
04	0dBm
05	+2dBm
06	+4dBm(default)
07	+7dBm

CMD 0B (Set BLE Device name)

Bytes	1	2	3	4	5	6	7	8	9	...	...	17	18	19
Value(HEX)	00	00	0B	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

Bytes1/2/3:	Command	00,00,0B(Fixed)
Bytes4~19	BLE Device Name	00~255 (ASCII -Code)

Reply: Success: "0x00" ; Fail: "0xFF"

CMD 0C (Set BLE Device into paring mode with A8106 Remote)

Bytes	1	2	3
Value(HEX)	00	00	0C

Bytes1/2/3:	Command	00,00,0C(Fixed)
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Reply: Success: "0x00" ; Fail: "0xFF"

CMD 0D (Set BLE Temporary data buffer in RAM)

Bytes	1	2	3	4	5	6	7	8	9	17	18
Value(HEX)	00	00	0D	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX

Bytes1/2/3:	Command	00,00,0D(Fixed)
Bytes4~18	BLE Device Name	00~255 (ASCII -Code)

Reply: Success: "0x00" ; Fail: "0xFF"

Use **CMD8D** command to read the value

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● **Read Command**

CMD 81 (Read current link Device information: RF_ID/Device_ID/Group_ID/ Device on/off)

Bytes	1	2	3	4	5	6	7	8	9	10	11	12
Value(HEX)	00	00	81									

Bytes1/2/3:	command	00,00,81
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Example 1: 00 00 81 (Get the current link device RF & Group & Device ID)

CMD 82 (Read Target Device PWM0/1/2/3 status& Group ID):

Bytes	1	2	3	4	5	6	7	8	9	10	11	12
Value(HEX)	xx	xx	82									

Bytes 1/2:	Device_ID	1~65535 (default 0); Byte 1:Low byte, Byte 2:High byte,
Bytes 3:	command	82(fix)

CMD 8D (Read Device Temporary data buffer):

Bytes	1	2	3	4	5	6	7	8	9	10	11	12
Value(HEX)	xx	xx	8D									

Bytes 1/2:	Device_ID	1~65535 (default 0); Byte 1:Low byte, Byte 2:High byte,
Bytes 3:	command	8D(fix)

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Device Reply Format (after CMD81 instruction)

Bytes	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Value(HEX)	xx	xx	xx	xx	Xx	xx	xx	xx	xx	xx	xx	xx	xx	xx

Bytes1/2/3/4	Device RF_ID	xx,xx,xx,xx (default 54,75,C5,2A)
Bytes 5/6	Device_ID	1~65535 (default 0); Byte 5:Low byte, Byte 6:High byte,
Bytes 7/8	Group_ID 1 st	1~65535 (default 0) Byte 12:Low byte, Byte 13:High byte,
Bytes 9/10	Group_ID 2 nd	1~65535 (default 0) Byte 14:Low byte, Byte 15:High byte,
Bytes 11/12	Group_ID 3 rd	1~65535 (default 0) Byte 16:Low byte, Byte 17:High byte,
Bytes 13/14	Group_ID 4 th	1~65535 (default 0) Byte 18:Low byte, Byte 19:High byte,

Device Reply Format (after CMD82 instruction)

Bytes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Value(HEX)	xx	xx	82	xx	xx	xx	Xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx

Bytes1/2	Device_ID	1~65535 (default 0) Byte 8:Low byte, Byte 9:High byte,
Bytes 3	Command	0X82(Fix)
Bytes 4/5	PWM0	Byte 4:PWM0 Set value, Byte 5:PWM0 Duty
Bytes 6/7	PWM1	Byte 6:PWM0 Set value, Byte 7:PWM0 Duty
Bytes 8/9	PWM2	Byte 8:PWM0 Set value, Byte 9:PWM0 Duty
Bytes 10/11	PWM3	Byte 10:PWM0 Set value, Byte11:PWM0 Duty
Bytes 12/13	Group_ID 1 st	1~65535 (default 0) Byte 12:Low byte, Byte 13:High byte,
Bytes 14/15	Group_ID 2 nd	1~65535 (default 0) Byte 14:Low byte, Byte 15:High byte,
Bytes 16/17	Group_ID 3 rd	1~65535 (default 0) Byte 16:Low byte, Byte 17:High byte,
Bytes 18/19	Group_ID 4 th	1~65535 (default 0) Byte 18:Low byte, Byte 19:High byte,

Device Reply Format (after CMD8D instruction)

Bytes	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Value(HEX)	xx	xx	8D	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx

Bytes 1/2:	Device_ID	1~65535 (default 0); Byte 1:Low byte, Byte 2:High byte,
Bytes 3:	command	0x8D(fix)
Bytes 4~18	Temporary data	00~255

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● Data transmit

Send command

CMD 05 (Send data to Single device)

Bytes	1	2	3	4	5	6	7	8	9	18
Value(HEX)	xx	xx	05	xx	xx	xx	xx	xx	xx	xx	xx	xx

Bytes1,2:	Device ID	1~65535, Byte 1:Low byte, Byte 2:High byte,
Bytes3:	command	05
Bytes4~18:	Data	XX,XX,.....,XX)

Data Length:15bytes(Maxima)

Example 1: The Bytes4~18 which customer use data send to single Device.

CMD 06 (Send data to Group device)

Bytes	1	2	3	4	5	6	7	8	9	...	...	18
Value(HEX)	xx	xx	06	xx	xx	xx	xx	xx	xx	xx	xx	xx

Bytes1/2:	Group ID	1~65535, Byte 1:Low byte, Byte 2:High byte,
Bytes3:	command	06
Bytes4~18:	Data	XX,XX,.....,XX

Data Length:15bytes(Maxima)

Example 1: The Bytes4~18 which customer use data send to Group Device.

CMD 07 (Send data to All device)

Bytes	1	2	3	4	5	6	7	8	9	...	...	18
Value(HEX)	00	00	07	xx	xx	xx	xx	xx	xx	xx	xx	xx

Bytes1/2/3:	command	00,00,07
Bytes4~18:	Data	XX,XX,.....,XX

Data Length:15bytes(Max)

Example 1: The Bytes4~18 with customer use data to All Device.

Receiver(Target) Device APP/ UART date Output Format

Bytes	1	2	3	4	5	6	7	8	9	...	...	18	19	20
Value(HEX)	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx	xx

Bytes1/2:	Source ID	1~65535, Byte 1:Low byte, Byte 2:High byte,
Bytes3/4:	Target device or Group ID	1~65535, Byte 1:Low byte, Byte 2:High byte,
Bytes 5:	CMD	05 or 06 or 07
Bytes6~20:	Data	0~255

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● Search & Link (Associating)

CMD 09 (Search & Link Device)—Direct assign and set MESH network connect device ID NO into flash Memory

Bytes	1	2	3	4	5	6	7	8	...	...	...	18	19	20
Value(HEX)	00	00	09	XX	XX	XX	XX	XX	...	...	...	XX	XX	XX

Bytes1/2/3:	command	00,00,09
Bytes4:	Setup Link total Quantity	01 ~ 08
Bytes5 ~ 20:	Setup Link Device ID NO	ID1,ID2,ID3,ID4.....ID8 ;Maxima 8 ID

Reply: Success: "0x00" ; Fail: "0xFF"

CMD 10 (Password input)—Input password to unlock BLE security

Bytes	1	2	3	4	5	6	7	8	9	10	11
Value(HEX)	00	00	10	XX	XX	XX	XX	XX	XX	XX	XX

Bytes1/2/3:	command	00,00,10
Bytes4 ~ 11:	Password	00~255 ;Default 00 ;total 8bytes

Reply: Success: "0x00" ; Fail: "0xFF"

1. Input a correct password to unlock BLE Mesh function
2. Input a wrong password to lock BLE Mesh function
3. Each BLE re-connection ,need Input password again to remove BLE Lock
4. The CMD10 execution need a full & complete 11bytes character input

CMD 11 (Password set)—set a password and save in BLE Flash ROM

Bytes	1	2	3	4	5	6	7	8	9	10	11
Value(HEX)	00	00	11	XX	XX	XX	XX	XX	XX	XX	XX

Bytes1/2/3:	command	00,00,11
Bytes4 ~ 11:	Password	00~255 ;Default 00 ;total 8bytes

Reply: Success: "0x00" ; Fail: "0xFF"

1. Use CMD10 Input a correct password to unlock BLE Mesh function
2. Use CMD11 Input a new password to change & save in BLE Flash ROM
3. The CMD11 execution need a full & complete 11bytes character input

CMD 88 (Get Link Device (total counter))—Get current new device link status & Link counter

Bytes	1	2	3	4	5	6	7	8	9
Value(HEX)	00	00	88						

Bytes1/2/3:	command	00,00,88
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Device Reply Format (after CMD88 instruction)

Bytes	1	2	3	4	5	6	7	8	11	12
Value(HEX)	XX	XX	88	XX	XX	Xx	XX	XX	XX	XX

Bytes1/2:	Current reply Device_ID	Xx
Bytes3:	command	88
Bytes4:	Link Device Quantity	Xx
Bytes5~12:	Link Device ID NO list	ID1,ID2,ID3,ID4.....ID8 ;Maxima 8 ID

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Mesh network device associating build Notice & procedure:

STEP1: Initial setting device information

- ◆ One by one use APP or UART to link each Mesh module, **CMD10** to Unlock BLE Security
- ◆ and use CMD01 command to setting each Mesh module **RF_ID**, **Device_ID**, **Group_ID**. Finish all Mesh module setting, go to next step.
- ◆ After CMD01 execution, The RF_ID/Device_ID/Group_ID will save to internal flash ROM, no need reset Module;

Device RF_ID	XX.XX.XX.XX (default 54.75.C5.2A)
Device_ID	1~65535 (default 0)
Group_ID	1~65535 (default 0)

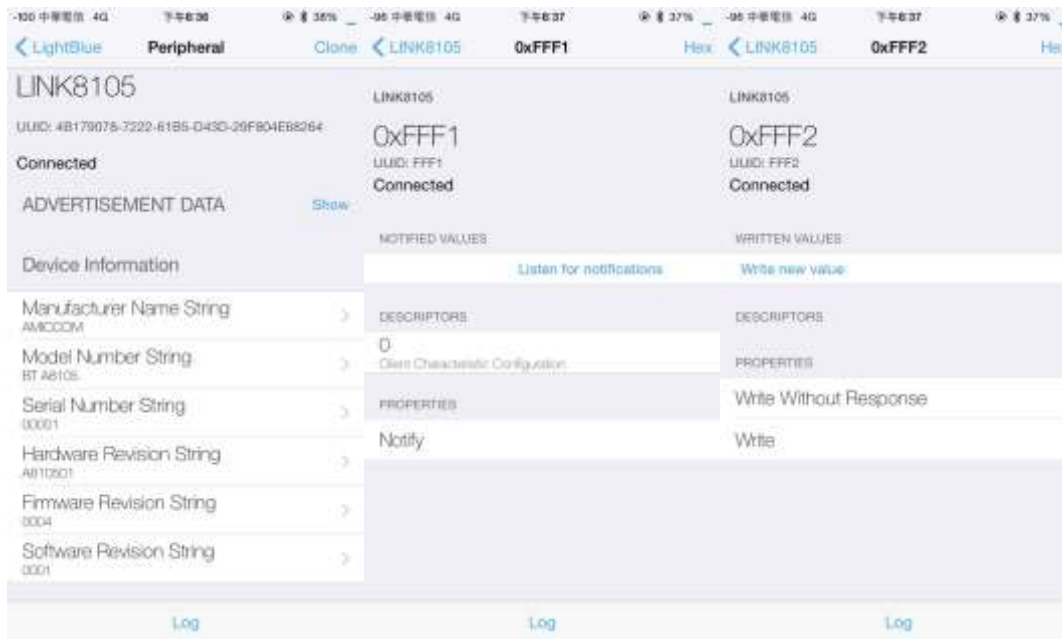
STEP2: Initial Mesh network associating

1. Power on all mesh module
2. One by one use APP or UART to link each Mesh module, and use CMD09 command to execute each Mesh module routing network

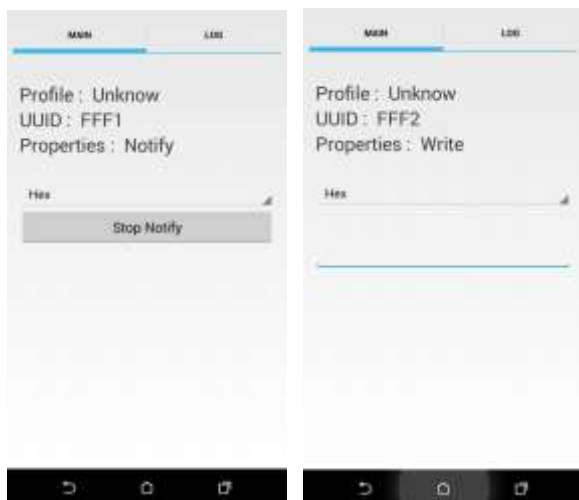
STEP3. Register and build new device into APP or MCU

- Notes:1.The module RF_ID must be same when in a mesh network
 2.LightBlue APP <https://itunes.apple.com/tw/app/lightblue-explorer-bluetooth/id557428110?l=zh&mt=8>
 3.BLE Tool APP https://play.google.com/store/apps/details?id=com.tony.ble_tool&hl=zh_TW

LightBlue Use BLE UUID:FFF1 to read Use BLE UUID:FFF2 to writer



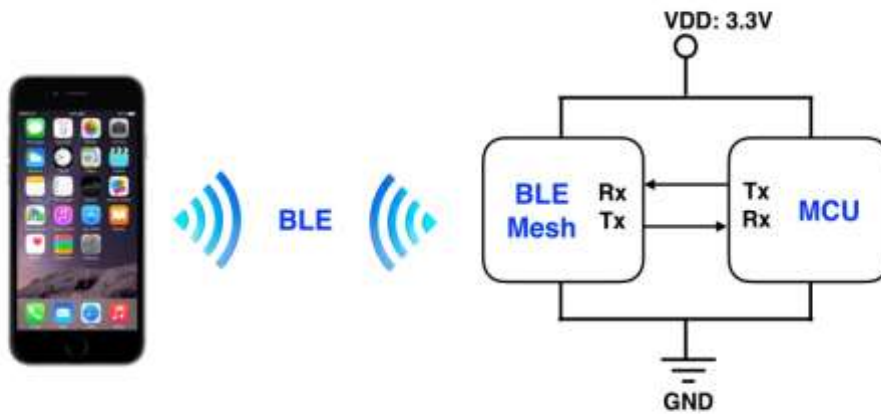
BLE Tool



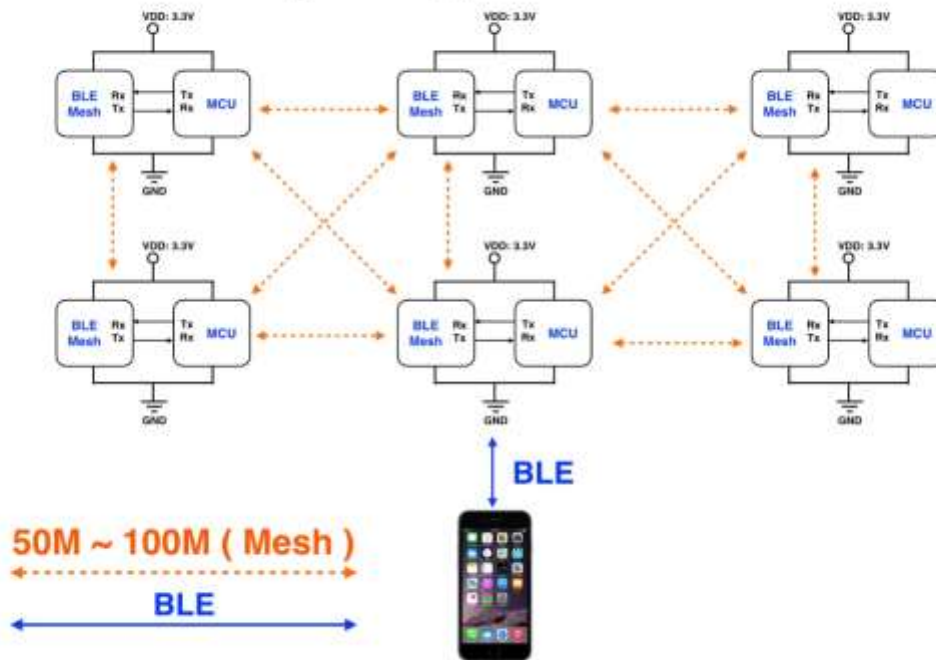
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Application Block



System Application Block



BLE mesh Firmware Revision History

Date	Revision Content	Revised By	Version
2016/4/6	Initial released	David Liao	FW001
2016/5/11	(OTA_FW0002_20160505_1.bin) Revise CMD01 Group ID setting, Addition CMD8D CMD82 CMD10 CMD11	David Liao	FW002

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- **Our contact info:**

Avant-Com, Inc. 瑋忠科技企業股份有限公司/ 台灣/ 台北

11494 台北市內湖區民權東路 6 段 13-23 號 3 樓

11494, 3F., No.13-23, Sec. 6, Minguan E. Rd., Neihu

Dist., Taipei, Taiwan

TEL:+886-2-8792-5853

FAX:+886-2-8792-5796

E-Mail : service@avantcom.com.tw

Website: www.avantcom.com.tw



Avant-Com, Inc./ SZ 深圳奇翰电子有限公司/ 深圳市

深圳市宝安区西乡宝源路名优工业产品展示采购中心 A112

TEL:+86-0755-8279-3556

FAX:+86-0755-8279-3553

E-Mail: service@avantcom.com.cn

Website: www.avantcom.com.cn



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