

USB+BLE APP Communication Protocol v1.8

Unless otherwise specified, all are in big-endian mode, that is, low byte first (LSB)

一、 1. Broadcast and scan response data format :

1. Broadcast data PDU:

1.1. Location definition (Order of PDU part):

Location	Definition	Means
1	02	Fixed value
2	01	Fixed value
3	06	Fixed value
4	length	Data length of 0xff type data 27
5	Type Sescription	0xff
6—n	Data Detail	Check broadcast data format

1.2. Broadcast data domain sequence: (Strictly following the analysis)

Lenght	Type	Vendor Number Low Position 1Byte	Vendor Number High Position 1Byte	Hardware Type	USB Firmware Version	Bluetooth Firmware Version	
Length	0xff	Vendor number low position, provided by Party A 1Byte 0x23	Vendor number high position, provided by Party A, 1Byte 0x08	1 Byte	2 Byte	1 Byte	
ID	Voltage	Device Status	Alarm Status	Sensor Data			Reserved
				Activati on Status	Temperature	Reserved	
7 Bytes	1 Byte	1 Byte	1 Byte	1 Byte	2 Byte	7 Bytes	

A、 Vendor Number low position 1Byte: **0x0823**

B、 Hardware Type: 1Byte,

Version Type:

- 0x04: TempU06 L60
- 0x07: TempU06 L100
- 0x08: TempU06 L200

C、USB Firmware version: 2Byte, Version type (1Bytes) +Fireware version (1Byte)

Version Type:

0x01: Standard version

Fireware Version: [1, 255]

D、Bluetooth Firmware Version: 1Byte, [1, 255]

E、ID: 7Bytes, Prefix (2Bytes ASCII) +Number (5 Bytes hex), Such as: 0x54 5A 01 23 45 67 89, Then ID:TZ0123456789

F、Battery Voltage: 1Byte, Unite 10mv, the value obtained for the actual voltage -200, Such as 0xA0=160, Then actual voltage is (160+200) *10=3600mv

G、Device Status: 1Byte

Bit7- Bit6	Bit5- Bit4	Bit3	Bit2	Bit1- Bit0
Reserved	00: Unlock 01: Level-1 access key 10: Level-2 access key 11: Reserved	0: Data is not inserted into USB 1: Data have inserted into USB	0: Data is not full 1: Data have full	00: Initialization 01: Delay 10: Recording 11: Stop

H、Alarm Status: 1Byte

Bit7- Bit2	Bit1- Bit0
Reserved	00: No Alarm 01: High temperature alarm 10: Low temperature alarm 11: Temperature alarm (including both high and low temperatures)

I、Activation Status: 1Byte

Bit7- Bit2	Bit1- Bit0
Reserved	00: Enable temperature sensor, the unit is C 01: Enable temperature sensor, the unit is F 11: Temperature sensor is not enabled

Note: Temperature sensor is not enabled, It will not data in device

Temperature data: 2Bytes, unit: 0.1 C/F

Bit15	Bit14 -Bit0
0: Positive Temperature 1: Negative Temperature	Temperature value

E. g: 0x0164 means 35.6°C,
0x8164 means -35.6°C,

0xFE00 means the temperature sensor working status is abnormal;

J、Sensor Data reserved and Reserved: 7Bytes, All data is filled with 0xFF

2、Scan response data PDU:

2.2、Location definition (order of PDU part):

Location	Definition	Mean
1	Length	Data length of 0xff type data
2	Type description	0xff
3—n	Data Detail	Check scan response data format

2.2. Scan data domain sequence: (Strictly following the analysis)

	Type	Scan response Vendor Number Low Position 1Byte	Scan response Vendor Number High Position 1Byte	Device Name	Reserved
Length	0xff	Vendor Number low position, provided by Party A 1Byte, 0xb4	Vendor Number low position, provided by Party A 1Byte, 0xe7	15 Byte	12 Byte

A、Scan response Vendor Number high and low Position: **0xb4e7**

B、Device name: 15Byte, The name is less than 15Bytes, filled with FF

C、Reserved: 12Bytes, All data is filled with 0xFF