AD51 Doppler Fetal HR BLE Communication Protocol

1. BLE Service and Characteristic UUID

BLE Device Name: MD1000AF4

Service UUID: 0x00005500-D102-11E1-9B23-00025B00A5A5

Write Characteristic UUID: 0x00005501-D102-11E1-9B23-00025B00A5A5 [write,notify]

Notify Characteristic UUID: 0x00005502-D102-11E1-9B23-00025B00A5A5 [read]

2. BLE command

the Master device

1. set notify to Notify characteristic

2. send START command to write characteristic

3. you can get data from the device

4. send STOP command to write characteristic

2.1 START command

2.2 Data package

```
typedef struct {
   unsigned char header;
                                   0xFF
   unsigned char header;
                                   0xFC
   unsigned char dev_type;
                                   0x04
   unsigned char dev_serial[8];
                                   SN
   unsigned char reading0[2];
                                   HR, 2Hz
   unsigned char reading1[2];
                                   Reserved
   unsigned char reading2[1];
                                   Reserved
   unsigned char checksum;
                                   crc8
};
```

2.3 STOP command

```
0x FF FA 0A 0A
```