

0x067e420 [0,0]

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RaspberryPi 3

GATT

- doesn't really compile for me -- <https://github.com/comarius/bunget>
 - ◆ <https://www.raspberrypi.org/forums/viewtopic.php?uid=25856&f=41&t=148449&start=0>
- <https://github.com/msaunby/ble-sensor-pi>
- <https://github.com/ecc1/ble>

nRF24L01+

- <http://dmitry.gr/index.php?r=05.Projects&proj=11.%20Bluetooth%20LE%20fakery>
- <https://github.com/sandeepmistry/arduino-nRF24L01-BLE>
- <http://simonebaracchi.eu/posts/temperature-beacon/>

Quintic BLE

Quintic Private Profile Guide http://www.nxp.com/documents/application_note/AN11846.pdf
Q 9021 http://cache.nxp.com/documents/data_sheet/QN902X.pdf?pspl=1

- serial port tools: <https://github.com/Informatic/qn902x-tools>
- BLE python lib <https://github.com/lanHarvey/bluepy>
- <https://github.com/dpavlin/quintic-ble>

RaspberryPi 3

unbind device in phone app

```
root@rpi3:/home/pi# hcitool lescan
LE Scan ...
08:7C:BE:92:85:23 Quintic BLE
08:7C:BE:92:85:23 (unknown)
```

Android

using BLE Scanner

```
nRF Master Control Panel, 2016-05-21
Quintic BLE (08:7C:BE:92:85:23)
V    07:17:01.689    Connecting to 08:7C:BE:92:85:23...
D    07:17:01.701    gatt = device.connectGatt(autoConnect = false)
D    07:17:01.907    [Callback] Connection state changed with status: 0 and new state: CONNECTED
D    07:17:01.939    [Broadcast] Action received: android.bluetooth.device.action.ACL_CONNECTED
I    07:17:01.962    Connected to 08:7C:BE:92:85:23
D    07:17:01.987    wait(600ms)
V    07:17:02.614    Discovering services...
D    07:17:02.628    gatt.discoverServices()
D    07:17:03.328    [Callback] Services discovered with status: 0
I    07:17:03.352    Services discovered
V    07:17:03.422    Generic Access (0x1800)
- Device Name [R W] (0x2A00)
- Appearance [R] (0x2A01)
- Peripheral Privacy Flag [R W] (0x2A02)
- Peripheral Preferred Connection Parameters [R] (0x2A04)
- Reconnection Address [R W WNR] (0x2A03)
Generic Attribute (0x1801)
- Service Changed [I R] (0x2A05)
  Client Characteristic Configuration (0x2902)
Unknown Service (0000fee8-0000-1000-8000-00805f9b34fb)
- Unknown Characteristic [N] (003784cf-f7e3-55b4-6c4c-9fd140100a16)
  Client Characteristic Configuration (0x2902)
  Characteristic User Description (0x2901)
- Unknown Characteristic [WNR] (013784cf-f7e3-55b4-6c4c-9fd140100a16)
Unknown Service (0000fee9-0000-1000-8000-00805f9b34fb)
- Unknown Characteristic [W WNR] (d44bc439-abfd-45a2-b575-925416129600)
  Characteristic User Description (0x2901)
- Unknown Characteristic [N] (d44bc439-abfd-45a2-b575-925416129601)
  Client Characteristic Configuration (0x2902)
V    07:17:29.219    Reading all characteristics...
V    07:17:29.236    Reading characteristic 00002a00-0000-1000-8000-00805f9b34fb
D    07:17:29.250    gatt.readCharacteristic(00002a00-0000-1000-8000-00805f9b34fb)
I    07:17:29.465    Read Response received from 00002a00-0000-1000-8000-00805f9b34fb, value:
A    07:17:29.484    "Quintic BLE" received
V    07:17:29.497    Reading characteristic 00002a01-0000-1000-8000-00805f9b34fb
D    07:17:29.512    gatt.readCharacteristic(00002a01-0000-1000-8000-00805f9b34fb)
I    07:17:29.660    Read Response received from 00002a01-0000-1000-8000-00805f9b34fb, value:
A    07:17:29.670    "[0] Unknown" received
V    07:17:29.681    Reading characteristic 00002a02-0000-1000-8000-00805f9b34fb
D    07:17:29.692    gatt.readCharacteristic(00002a02-0000-1000-8000-00805f9b34fb)
I    07:17:29.853    Read Response received from 00002a02-0000-1000-8000-00805f9b34fb, value:
A    07:17:29.873    "(0x) 00" received
V    07:17:29.886    Reading characteristic 00002a04-0000-1000-8000-00805f9b34fb
D    07:17:29.897    gatt.readCharacteristic(00002a04-0000-1000-8000-00805f9b34fb)
I    07:17:30.050    Read Response received from 00002a04-0000-1000-8000-00805f9b34fb, value:
A    07:17:30.061    "Connection Interval: 125.00ms - 250.00ms,
Slave Latency: 0,
Supervision Timeout Multiplier: 2000" received
V    07:17:30.074    Reading characteristic 00002a03-0000-1000-8000-00805f9b34fb
D    07:17:30.085    gatt.readCharacteristic(00002a03-0000-1000-8000-00805f9b34fb)
I    07:17:30.243    Read Response received from 00002a03-0000-1000-8000-00805f9b34fb, value:
V    07:17:30.254    Reading characteristic 00002a05-0000-1000-8000-00805f9b34fb
```

```
D      07:17:30.265    gatt.readCharacteristic(00002a05-0000-1000-8000-00805f9b34fb)
I      07:17:30.439    Read Response received from 00002a05-0000-1000-8000-00805f9b34fb, value:
A      07:17:30.451    "Affected Attribute Handle Range: 0x0001 - 0xFFFF" received
V      07:17:35.488    Enabling services...
V      07:17:35.507    Enabling indications for 00002a05-0000-1000-8000-00805f9b34fb
D      07:17:35.527    gatt.writeDescriptor(00002902-0000-1000-8000-00805f9b34fb, value=0x0200)
I      07:17:35.704    Data written to descr. 00002902-0000-1000-8000-00805f9b34fb, value: (0x)
A      07:17:35.713    "Indications enabled" sent
D      07:17:35.736    gatt.setCharacteristicNotification(00002a05-0000-1000-8000-00805f9b34fb,
V      07:17:35.754    Indications enabled for 00002a05-0000-1000-8000-00805f9b34fb
V      07:17:35.764    Enabling notifications for 003784cf-f7e3-55b4-6c4c-9fd140100a16
D      07:17:35.775    gatt.writeDescriptor(00002902-0000-1000-8000-00805f9b34fb, value=0x0100)
I      07:17:35.995    Data written to descr. 00002902-0000-1000-8000-00805f9b34fb, value: (0x)
A      07:17:36.007    "Notifications enabled" sent
D      07:17:36.030    gatt.setCharacteristicNotification(003784cf-f7e3-55b4-6c4c-9fd140100a16,
V      07:17:36.042    Notifications enabled for 003784cf-f7e3-55b4-6c4c-9fd140100a16
V      07:17:36.055    Enabling notifications for d44bc439-abfd-45a2-b575-925416129601
D      07:17:36.066    gatt.writeDescriptor(00002902-0000-1000-8000-00805f9b34fb, value=0x0100)
I      07:17:36.191    Data written to descr. 00002902-0000-1000-8000-00805f9b34fb, value: (0x)
A      07:17:36.203    "Notifications enabled" sent
D      07:17:36.227    gatt.setCharacteristicNotification(d44bc439-abfd-45a2-b575-925416129601,
V      07:17:36.240    Notifications enabled for d44bc439-abfd-45a2-b575-925416129601
V      07:17:36.251    All services enabled
V      07:17:38.528    Reading remote RSSI...
D      07:17:38.542    gatt.readRemoteRssi()
I      07:17:38.564    Remote RSSI received: -64 dBm
```

nRF51822

Brand: Makibes

Model: ID107

Bluetooth version: V4.0 BLE

Waterproof rating: Life-level waterproof

Main chip: Nordic nRF51822

Pulse sensor: Silicon labs Si1142

G-sensor: kx022-1020