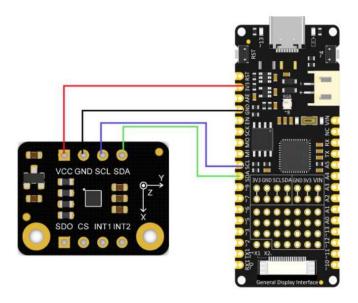
Test Sensor_LIS2DW12.ino

Connect the LIS2DW12 sensor to the I2C interface of the ESP32 with reference to the following wiring diagram, and upload the Sensor_LIS2DW12.ino in the current folder to the ESP32.



When the reading appears normally in the serial monitor, the sensor is normal.

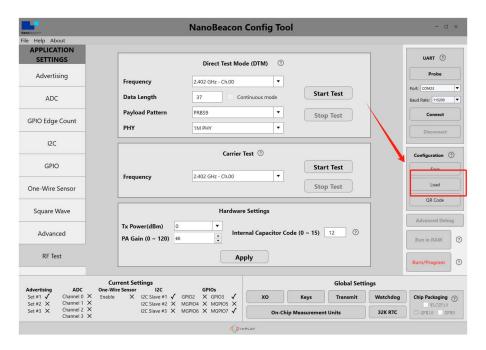
The sensor can be connected to a Beacon for testing.



2. Burning Beacon and Connecting Sensor

Please use a USB-TTL converter to burn the .cfg file into the Beacon.

NanoBeacon Config Tool can Load the LIS2DW12.cfg file in this folder.



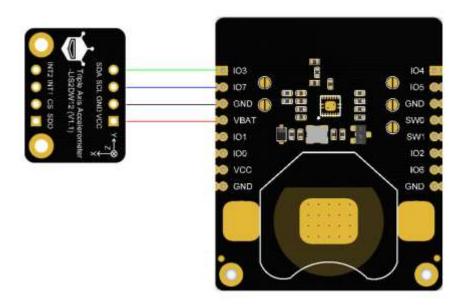
Check that the XO capacitor configuration is 12



Please refer to Beacon's wiki for the burn-in process:

https://wiki.dfrobot.com.cn/_SKU_TEL0168_Fermion_BLE_%E4%BC%A0%E6%84 %9F%E5%99%A8%E4%BF%A1%E6%A0%87#target_4 After the burn-in is complete, refer to the following diagram to connect the Beacon and the sensors.

Note: Our .cfg example file defaults SCL->GPIO7, SDA->GPIO3.



3. Upload ESP32 code and get readings

Upload the Beacon_LIS2DW12.ino in the same directory to the ESP32 motherboard.

And power up the Beacon and sensors with optional CR2032 coin cell battery, or VCC and GND input 3.3V.

You will see the relevant data printed in the serial monitor.

```
Beacon LIS2DW12.ino
   1
           Based on Neil Kolban example for IDF: https://
    2
          Ported to Arduino ESP32 by Evandro Copercini
    3
           Changed to a beacon scanner to report iBeacon,
    4
       #include <Arduino.h>
      #include <BLEDevice.h>
   8
       #include <BLEUtils.h>
   9
       #include <BLEScan.h>
   10
       #include <BLEAdvertisedDevice.h>
  11
       #include <BLEEddystoneURL.h>
   12
  13
       #include <BLEEddystoneTLM.h>
       #include <BLEBeacon.h>
       #define ENDIAN_CHANGE_U16(x) ((((x)&0xFF00) >> 8)
  16
  17
       //设置ESP32 5秒扫描一次蓝牙设备
  18
      int scanTime = 5; //In seconds
  19
      BLEScan* pBLEScan;
   21
       class MyAdvertisedDeviceCallbacks : public BLEAdv
   22
   23
         void onResult(BLEAdvertisedDevice advertisedDev
   24
Output Serial Monitor X
Message (Enter to send message to 'DFRobot Firebeetle 2 ESP32-S3' on '(
Device name: LIS
strManufacturerData: 8 [5][5][a0][2d][f0][2][f0][e2]
x: 712.48 mg y: 45.87 mg z: -453.84 mg
Device name: LIS
strManufacturerData: 8 [5][5][0][29][c0][e][70][d5]
x: 640.26 mg y: 230.34 mg z: -664.66 mg
Device name: LIS
strManufacturerData: 8 [5][5][20][39][10][f4][f0][e5]
x: 892.06 mg y: -186.42 mg z: -406.99 mg
```