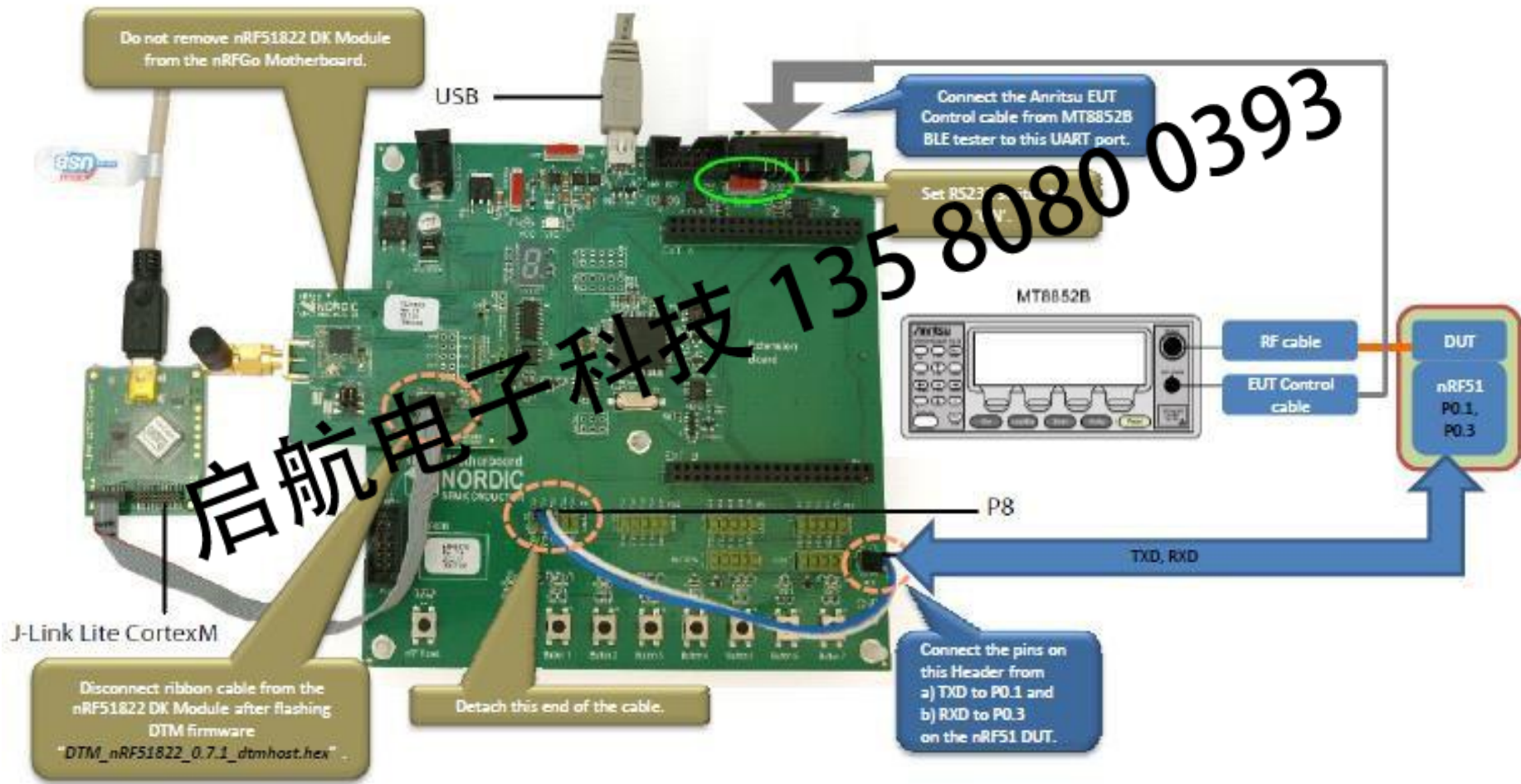




## 蓝牙BLE低功耗测试操作说明

# Demo 板接线图

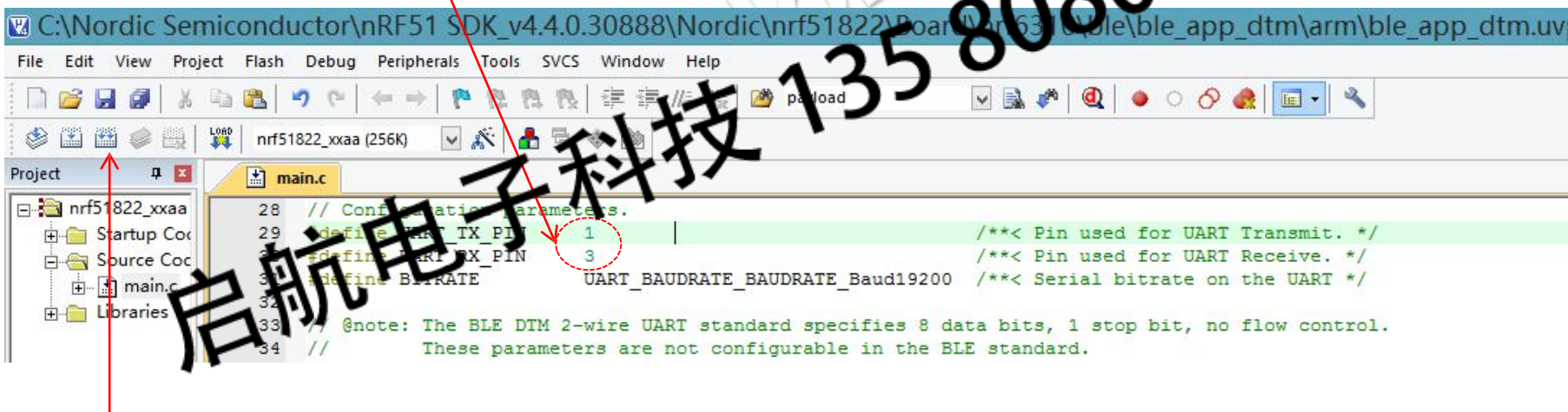


# 打开工程

➤ 打开SDK的DTM工程，如我电脑安装目录如下：

SDK安装目录\Nordic\nrf51822\Board\nrf6310\ble\ble\_app\_dtm\arm\ble\_app\_dtm.uvproj

➤ 修改对应的串口引脚：



```
28 // Configuration parameters.
29 #define UART_TX_PIN 1 /**< Pin used for UART Transmit. */
30 #define UART_RX_PIN 3 /**< Pin used for UART Receive. */
31 #define BAUDRATE UART_BAUDRATE_BAUDRATE_Baud19200 /**< Serial bitrate on the UART */
32
33 // @note: The BLE DTM 2-wire UART standard specifies 8 data bits, 1 stop bit, no flow control.
34 // These parameters are not configurable in the BLE standard.
```

➤ 重新编译

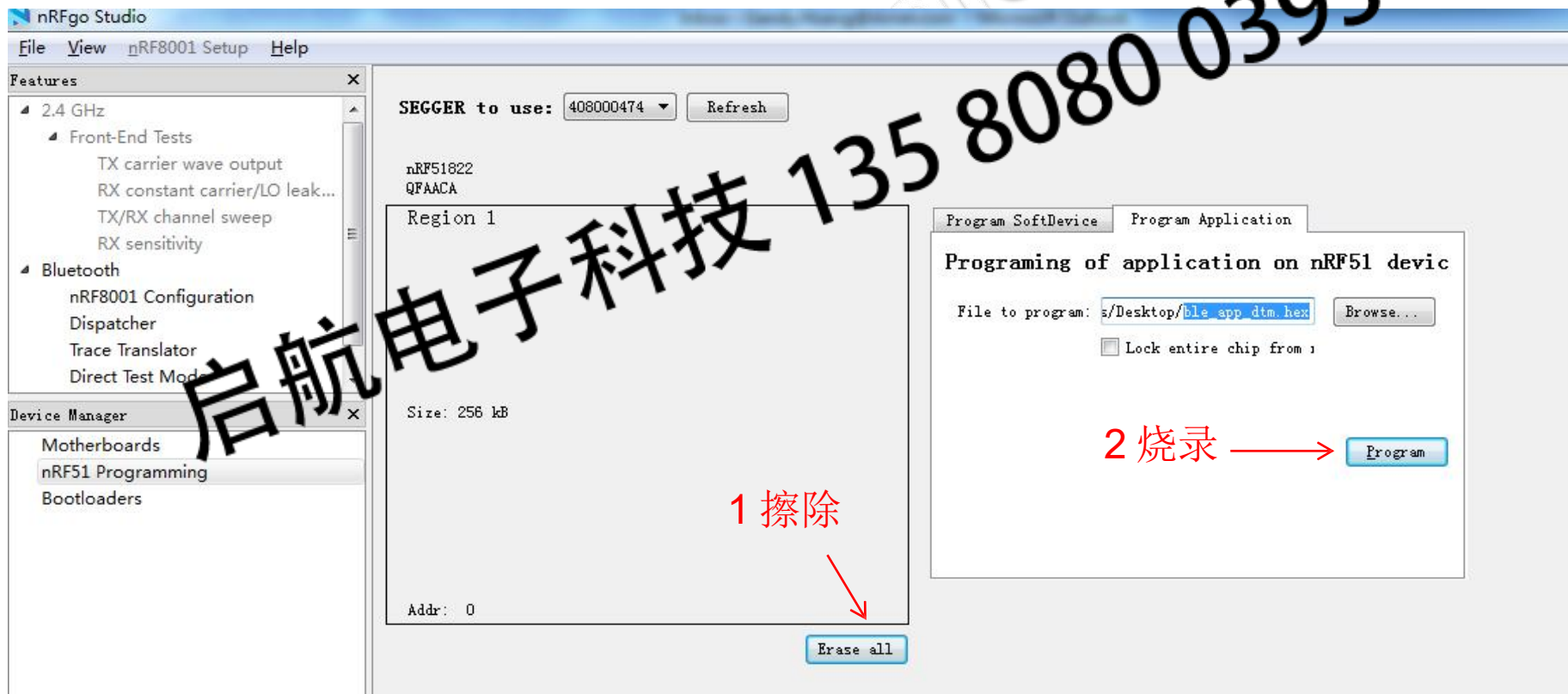


# 烧录软件

➤ 拷贝保存烧录文件:

SDK安装目录\Nordic\nrf51822\Board\nrf6310\ble\ble\_app\_dtm\arm\\_build\ ble\_app\_dtm.hex

➤ 烧录:



## 串口设定

- 1 stop bit
- 8 data bits
- 19200 baud rate
- No flow control (meaning no RTS/CTS)
- No parity

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# nRFStudio DTM测试

The screenshot shows the nRFStudio interface for Direct Test Mode UART. The main window title is "nRFgo Studio - Direct Test Mode UART interface". The menu bar includes "File", "View", "nRF8001 Setup", and "Help".

**Features Panel:**

- 2.4 GHz
  - Front-End Tests
    - TX carrier wave output
    - RX constant carrier/LO leakage
    - TX/RX channel sweep
    - RX sensitivity
  - Bluetooth
    - nRF8001 Configuration
    - Dispatcher
    - Trace Translator
    - Direct Test Mode** (highlighted)
    - nRF8002

**Device Manager Panel:**

- Motherboards
- nRF51 Programming
- Bootloaders

**Direct Test Mode UART interface Settings:**

- Set up on: [Dropdown] [Program]
- Com port: COM11 [Refresh list of com ports]
- Mode:  Transmit  Receive
- Channel:  Single  Sweep
- Channel: 19
- Payload model: Constant carrier
- Payload length: 1 bytes
- Packets received: N/A
- [Start test]

**Annotations:**

- A red box around the "COM11" dropdown is labeled "1 选择串口" (1. Select serial port).
- A red box around the "Start test" button is labeled "选择测试项目后Start" (Start after selecting the test item).

**Watermark:** 启航电子科技 135 8080 0393



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蓝牙BLE低功耗模块测试  
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