

# NRF52840 Eval Kit

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## 说明

Core52840



(<https://www.waveshare.net/shop/NRF52840-Eval-Kit.htm>)

### 功能简介

nRF52840蓝牙5.0模块

I2C

(</wiki/%E5%88%86%E7%B1%BB:I2C%E6%8E%A5%E5%8F%A3>)

SPI

(</wiki/%E5%88%86%E7%B1%BB:SPI%E6%8E%A5%E5%8F%A3>)

## 开发环境搭建

一般情况下, NRF52840采用nRFgo Studio (Nordic官方下载链接 (<https://www.nordicsemi.com/Software-and-tools/Development-Tools/nRFgo-Studio/Download>)) 来烧录HEX固件, 比如蓝牙协议栈的HEX固件。但是由于nRFgo Studio存在Jlink驱动版本兼容等问题, 导致nRFgo Studio在一些电脑上用不了, 本次搭建开发环境采用命令行的方式代替nRFgo Studio, 可避免nRFgo Studio的兼容性问题。

## 安装Keil以及软件开发包

本产品提供的例程是基于Keil ARM-MDK开发环境, 需要用户安装Keil使用, 其他开发环境需求, 请自行搜索。

从Keil官网 (<https://www.keil.com/demo/eval/arm.htm>)下载安装包, 并安装。

注意：Keil为收费软件，需要注册使用，未注册版本只支持256kB以下大小的工程编译。

在安装了Keil之后，还需要安装支持包。下载支持包 (<http://www.waveshare.net/w/upload/c/c6/DeviceFamilyPack.7z>)，解压之后，双击NordicSemiconductor.nRF\_DeviceFamilyPack.8.17.0文件进行安装

## 安装SEGGER Embedded Studio for ARM 4.10a

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如果你需要测试蓝牙MESH例程，需要用到改开发环境

下载Embedded Studio ([https://pan.baidu.com/s/1Hbb7GPnUbtHuT-\\_Gd4gG3w?pwd=lcy5](https://pan.baidu.com/s/1Hbb7GPnUbtHuT-_Gd4gG3w?pwd=lcy5))解压并安装。

## 串口驱动安装

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开发板上设计了USB转串口电路，使用的USB转串口芯片是CP2102，在使用前需要安装该驱动，如果计算机已经安装了CP2102的串口驱动，则无需安装，可直接跳过此步骤。

# 资料

## 文档

- 用户手册 (<https://www.waveshare.net/w/upload/a/a8/NRF52840-Eval-Kit-user-manual-cn.pdf>)
- 开发板原理图 (<https://www.waveshare.net/w/upload/f/f2/NRF52840-Eval-Kit-Schematic.pdf>)

## 程序

- 示例程序 (<https://www.waveshare.net/w/upload/NRF52840-Eval-Kit-Demo-Code.7z>)

## 封装库

- CoreNRF52840封装库 ([https://www.waveshare.net/wiki/File:Core52840\\_PCB\\_LIB.7z](https://www.waveshare.net/wiki/File:Core52840_PCB_LIB.7z))

## 软件

### Windows开发软件

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- NRF5x-Command-Line-Tools-Win32-Win64 (<https://www.waveshare.net/w/upload/1/1e/NRF5x-Command-Line-Tools-Win32-Win64.7z>)
- NRF5x-MDK-GCC-5-Clause-NOD (<https://www.waveshare.net/w/upload/4/45/NRF5x-MDK-GCC-5-Clause-NOD.7z>)
- NRF5x-MDK-Keil4-5-Clause-NOD (<https://www.waveshare.net/w/upload/8/8d/NRF5x-MDK-Keil4-5-Clause-NOD.7z>)
- NRF5x-MDK-Pack-5-Clause-NOD (<https://www.waveshare.net/w/upload/1/11/NRF5x-MDK-Pack-5-Clause-NOD.7z>)

- NRF5x-MDK-SES-NOD (<https://www.waveshare.net/w/upload/e/e5/NRF5x-MDK-SES-NOD.7z>)
- NRF5x-Pynrfjprog (<https://www.waveshare.net/w/upload/0/05/NRF5x-Pynrfjprog.7z>)
- Nrfgostudio\_win-32-64 ([https://www.waveshare.net/w/upload/3/34/Nrfgostudio\\_win-32-64.7z](https://www.waveshare.net/w/upload/3/34/Nrfgostudio_win-32-64.7z))
- Embedded Studio ([https://pan.baidu.com/s/1Hbb7GPnUbtHuT-\\_Gd4gG3w?pwd=lcy5](https://pan.baidu.com/s/1Hbb7GPnUbtHuT-_Gd4gG3w?pwd=lcy5))
- NRF-Connect-Windows (<https://www.waveshare.net/w/upload/1/1e/NRF-Connect-Windows.7z>)
- Termite-3.4 (<https://www.waveshare.net/w/upload/a/a7/Termite-3.4.7z>)

## Android APP

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- NRF\_Beacon\_Service\_1.1.apk ([https://www.waveshare.net/w/upload/b/b3/NRF\\_Beacon\\_Service\\_1.1.apk](https://www.waveshare.net/w/upload/b/b3/NRF_Beacon_Service_1.1.apk))
- NRF\_Beacon\_1.4.2.apk ([https://www.waveshare.net/w/upload/1/1b/NRF\\_Beacon\\_1.4.2.apk](https://www.waveshare.net/w/upload/1/1b/NRF_Beacon_1.4.2.apk))
- NRF\_Connect\_for\_Mobile\_v4.17.0.apk ([https://www.waveshare.net/w/upload/f/ff/NRF\\_Connect\\_for\\_Mobile\\_v4.17.0.apk](https://www.waveshare.net/w/upload/f/ff/NRF_Connect_for_Mobile_v4.17.0.apk))
- NRF\_Logger\_1.5.0.apk ([https://www.waveshare.net/w/upload/d/de/NRF\\_Logger\\_1.5.0.apk](https://www.waveshare.net/w/upload/d/de/NRF_Logger_1.5.0.apk))
- NRF\_Toolbox\_for\_BLE\_v2.5.3.apk ([https://www.waveshare.net/w/upload/0/02/NRF\\_Toolbox\\_for\\_BLE\\_v2.5.3.apk](https://www.waveshare.net/w/upload/0/02/NRF_Toolbox_for_BLE_v2.5.3.apk))
- nRF Master Control Panel (BLE)\_3.4.1.com.apk ([https://www.waveshare.net/w/upload/2/25/NRF\\_Master\\_Control\\_Panel\\_%28BLE%29\\_3.4.1.apk](https://www.waveshare.net/w/upload/2/25/NRF_Master_Control_Panel_%28BLE%29_3.4.1.apk))

## Keil DeviceFamilyPack

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- DeviceFamilyPack.7z (<https://www.waveshare.net/w/upload/c/c6/DeviceFamilyPack.7z>)

## APP源码

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- Android APP源码 (<https://www.waveshare.net/w/upload/c/ca/NRF52840-Android.7z>)
- IOS APP源码 (<https://www.waveshare.net/w/upload/6/68/NRF52840-IOS.7z>)

## 数据手册

- nRF52840数据手册 ([https://www.waveshare.net/w/upload/e/e1/NRF52840\\_PS\\_v1.0.pdf](https://www.waveshare.net/w/upload/e/e1/NRF52840_PS_v1.0.pdf))

