

## nRF52840 Micro Development Kit

SKU 102991094



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### Description

The nRF52840-MDK is a versatile, easy-to-use IoT hardware platform for Bluetooth 5, Bluetooth Mesh, Thread, IEEE 802.15.4, ANT and 2.4GHz proprietary applications using the nRF52840 SoC.

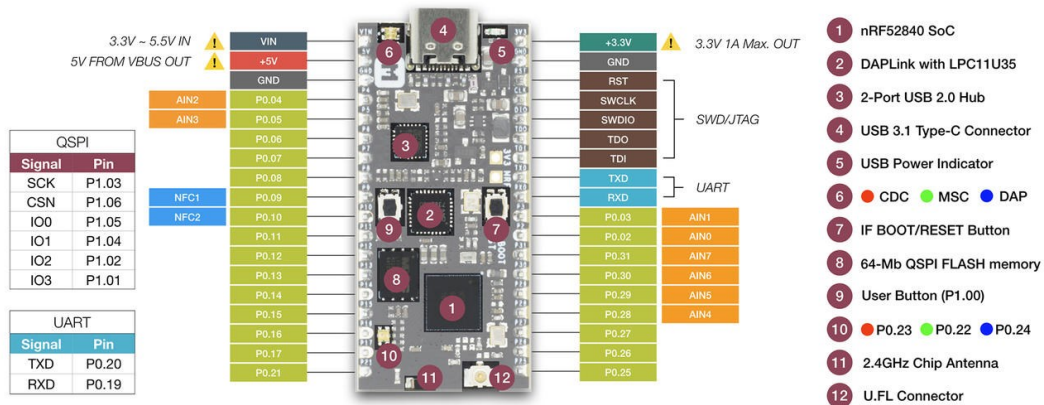
The development kit comes with a fully integrated debugger (also known as [DAPLink](#)) that provides USB drag-and-drop programming, USB Virtual COM port and CMSIS-DAP interface.

The kit contains a Microchip USB 2.0 Hi-Speed hub controller with two downstream ports: one for DAPLink interface and one for nRF52840 USB device controller. The kit also features ultra-low power 64-Mb QSPI FLASH memory, programmable user button, RGB LED, up to 24 GPIOs, antenna selection for custom applications.

It supports the standard Nordic Software Development Tool-chain using GCC, Keil and IAR. It can also be used to play with many popular frameworks, such as nRF5 SDK, nRF5 SDK for Mesh, OpenThread, ZigBee 3.0, Mbed OS 5, Zephyr, Mynewt, Web Bluetooth, iBeacon, Eddystone, and more.

### Hardware Features:

- Nordic nRF52840 System-on-Chip
  - ARM® Cortex®-M4F processor optimized for ultra-low power operation
  - Combining Bluetooth 5, Bluetooth Mesh, Thread, IEEE 802.15.4, ANT and 2.4GHz proprietary
  - On-chip NFC-A tag
  - On-chip USB 2.0 (Full speed) controller
  - ARM TrustZone® Cryptocell 310 security subsystem
  - 1 MB FLASH and 256 kB RAM
- Program/Debug options with DAPLink
  - MSC - drag-n-drop programming flash memory
  - CDC - virtual com port for log, trace and terminal emulation
  - HID - CMSIS-DAP compliant debug channel
  - WEBUSB HID - CMSIS-DAP compliant debug channel
- Microchip 2-Port USB 2.0 Hi-Speed Hub Controller
- External ultra-low power 64-Mb QSPI FLASH memory
- Up to 24 GPIOs available via headers
- IF Boot/Reset Button
- User programmable Button and RGB LED
- On-board 2.4G chip antenna
- U.FL connector selectable for external antenna
- 3.3V regulator with 1A peak current output
- VBUS & VIN Power-Path Management
- Reversible USB 3.1 Type-C Connector
- Breadboard-friendly with dual 18-Pin headers
- Measures 1.97" x 0.9" x 0.51" (50mm x 23mm x 13mm) with headers soldered in



## Technical Details

Dimensions 50mm x 23mm x 13mm  
Weight G.W 36g  
Battery Exclude

### Part List

nRF52840-MDK Board1  
USB 3.1 Type-C Cable 1

### ECCN/HTS

ECCN 3A991.a  
HS CODE 8543709990

### Documents

Product Wiki  
Getting Started with nRF5 SDK  
Getting Started with OpenThread  
Getting Started with ARM Mbed OS  
Getting Started with Zephyr  
Getting Started with Mynewt  
CNX-SOFT Reference

## Questions and Answers

Have a question about this? Ask people who

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Got two nRF52840-MDK kits. Tried MDK#1: green LED OK, serial OK, but not found on nRF Connect. Tried 2nd one, this time with nRF Connect up and scanning. When I plugged in MDK#2, it showed up on nRF Connect. I connected, then the MDK went away -- not seen on nRF Connect, on Bluefruit app, etc. (Did I smell smoke?..) Flashed other sample apps via copy to DAPLINK drive. LED, serial work, but no joy on RF. Did I fry the radios on my MDKs simply by powering them up?

Reed.Dale on Jul 31, 2018

Reply upvote (0)

Hi there, Very sorry for the late reply. Have you solved your problem? Could you tell me more details about your phone and system. It seems that you should clear the GATT cache on mobile device. Pls let me know if you have any concerns. support@makerdiary.co

support on Aug 09, 2018 21:16 PM

Reply upvote (0)

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50+ Available

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Technical Details

Questions and Answers





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