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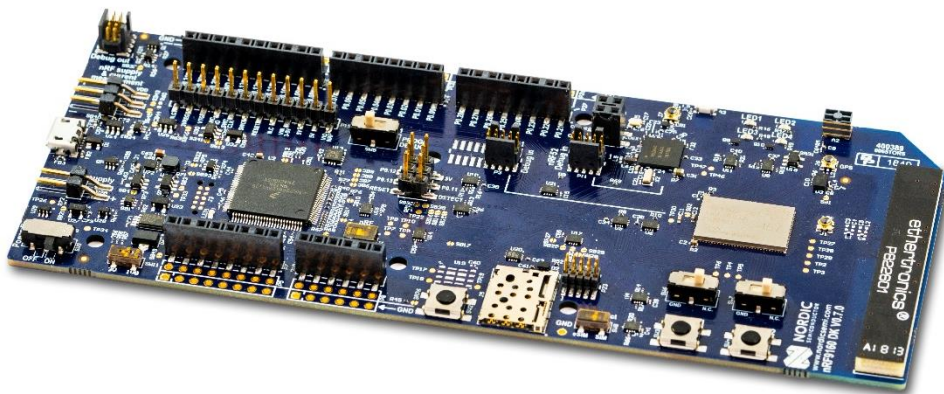
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LAUNCH PACK

nRF9160 Development Kit

Public launch date/confidential until: December 12th, 2018



PRODUCT INFORMATION

Manufacturer	Nordic Semiconductor
Product name	nRF9160 Development Kit / nRF9160 DK
Part number/Ordering code	nRF9160-DK
Availability	From December 12th, 2018
Recommended order quantity	1
Lead time	4 weeks
COO	Norway
ECCN	5A992
Distribution cost	124 USD
Recommended resale price	139 USD
Related products	nRF9160 SiP
Related software/protocol stacks	nRF Connect SDK, Modem Firmware
Replacing products	N/A
Supporting products	nRF Connect SDK, Modem Firmware, nRF Connect for Cloud
Product page	http://www.nordicsemi.com/eng/Products/Cellular/IoT/nRF9160-DK (Available from Dec 12th)

PRODUCT SPECIFICATIONS

Description/Function	Affordable, flexible development kit for nRF9160 SiP for LTE-M/NB-IoT+ GPS. nRF52840 for Bluetooth Low Energy/ANT/802.15.4/NFC
Product Category	LTE-M/NB-IoT/Bluetooth Low Energy
RoHS	Yes + document
Product	Development Kit
Tool for evaluation of	nRF9160 SiP
Frequency	700MHz - 2.2GHz.
Interfaces	SPI/UART/I ² C/PDM/I ² S/NFC/ μ SIM card
Operating supply voltage	3.1V - 5.5V
Antenna connector type	50 Ω antenna
Core	Cortex-M33
Memory options	1MB Flash 256kB RAM
Data Bus Width	32 bits
Supporting OTA-DFU	Yes.
Packaging/content	1 x nRF9160-DK, 1 x eSIM card

OVERVIEW

The nRF9160 Development Kit (DK) is a versatile single board development kit for cellular IoT development with LTE-M and NB-IoT and GPS functionality using the nRF9160 System-in-Package (SiP).

The kit is hardware compatible with the Arduino Uno Revision 3 standard, making it possible to use 3rd-party shields that are compatible to this standard. The kit allows access to all I/O and interfaces via connectors and has 4 LEDs, 2 buttons and 2 switches which are user-programmable.

The nRF9160 DK also has a 4FF SIM card slot for connecting the nRF9160 SiP to a cellular network. In the nRF9160 DK a data roaming eSIM card from iBasis preloaded with 10MB of data is included. This card can be used for LTE-M access. Please check www.nordicsemi.com for supported countries / networks.

The nRF9160 SiP features a globally compatible LTE modem supporting the following bands:

US: B2, B4, B5, B12, B13

EU/APAC: B3, B8, B20, B28

Please check www.nordicsemi.com for latest information on regional regulatory and other certifications for this board.

Additionally the nRF9160 SiP has an integrated Arm® Cortex™-M33 CPU and features Arm TrustZone and Arm CryptoCell security technology.

The device includes a broad range of digital and analog interfaces and peripherals for single device design possibilities.

The board also features an nRF52840 SoC for Bluetooth® Low Energy, ANT, 802.15.4 and 2.4GHz proprietary applications.

The kit supports the standard Nordic Software Development Tool-chain using Segger Embedded Studio. Program/Debug options on the kits are Segger J-Link OB.

All necessary modem firmware, RTOS and application software is provided to implement a full cellular IoT design. The nRF9160 DK is complemented by nRF® Connect for Cloud which is a cloud based provisioning and test tool for Nordic cellular and Bluetooth devices.

KEY FEATURES

- Affordable, rapid prototyping and development solution for LTE/NB-IoT with nRF9160 SiP
- Integrated LTE-M and NB-IoT modem
- Cellular band support: US: B2, B4, B5, B12, B13. EU/APAC: B3, B8, B20, B28
- Certification: please check www.nordicsemi.com for latest information
- Integrated GPS
- Arm Cortex-M33™ CPU
- Arm TrustZone
- Arm CryptoCell 310 cryptographic accelerator
- Arduino Rev. 3 compatible connector for use with 3rd party shields
- All I/O (32) and interfaces available via connectors
- Segger J-Link OB Program/Debug supported
- Support for Program/Debug of external boards
- USB interface for Power and Program/Debug.
- USB interface for CDC/UART
- SWF RF connector for direct RF measurements
- Pins for power consumption measurements
- 2 x user-programmable buttons
- 2 x user-programmable switches
- 4 x user-programmable LEDs

APPLICATIONS

- Cellular IoT applications
- Logistics and asset tracking
- Metering
- Smart City
- Smart Infrastructure
- Smart Industry
- Smart Agriculture
- Wearables
- Medical

CALL-TO-ACTION

- 1) Please add “nRF9160 DK” to your website/online store and publish no earlier than public launch date, December 12th, 2018.
- 2) Return of old kits: Yes
- 3) Promotion. See below.

PROMOTION

Please go to [Filecamp](#) for access to photo of the nRF9160 DK and nRF9160 SiP.

Images/photos	Available on Filecamp
Related social media hashtags	#nRF9160, #nRF91, #LTE, #NBloT, #cellularIoT #NordicSemi
Nordic social media accounts Co-promotion: Follow, share, like and post about us & our products on social media.	Youtube Twitter / @NordicTweets Facebook and LinkedIn

CONTACTS For product related questions, please contact your local Nordic Semiconductor sales contact. For marketing and PR related questions, please contact us at marketing@nordicsemi.no