

Cellular IoT development

on Nordic Thingy:91

Webinar

Nordic Semiconductor

February 2020

Duration: 50-60 min

Today's hosts

Petter Myhre



Product Marketing
Engineer



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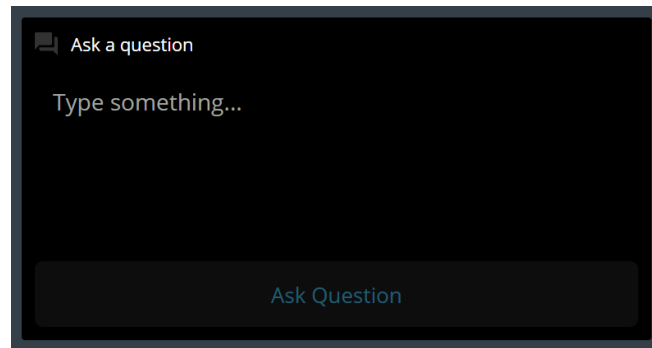


Technical Product Manager
Cellular IoT



Practicalities

- Duration: 50-60 mins
- Questions are encouraged!
- Please type questions in the top of the right sidebar
 - All questions are anonymous
- We will answer questions towards the end
- If you have more questions please use DevZone
- A recording of the webinar will be available together with the presentation at webinars.nordicsemi.com



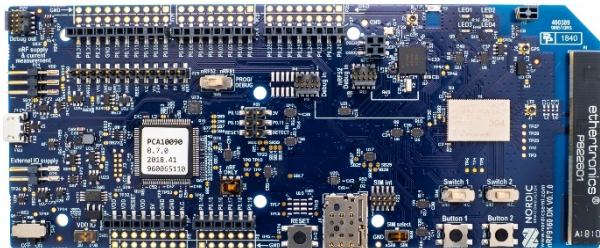
Content

- What is Nordic Thingy:91?
- Unboxing
- Installing nRF Connect SDK
- How to compile and flash
- How to modify an example
- Q&A



Cellular IoT hardware

nRF9160 Development Kit



Cellular IoT development kit

On-board debugger
Easy external connections

Nordic Thingy:91

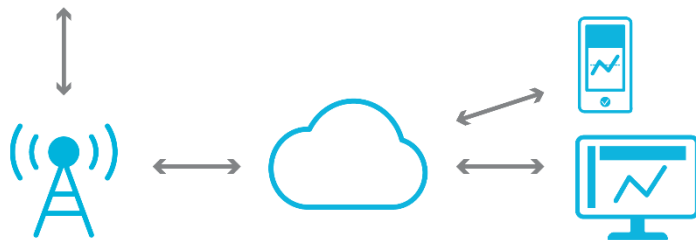


Cellular IoT prototyping platform

Rapid proof-of-concept
Enclosure and battery

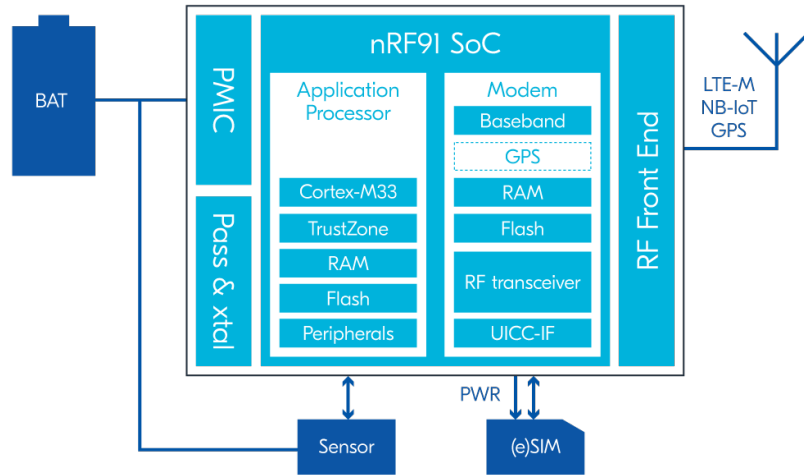
Nordic Thingy:91

Multi-sensor cellular IoT prototyping platform



- Built with nRF9160 SiP
 - LTE-M, NB-IoT and GPS
- Fully packed with sensors!
- Battery-operated
- Bluetooth Low Energy
- Near-field communication NFC
- nRF Connect SDK
- nRF Connect Cloud
- Hardware design files

nRF9160 is a market leading product



nRF9160 System in Package

Designed for low power

- Best-in-class power consumption, in all modes
- Integrated memories and low-leakage process features
- Common power management and clock system for modem and application

Smallest size

- Integrated and used advanced packaging techniques to reduce solution size

Ease of use

- Enable self-service for thousands of customers

Powerful modem capabilities

- LTE-M, NB-IOT and GPS support

Cellular IoT in one chip!

- Everything included except battery, antenna, SIM and application specific sensors.
- World wide coverage.

Prototyping and proof-of-concept

- Bosch Sensortec BME680
 - Relative humidity
 - Barometric pressure
 - Ambient temperature
 - Air quality, (VOC)
- Analog Devices ADXL3x2
 - ADXL362 Low power wake-up
 - ADXL372 Impact and shock detection
- ROHM Semiconductor BH1749
 - Light and color

