NORDIC techTOUR

nRF 51 SDK

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nRF 51 SDK

- Single resource for all nRF51 series SoC related FW
  - nRF51822
  - nRF51422
- Continuously updated for fixes, new examples etc.
- Periodic releases to reflect additions etc.
- Once signed up for the SDK you will receive notification of changes and updates

SDK

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nRF518 SDK

- Software stacks
  - S110 *Bluetooth®* low energy Peripheral
  - S120 *Bluetooth®* low energy Central (alpha)
  - Gazell™ Proprietary 2.4GHz RF
- Software Libraries
  - Common for all nRF51 ICs
  - ARM CMSIS (-CORE, -SVD, -DSP)
  - Enhanced ShockBurst™ API
  - Drivers for device peripherals (SPI, 2 wire, UART, timers etc.)
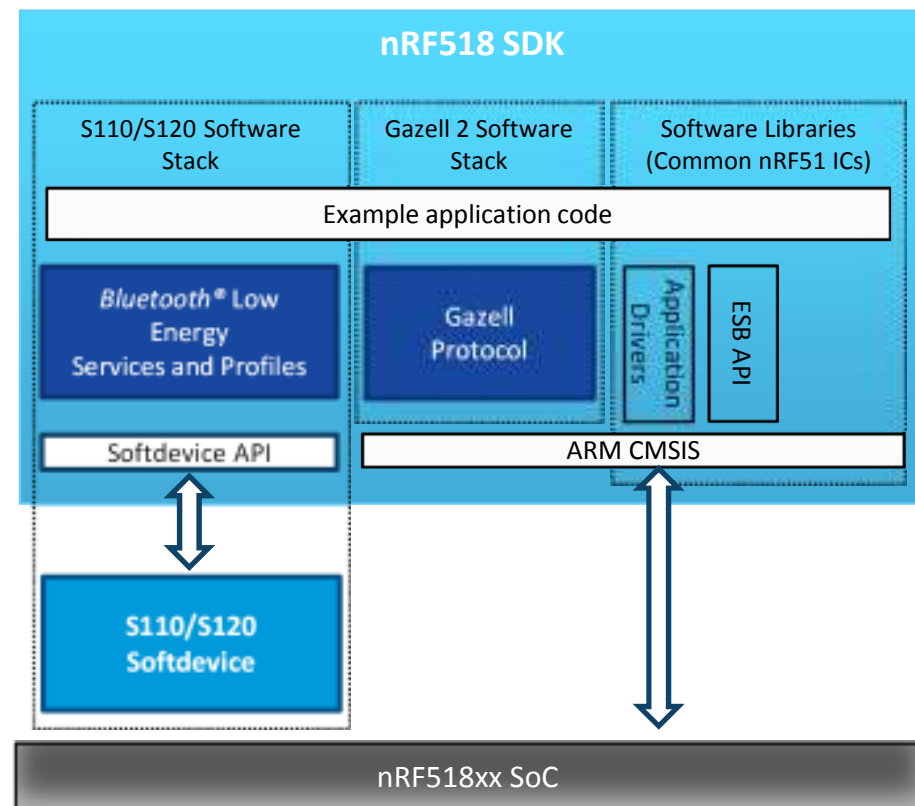
nRF514 SDK

- SDK for application development on ANT™ nRF514xx ICs

- ANT-FS and ANT+ Device profiles

- Software Libraries
  - Common for all nRF51 ICs
  - ARM CMSIS (-CORE, -SVD, -DSP)
  - Enhanced ShockBurst™ API
  - Drivers for device peripherals (SPI, 2 wire, UART, timers etc.)
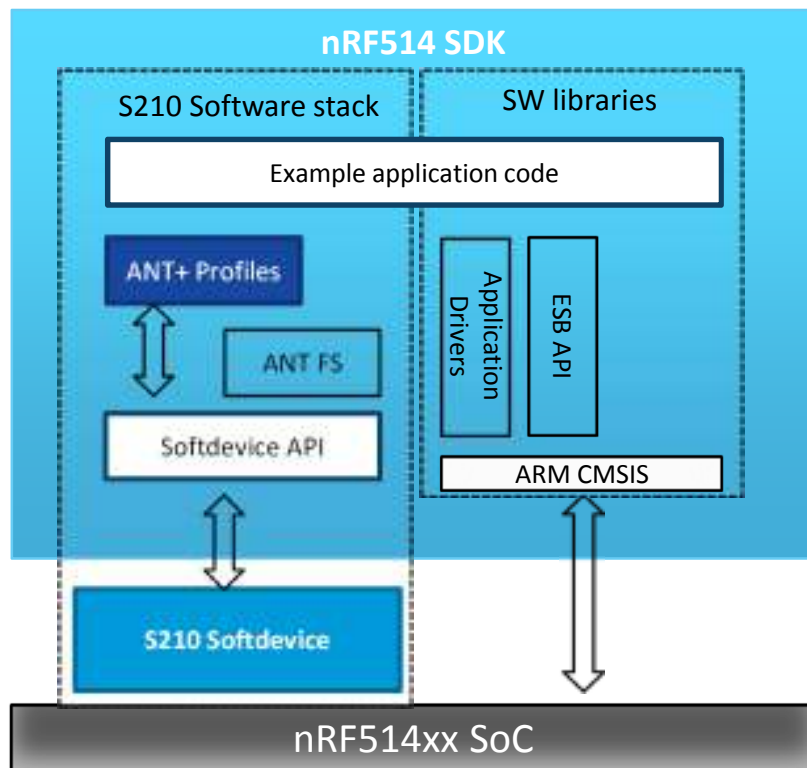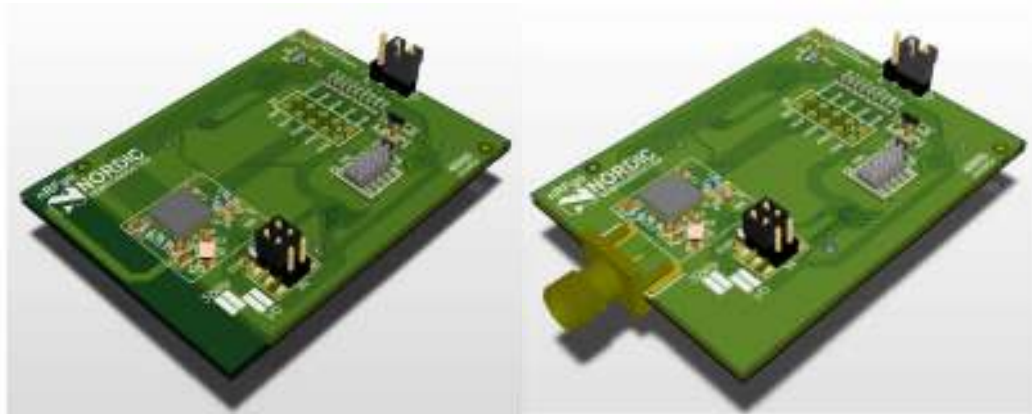
nRF51 HW Kit walkthrough

nRFGo mother board

Feature highlights

- Supports all Nordic product lines
- Flexible configuration
- Pin access to all GPIO's
    - Can be routed for buttons or LEDs
- Support for extension boards
- Serial output connection
- Powered externally, by battery, or via USB

nRF51822 Development Kit contents
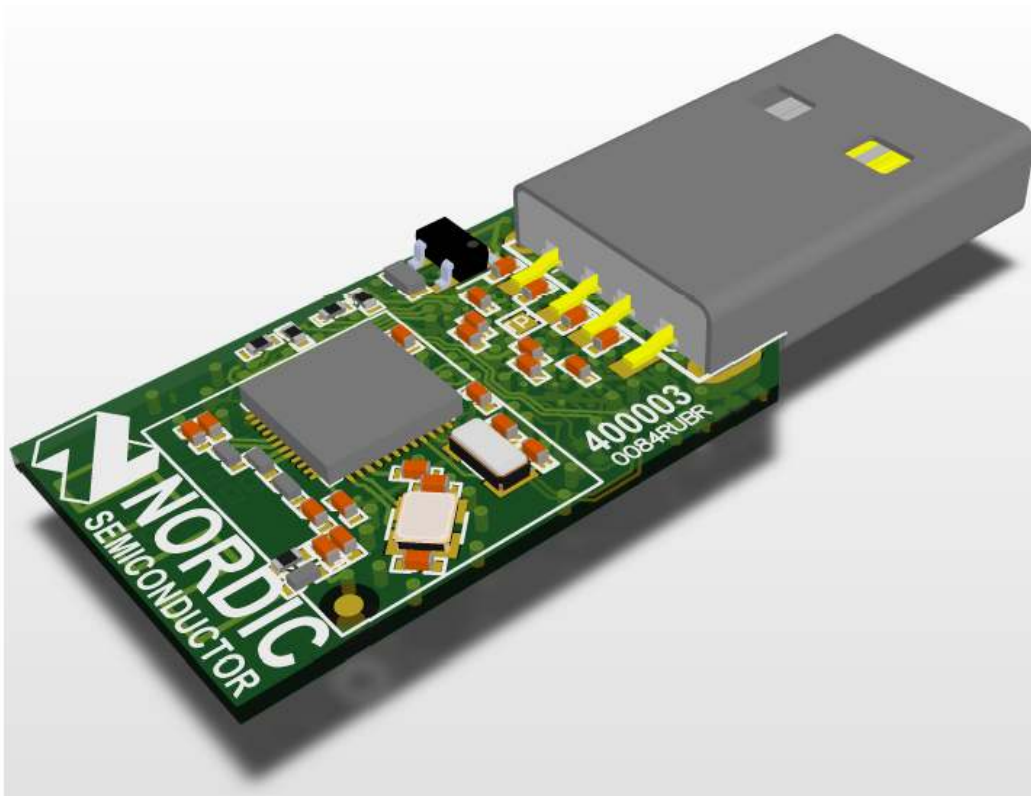
Dev-kit module

Feature highlights

- Works with nRFgo Motherboard
- PCB/ SMA antenna solutions
- Serial Wire Debug (SWD) access

Debugger support

- Segger
  - On board
  - Stand alone
- 2-pin Serial Wire Debug (SWD) interface
- Breakpoints
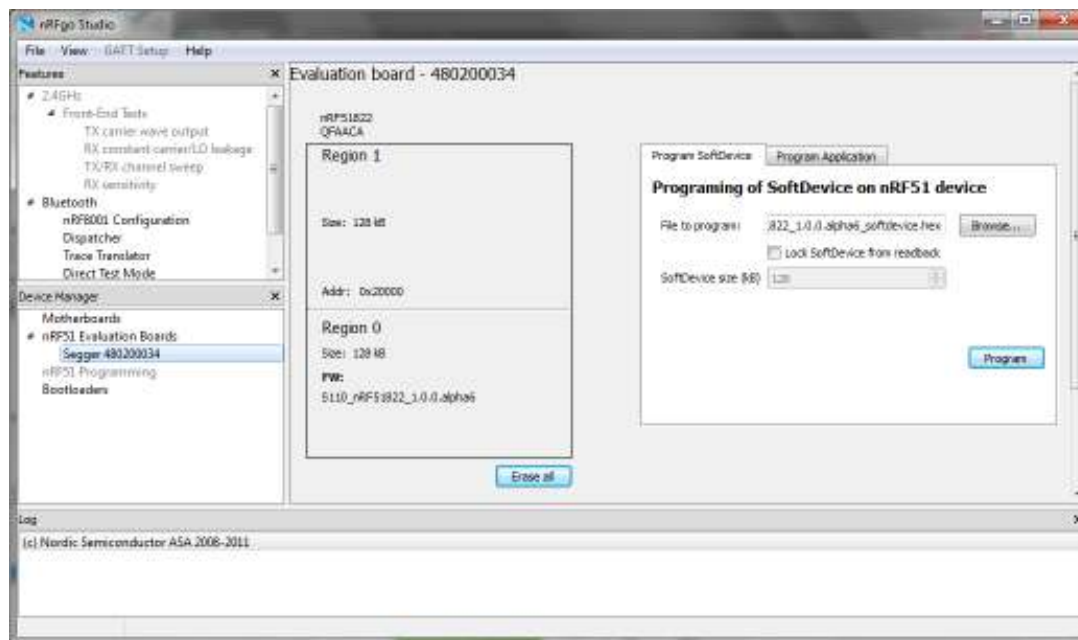- Single stepping

nRF51 Development Dongle, PCA10000

Feature highlights

- nRF51822 6x6mm 48-pin QFN
- PCB antenna
- On-board Segger hardware
 - Debugger / programmer
  - USB to UART bridge

nRF51822 Evaluation Kit contents

nRFGo Studio

Feature highlights

- Low level device programming*
  - SoftDevices
  - Applications
  - Read back protection

- Connected device identification
  - Chip version
  - Available flash memory
  - SoftDevice version and size

- Board configuration
  - Set voltage level for nRFGo motherboards

- Radio Test feature

Master Control Panel
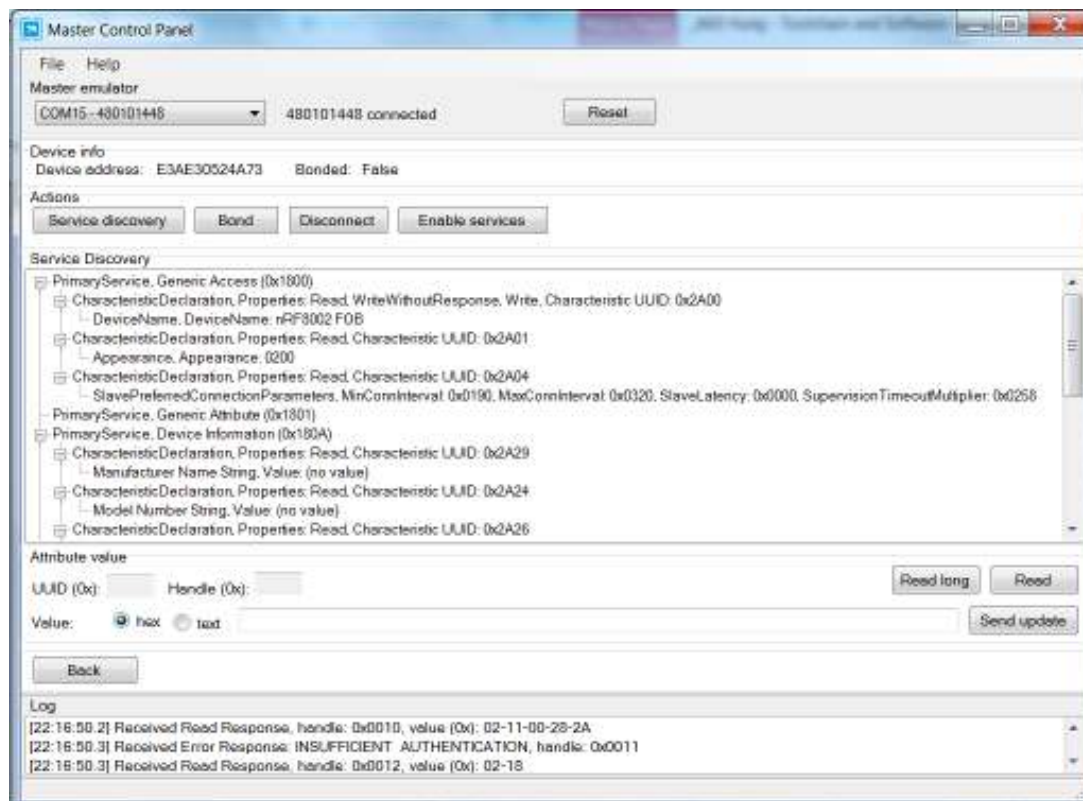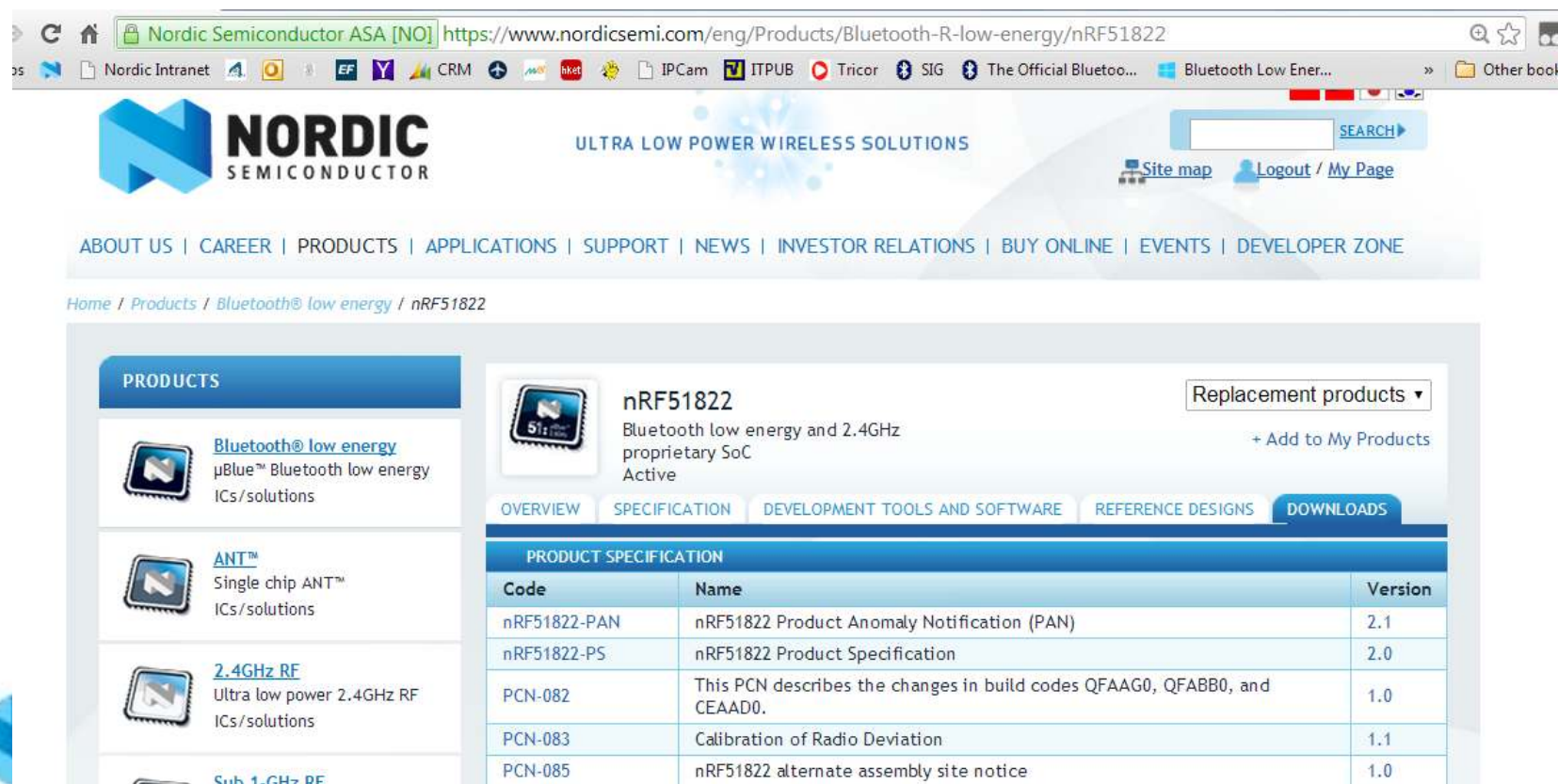
Feature highlights

- Works with the Master Emulator dongle as a BLE Host
- Discovery BLE devices
- Set up a connection
- Send/receive data packets
- APIs and examples provided

nRF51 SDK walkthrough

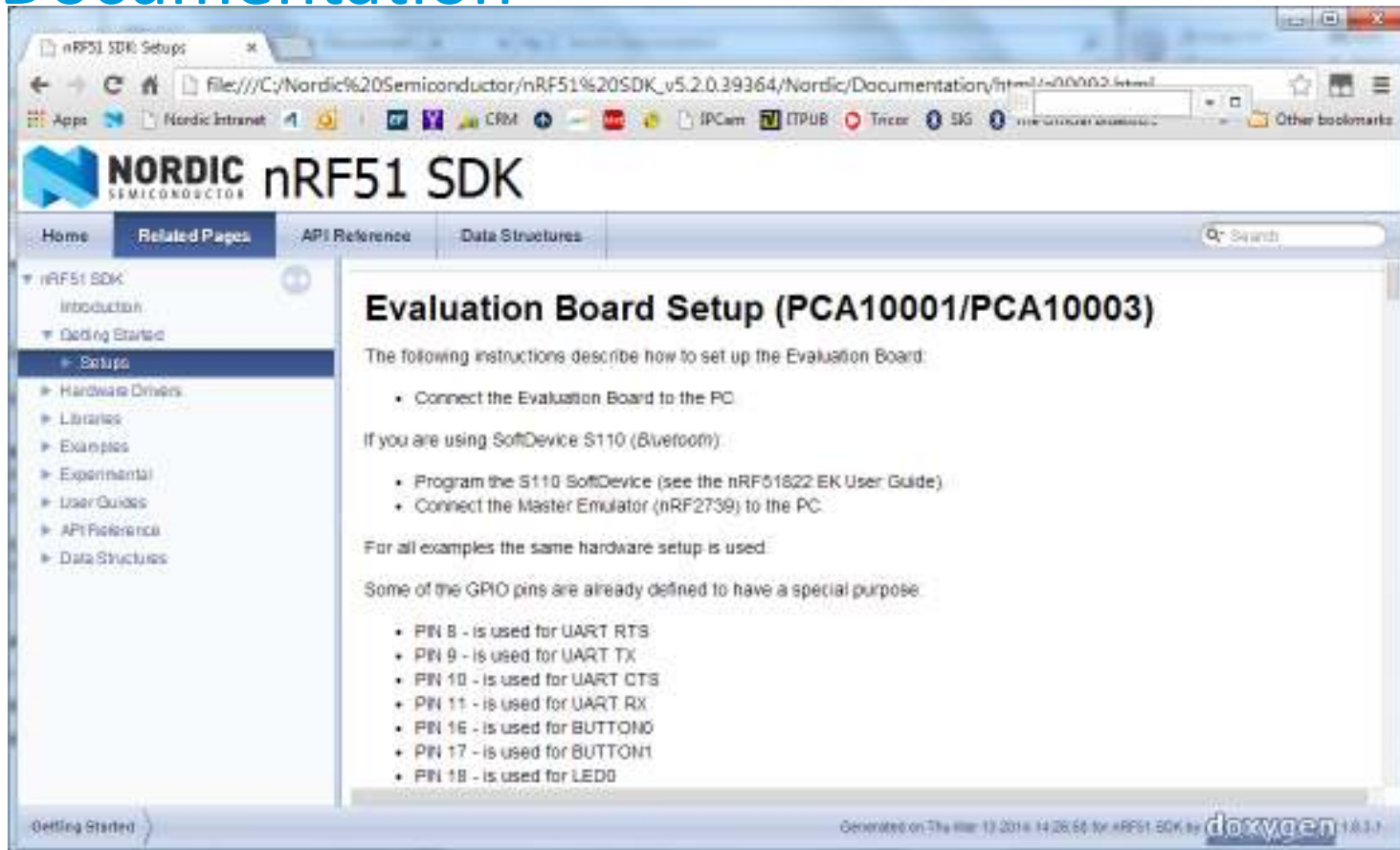# Download documentation and SDK, SoftDevice and supported software

http://www.nordicsemi.com/

SDK Documentation

nRF 51 SDK