

NORDIC tech TOUR

nRF 51 SDK



nRF 51 SDK

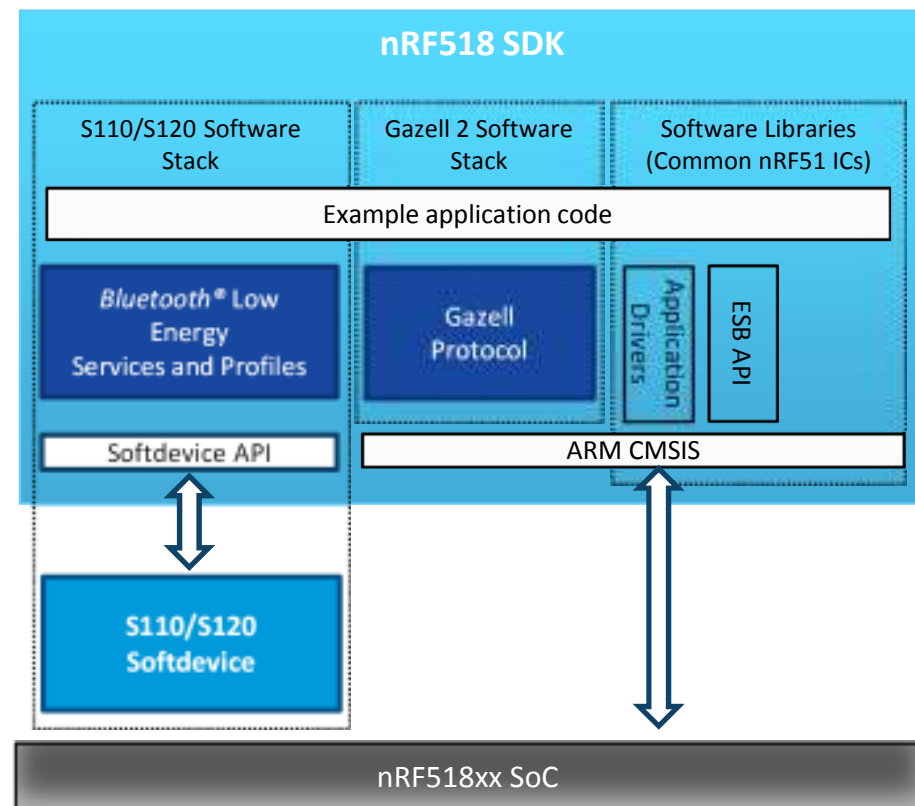
- Single resource for all nRF51 series SoC related FW
 - nRF51822
 - nRF51422
- Continuously updated for fixes, new examples etc.
- Periodic releases to reflect additions etc.
- Once signed up for the SDK you will receive notification of changes and updates



SDK

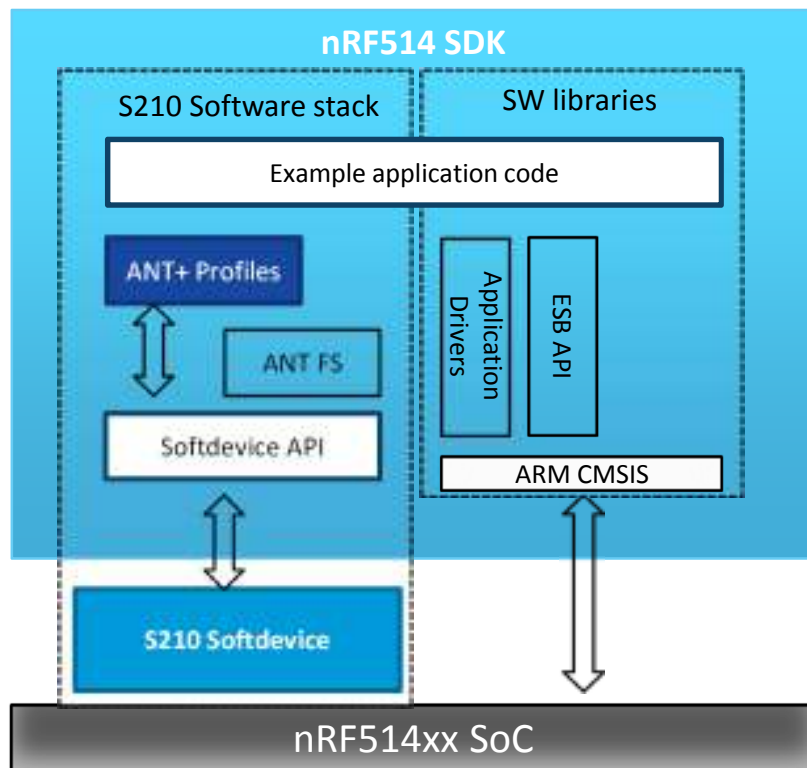
nRF518 SDK

- 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



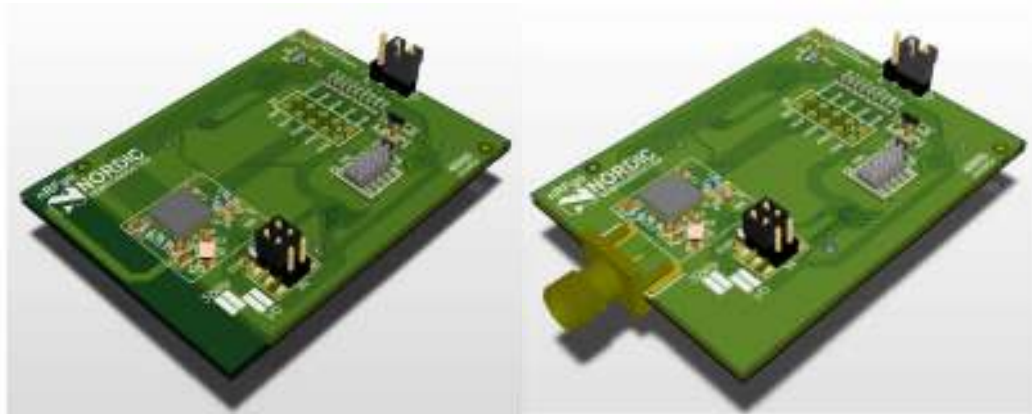
Feature highlights

- 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

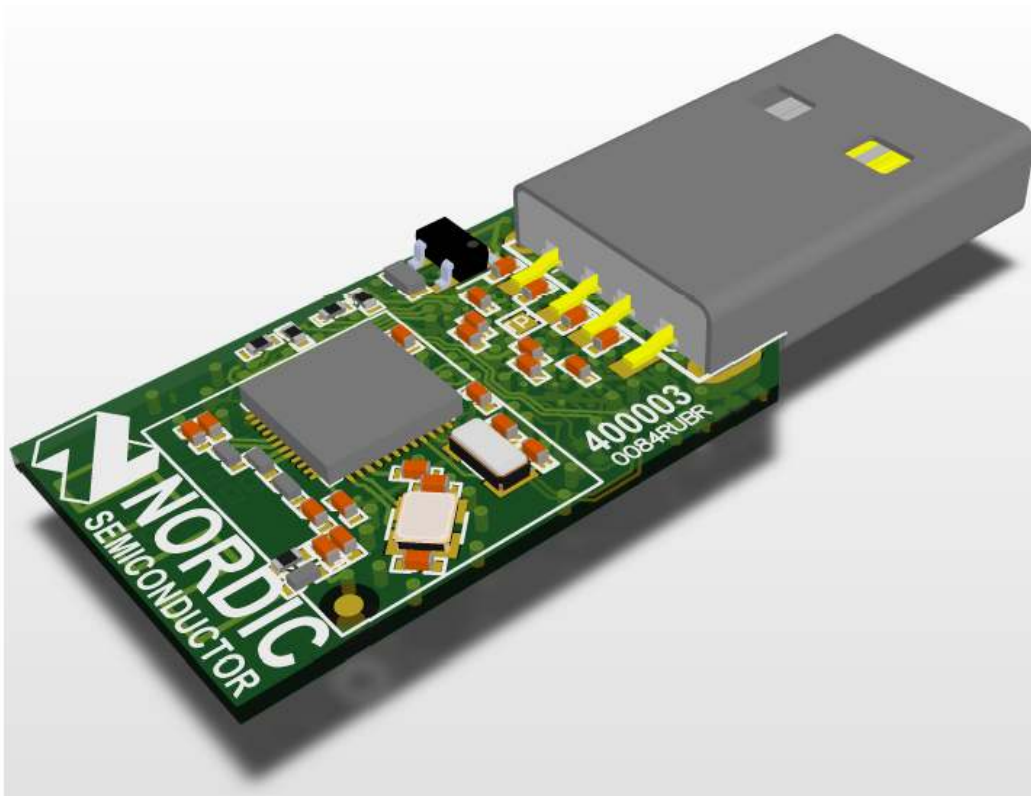
- Works with nRFgo Motherboard
- PCB/ SMA antenna solutions
- Serial Wire Debug (SWD) access

Debugger support



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

nRF51 Development Dongle, PCA10000



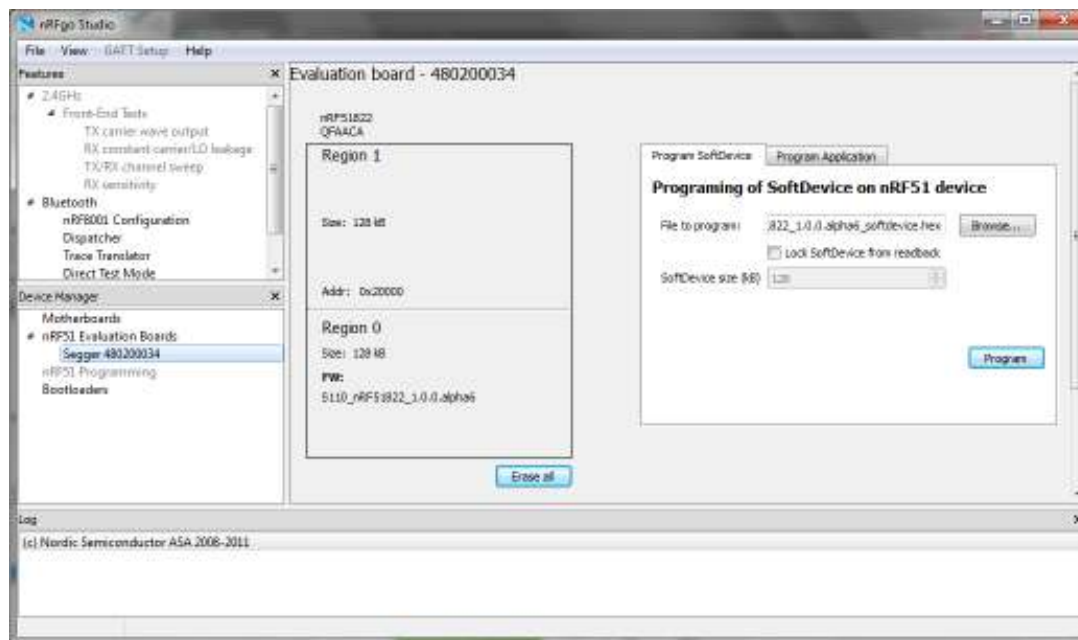
Feature highlights

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

nRF51822 Evaluation Kit contents



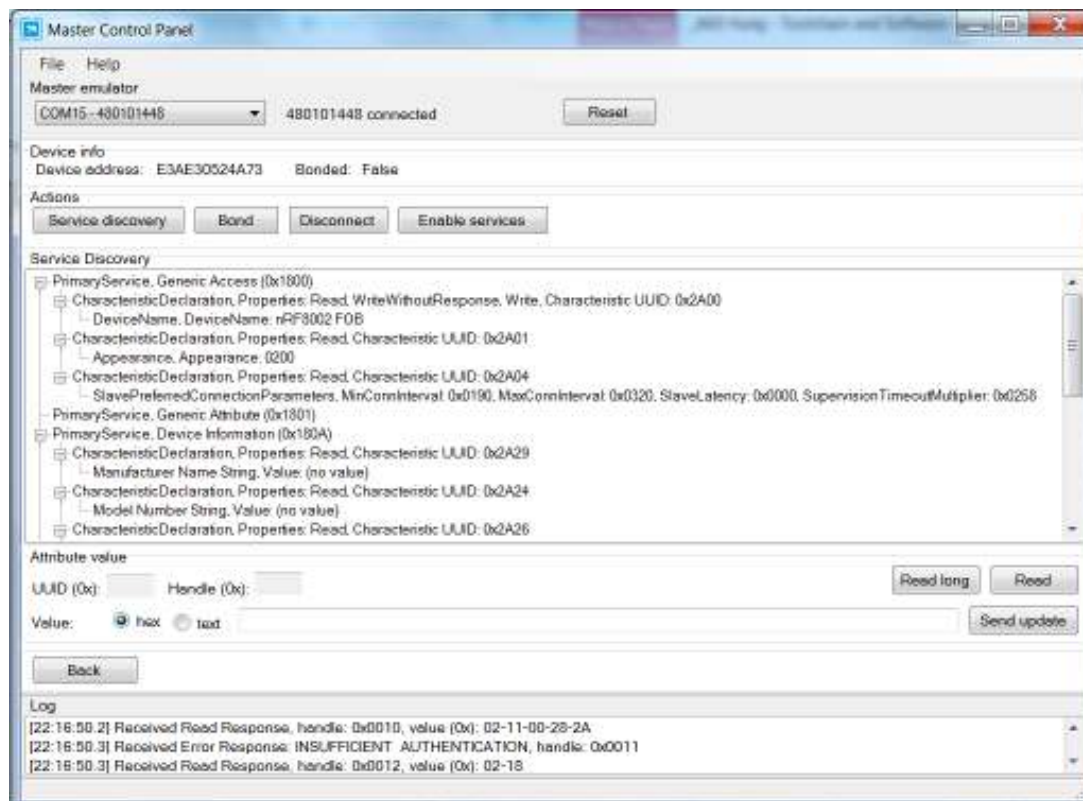
nRFGo Studio



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



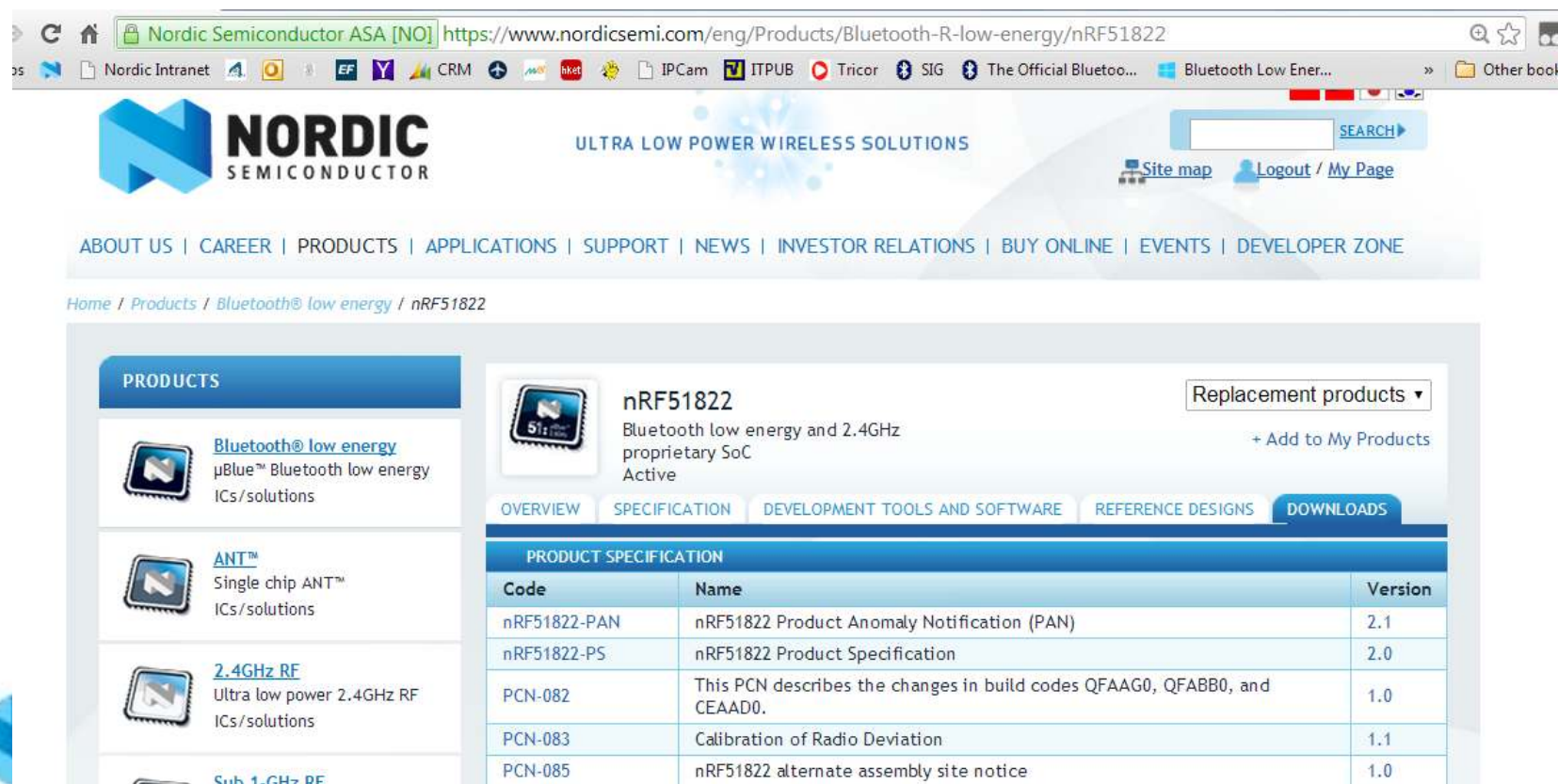
Feature highlights

- 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

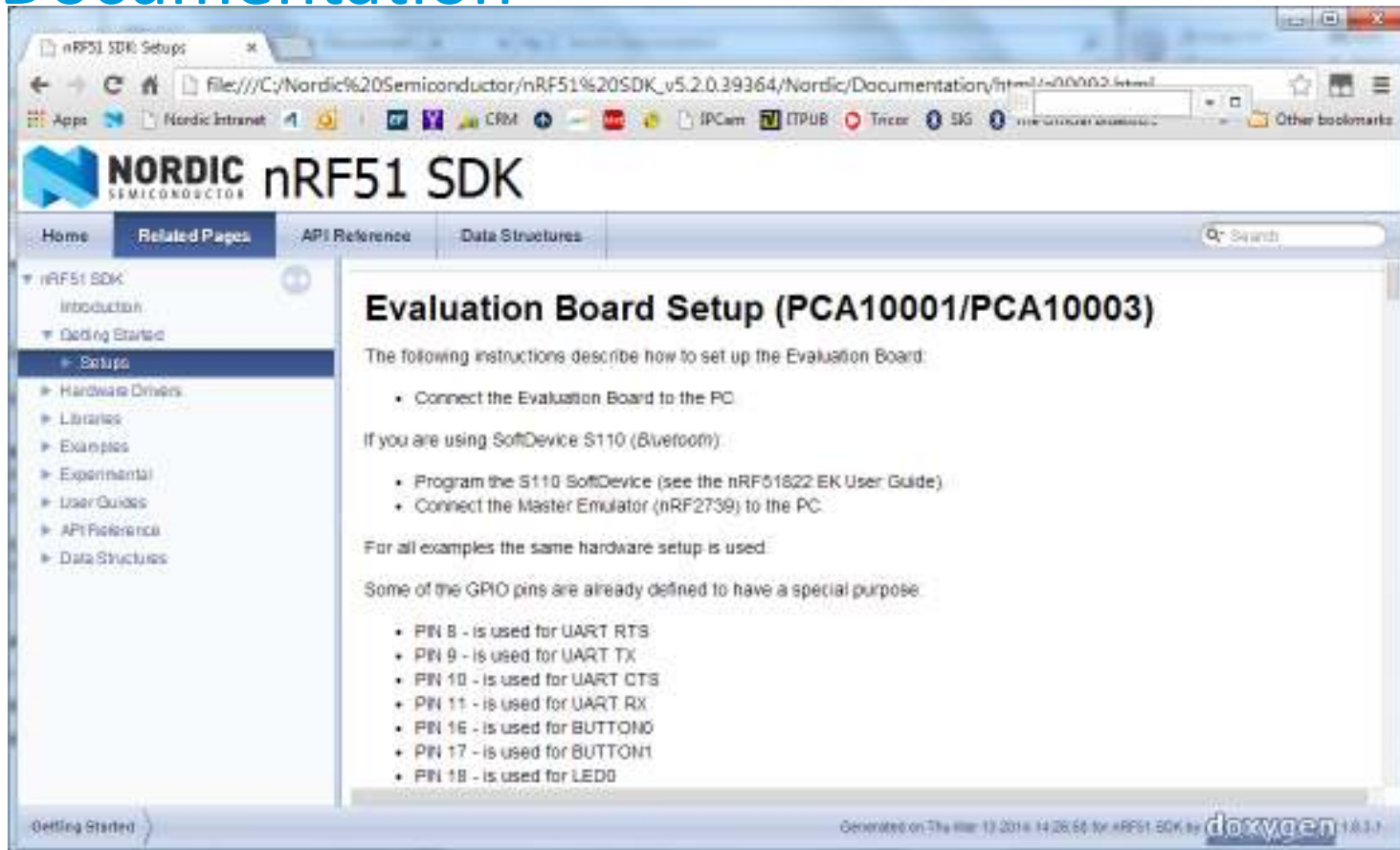
<http://www.nordicsemi.com/>



The screenshot shows the Nordic Semiconductor website for the nRF51822 product. The page includes a navigation bar with links like ABOUT US, CAREER, PRODUCTS, APPLICATIONS, SUPPORT, NEWS, INVESTOR RELATIONS, BUY ONLINE, EVENTS, and DEVELOPER ZONE. The main content area features a sidebar with product categories (Bluetooth® low energy, ANT™, 2.4GHz RF, Sub 1-GHz RF) and a main section for the nRF51822 product. The nRF51822 section includes a product image, a description (Bluetooth low energy and 2.4GHz proprietary SoC Active), and a tabbed interface for OVERVIEW, SPECIFICATION, DEVELOPMENT TOOLS AND SOFTWARE, REFERENCE DESIGNS, and DOWNLOADS. The SPECIFICATION tab is active, displaying a table of product specifications.

PRODUCT SPECIFICATION		
Code	Name	Version
nRF51822-PAN	nRF51822 Product Anomaly Notification (PAN)	2.1
nRF51822-PS	nRF51822 Product Specification	2.0
PCN-082	This PCN describes the changes in build codes QFAAG0, QFABB0, and CEAAD0.	1.0
PCN-083	Calibration of Radio Deviation	1.1
PCN-085	nRF51822 alternate assembly site notice	1.0

SDK Documentation



NORDIC tech TOUR

nRF 51 SDK