



nRF51 Toolchain & Software Development kit

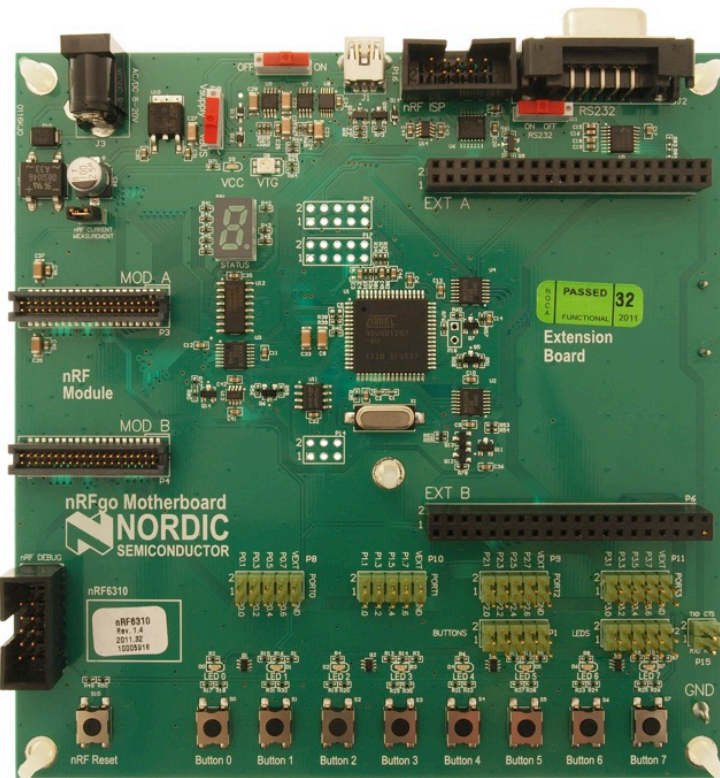
Agenda

- Development Kit
- Evaluation Kit
- Debugger
- SDK

nRF51 Series Environment

Development hardware	Protocols / SoftDevices	IDE Support and tools	Documentation
Development kits	2.4 GHz (Gazell, ESB libraries)	SDK	Reference manual
Evaluation kits	ANT™ (S210 SoftDevice)	nRFGO Studio	Product specification
	BLE (S110 SoftDevice)	Master Emulator	SoftDevice specification
		3rd party tools	Kit User guides
		<ul style="list-style-type: none">• Keil µVision• ANTware• ++	SDK documentation

nRFGo mother board



Feature highlights

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

Debugger support

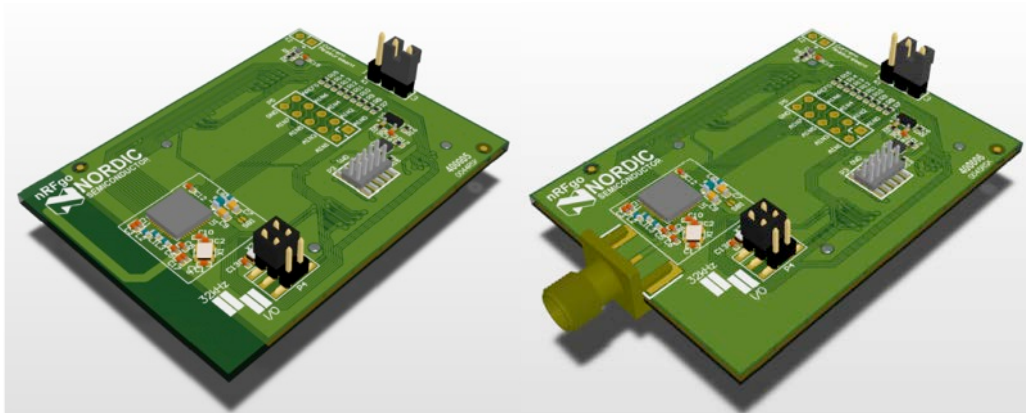


- Segger
 - On board
 - Stand alone
- 2-pin Serial Wire Debug (SWD) interface
- Breakpoints
- Single stepping

GLOBAL
tech **TOUR**

hRF
5
SERIES

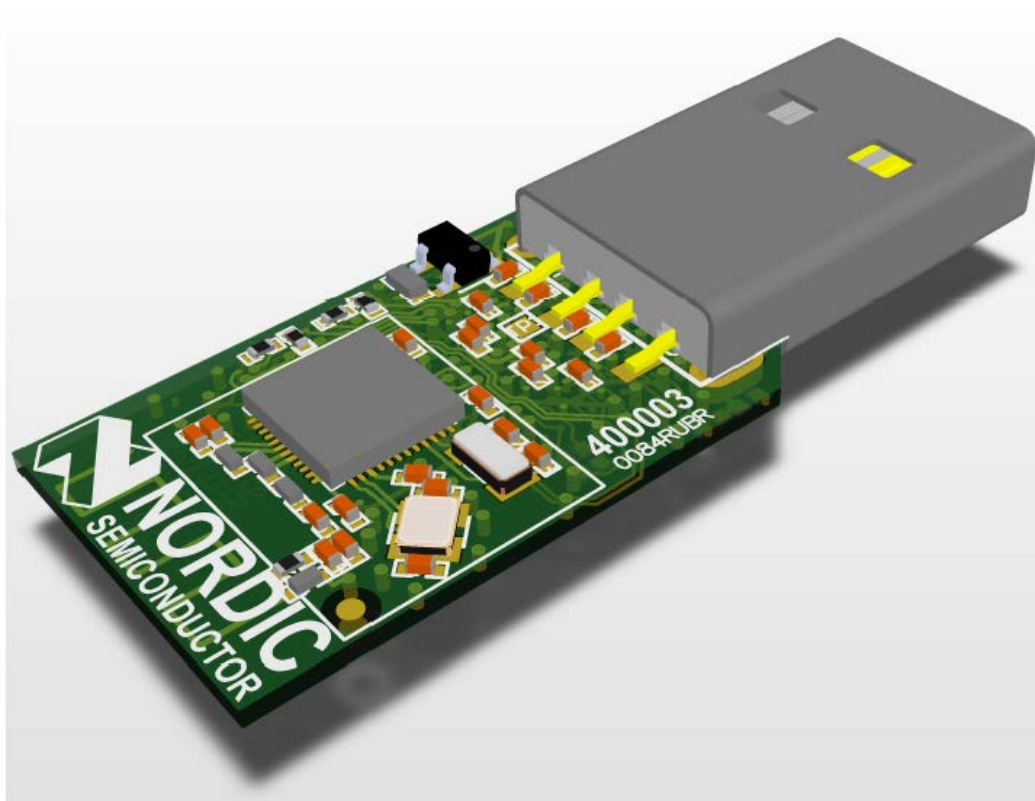
Dev-kit module



Feature highlights

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

nRF51 Development Dongle, PCA10000



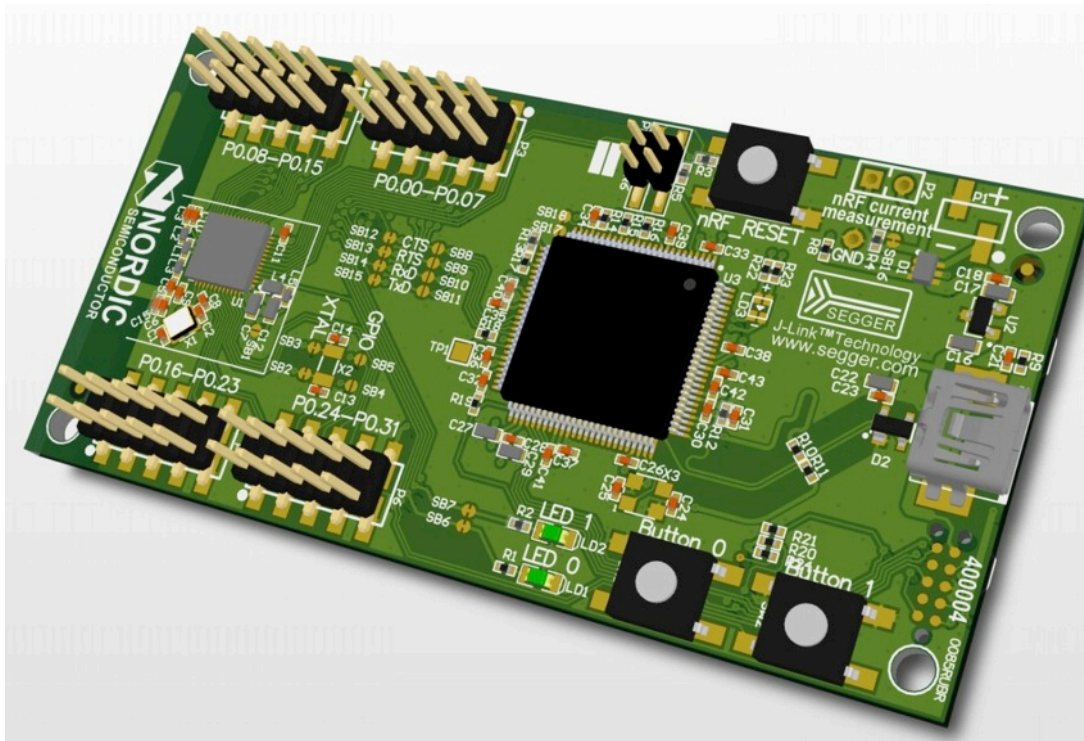
Feature highlights

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

nRF51822 Evaluation Kit contents



nRF51822 Evaluation Board, PCA10001



Feature highlights

- nRF51822 6x6mm 48-pin QFN
- PCB antenna
- Battery holder
- On-board Segger hardware
 - Debugger / programmer
 - USB to UART bridge
- Pin headers, LEDs and buttons

Software Development Kit (SDK) portfolio

Name	Examples for	Content	Compatible SoftDevice
nRF514	ANT™	<ul style="list-style-type: none">• nRF51 libraries and examples• ANT+ ready profiles*• ANT FS• Documentation	S210 Pre-programmed on nRF51422
nRF518	BLE 2.4GHz Gazell / ESB	<ul style="list-style-type: none">• nRF51 libraries and examples• BLE profiles• Gazell link layer• Enhanced Shock Burst link layer• Various examples (BLE, ESB, GZLL)• Documentation	S110 Only required for BLE examples

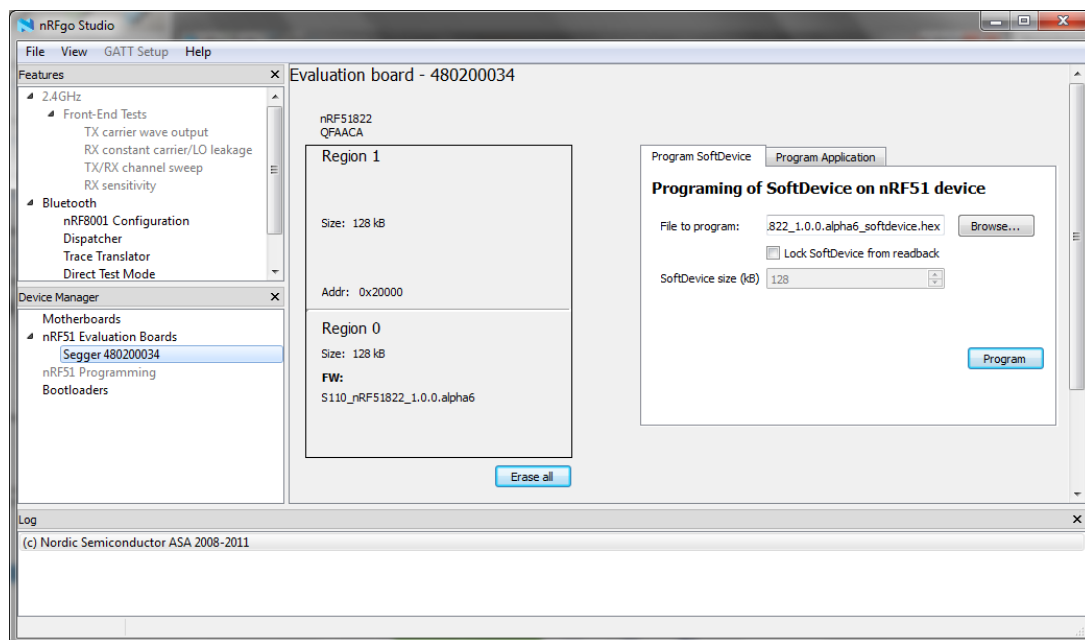
*ANT+ network keys are needed. Register as ANT+ adopter at www.thisisant.com to get the keys

IDE Support

- Keil μ Vision
- Free μ Vision available! (32K code size limit)
 - SoftDevice size is not part of this limit!
- nRF51 SDK integration
 - Program direct from the IDE
 - Debug support
 - System viewer window



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

*restrictions may apply to various chip configurations

Download documentation and SDK, SoftDevice
and supported software

<http://www.nordicsemi.com>