

## Get started with ULP wireless

### The nRFgo Starter Kit

The nRFgo Starter Kit is the core of the nRFgo evaluation and development platform for Nordic ultra low power radios. Used in conjunction with any nRFgo compatible development kit, the Starter Kit enables engineers to perform quick evaluation, prototyping and firmware development.

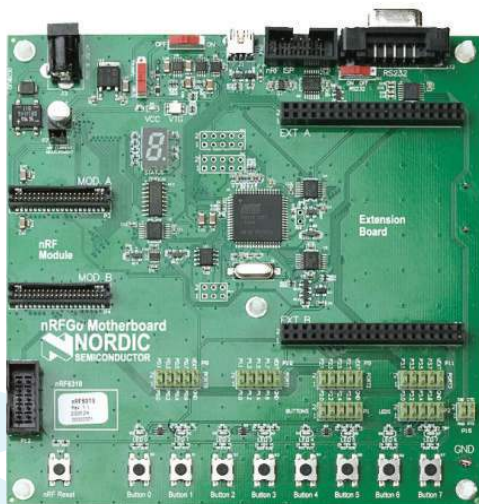


The kit includes two motherboards, a display extension module, patch cables and a CD with nRFgo Studio PC application and documentation. The motherboards include a standardized socket for Nordic radio modules. Radio modules are not included in the kit, but provided separately as part of product specific nRFgo compatible development kits.

### The nRFgo Motherboard

#### A flexible hardware development platform

The nRFgo motherboard provides a flexible prototyping platform for ultra low power wireless applications.



Key features include:

- nRFgo radio module socket
- Extension module socket
- Standard interface connectors: USB, RS232, ISP, Hardware debug
- Array of I/O ports and buttons
- On-board I/O controller
- Multiple supply options: USB, battery or external supply



RF Silicon

Software

Reference Design

Development Tools

## PRODUCT BRIEF

# nRFgo Starter Kit

## nRF6700

### Get started with ultra low power wireless

## KEY FEATURES

- Generic evaluation and development platform for Nordic ultra low power radios
- Built-in support for nRFProbe hardware debug solution for Nordic radios with embedded microcontrollers
- Two motherboards with standard socket for nRFgo radio modules
- USB, RS232, ISP and hardware debug interfaces
- Multiple power supply options: battery, external supply and USB
- Multiple I/O ports and buttons for prototyping
- On-board flash I/O controller provides USB interface to PC
- Upgradable board firmware
- Four 10-wire patch cables and eight 2-wire patch cables included in the kit
- Seven segment status LED for board ID
- Battery pack for three AAA batteries
- Extension module socket for advanced prototyping
- One nRFgo Display extension module with 16x2 alphanumeric display and joystick.
- nRFgo Studio for RF evaluation and testing
- Auto detection and hot plugging of nRFgo radio modules
- Rich set of configurable RF and link tests
- Easy access to available radio module configurations
- Comprehensive set of documentation

## SUMMARY OF BENEFITS

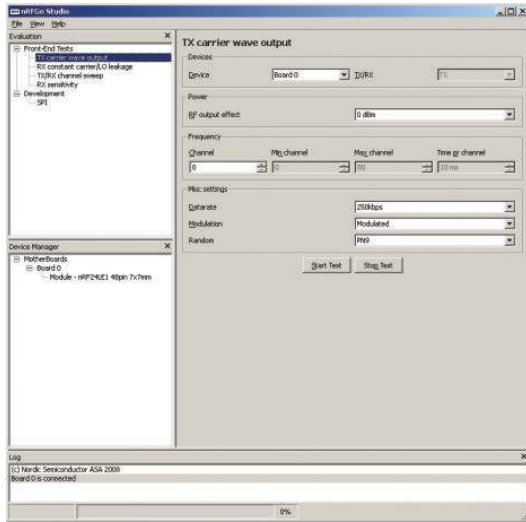
- A common evaluation and development platform for Nordic ultra low power radios
- Built in hardware debug solution with no requirement for external dongles/adaptors
- Rich set of I/O ports, buttons and LEDs for prototyping
- Can be powered directly from the USB interface
- Supports custom extension boards for advanced application prototyping
- Quick and easy RF evaluation using nRFgo Studio Windows application

## nRFgo Studio

### PC environment for radio evaluation

The nRFgo Studio PC application is included with the kit and provides designers with an effective and simple to use tool to explore and evaluate radio performance and functionality. The application supports a wide range of radio tests from simple output power tests, to more advanced tests such as sensitivity and link performance. Each test can be easily configured by the designer to match specific application requirements. nRFgo radio modules plugged into the motherboard will be automatically detected and configured by the application.

### nRFgo Studio Screenshot



## About Nordic Semiconductor ASA

### Ultra low power RF silicon solutions

Nordic Semiconductor is a fabless semiconductor company specializing in ultra low power short-range wireless communication. Nordic is a public company listed on the Norwegian stock exchange.

Nordic provides RF Silicon Solutions for ultra low power wireless including:

- Highly integrated RF silicon
- Sophisticated and flexible development tools
- Application specific communication software
- Complete reference designs

## Worldwide office locations

### Headquarter

Trondheim, Norway

Telephone: +47 72 89 89 00

[www.nordicsemi.no](http://www.nordicsemi.no)



## nRFProbe

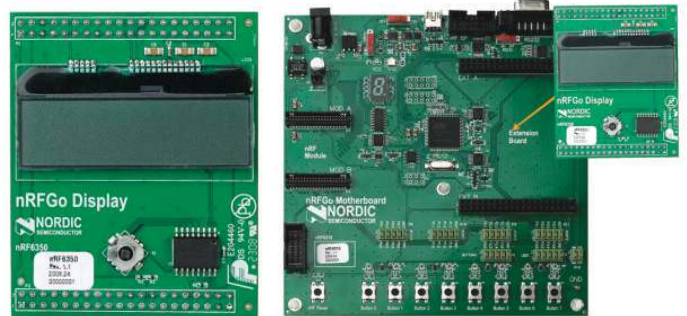
### Programming and hardware debug over USB

nRFProbe is a hardware debug solution specifically designed for Nordic radios with embedded microcontrollers. The motherboard has built in support for nRFProbe enabling hardware debugging over the USB interface with no requirement for a special dongle.

### nRFgo Display extension module

The Display extension module enables easy prototyping of applications with smaller displays. It also enables the motherboard to be controlled/configured and display status information when not connected to the PC. The nRFgo Display extension module includes a 16 x 2 alphanumeric display, a display controller, a small joystick and a joystick controller. Both the display and the joystick offer simple 2-wire interfaces for quick prototyping. The 2-wire display interface accepts standard HD44780 commands.

### nRFgo Display module



## Product content

### Hardware, Software and documentation

The following is included in the box:

- Two nRFgo Motherboards
- One nRFgo display extension module
- Eight 2-wire patch cables
- Four 10-wire patch cables
- Two mini-B standard-A USB cables
- Printed Getting Started Guide
- Installation CD with nRFgo Studio and documentation

## Ordering information

Ordering code	Description
nRF6700	nRFgo Starter Kit

### nRFgo compatible Development Kits

Please visit [www.nordicsemi.com](http://www.nordicsemi.com) for updated list of nRFgo compatible Development Kits

## Related Products

nRF24LE1	Ultra low power wireless System-on-Chip solution
nRF24LE1-F16Q24-DK	nRFgo compatible Development Kit for 4x4mm 24-pin nRF24LE1
nRF24LE1-F16Q32-DK	nRFgo compatible Development Kit for 5x5mm 32-pin nRF24LE1
nRF24LE1-F16Q48-DK	nRFgo compatible Development Kit for 7x7mm 48-pin nRF24LE1

Visit [www.nordicsemi.no](http://www.nordicsemi.no) for Nordic Semiconductor sales offices and distributors worldwide.