nRFgo Development Kit for nRF24LU1+
Enabling single chip ultra compact USB dongles

The nRF24LU1+ Development Kit comes in one variant, fitted with the largest memory option device, the nRF24LU1P-F32Q32. All SW developed on this device can be used directly on the smaller F16Q32 version. This kit used in conjunction with the nRFgo Starter Kit enable users to perform evaluation, testing, prototyping, firmware development and debugging on the nRF24LU1+.

The kit includes two nRFgo compatible radio modules, one with PCB antenna and one with an SMA connector for use with external antennas or in closed loop measurement set-ups. The kit also contains a production ready USB dongle. The DK CD contains a complete Software Development Kit (SDK), the nRFprobe hardware debug utility as well as documentation.

nRF24LU1+ DK modules
For the nRFgo Starter Kit

The nRF24LU1+ DK modules are designed to be used with the nRFgo Starter Kit (nRF6700).

The module integrates all required external circuitry and special connectors including a 16MHz crystal, matching network, PCB antenna as well as an USB connector. The module also includes a switch for selecting power supply from the on board USB connector or externally from the nRFgo starter kit. All chip I/O pins are made available on the module connectors. The SMA module is identical except for the antenna being replaced with a SMA connector and the addition of a programming socket for the USB dongle.

The USB dongle is a production ready HW design enabling real life performance testing of an application with a compact USB dongle.

nRF24LU1P-FxxQ32-DK

The final specification, for current and complete product specifications, please refer to the product specification, available from Nordic Semiconductor. Specifications are subject to change without notice. Trademarks are property of their respective owners.
Easy access to all chip I/O pins
Application prototyping using nRFgo Starter Kit
With the nRFgo nRF24LU1+ DK module plugged into the nRFgo Motherboard the user gets easy access to all the generic chip I/O pins via the I/O port headers on the motherboard. The USB interface of the nRF24LU1+, which always needs to be connected to an USB hub, is routed to a separate USB connector on the DK module.

Using patch cables on the nRFgo motherboard, it is easy to route the I/O pins to the on-board buttons, diodes, or the interface connectors. The chip I/O is also available on the extension board socket so users can use custom extension boards for advanced prototyping.

nRFgo Software Development Kit
Kick start your SW development on the nRF24LU1+
The nRFgo SDK contains everything needed to enable fast firmware development the nRF24LU1+. The nRFgo SDK includes a compressive library of Hardware Abstraction Layer (HAL) modules, the Gazell RF link layer stack, USB function blocks as well as example applications.

The Gazell RF link layer stack makes it easy to design robust wireless products. Through simple configuration of the the Gazell link layer you can ensure your application have proper error correction procedures as well as state of the art co-existence performance through frequency agility or FHSS interference avoidance schemes.

About Nordic Semiconductor ASA
Ultra low power RF silicon solutions
Nordic Semiconductor is fabless semiconductor company specializing in ultra low power (ULP) 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

Product content
Hardware, Software and Documentation
The following is included in the box:
• One nRF24LU1+ module with PCB antenna
• One nRF24LU1+ module with SMA connector
• Production ready USB dongle
• Five nRF24LU1+ samples
• Printed Getting Started Guide
• Installation CD with nRFgo SDK, nRFprobe and documentation.

Ordering information

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>Description</th>
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<tbody>
<tr>
<td>nRF24LU1P-</td>
<td>nRFgo Development Kit for nRF24LU1+</td>
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<tr>
<td>FxxQ32-DK</td>
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Related Products

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
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<tbody>
<tr>
<td>nRF6700</td>
<td>nRFgo Starter Kit (Required to use this development kit)</td>
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<tr>
<td>nRF24LE1</td>
<td>Ultra low power wireless System-on-Chip (SoC) solution, the typical counter part of nRF24LU1+ in a wireless application.</td>
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<tr>
<td>nRF24L01+</td>
<td>Single chip 2.4GHz transceiver</td>
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<tr>
<td>nRF24LU1+</td>
<td>Ultra low power wireless system-on-chip USB solution</td>
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