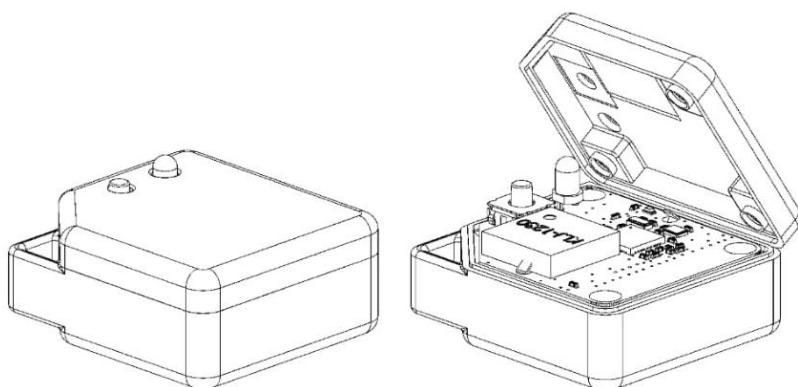




BLE TRACKER BEACON

MODEL# XINRF51



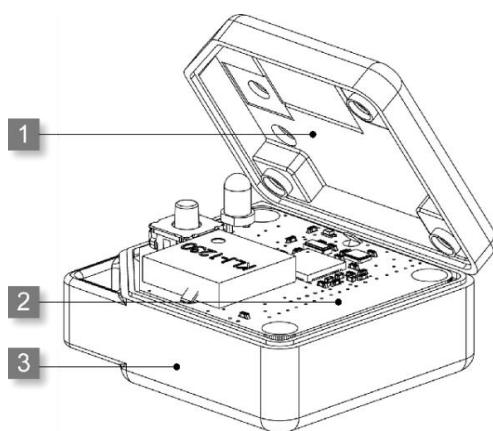
BLE TRACKER BEACON

The XINRF51 is a small Bluetooth® Low Energy device with integrated LEDs, buzzer and button designed for long battery life and anti-loss applications.

Features:

- The built-in JTAG port allows for custom firmware installations and debugging.
- Battery State of Charge sensor.
- 1000mAh replaceable battery.
- FCC Certified

No firmware is provided.



- 1 Top cover
- 2 The Beacon (nRF51822)
- 3 Bottom cover

SPECIFICATIONS

Bluetooth Version	4.0
Chipset	NRF51822 QFAA-R
Frequency	2.4GHz
Flash Size	256kB
RAM	16kB
Transmission Range	10 Meters Indoors 50 Meter Outdoors
Dimensions	32 x 35 x 16mm 1.25" x 1.38" x 0.63"
Battery	CR2477
Battery Life	18-24 Months
Power Consumption	20µA 2 second advertisement +4dB Power
LED #1	Red 624nm 500mcd@20mA 3mm Diameter
LED #2	Blue 465nm 150mcd@20mA
Button	2.7mm Soft Press Actuator Operating Life: 300,000
Buzzer	Piezo - 80dB @ 10cm
Antenna	Built-in PCB Antenna
Case	Polycarbonate 3 x 12mm Screws

OPERATING INSTRUCTIONS

The XINRF51 has no power button to ensure the device is not accidentally turned off. Once the battery is inserted, the device turns on until the battery is removed or fully discharged. The battery life can be monitored by including the state of charge sensor in the advertisement data.

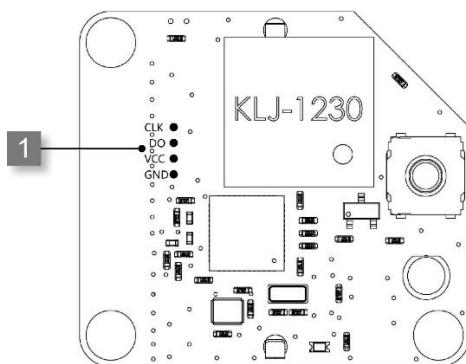
FLASHING INSTRUCTIONS

Connect the XINRF51 JTAG port to the NRF51-DK board.

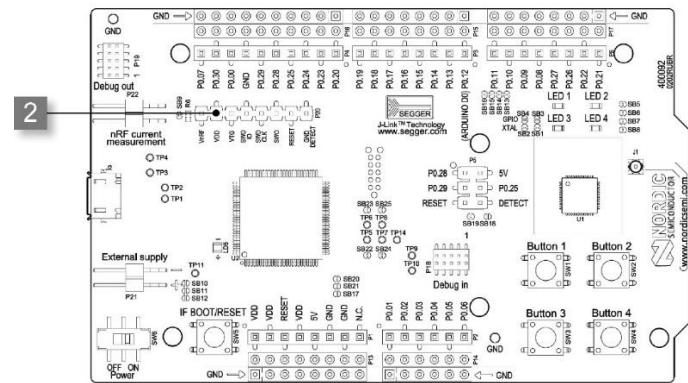
XINRF51 must be powered with 3.3v to use the NRF51-DK board.

XINRF51 TO NRF51-DK PIN MAPPING

#1 XINRF51 JTAG Header	#2 NRF51-DK JTAG Header
GND	GND DETECT
VCC	VTG
DO	SWD IO
CLK	SWD CLK



1 XINRF51 JTAG Header



2 NRF51-DK JTAG Header

FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION:

The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

NOTE: This device is designed to be used as a portable device, and meets FCC RF Exposure requirements.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.