

STSW-BNRG-S2LP evaluation software package based on the BlueNRG-1/2 and S2-LP



Features

- BLE-Sub1 GHz dual radio navigator PC application
- BlueNRG-1/2 Bluetooth Low Energy stack binary library and APIs, events callbacks interface
- BLE-Sub1 GHz dual radio demonstration applications (source and header files) supporting the following devices:
 - STEVAL-IDB007V2
 - STEVAL-IDB008V2
 - STEVAL-FKI001V1
 - STDES-MONARCH
 The following S2-LP kits:
 - STEVAL-FKI868V2
 - STEVAL-FKI915V1
- BlueNRG-1/2 CMSIS files
- BlueNRG-1/2 peripheral drivers and related examples
- ST-Sigfox library for ARM® Cortex®-M0 and adaptation layer for the BlueNRG-1/2
- S2-LP library and adaptation layer for the BlueNRG-1/2

Description

The **STSW-BNRG-S2LP** evaluation software package is based on the BlueNRG-1/2 very low power Bluetooth low energy single-mode system-on-chip and S2-LP high performance ultra-low power RF transceiver, also intended for Sigfox networking.

The package supports the BlueNRG-1/2 and S2-LP kit platforms available on related web pages to build dual radio applications. It provides a set of BLE demonstration applications with Bluetooth low energy scenarios coupled with the long range capabilities of sub-1 GHz technology.

The **STSW-BNRG-S2LP** DK SW package contains demonstration applications with complete header and source file sets. A complete set of drivers for interfacing the device peripherals (ADC, GPIOs, I²C, RTC, SPI, timers, UART, WDG, RTC) and the S2-LP is also provided.

The BLE-Sub1 GHz navigator PC application provides an interactive and user friendly interface to access the BLE-Sub1 GHz DK SW package. The main function of the BLE-Sub1 GHz navigator is to select and run the demonstration application in a user friendly manner, without requiring any extra hardware.

Product status link	
Evaluation software package based on the BlueNRG-1/2 and the S2-LP	STSW-BNRG-S2LP
Ultra-low power, high performance, sub-1GHz transceiver	S2-LP
Sub-1GHz (860-940 MHz) transceiver development kit based on the S2-LP	STEVAL-FKI868V2
Sub-1GHz transceiver development kit based on the S2-LP	STEVAL-FKI915V1
Evaluation platform based on the BlueNRG-1	STEVAL-IDB007V2
Evaluation platform based on the BlueNRG-2	STEVAL-IDB008V2

Product status link	
Dual radio BLE and Sub-1GHz development kit for Sigfox™ and LPWAN protocols with the BlueNRG-1 and the S2-LP	STEVAL-FKI001V1
Sigfox Monarch reference design based on the S2-LP and the BlueNRG-2	STDES-MONARCH

Revision history

Table 1. Document revision history

Date	Version	Changes
18-Apr-2017	1	Initial release.
06-Nov-2018	2	Updated features and description in cover page.
15-Sep-2020	3	Updated the features

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