
BlueNRG current consumption estimation tool

Data brief

Features

- Allows measurement of average current consumption for various use cases
- Excellent correlation with real measurements
- User-friendly, easy to parameterize
- Available input parameters:
 - Advertising/ scanning/ connection (Slave or Master)
 - General settings: power/ payload/ intervals/ battery capacity
- Available output data:
 - Average current estimation
 - Battery life estimation
 - Data rate estimation
- PC-based application
- Output report in PDF
- Save/ restore configuration
- Graphical plot of the current consumption during active phase
- Save plot in png format

Description

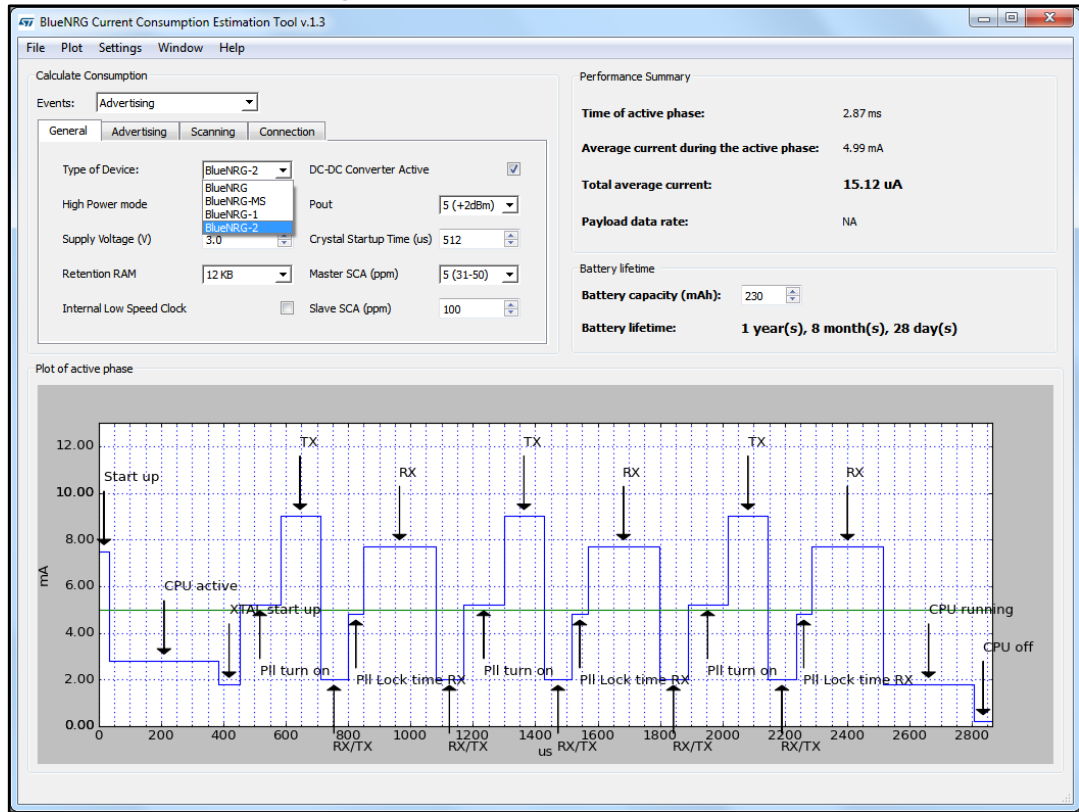
The BlueNRG current consumption estimation tool can predict the current consumption under different conditions, as defined by the Bluetooth low energy specification, for the BlueNRG and BlueNRG-MS Bluetooth® low energy wireless network processors as well as the BlueNRG-1 and BlueNRG-2 Bluetooth® low energy systems-on-chip.

This application was developed to provide an accurate estimation of BlueNRG, BlueNRG-MS, BlueNRG-1 and BlueNRG-2 power consumption and related battery life under various operating conditions.

As a pure simulation tool, it should not, however, be considered as a substitute for real measurements taken on the actual silicon device.

STSW-BNRG001 main window

Figure 1: STSW-BNRG001 main window



Revision history

Table 1: Document revision history

Date	Version	Changes
04-Apr-2014	1	Initial release.
08-Jun-2015	2	The document has been updated to refer to both BlueNRG and BlueNRG-MS devices.
30-Jun-2016	3	Added reference to BlueNRG-1
19-Jun-2017	4	Added reference to BlueNRG-2 Updated Figure 1: "STSW-BNRG001 main window"

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