

STSW-BNRG001

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/Connected as 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 provides a means to predict the current consumption of the BlueNRG Bluetooth[®] low energy wireless network processor under different conditions as defined by the Bluetooth Low Energy specification.

This application was developed to provide an accurate estimation of BlueNRG power consumption and related battery life under various operating conditions. Nevertheless, as a pure simulation it should not be considered as a substitute for measurements taken on the actual silicon device, which would provide the real figures.

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For further information contact your local STMicroelectronics sales office

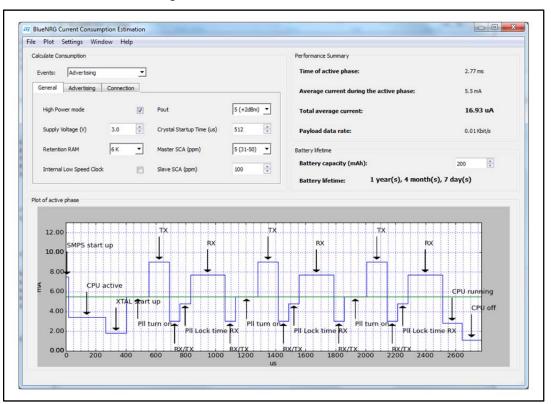


Figure 1: STSW-BNRG001 main window

1 Revision history

Table 1: Document revision history

Date	Revision	Changes
04-Apr-2014	1	Initial release.



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