

The RF-Flasher utility



Product summary	
RF-Flasher utility software package	STSW-BNRGFLASHER
STMicroelectronics wireless system-on-chip	BlueNRG-1, BlueNRG-2, BlueNRG-LP, BlueNRG-LPS
Evaluation platform based on BlueNRG-1/, BlueNRG-2/, BlueNRG-LP, BlueNRG-LPS	STEVAL-IDB007V2, STEVAL-IDB007V1M, STEVAL-IDB008V2, STEVAL-IDB008V1M, STEVAL-IDB009V1, STEVAL-IDB011V1, STEVAL-IDB011V2, STEVAL-IDB012V1
Applications	Wireless connectivity

Features

- The RF-Flasher standalone PC utility allows the ST wireless System-on-Chips devices flash to be read, mass erased, written and programmed. Current supported wireless devices are: BlueNRG-1, BlueNRG-2, BlueNRG-LP, BlueNRG-LPS.
- UART mode through the devices preprogrammed UART bootloader to target flash reading, mass erasing, writing and programming operations
- SWD mode through the devices standard SWD interface to target flash reading, mass erasing, writing and programming operations
- HW SWD programming/debugging tools support (CMSIS-DAP, ST-Link, J-Link)
- The multiple devices programming through SWD and UART interface
- MAC address programming at specific flash location selected by user (UART or SWD mode)
- Standalone flasher launcher utility

Description

The **STSW-BNRGFLASHER** is an software package containing a standalone PC utility, which allows the ST wireless System-on-Chips devices flash to be read, mass erased, written and programmed.

It currently supports the BlueNRG-1, BlueNRG-2, BlueNRG-LP, BlueNRG-LPS flash access through both UART and SWD interfaces using, respectively, the internal device UART bootloader and the standard SWD interface through HW SWD programming/debugging tools (CMSIS-DAP, ST-Link, J-Link).

It allows a MAC address to be stored on a specific flash location selected by user, through the UART or SWD interface. MAC address can be directly provided by user, read from an input file containing the MAC address list or set with incremental steps starting from a user provided MAC address value.

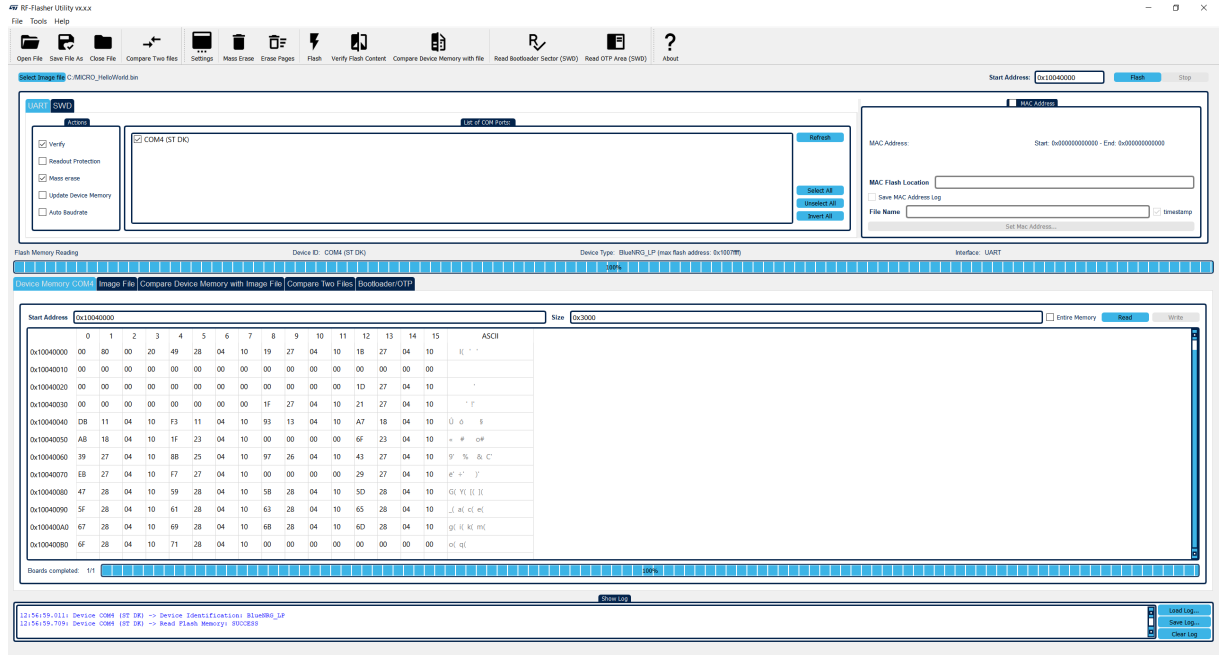
It also supports the capability to program more devices through SWD and UART interfaces. Further, user can also activate a programming loop when a single SWD programming tool is available, just plug a new device platform to be programmed, wait for programming end, and then unplug programmed platform and plug another one platform (plug and play mode).

A standalone flasher launcher utility is also provided in the RF-Flasher software package. This utility let you target flash reading, mass erasing, writing and programming operations from a PC DOS window outside the flasher GUI PC application context.

1 The RF-Flasher PC utility

The RF-Flasher PC utility provides user-friendly tabs allowing to perform erase, read, write, and verify operations on supported flash devices.

Figure 1. The RF-Flasher PC utility



Revision history

Table 1. Document revision history

Date	Version	Changes
27-Apr-2018	1	Initial release.
21-Jun-2018	2	Updated cover image, Section Features, Section Description and Section 1 The BlueNRG-1, BlueNRG-2 Flasher PC utility.
14-Feb-2019	3	Updated cover image and Figure 1. The RF-Flasher PC utility.
14-Jul-2020	4	Updated cover image, Section Features, Section Description. Updated Figure 1. The RF-Flasher PC utility. Added reference to the BlueNRG-LP.
09-Dec-2020	5	Updated Section Features, Section Description and Section 1 The RF-Flasher PC utility.
11-Oct-2021	6	Updated the title, Section Cover image, Section Features, Section Description, Section 1 The RF-Flasher PC utility. Renamed the SW package as RF-Flasher utility.
06-Apr-2022	7	Added reference to the BlueNRG-LPS device and STEVAL-IDB011V2, STEVAL-IDB012V1.
28-Jun-2024	8	Updated Figure 1. The RF-Flasher PC utility

IMPORTANT NOTICE – READ CAREFULLY

STMicroelectronics NV and its subsidiaries (“ST”) reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST’s terms and conditions of sale in place at the time of order acknowledgment.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of purchasers’ products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. For additional information about ST trademarks, refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2024 STMicroelectronics – All rights reserved