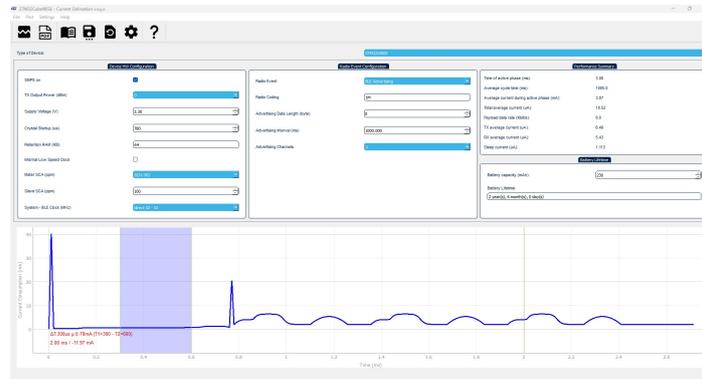


Graphical user interface for current consumption estimation of STM32WB0 and STM32WBA MCUs



DT7962V1

Product status

STM32CubeWiSEce



Features

- Easy-to-use graphical user interface for estimating average current consumption in wireless use cases
- Supported radios/protocols
 - Bluetooth® LE protocol
- Excellent correlation with real measurements
- User-friendly, easy to configure
- PC-based application
- Supported features
 - Available input parameters:
 - Device hardware configuration such as power mode and Tx power
 - Radio event configuration such as Bluetooth® LE advertising and connection peripheral
 - Available output data:
 - Average current estimation
 - Data rate estimation
 - Battery life estimation
 - Output report in PDF format
 - Configuration save and restore
 - Graphical plot of current consumption during the active phase
 - Plot export in PNG format

Description

The STM32CubeWiSE - Current Estimation (STM32CubeWiSEce) software tool is a PC application with a graphical user interface (GUI) that predicts the current consumption of STM32WB0 and STM32WBA wireless microcontrollers under different operating conditions.

This application provides an accurate estimate of the specified RF device power consumption and the corresponding battery life under various wireless operating conditions. However, as a simulation tool, do not consider it a substitute for measurements performed on the silicon device.

1 General information

STM32CubeWiSEce interacts with STM32WB0 and STM32WBA microcontrollers based respectively on the Arm® Cortex®-M0+ and Cortex®-M33 processors, and running the Bluetooth® LE stack.

For information on Bluetooth®, refer to www.bluetooth.com.

Note: Arm and Cortex are registered trademarks of Arm Limited (or its subsidiaries or affiliates) in the US and/or elsewhere.

The Arm word and logo are trademarks of Arm Limited (or its subsidiaries) in the US and/or elsewhere. All rights reserved.



1.1 Ordering information

STM32CubeWiSEce is available for free download from the www.st.com website.

1.2 What is STM32Cube?

STM32Cube is an STMicroelectronics original initiative to improve designer productivity significantly by reducing development effort, time, and cost. STM32Cube covers the whole STM32 portfolio.

STM32Cube includes:

- A set of user-friendly software development tools to cover project development from conception to realization, among which are:
 - STM32CubeMX, a graphical software configuration tool that allows the automatic generation of C initialization code using graphical wizards
 - STM32CubeIDE, an Eclipse®-based IDE, providing code edition, compilation, programming, and debugging capabilities
 - STM32CubeCLT, an all-in-one command-line development toolset with code compilation, board programming, and debug features
 - STM32CubeIDE for Visual Studio Code (STM32VSCode), a complete IDE based on VS Code® platform
 - STM32CubeProgrammer (STM32CubeProg), a programming tool available in graphical and command-line versions
 - STM32CubeMonitor (STM32CubeMonitor, STM32CubeMonPwr, STM32CubeMonRF, STM32CubeMonUCPD), powerful monitoring tools to fine-tune the behavior and performance of STM32 applications in real time
 - STM32CubeWiSE (STM32CubeWiSEbe, STM32CubeWiSEce, STM32CubeWiSEcg, STM32CubeWiSEre, STM32CubeWiSE8e), graphical tools designed to evaluate and test the capabilities of RF radios and protocols (Bluetooth® LE, sub-GHz, IEEE 802.15.4)
- STM32Cube MCU and MPU Packages, comprehensive embedded-software platforms specific to each microcontroller and microprocessor series (such as STM32CubeWB0 for the STM32WB0 series), which include:
 - STM32Cube hardware abstraction layer (HAL), ensuring maximized portability across the STM32 portfolio
 - STM32Cube low-layer APIs, ensuring the best performance and footprints with a high degree of user control over hardware
 - A consistent set of middleware components such as FreeRTOS™ kernel, FAT file system, and STM32_BLE (Bluetooth® LE)
 - All embedded software utilities with full sets of peripheral and applicative examples
- STM32Cube Expansion Packages, which contain embedded software components that complement the functionalities of the STM32Cube MCU and MPU Packages with:
 - Middleware extensions and applicative layers
 - Examples running on some specific STMicroelectronics development boards



2 License

STM32CubeWiSEce is delivered under the [SLA0048](#) software license agreement and its Additional License Terms.

Revision history

Table 1. Document revision history

Date	Revision	Changes
12-Feb-2026	1	Initial release.

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.

In the event of any conflict between the provisions of this document and the provisions of any contractual arrangement in force between the purchasers and ST, the provisions of such contractual arrangement shall prevail.

The 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.

The 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 the 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.

If the purchasers identify an ST product that meets their functional and performance requirements but that is not designated for the purchasers’ market segment, the purchasers shall contact ST for more information.

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.

© 2026 STMicroelectronics – All rights reserved