

Device firmware upgrade over Bluetooth® using external page EEPROM (M95P32) with BlueNRG-LP or BlueNRG-LPS evaluation board

Application	Examples
Hardware Abstraction	STM32Cube Hardware Abstraction Layer (HAL)
Hardware	STM32 Nucleo expansion boards X-NUCLEO-PGEEZ1
	STEVAL Development Board STEVAL-DB011V1/ STEVAL-IDB011V2/ STEVAL-IDB012V1

Features

- Firmware demo for STEVAL-IDB011V1, STEVAL-IDB011V2, or STEVAL-IDB012V1 with X-NUCLEO-PGEEZ1 EEPROM memory expansion board
- Binary executables can be shared over Bluetooth to the device, which are first written directly to an external M95P32 EEPROM
- The solution uses STBLESensor classic application available for both iOS and Android platforms
- Flash upgrade from external M95P32 EEPROM
- OTA service manager based approach, which includes Bluetooth OTA service, its characteristics and OTA reset manager capabilities
- Application image not required to include OTA firmware upgrade service
- Sample application demonstrating complete FOTA service

Product summary	
Device firmware upgrade over Bluetooth® using external page EEPROM (M95P32) with BlueNRG-LP or BlueNRG-LPS evaluation board	STSW-DFU-EEPRMA
Standard SPI page EEPROM memory expansion board based on M95P32 series for STM32 Nucleo	X-NUCLEO-PGEEZ1
Evaluation platform based on the BlueNRG-355MC system-on-chip	STEVAL-IDB011V1/ STEVAL-IDB011V2
Evaluation platform based on the BlueNRG-LPS system-on-chip	STEVAL-IDB012V1
Applications	Factory Automation

Description

The **STSW-DFU-EEPRMA** is a device firmware upgrade STSW package with support of external **M95P32-I** EEPROM connected to either **STEVAL-IDB011V1**, **STEVAL-IDB011V2** or **STEVAL-IDB012V1** on **X-NUCLEO-PGEEZ1** EEPROM memory expansion board.

Revision history

Table 1. Document revision history

Date	Revision	Changes
12-Jan-2024	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. 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