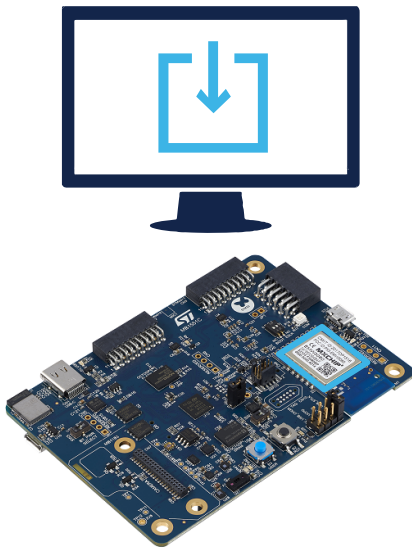


Wi-Fi[®] firmware update for MXCHIP EMW3080B on STM32 boards



Features

- Wi-Fi[®] firmware for the STM32 boards with the MXCHIP EMW3080B module
 - With or without bootloader
 - With SPI or UART interface
- MXCHIP EMW3080B firmware programmer for the [B-U585I-IOT02A](#) board

Description

Several STM32Cube MCU Packages and STM32Cube Expansion Packages make use of the MXCHIP EMW3080B module for their Wi-Fi[®] connectivity.

The [X-WIFI-EMW3080B](#) provides a set of Wi-Fi[®] firmware in binary format for the MXCHIP EMW3080B module.

It contains different firmware supporting various configurations: with UART or SPI interface, with or without MXCHIP EMW3080B bootloader. For a given version, up to four firmware variants are provided.

The release notes of each related STM32Cube MCU Package specify the compatible firmware version to be installed by the user.

The [X-WIFI-EMW3080B](#) documents also the MXCHIP EMW3080B firmware update procedure.

Additionally, for the [B-U585I-IOT02A](#) board, a programmer application in binary format is provided as well to make the firmware update procedure easier.

Product status link

[X-WIFI-EMW3080B](#)



1 General information

The X-WIFI-EMW3080B provides software to be run along with STM32 microcontrollers based on Arm® Cortex® processors.

Note: Arm is a registered trademark of Arm Limited (or its subsidiaries) in the US and/or elsewhere.



1.1 Ordering information

The X-WIFI-EMW3080B is available for free download from www.st.com.

1.2 What is STM32Cube?

STM32Cube is an STMicroelectronics original initiative to significantly improve designer's productivity 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 all-in-one development tool with peripheral configuration, code generation, code compilation, and debug features
 - 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
- [STM32Cube MCU and MPU Packages](#), comprehensive embedded-software platforms specific to each microcontroller and microprocessor series (such as STM32CubeU5 for the STM32U5 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 ThreadX, FileX / LevelX, USBX, NetX Duo, USB Power Delivery, TFM, mbed-crypto, Touch Library, Network Library, OpenBootloader
 - 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

X-WIFI-EMW3080B is delivered under the [SLA0048](#) software license agreement and its Additional License Terms.

Revision history

Table 1. Document revision history

Date	Revision	Changes
9-Jul-2021	1	Initial release.

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