
STM32WB55 Supplemental Support Notes

Supplemental Notes are for following supports:

ST Microelectronics STM32WB55VGY
ST Microelectronics STM32WB55VGQ

For Special Feature:

1. "FLASH_IPCCBR", "FLASH_SFR", and "FLASH_SRRVR" could only be read.
2. For "PCROP_RDP", this bit could only be set. Only a change of RDP from Level 1 to Level 0 could reset this bit.

Current version using an operator.bin which named "0x495_FUS_Operator.bin", it is from the ST official software "STM32CubeProgrammer", the version of it is V2.7.

Caution:

After installing some wireless stack file from the old version, the device could not be reprogrammed to other wireless stack file or FUS. e.g the "stm32wb5x_BLE_Stack_full_fw.bin" from the package stm32cubewb_V1.8.0. But the file of the newer version e.g stm32cubewb_V1.11.0 did not show the problem. Pay attention to this before the mass production.

The FUS could only be updated but could not be degraded. Even update to the same version the chip has installed, their still would be an error state.

Current version supports to program the FUS+Wireless Stack+APP.

1. The APP file was operated as normal datafile and the "I/O Address Offset" field to be set to 0x08000000.
2. The path of the Wireless Stack file need to be filled in the Special Features "BLE file path".
3. The path of the FUS file need to be filled in the Special Features "FUS file path".

For Special Feature:

1. "BLE file path" need to be filled with the wireless stack file path.
e.g C:\STM32WB\test_dll\stm32wb5x_BLE_Stack_full_fw.bin
2. "FUS file path" need to be filled with the FUS file path.
e.g C:\STM32WB\test_dll\stm32wb5x_FUS_fw.bin
3. "FUS datafile version(XXXXXXXX)" need to be filled with the right FUS version of the FUS datafile. e.g the FUS file version is V1.1.2.0, this should be filled 01010200. If the FUS doesn't need to been updated, it could only be filled 00000000.
4. "Stack image size(XXXXXXXX)" need to be filled with size of the Wireless Stack file. the Unit is BYTE. E.g the size of the "stm32wb5x_BLE_Stack_full_fw.bin" is 0x00029B00, this should be filled with 00029B00.

Note: the '0' in front could not been omitted.

Revision History

V1.0 July 15, 2021
Creation of Support Note