X-CUBE-EXTBOOT

Programming an external Flash memory using the UART bootloader built-in STM32, software expansion for STM32Cube

Data brief

Features

- STM32 bootloader
- UART protocol
- Quad-SPI external memory

Description

The internal bootloader built-in STM32 microcontrollers is designed to allow the programming of the internal Flash and RAM memories using one or more embedded serial peripherals like USART, CAN, USB, I2C, SPI or others.

The X-CUBE-EXTBOOT is developed to allow the programming of an external Quad-SPI Flash memory using the internal bootloader via the UART protocol. It can be a driver for users to develop their own bootloaders.

This firmware is developed with the STM32Cube embedded software. It uses the IAR™ EWARM, the Keil® MDK-ARM™ and the SW4STM32 tool chains and can be easily tailored for any other tool chain.

The STM32446E-EVAL boards have been used to develop and validate the firmware. However, it can be easily ported on other platforms.

For more details refer to the application note *Programming an external Flash memory using the UART bootloader built-in STM32 microcontrollers* (AN4852).

1 Revision history

Table 1. Document revision history

Date	Revision	Changes
03-Jun-2016	1	Initial release.