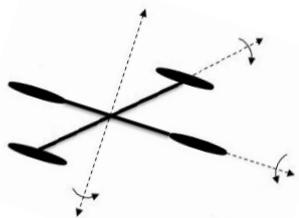

Stella B2 업그레이드 방법

NTRExLAB



1. 아래의 ST 홈페이지에 접속 – Design support(클릭)

http://www.st.com/internet/mcu/product/164486.jsp#SW_DEMOS

06.jsp#SW_DEMOS

번역 | 번역 안함 | 영어 항상 번역

STMicroelectronics

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Home > Micros and Memories > Microcontrollers > STM32 - 32-bit ARM Cortex MCUs > STM32 F1 Mainstream > STM32F103RC

STM32F103RC

Mainstream Performance line ARM Cortex-M3 MCUs with 56 Kbytes of on-chip Flash, 64 Kbytes of SRAM, 12-bit ADCs, 16-bit timers, 2 USARTs, 2 I2Cs, 2 SPIs, 2 I2Ss, 1 SDIO, 5 USARTs, an USB and a CAN

Active

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Description

The STM32F103xC, STM32F103xD and STM32F103xE performance line family incorporates the high-performance ARM®Cortex™-M3 32-bit RISC core operating at a 72 MHz frequency, high-speed embedded memories (Flash memory up to 512 Kbytes and SRAM up to 64 Kbytes), and an extensive range of enhanced I/Os and peripherals connected to two APB buses. All devices offer three 12-bit ADCs, four general-purpose 16-bit timers plus two PWM timers, as well as standard and advanced communication interfaces: up to two I2Cs, three SPIs, two I2Ss, one SDIO, five USARTs, an USB and a CAN.

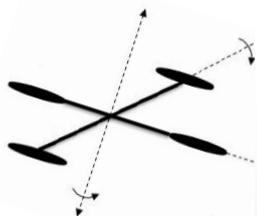
The STM32F103xx high-density performance line family operates in the -40 to +105 °C temperature range, from a 2.0 to 3.6 V power supply. A comprehensive set of power-saving mode allows the design of low-power applications.

These features make the STM32F103xx high-density performance line microcontroller family suitable for a wide range of applications such as motor drives, application control, medical and handheld equipment, PC and gaming peripherals, GPS platforms, industrial applications, PLCs, inverters, printers, scanners, alarm systems video intercom, and HVAC.

Key Features

- Core: ARM 32-bit Cortex™-M3 CPU
 - 72 MHz maximum frequency, 1.25 DMIPS/MHz (Dhrystone 2.1) performance at 0 wait state memory access
 - Single-cycle multiplication and hardware division
- Memories
 - 256 to 512 Kbytes of Flash memory
 - up to 64 Kbytes of SRAM
 - Flexible static memory controller with 4 Chip Select. Supports Compact Flash, SRAM, PSRAM, NOR and NAND memories
 - LCD parallel interface, 8080/6800 modes
- Clock, reset and supply management
 - 2.0 to 3.6 V application supply and I/Os
 - POR, PDR, and programmable voltage detector (PVD)
 - 4-to-16 MHz crystal oscillator
 - Internal 8 MHz factory-trimmed RC
 - Internal 40 kHz RC with calibration
 - 32 kHz oscillator for RTC with calibration
- Low power
 - Sleep, Stop and Standby modes
 - V_{BAT} supply for RTC and backup registers
- 3 × 12-bit, 1 μs A/D converters (up to 21 channels)
 - Conversion range: 0 to 3.6 V
 - Triple-sample and hold capability
 - Temperature sensor
- 2 × 12-bit D/A converters
- DMA: 12-channel DMA controller
 - Supported peripherals: timers, ADCs, DAC, SDIO, I2Cs, SPIs, I2Cs and USARTs

DATASHEET



2. SW DRIVERS - STM32 and STM8 Flash loader demonstrator

다운 후 프로그램 인스톨

86.jsp#SW_DEMOS

번역 | 번역 안함 | 영어 항상 번역

CEC (consumer electronic control) C library using the STM32F101xx, STM32F102xx and STM32F103xx microcontrollers	2.0.0	1692KB
STM32F101xx and STM32F103xx medium- and high-density devices: advanced I ² C examples	4.0	1506KB
STM32F10x standard peripheral library	3.5.0	21617KB
Patch to fix STM32F10xxx firmware library V2.0.3 limitations	2.0.3	143KB
STM32F1xx motor control firmware library for the L6470 dSPIN IC	1.0.0	675KB
STM32 PMSM FOC SDK v3.0 motor control firmware library	3.0	28609KB
Implementing receivers for infrared remote control protocols using STM32F1 microcontrollers	2.0	12984KB
STM32 I2C Communication peripheral application library	1.1.0	1960KB
STM32 embedded GUI library	2.0.0	25243KB
STM32F1xx motor control firmware for easySPIN L6474	1.0.1	1353KB
STM8 and STM32 embedded software solutions	1.0.1	1139KB
STM32F10x and STM32L1xx USB full-speed device library	3.4.0	4030KB

SW DEMOS

Description	Version	Size
STM32 TFT-LCD direct drive demonstration firmware	1.0.0	7345KB
DfuSe USB device firmware upgrade STMicroelectronics extension: contains the demo GUI,	3.0.2	17034KB
STM32 and STM8 Flash loader demonstrator	2.5.0	6449KB

SW DRIVERS

Description	Version	Size
Communication peripheral FIFO emulation with DMA and DMA timeout in STM32F10x microcontrollers	1.0	1224KB
USB HID Demonstrator Release 1.0.2	1.0.2	4875KB
STM32 Virtual COM Port Driver	1.3.1	11516KB

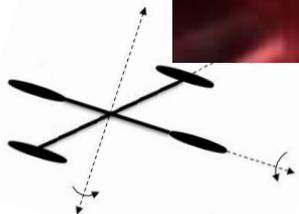
Models & Simulators

- BSDL MODELS
- IBIS MODELS

BSDL MODELS

Description	Version	Size
STM32 Boundary Scan Description Language (BSDL) files	3.0.0	196KB

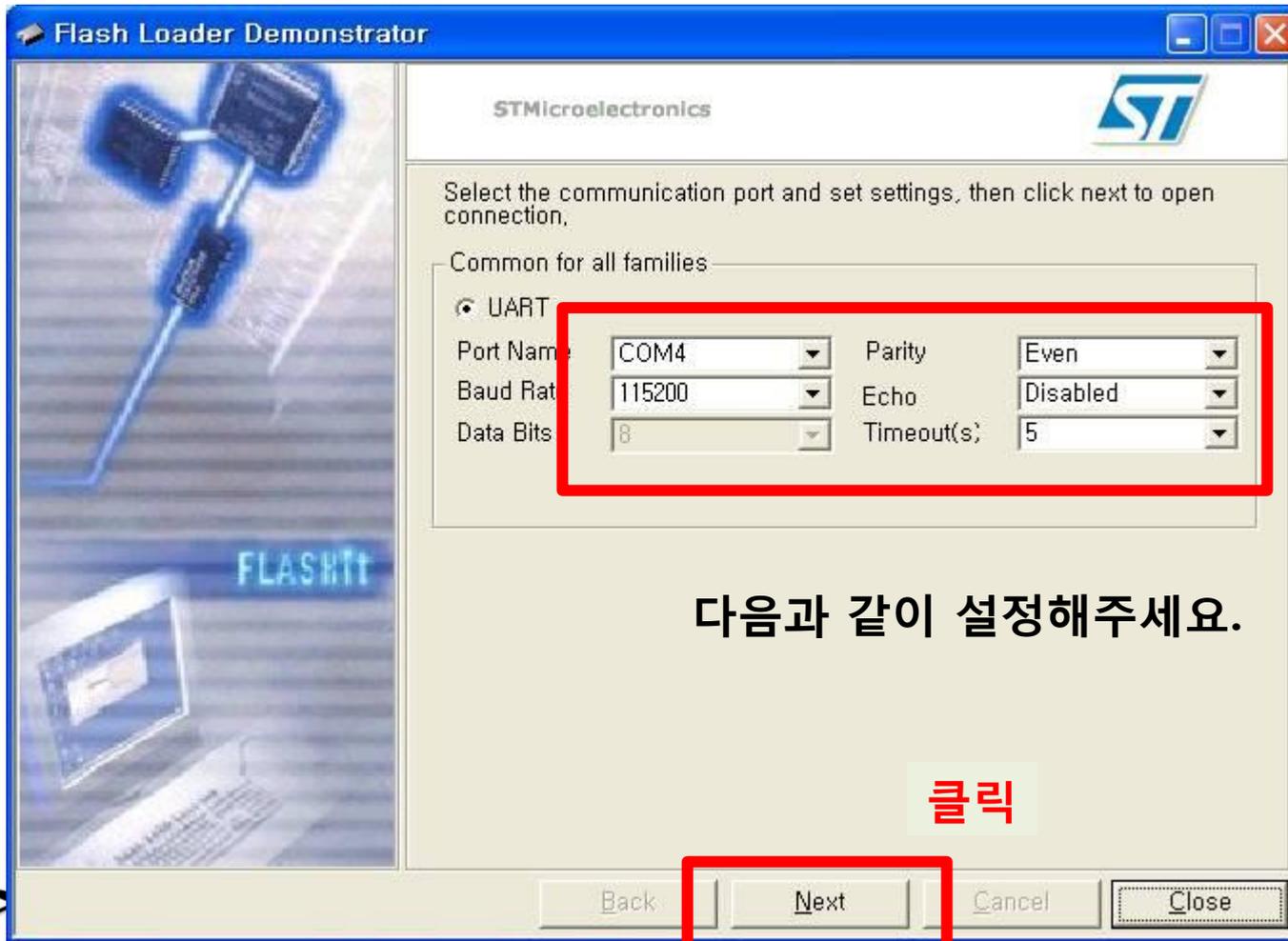
3. Mini USB 케이블을 이용하여 PC와 스텔라 B1의 보드와 연결합니다.



4. 스위치를 그림과 같은 위치에 두고, 리셋 스위치를 누릅니다.

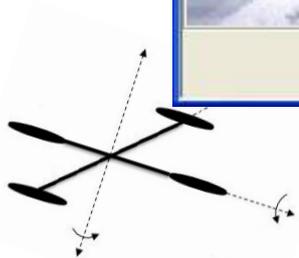
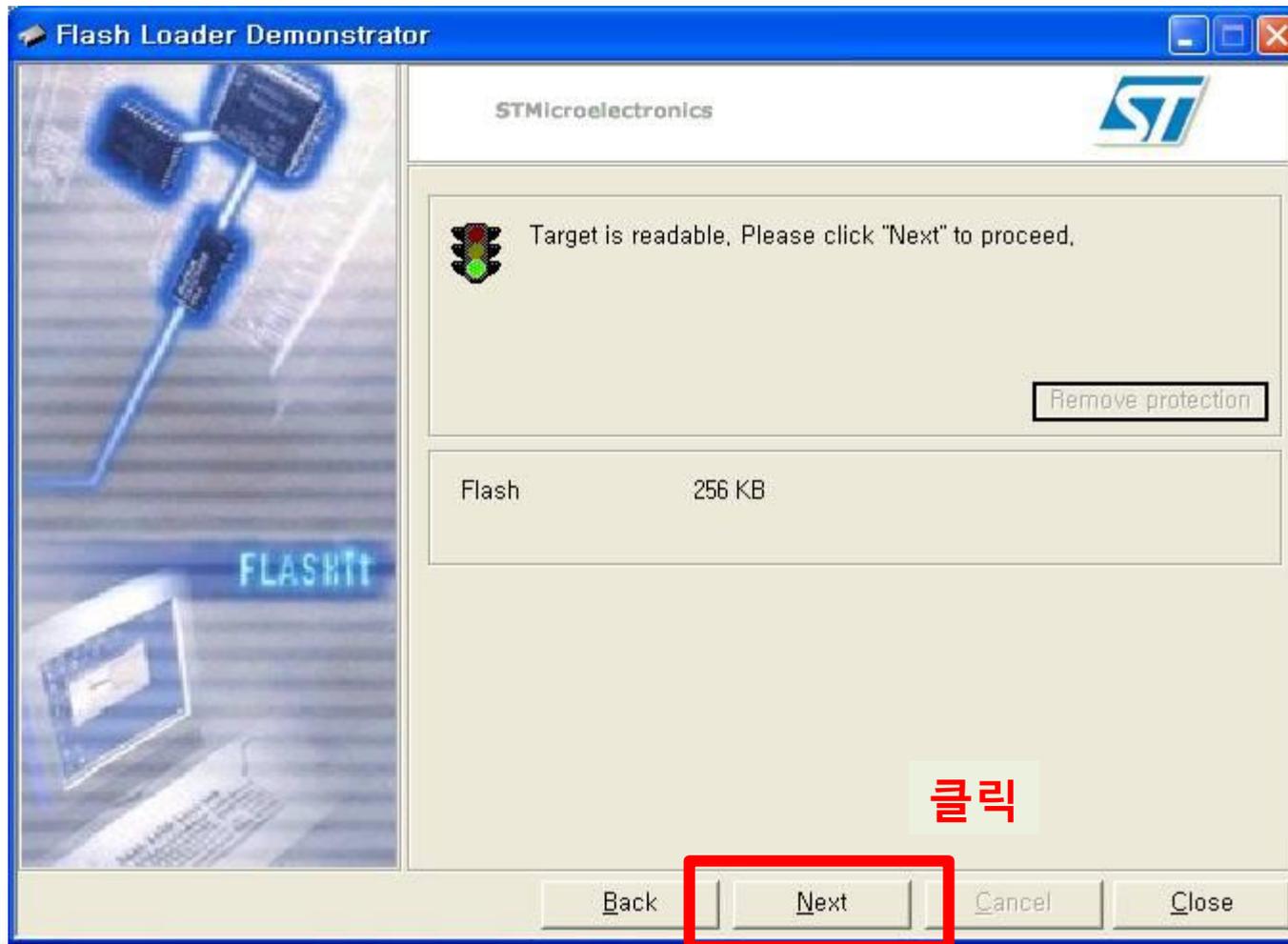


5. Stella B2 판매 페이지에 Stella_v2.bin 파일을 다운 받은 후 STMicroelectronics flash loader를 실행 합니다.

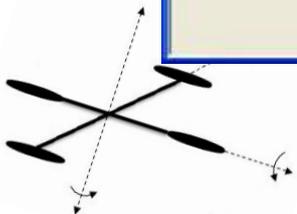
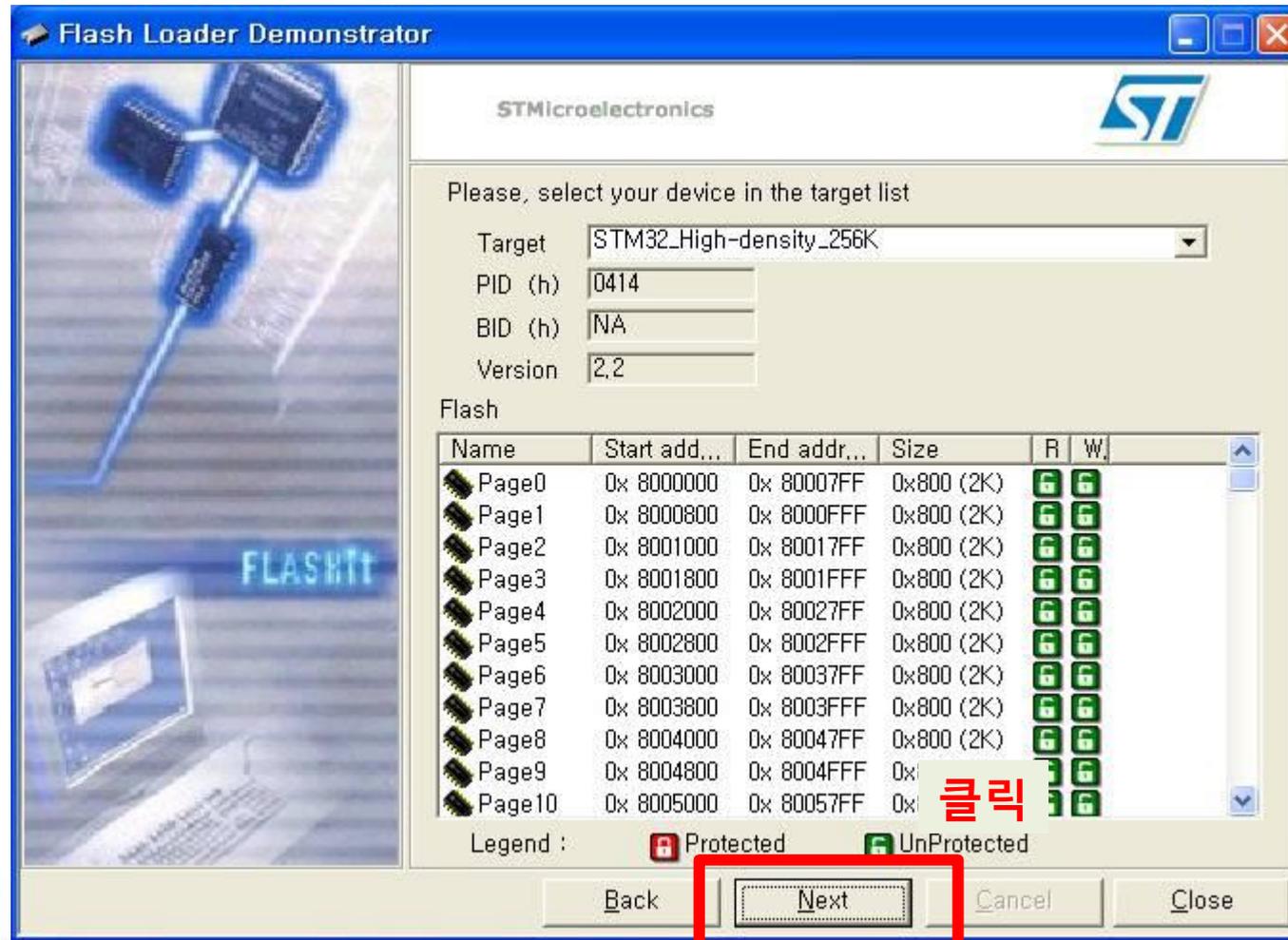


★ Port Name은 사용자 컴퓨터에 따라 다릅니다.

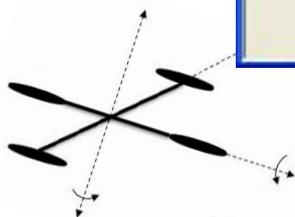
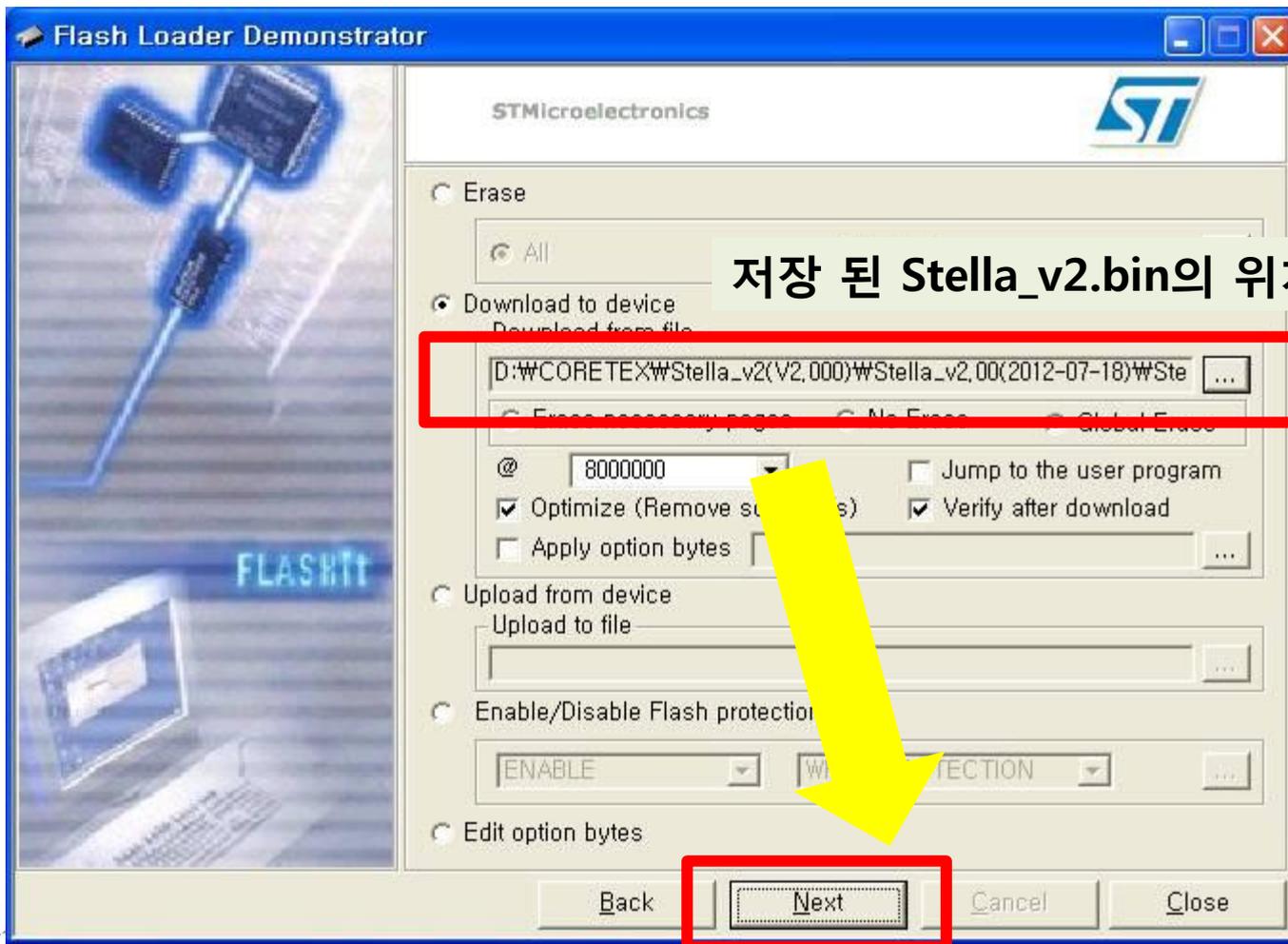
6. STMicroelectronics flash loader => NEXT



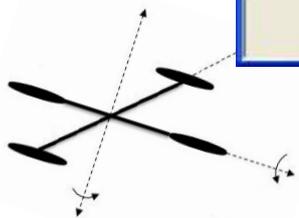
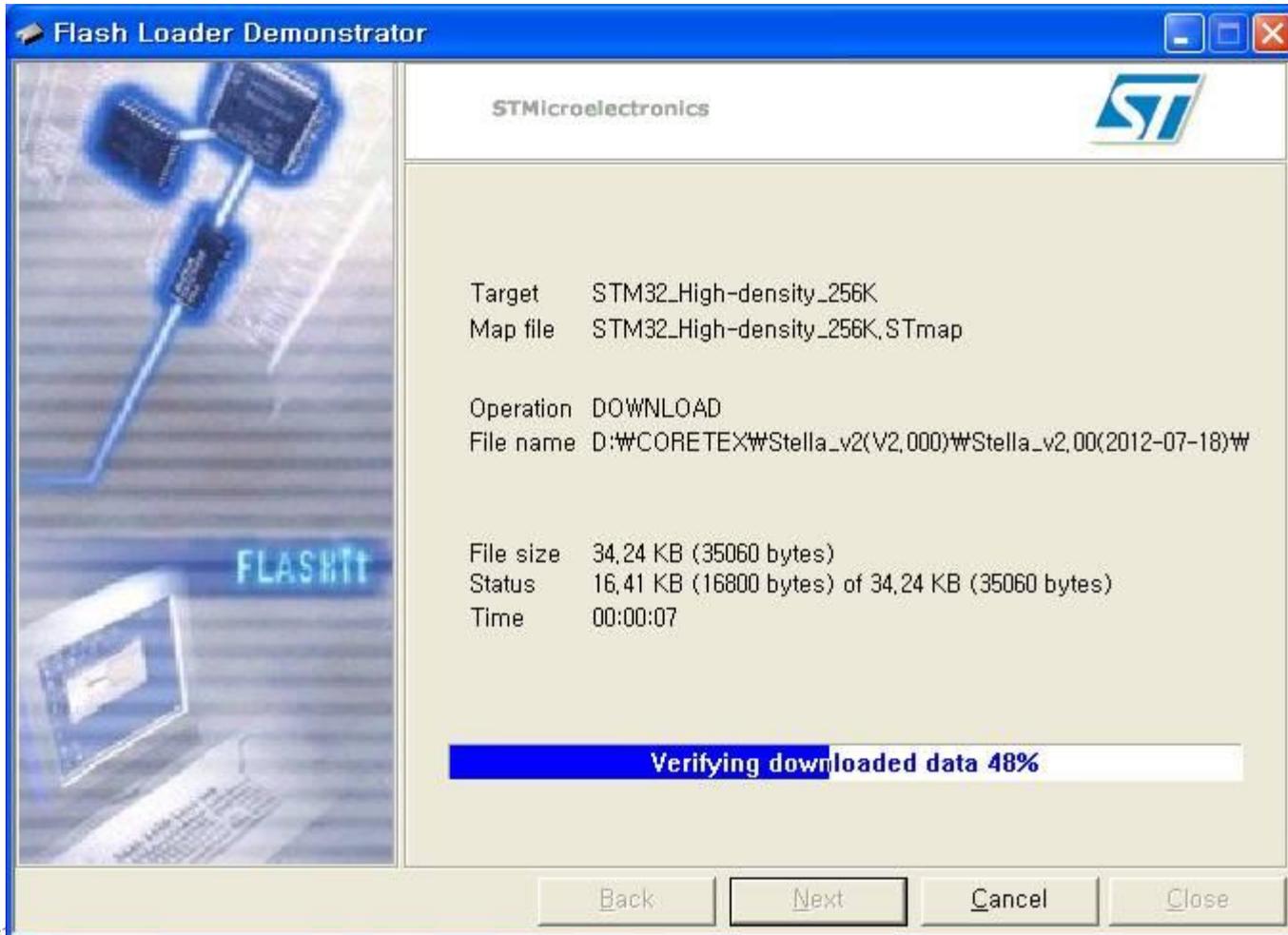
7. STMicroelectronics flash loader => NEXT



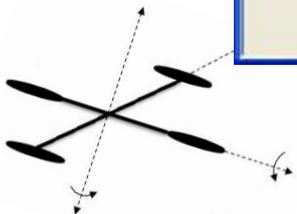
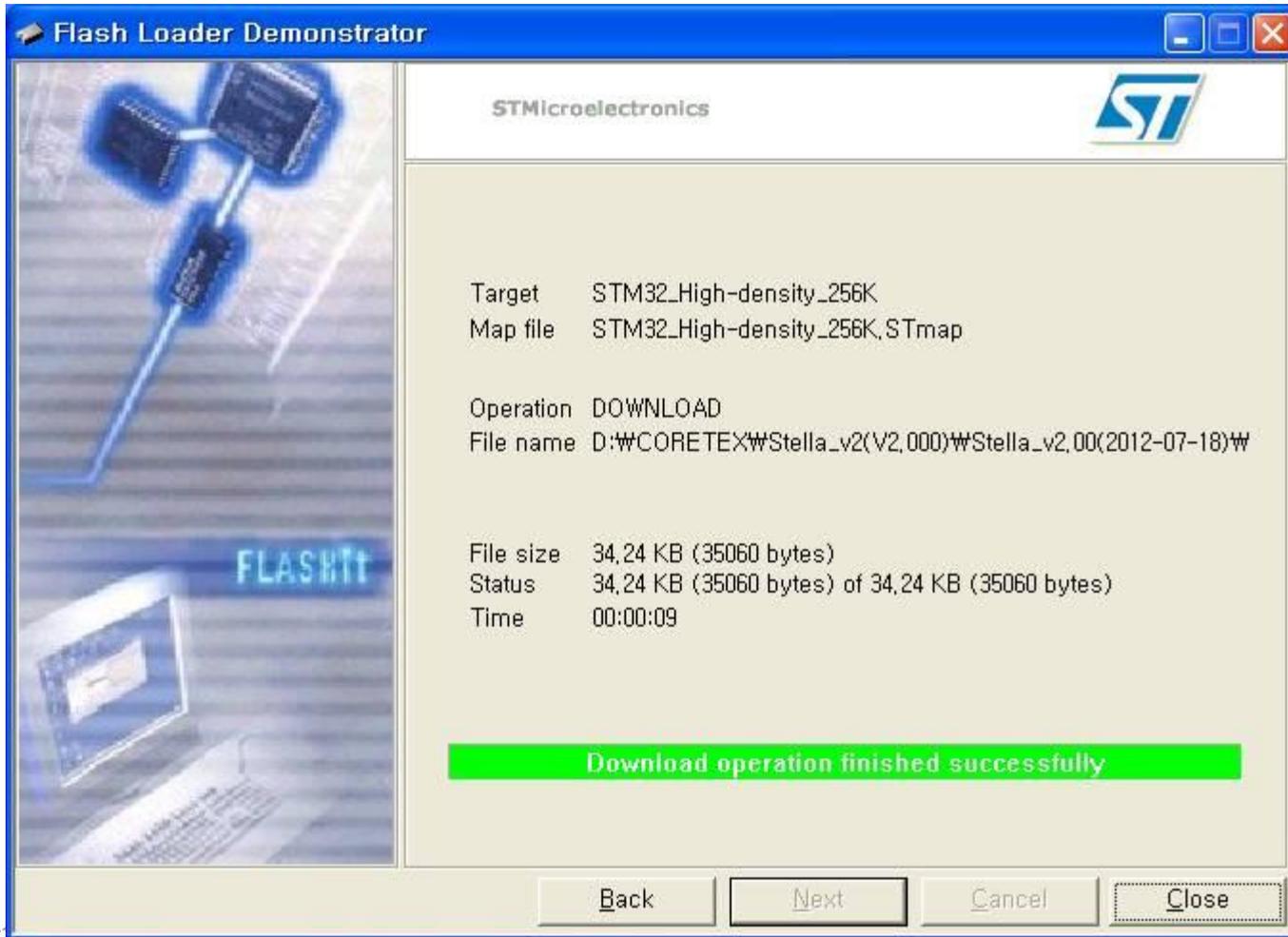
8. STMicroelectronics flash loader => NEXT



9. 다운로드 실행



10. 다운로드 완료



11. 스위치를 다음 위치로 이동 후 리셋 스위치를 누르면 완료 됩니다.

