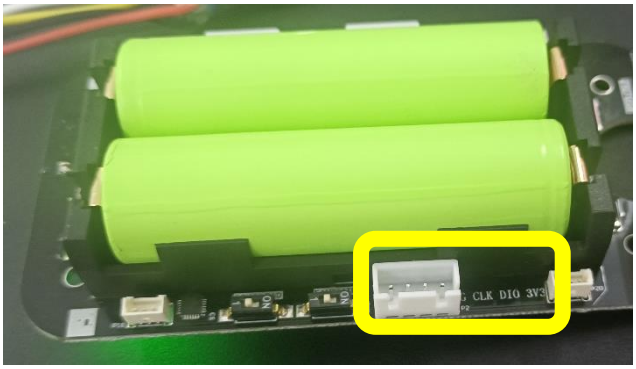
XGO Program Instructions

You can choose to update the program through the swd port or the USB port. Three update methods will be given below.

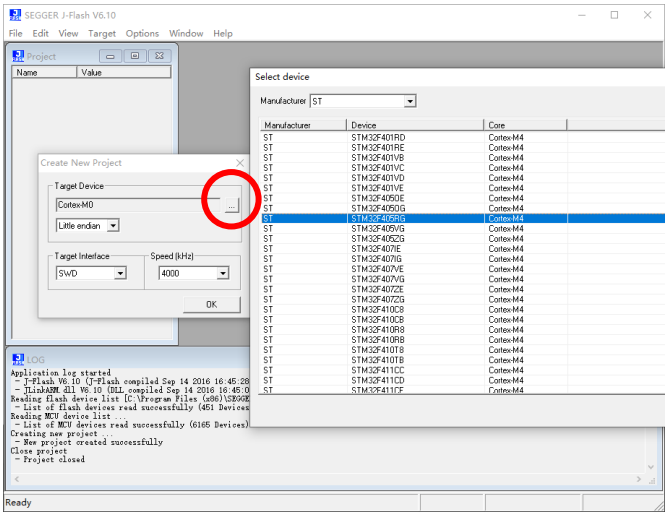
1、Jlink **Programming with J-FLASH software**

①A JLINK programmer is needed. First, connect 3V3, SWDIO, SWCLK, and GND on the jlink to the corresponding pins on the board.

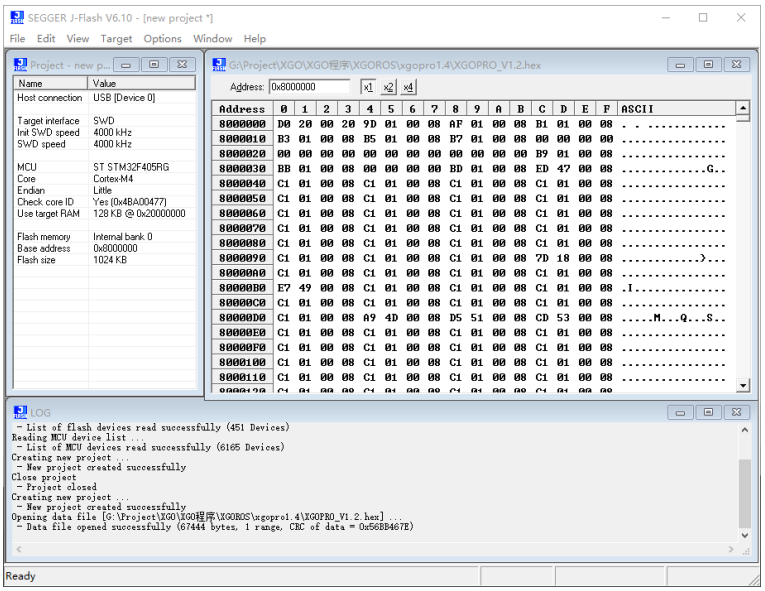
Pay attention to the line order! Inserting it backwards may burn the chip!



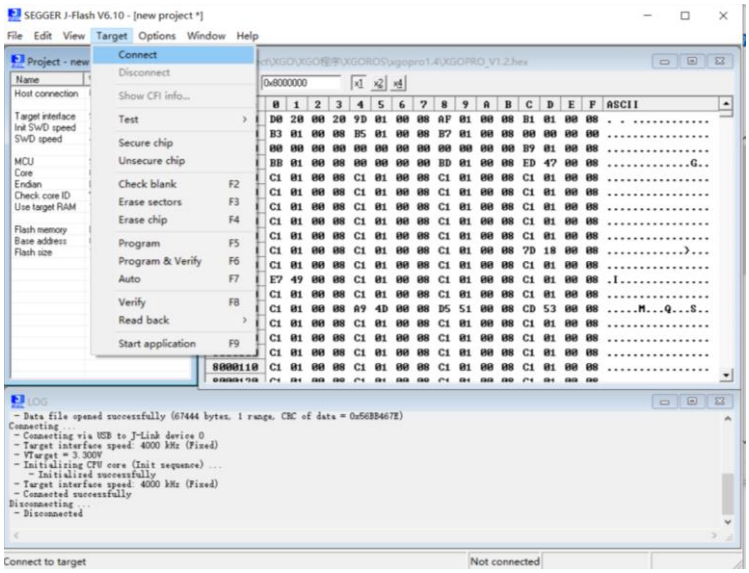
② Power on xgo.Open JFLASH, create a new project, click the button on the right side of Target Device, and select the STM32F405RG series in the new window



③Drag the hex file into the software



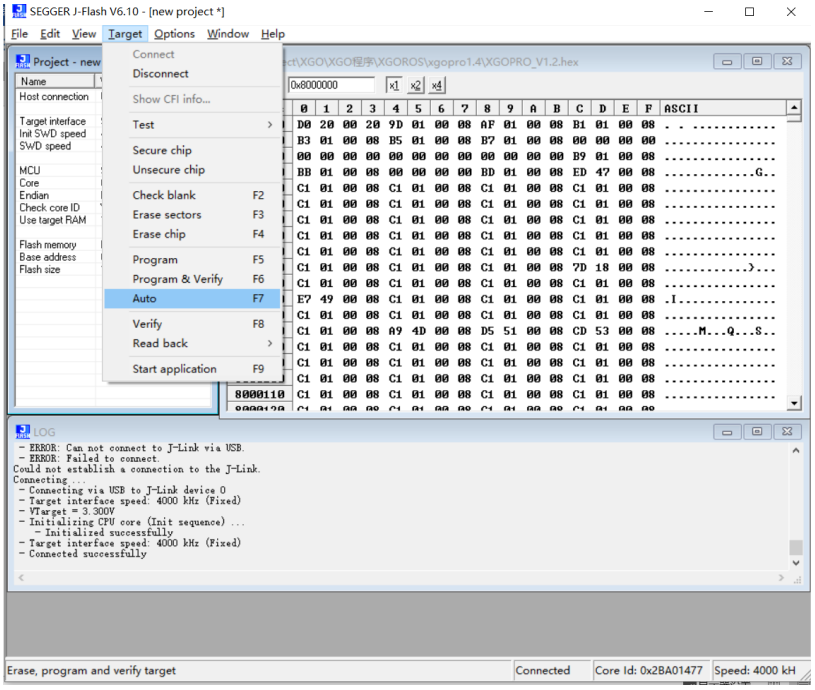
④Click Target->Connect to connect the board. If it fails, please check whether the download tool and the board are loose.

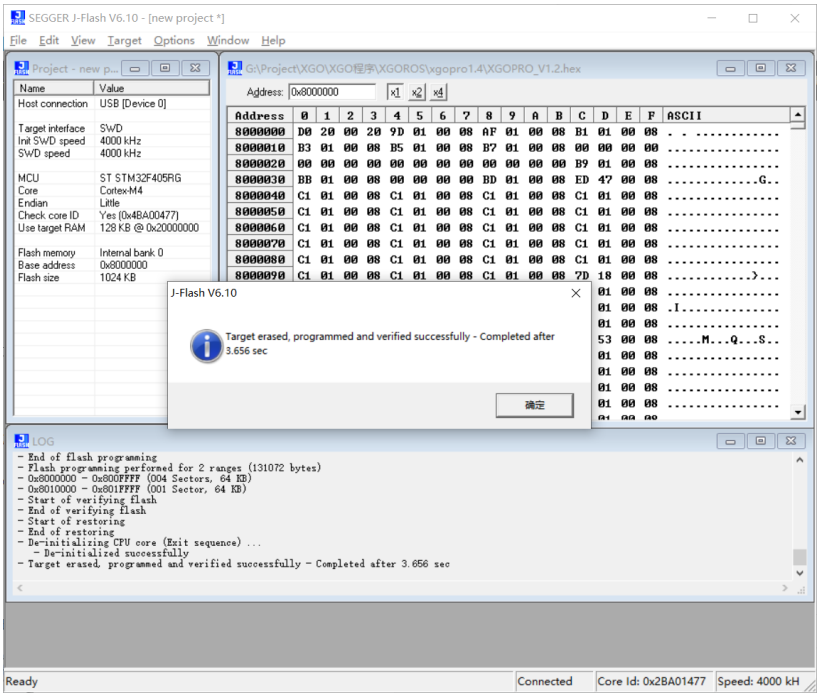



```
Connecting ...
 - Connecting via USB to J-Link device 0
 - Target interface speed: 4000 kHz (Fixed)
 - VTarget = 3.300V
 - Initializing CPU core (Init sequence) ...
    - Initialized successfully
 - Target interface speed: 4000 kHz (Fixed)
 - Connected successfully
```

⑤Click Target->Auto to complete the programming.

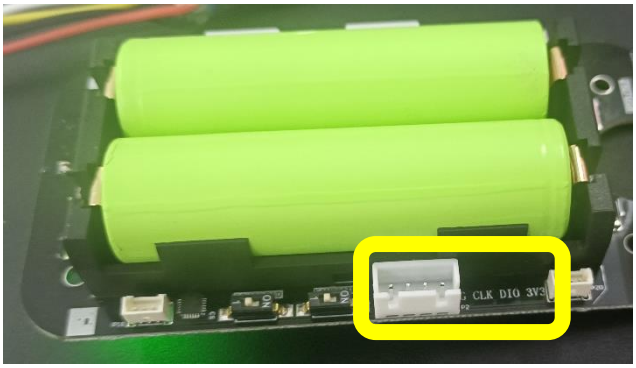
If there is no Auto option, you can also program by clicking manual programming->Program&Verify





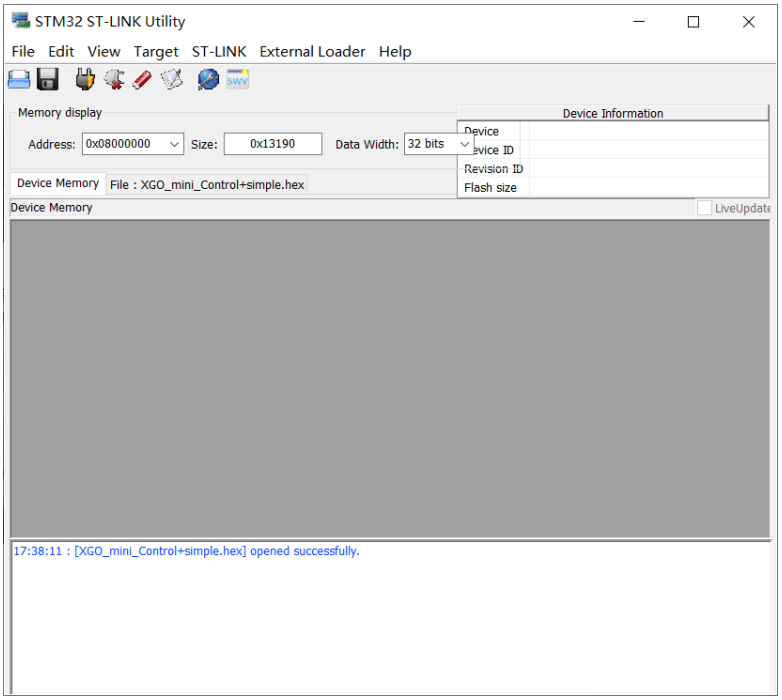
2、STLINK

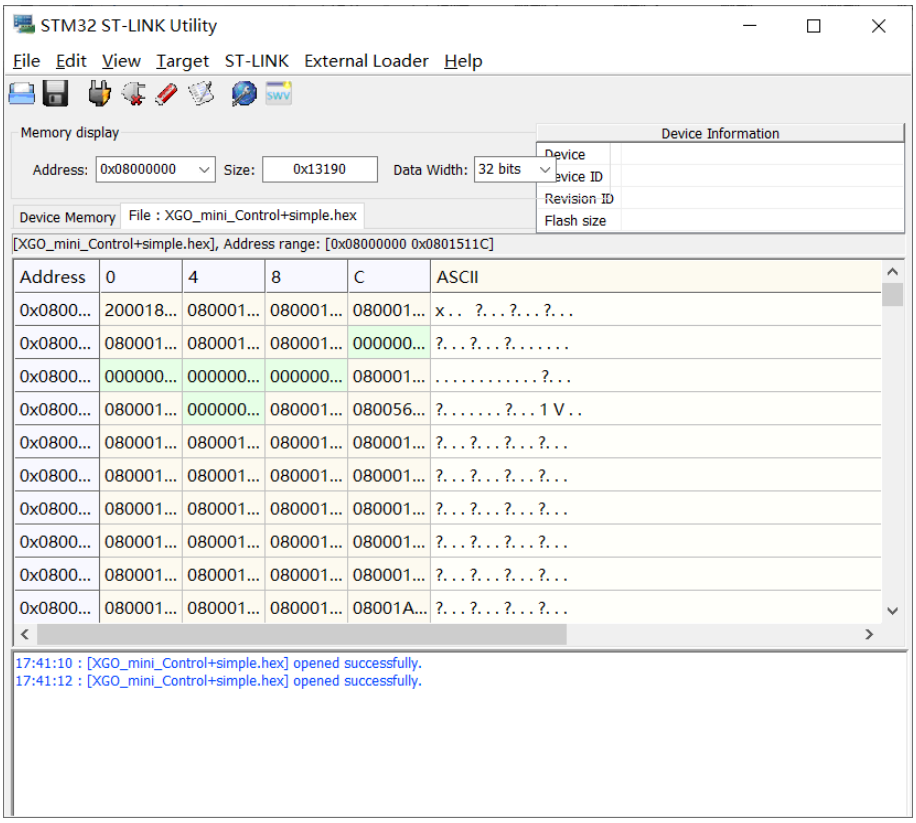
①A STLINK programmer is required, first install ST-LINK Utility.



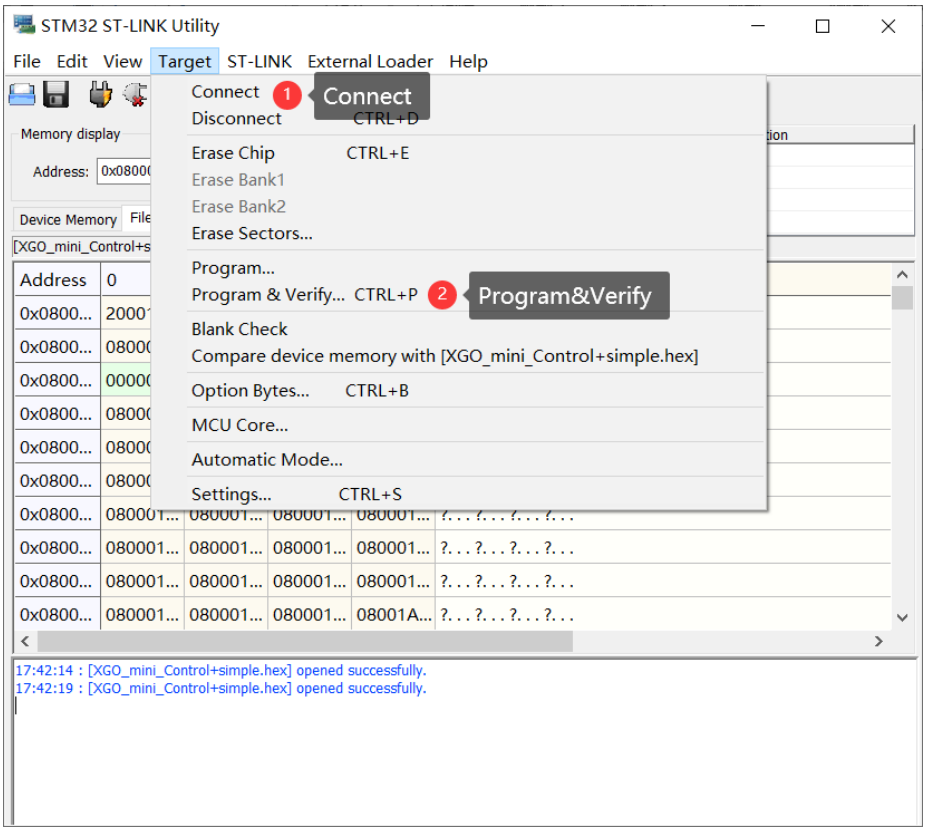
②Power on xgo.Then link 3V3, SWDIO, SWCLK, GND on STLINK with the corresponding pins on the board.

③Open ST-LINK Utility and drag the hex file into the grey area



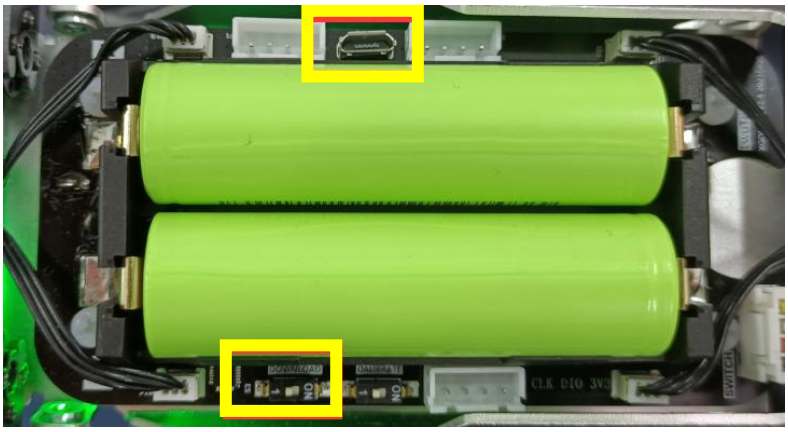


⑤Click Target -> Connect at the top, then click Target -> Program&Verify

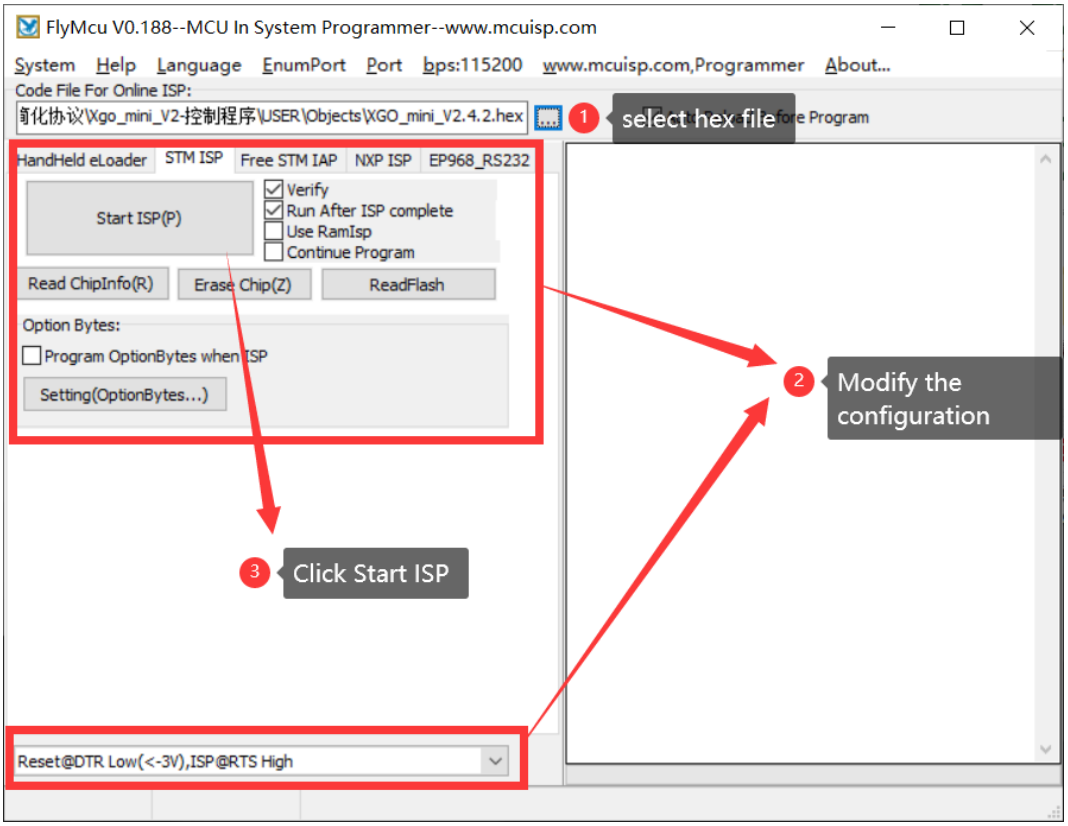


3、USB

①Power on xgo. Turn the download dial to the ON position, plug in the USB data cable and connect it to the computer



②Open any USB ISP programming software, take FLYMCU as an example



③After using USB programming, please **dial the DOWNLOAD dial back,** and then **calibrate the servo**