

UniFlash Burning

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1. Download UniFlash

Search for uniflash on the official website to download, or you can get it from our network disk.

Download address: [UNIFLASH Software programming tool | TI.com](#)

Choose a version that supports your own development environment. My development environment is Win10, so I choose to download the Windows version installer here.

The screenshot shows the TI UNIFLASH software programming tool download page. At the top, there is a navigation bar with links for "Software", "Documentation", "Support", and "Community". Below the navigation bar, there is a search bar and a "Log in" button. The main content area has a heading "SOFTWARE PROGRAMMING TOOL" and a sub-heading "UNIFLASH – UniFlash for most TI microcontrollers (MCUs) and mmWave sensors". There is a link "Supported products & hardware". On the right side, there are two buttons: "Launch" (disabled) and "Download options" (highlighted with a red border). Below this, there is a section for "Downloads" with a "Downloads" button. The "Downloads" section lists three download options: "UniFlash Windows Installer" (318341 K), "UniFlash Linux Installer" (295740 K), and "UniFlash macOS Installer" (238060 K). Each download entry includes an MD5 checksum and a download link icon.

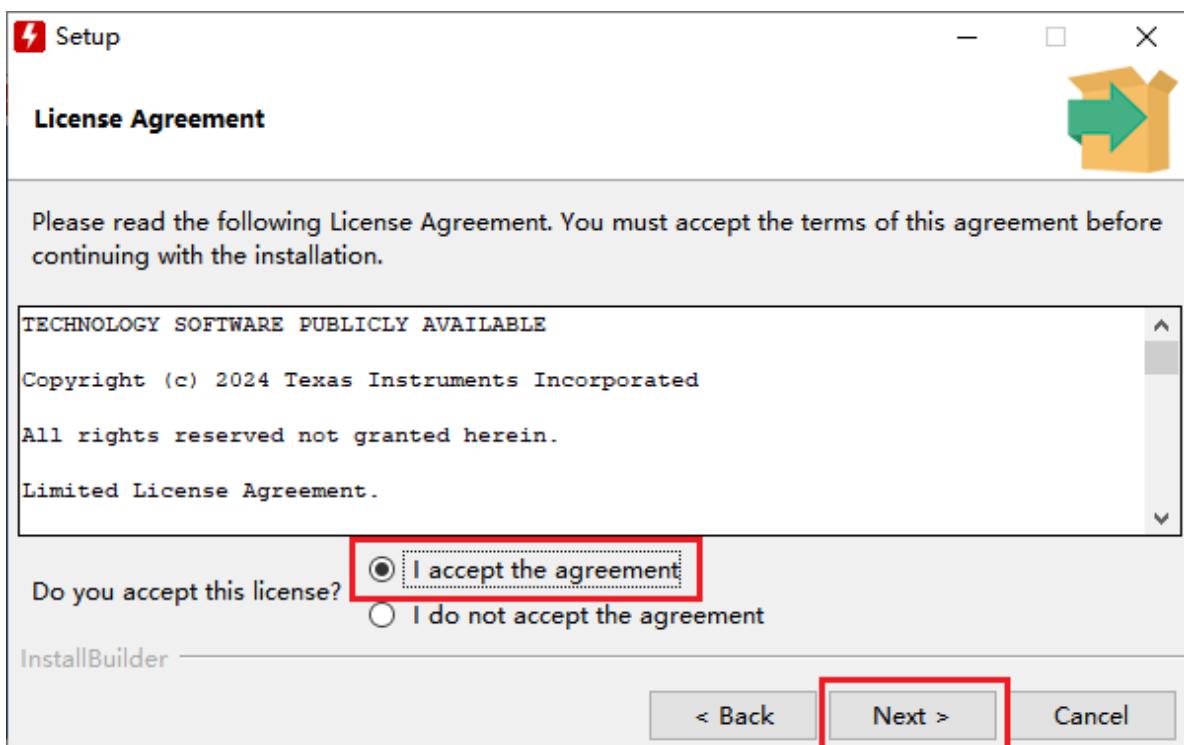
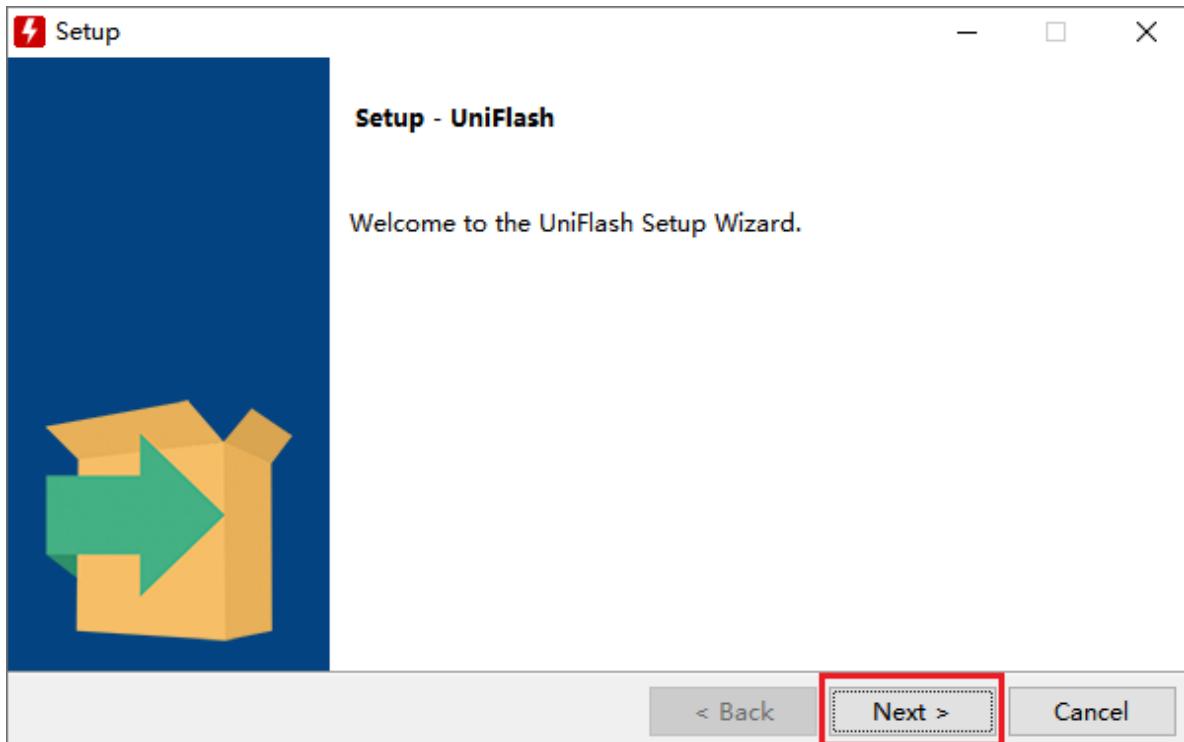
The screenshot shows the UNIFLASH software programming tool download page for Windows. At the top, there is a heading "UNIFLASH – UniFlash for most TI microcontrollers (MCUs) and mmWave sensors" with a close button "x". Below the heading, there is a "Latest version" button, a "Version: 8.8.1" label, and a "Release date: 08 Oct 2024" label. There are also "Release notes" and "View all versions" links. The main content area has a "Downloads" tab (highlighted with a red border) and a "Supported products & hardware" tab. The "Downloads" tab shows three download options: "UniFlash Windows Installer" (318341 K), "UniFlash Linux Installer" (295740 K), and "UniFlash macOS Installer" (238060 K). Each download entry includes an MD5 checksum and a download link icon. Below the download section, there is a "Documentation" tab.

2. Install uniflash

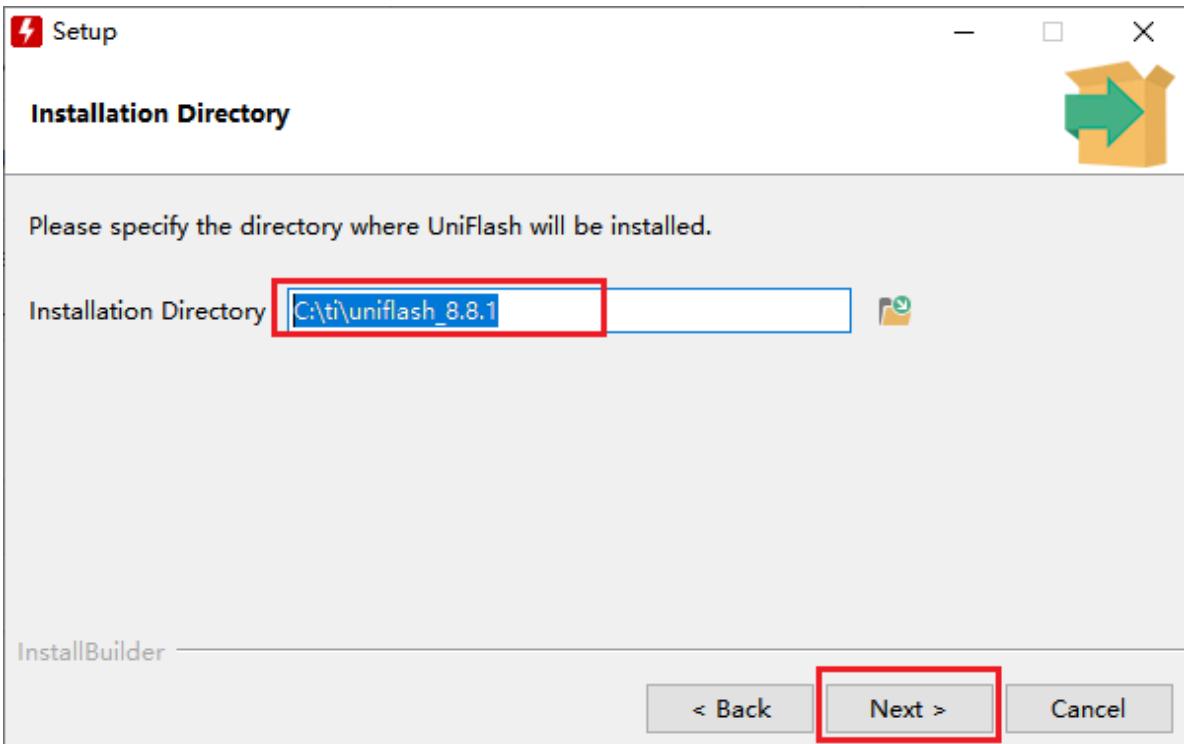
- Double-click the downloaded `uniflash_sl.x.exe` file

 uniflash_sl.8.8.1.4983.exe 2024/10/30 18:28 应用程序 318,342 KB

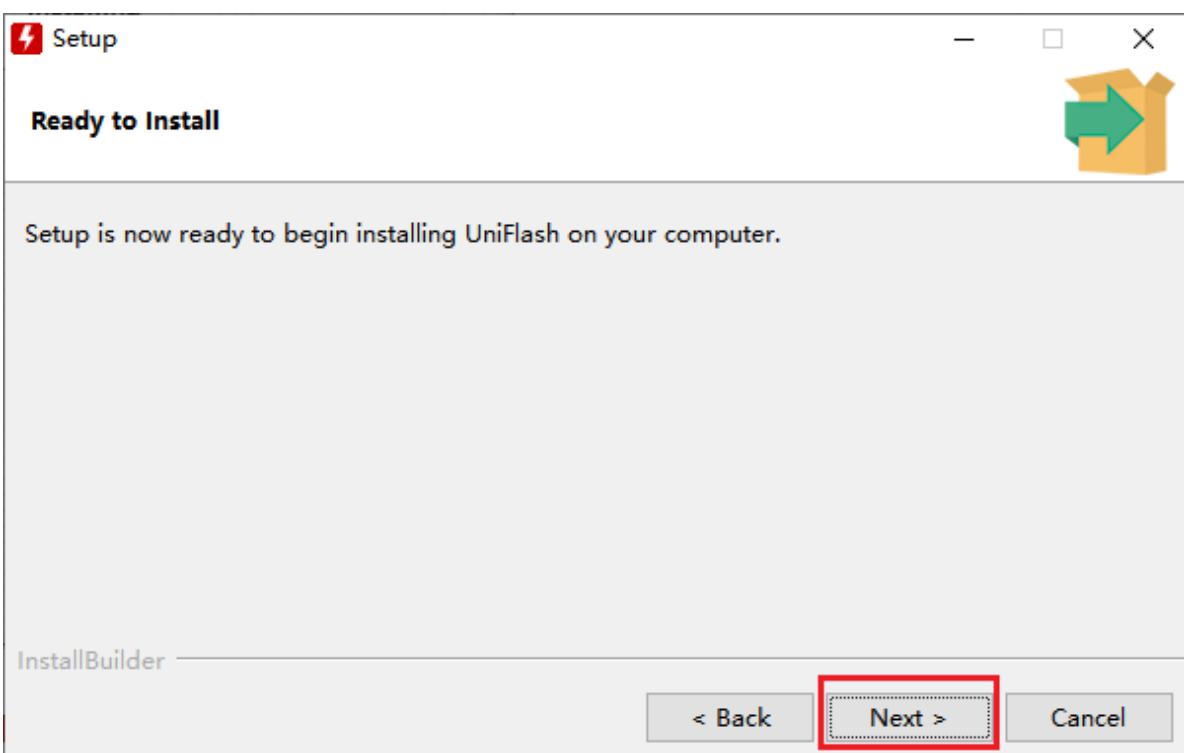
- Click `NEXT`

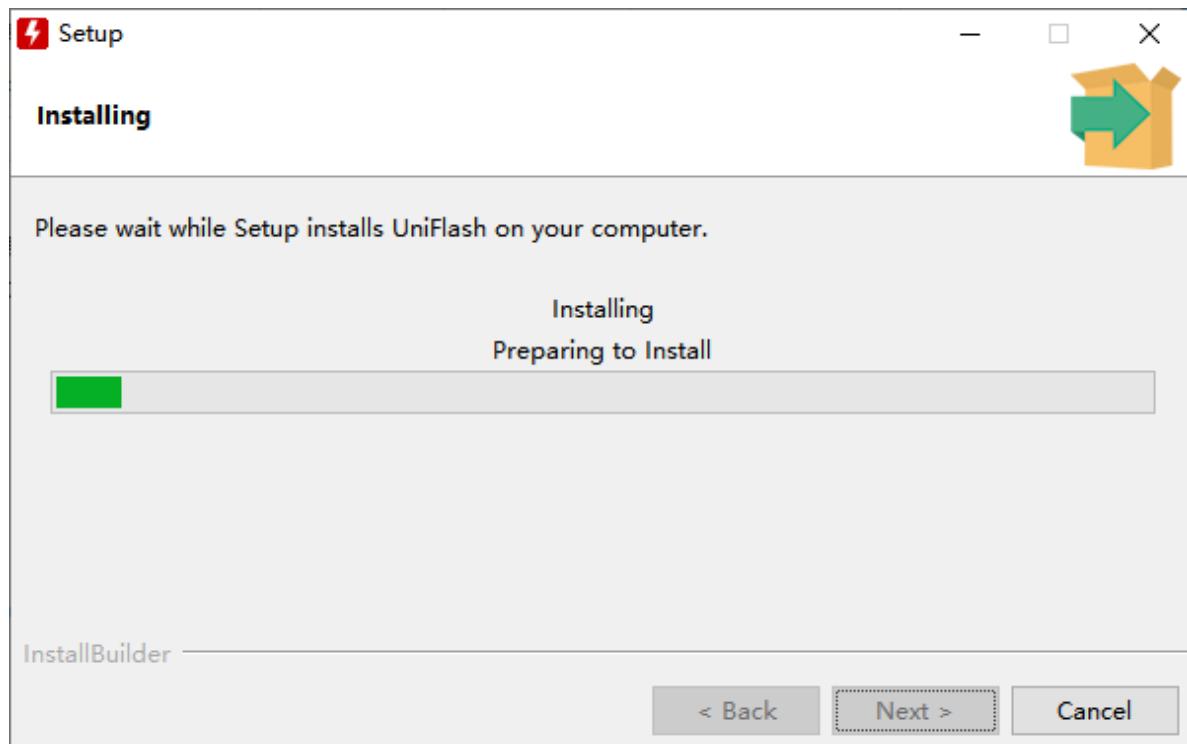


- Choose your own installation path

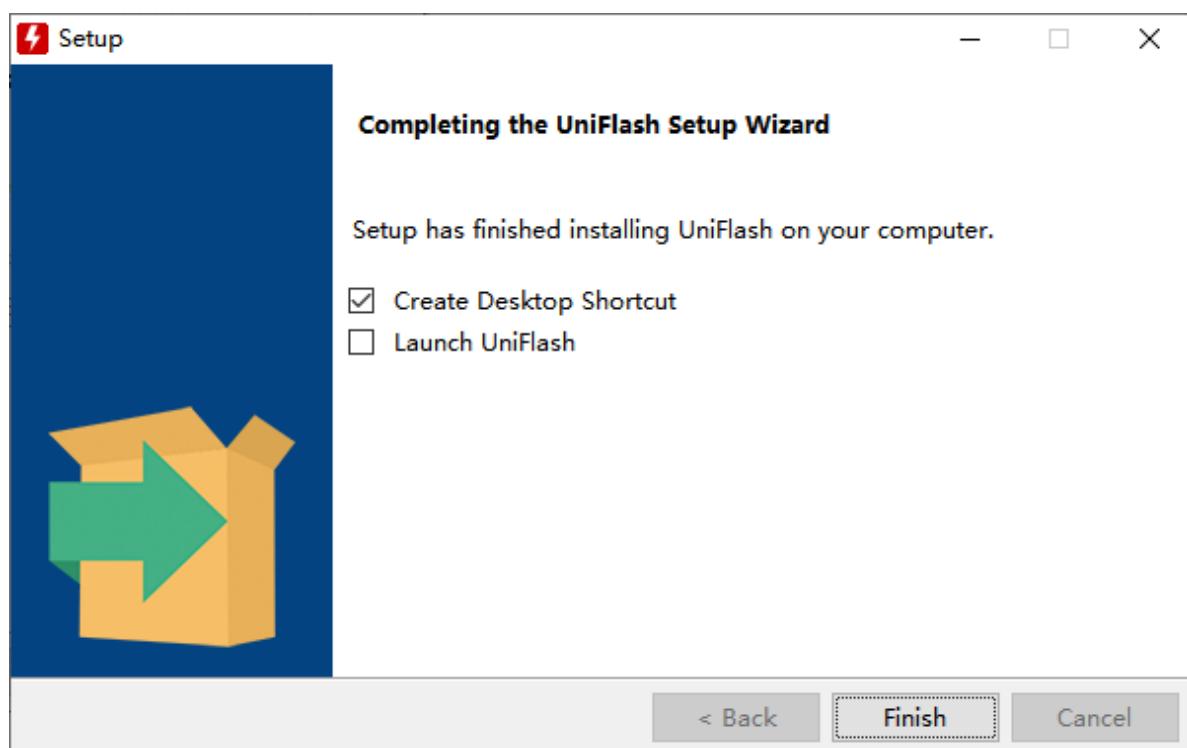


- Click **NEXT** to start the installation





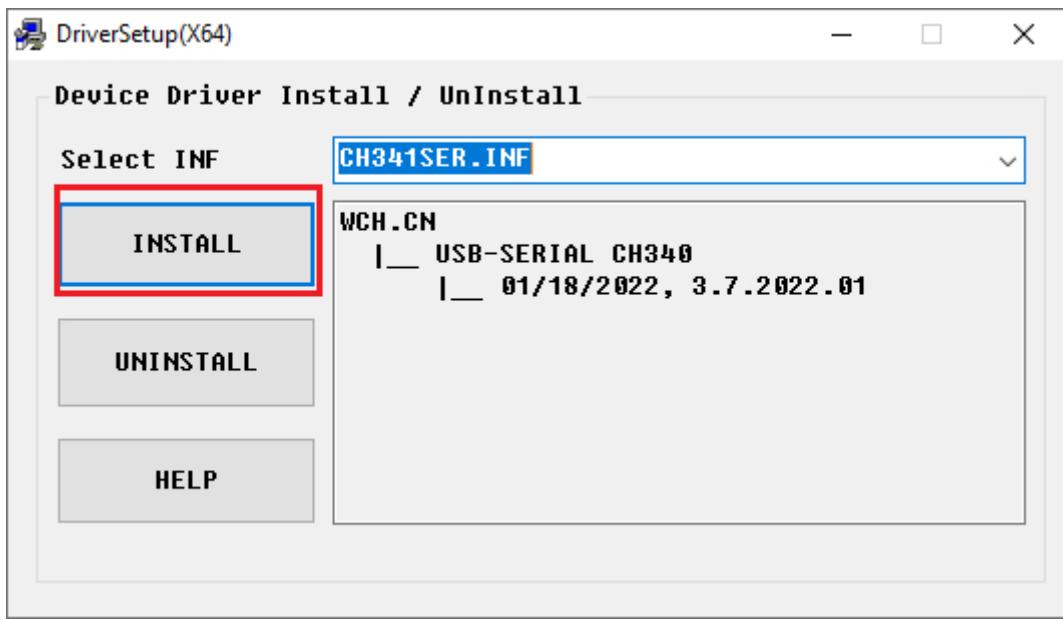
- Choose to create a desktop shortcut, and the installation is complete



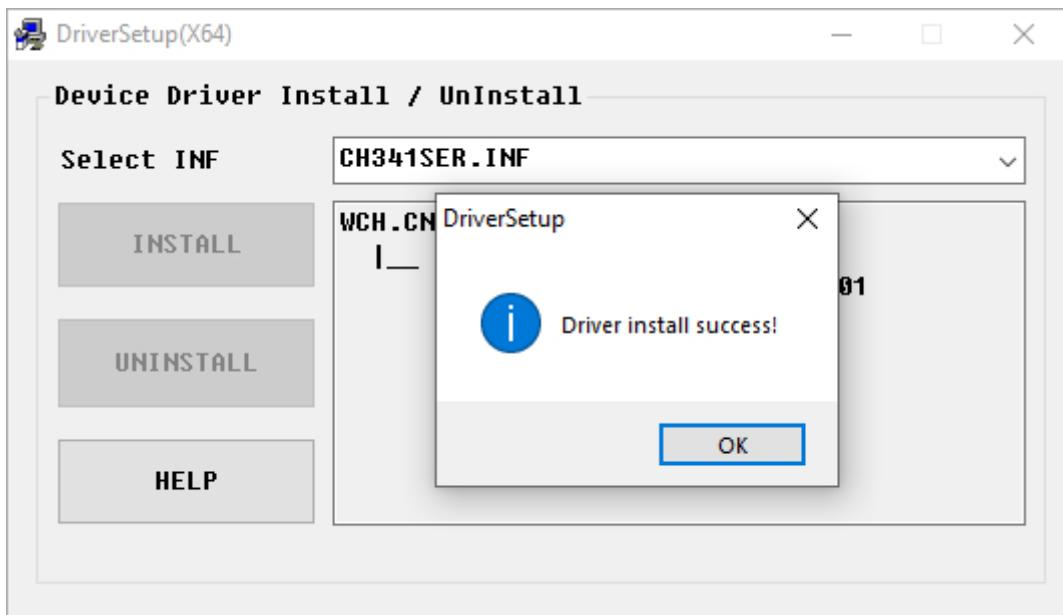
3. Install CH340 serial port driver

CH340 driver download address: [CH341SER.EXE - NanjingQinhengMicroelectronics](#)

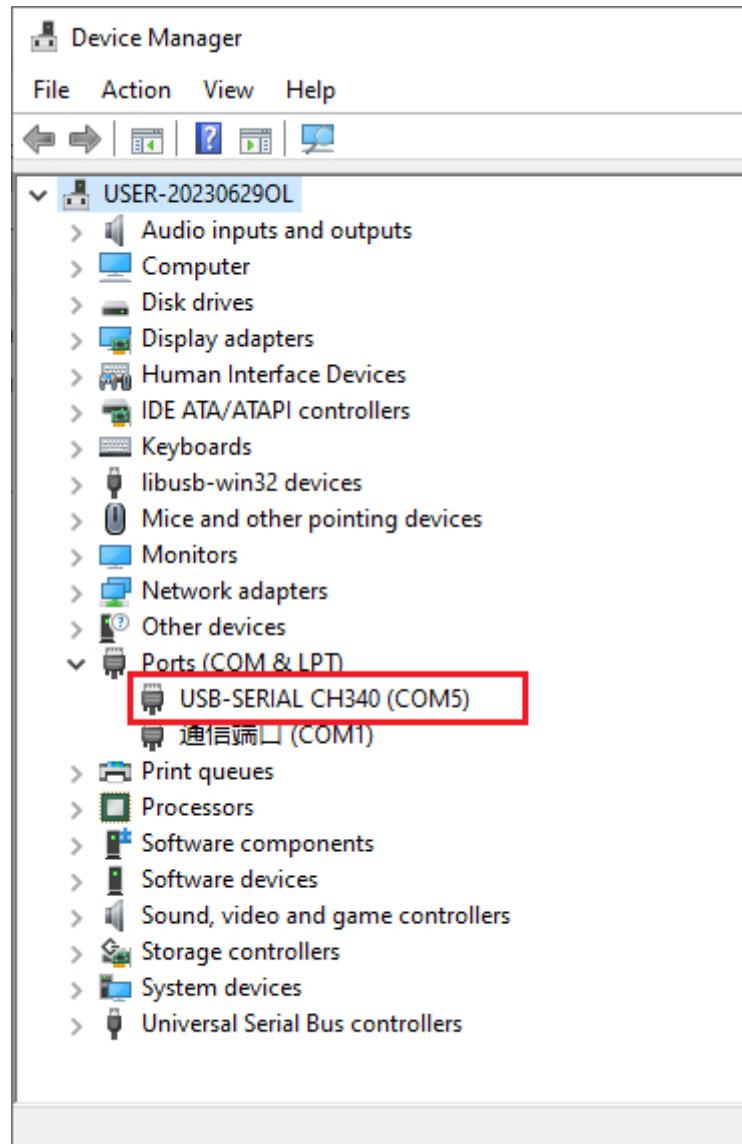
The steps to install the serial port driver are relatively simple. Just double-click `SETUP.EXE` in the installation package and click "Install".



The installation is successful as shown in the figure below.



Turn on the power, connect the MSPM0 motherboard and the computer via USB, open the device manager, and the port will display CH340 (COMX, X is the port number)



4. Open UniFlash and set parameters

Double-click UniFlash 8.8.1 to open it.



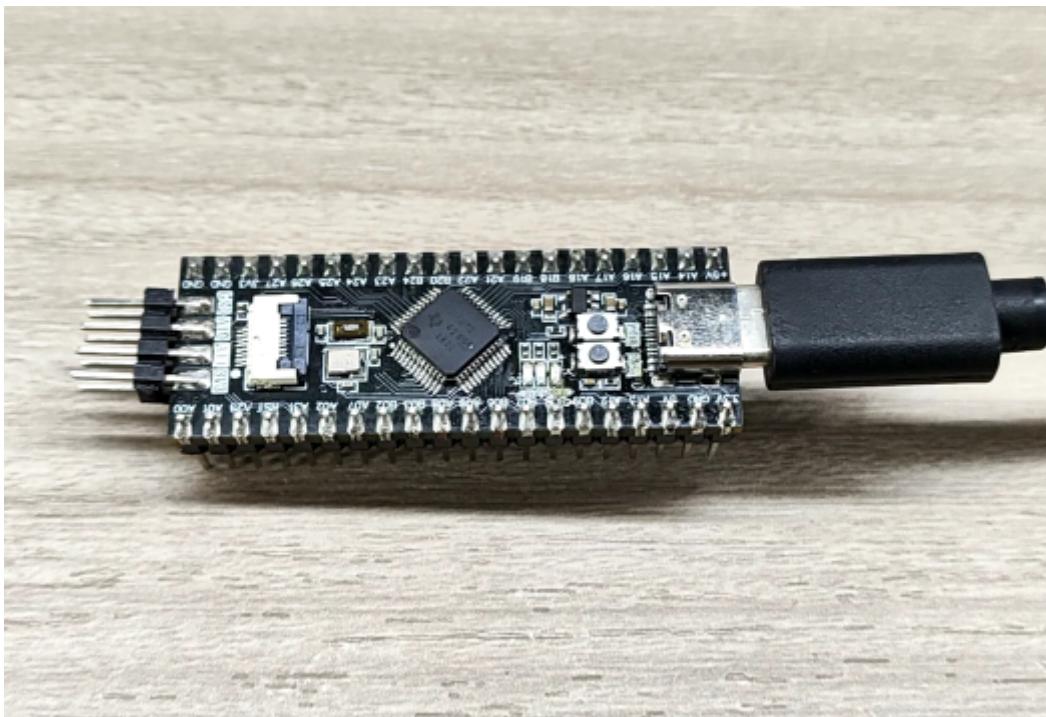
Search for MSPM0G3507 in the search box of the `New Configuration` column, and select the MSPM0G3507 with Serial that supports serial port download.

The screenshot shows the UniFlash software interface with the following steps highlighted:

- Step 1: Choose Your Device**
A search bar at the top right contains "MSPM0G3507". Below it is a list of results:
 - LP-MSPM0G3507 (LaunchPad, On-Chip)
 - MSP-M0G3507 (On-Chip)
 - MSP-M0G3507(BOOTLOADER) (Serial, highlighted with a red box)A red arrow points from the text "Serial Connection" below the list to the "Serial" option in the dropdown menu.
- Step 2: Choose Your Connection**
This step is indicated by a small number "2" next to the "Choose Your Connection" text.
- Step 3: Start**
A red arrow points to the "Start" button, which is highlighted with a red box.

Create Session From Existing Target Configuration File
This section is shown at the bottom of the interface, indicating the option to create a session from an existing configuration file.

Just use the TYPE-C data cable to connect to the TYPE-C interface of the development board.



In the **Program** column, select the binary file generated by the code, which supports .hex and .bin files, manually enter the serial port number of the device, and select the baud rate **9600**.

UniFlash Session ▾ About

Configured Device : Serial Connection > MSPM0G3507(BOOTLOADER) [download ccxml]

• CORTEX_M0

Program	Select and Load Images
Settings & Utilities	Flash Image(s)
Standalone Command Line	

Password

Application Image 1

Application Image 2

Application Image 3

Available Action(s)

▼ Quick Settings | Remove All

Note: Example - COM1 (Windows), ./dev/ttyACM0 (Linux), ./dev/tty.usbmodem1411 (OS X)

COM Port: **COM10**

Note: Only UART Communication Support is available. Communication bridge for UART is only supported by XDS Application UART or XDS 110 Probe

UART Speed:

- 4800
- 9600**
- 19200
- ...

In the Erase setting of the **Settings & utilities** column, select Erase main memory only

UniFlash Session ▾ About

Configured Device : Serial Connection > MSPM0G3507(BOOTLOADER) [download ccxml]

• CORTEX_M0

Program	Find and Configure Settings and Utilities
Settings & Utilities	
Standalone Command Line	

Search: Enter Property ID Or Name To Search For Settings and Buttons

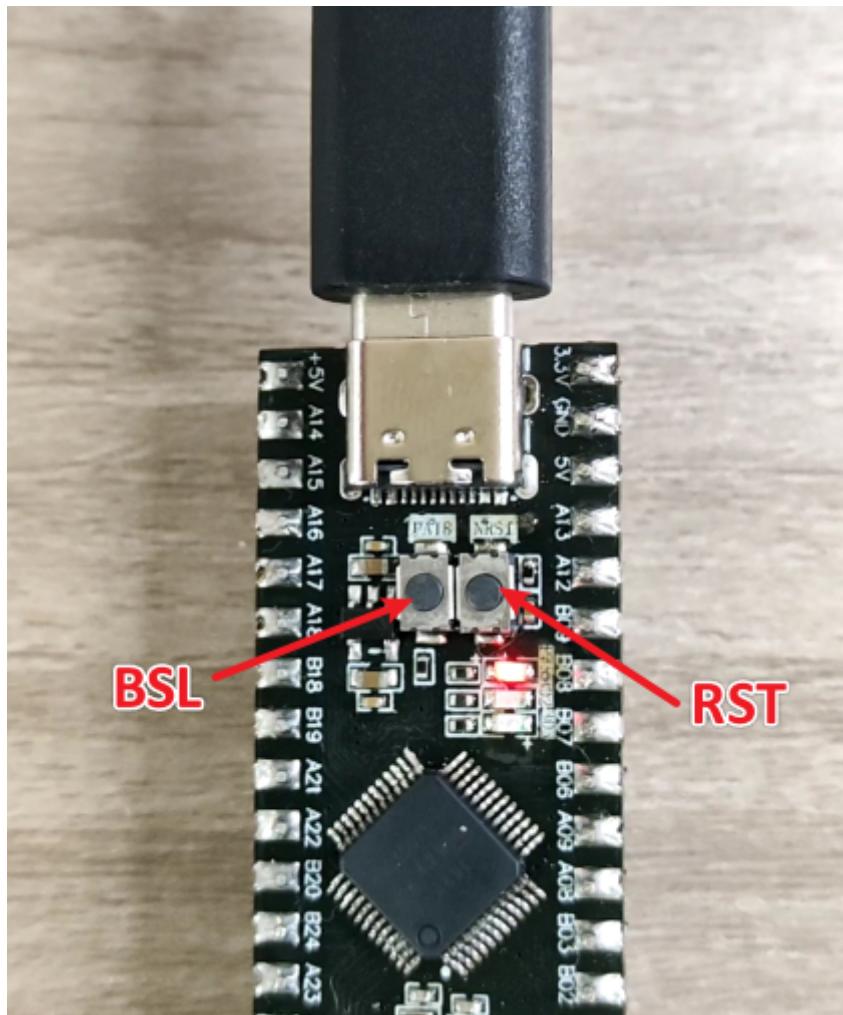
More Info Pin Option

Erase Setting:

- Erase and download necessary segments only
- Erase main memory only**
- Factory Reset
- Do not erase flash memory

5. Burning program

After the development board is connected to the computer, press and hold the BSL button, which is the PA18 button, and then press the RST button. Release the RST button for about 1S, and then release the BSL button. At this time, it enters the burning mode.

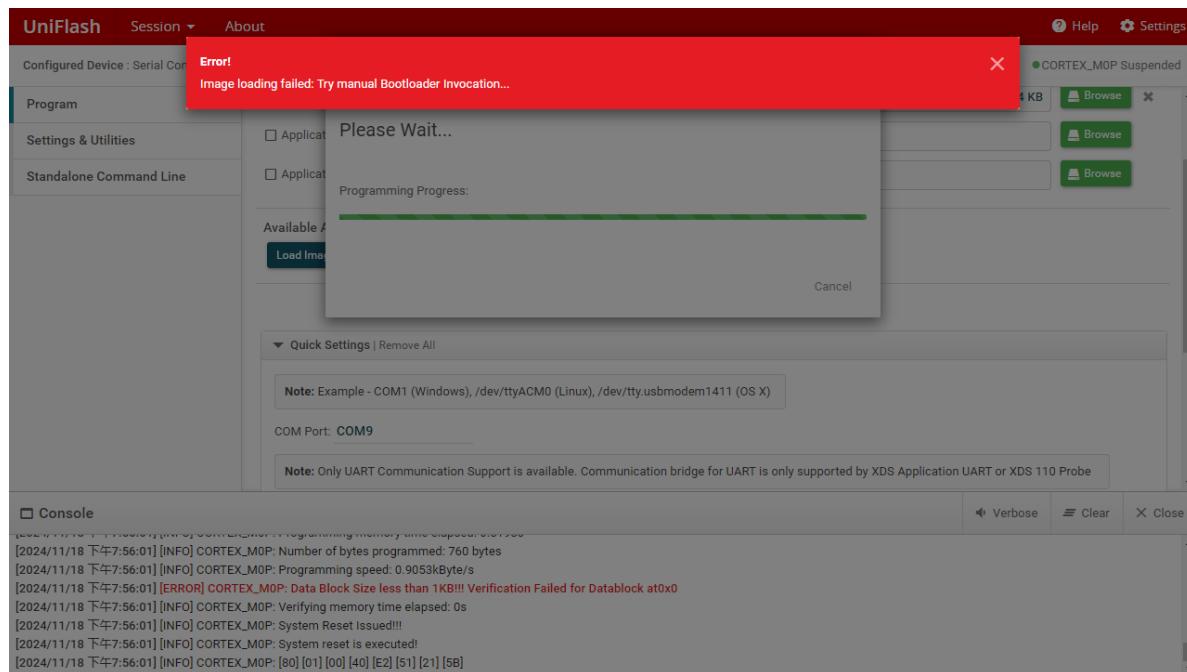


After entering the burning mode, click Load image to download.

Note: The download must be performed within 10 seconds after the development board enters the burning mode, otherwise the download will fail.

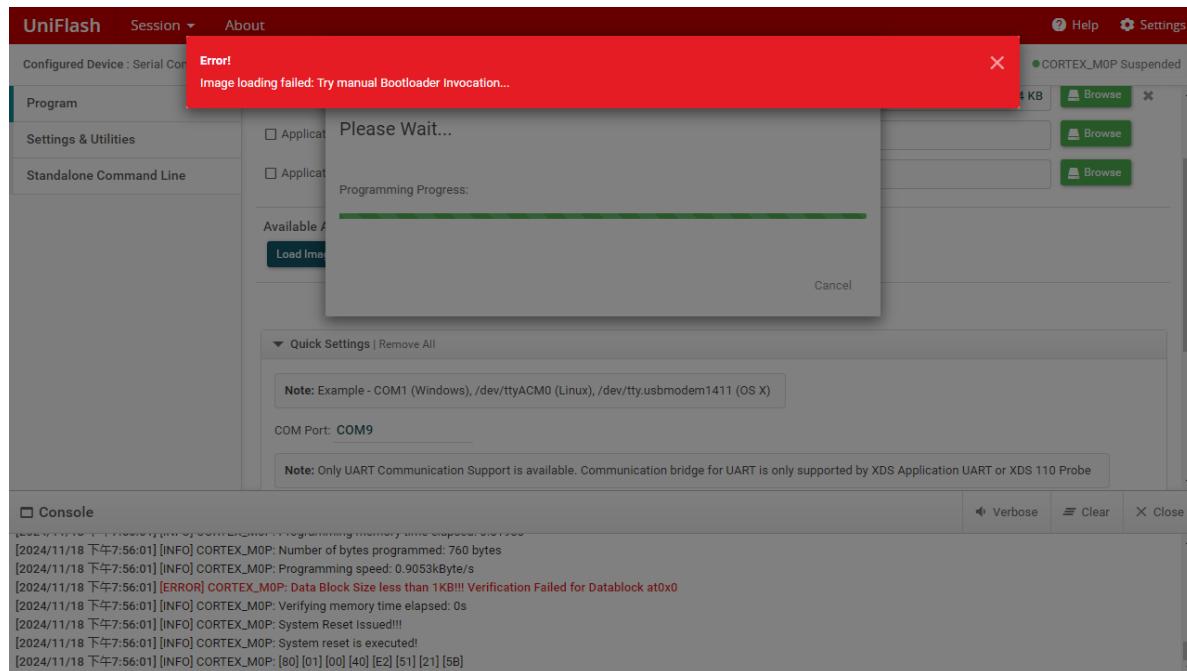
A screenshot of the UniFlash software interface. The top navigation bar includes 'UniFlash', 'Session ▾', 'About', 'Help', and 'Settings'. The main window shows a configuration for 'MSPM0G3507(BOOTLOADER) [download ccxml]'. On the left, there's a sidebar with tabs for 'Program', 'Settings & Utilities', and 'Standalone Command Line'. The 'Program' tab is active, displaying a section titled 'Select and Load Images' with 'Flash Image(s)' and three 'Application Image' fields. The first field has a checked checkbox and the file name 'empty_LP_MSPM0G3507_nortos_keil.hex'. Below this is a note: 'Available Action(s) - 1 Image Selected' with a 'Load Image' button highlighted by a red box. A note at the bottom says: 'Note: Please power cycle your device before loading images.'

When the same error as the following image appears, Image loading failed: Try manual Bootloader invocation..., the download has actually been successful. This is a bug in the download software.



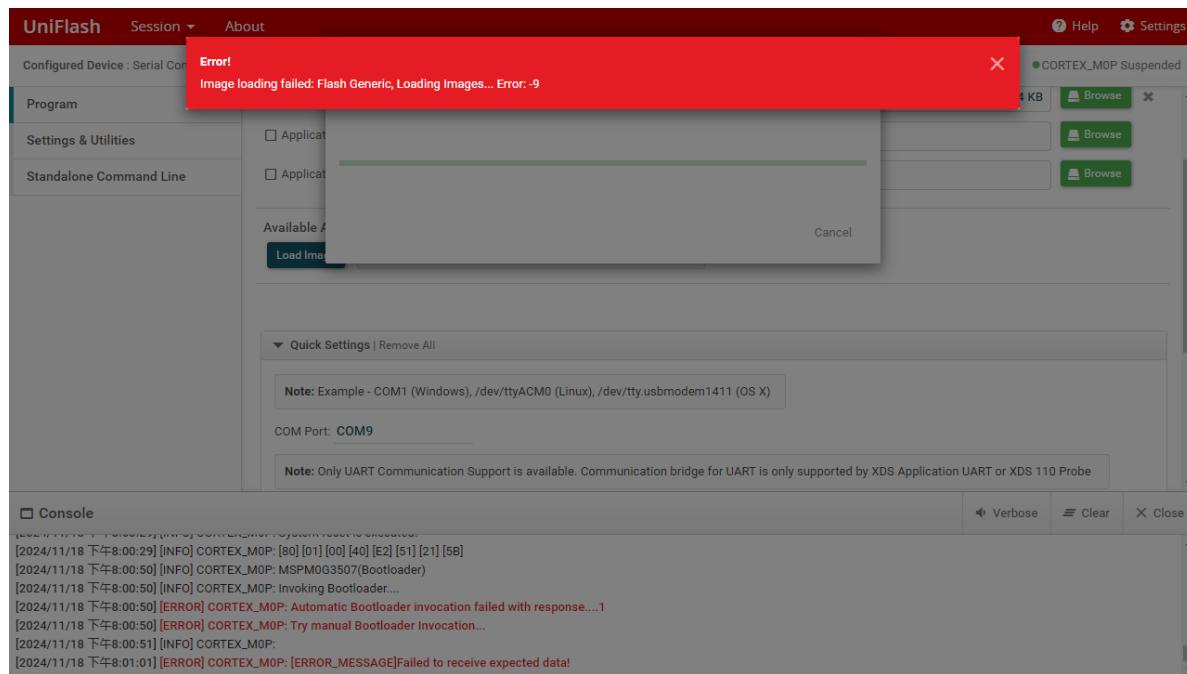
6. Frequently asked questions

1. Download error Image loading failed: Try manual Bootloader invocation...



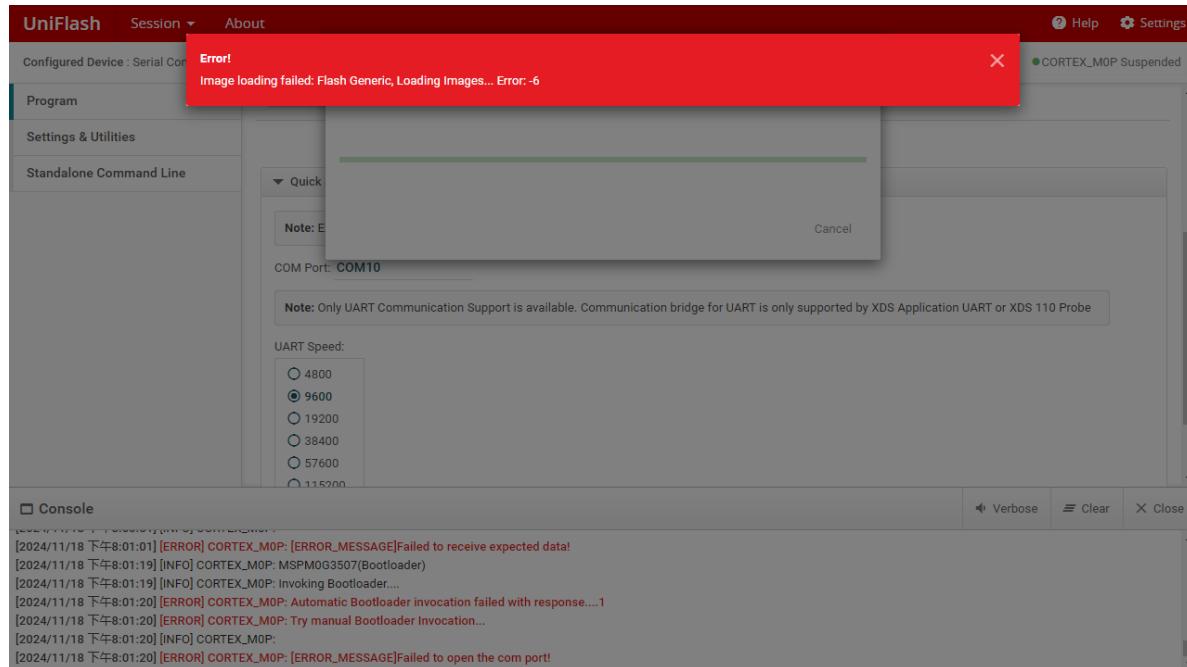
A: This is a bug in the download software. It has actually been downloaded.

2. Download error Image loading failed: Flash Generic, Loading Images... Error: -9

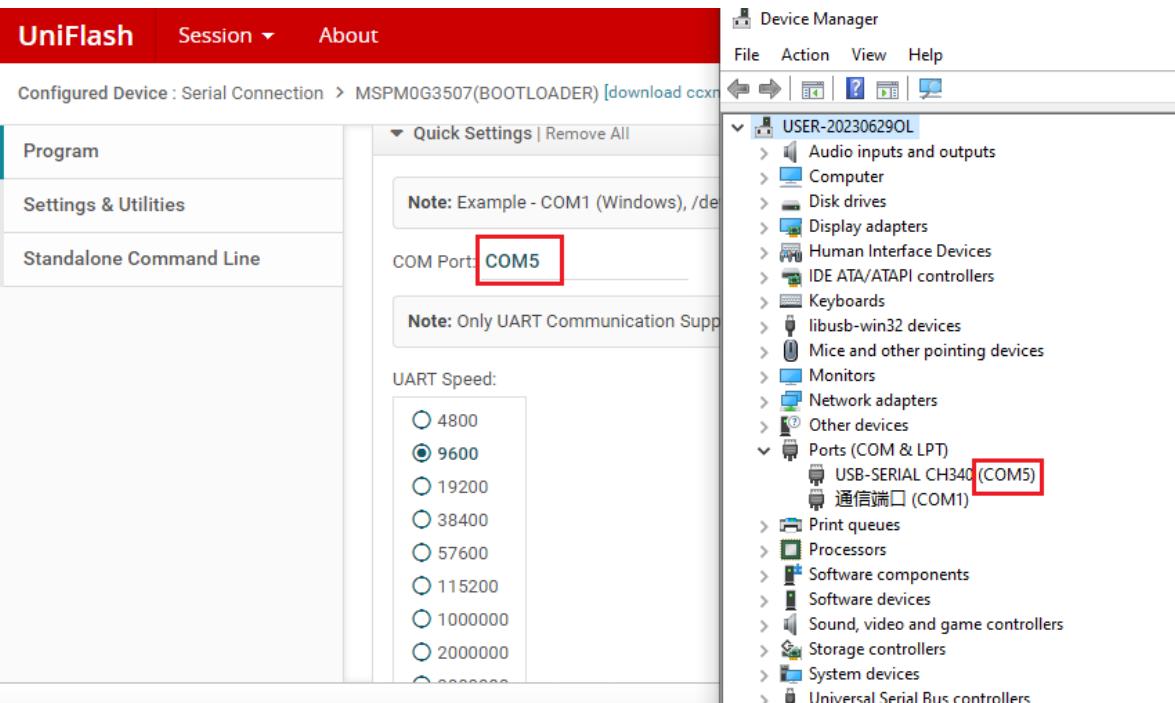


A: The chip has not entered the burning mode. You need to keep pressing the BSL(PA18) button, then press the RST button for about 1s and release it, and finally release the BSL(PA18) button to enter the burning mode.

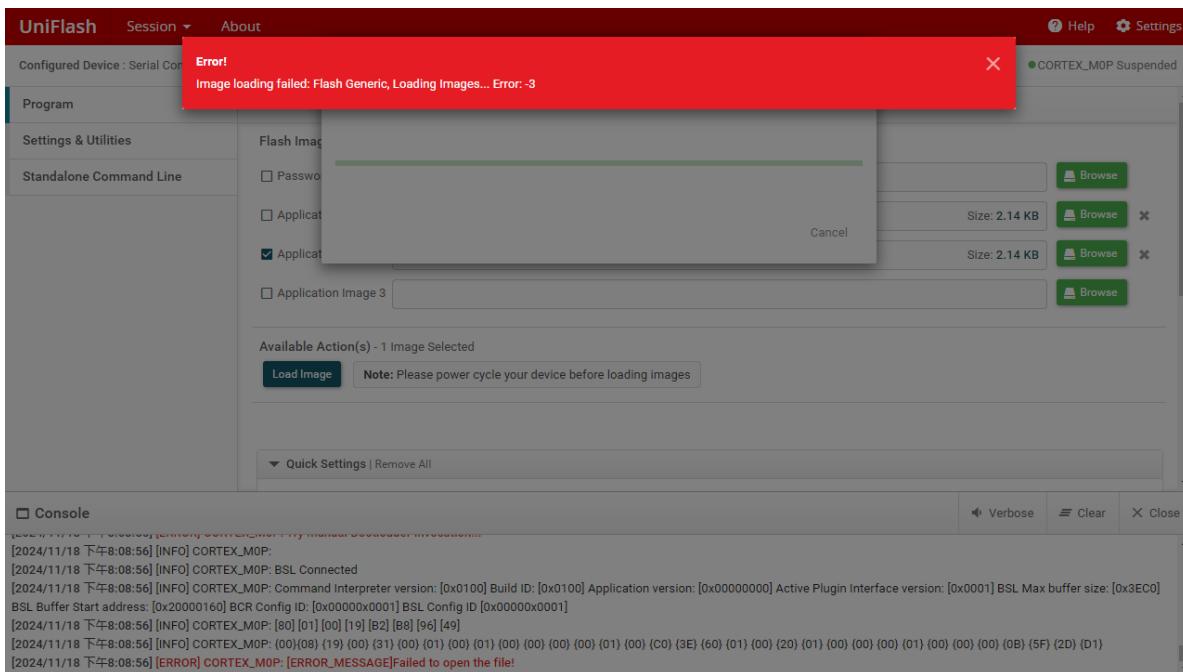
3. Download error Image loading failed: Flash Generic, Loading Images... Error: -6



A: The correct download port is not selected or the port is occupied. You can check the current port number of MSPM0 in the device manager and then manually enter it into the `com Port` column.

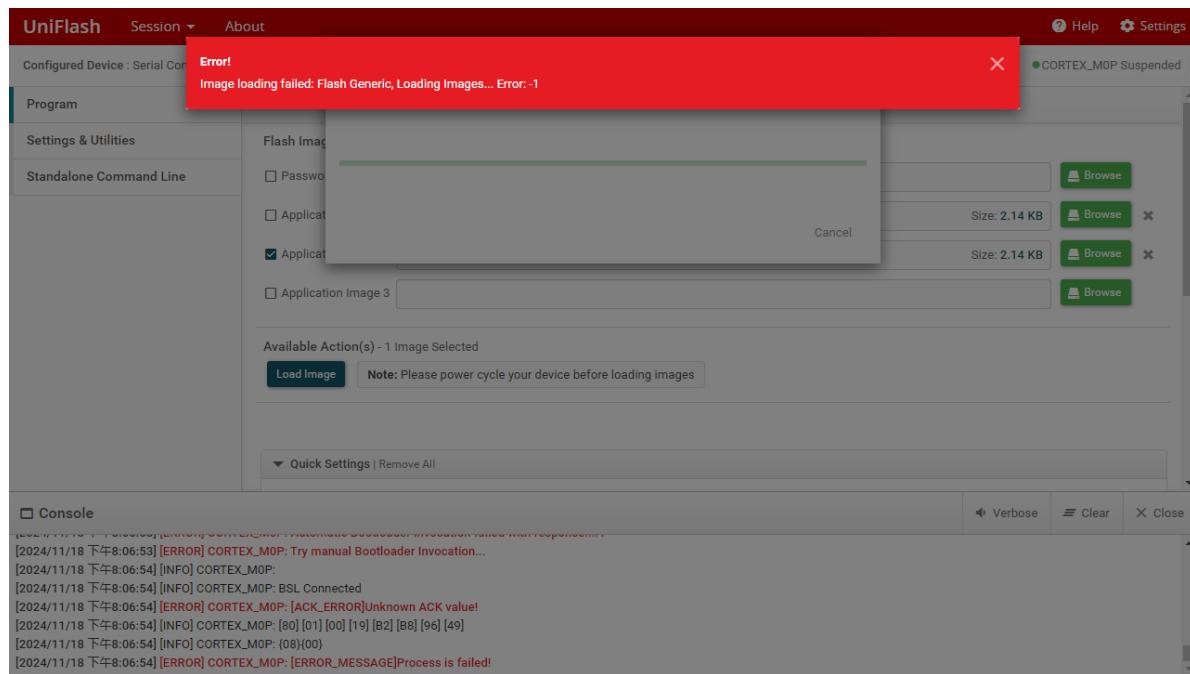


4. Download error Image loading failed: Flash Generic, Loading Images... Error. -3



A: The burned program cannot be in the Chinese path, it must be placed in the English path.

5. Download error Image loading failed: Flash Generic, Loading Images... Error. -1



A:For accidental events, just re-burn.