

# Burning STM32 firmware using serial port

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1. Download and install the tool
2. Hardware Connection
3. STM32CubeProgrammer burns firmware

## 1. Download and install the tool

Here we take Win 64-bit system as an example

This time we need to use the STM32CubeProgrammer burning tool. Download link:

<https://www.st.com/en/development-tools/stm32cubeprog.html>

### Get Software

	Part Number	General Description	Download	All versions
+	CubePrg-Mac-Arm	STM32CubeProgrammer software for MacOS Arm	<a href="#">Get latest</a>	
+	STM32CubePrg-Lin	STM32CubeProgrammer software for Linux	<a href="#">Get latest</a>	<a href="#">Select version</a> ▼
+	STM32CubePrg-Mac	STM32CubeProgrammer software for Mac	<a href="#">Get latest</a>	<a href="#">Select version</a> ▼
+	STM32CubePrg-W32	STM32CubeProgrammer software for Win32	<a href="#">Get latest</a>	<a href="#">Select version</a> ▼
+	STM32CubePrg-W64	STM32CubeProgrammer software for Win64	<a href="#">Get latest</a>	<a href="#">Select version</a> ▼

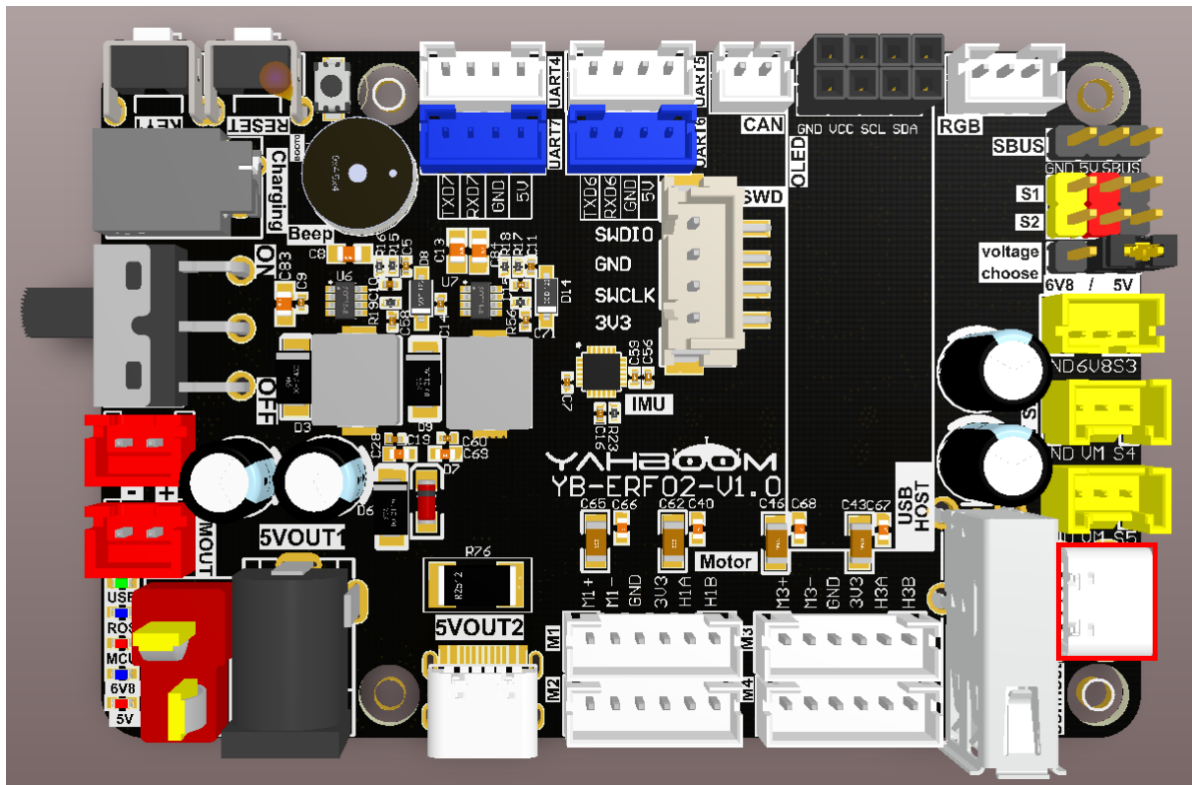
Serial port driver download address:

[https://www.silabs.com/documents/public/software/CP210x\\_windows\\_Drivers.zip](https://www.silabs.com/documents/public/software/CP210x_windows_Drivers.zip)

After downloading the burning tool and serial port driver, unzip them and follow the prompts to install them.

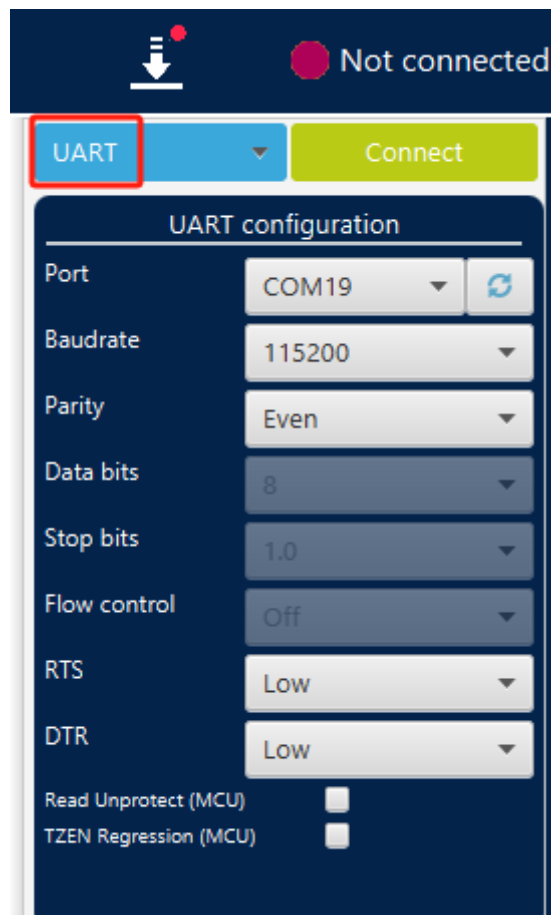
## 2. Hardware Connection

Use a Type-C data cable to connect to the computer.

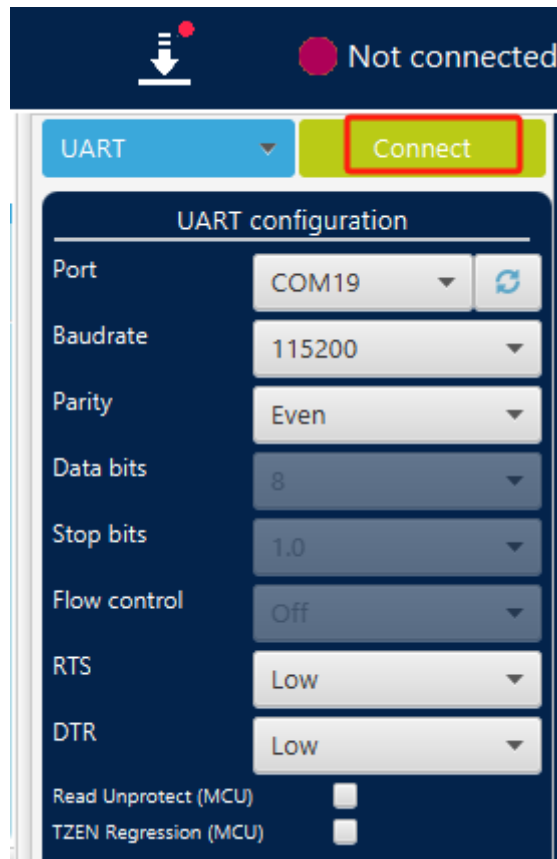


### 3. STM32CubeProgrammer burns firmware

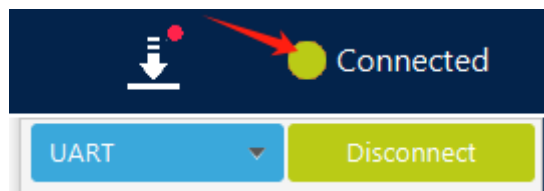
Open the STM32CubeProgrammer software, select the [UART] mode, select the corresponding serial port number in [Port], and other parameters are as shown in the figure below.



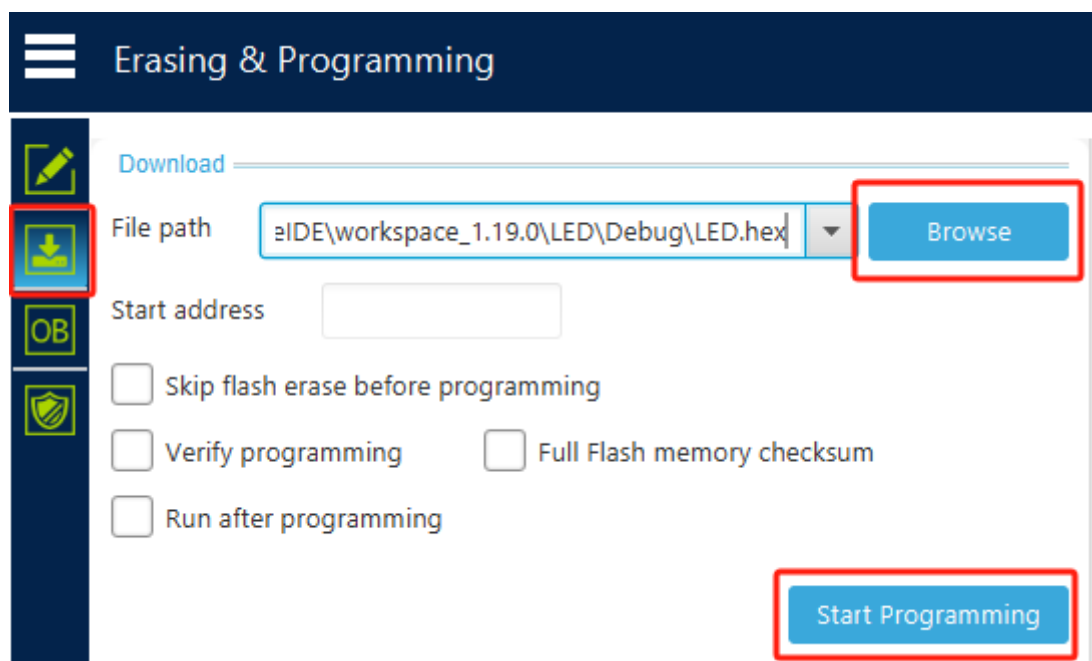
Now press and hold the BOOT button on the control board, press the RESET button again, and then release the BOOT button. The STM32 will enter the serial port programming mode. Click the [Connect] button to connect.



The status will change if the connection is successful.



Click the download button to enter the download page, click [Browse] to select the hex file to download, and then click [Start Programming] to start burning the firmware.



There will be a prompt after the firmware burning is completed.