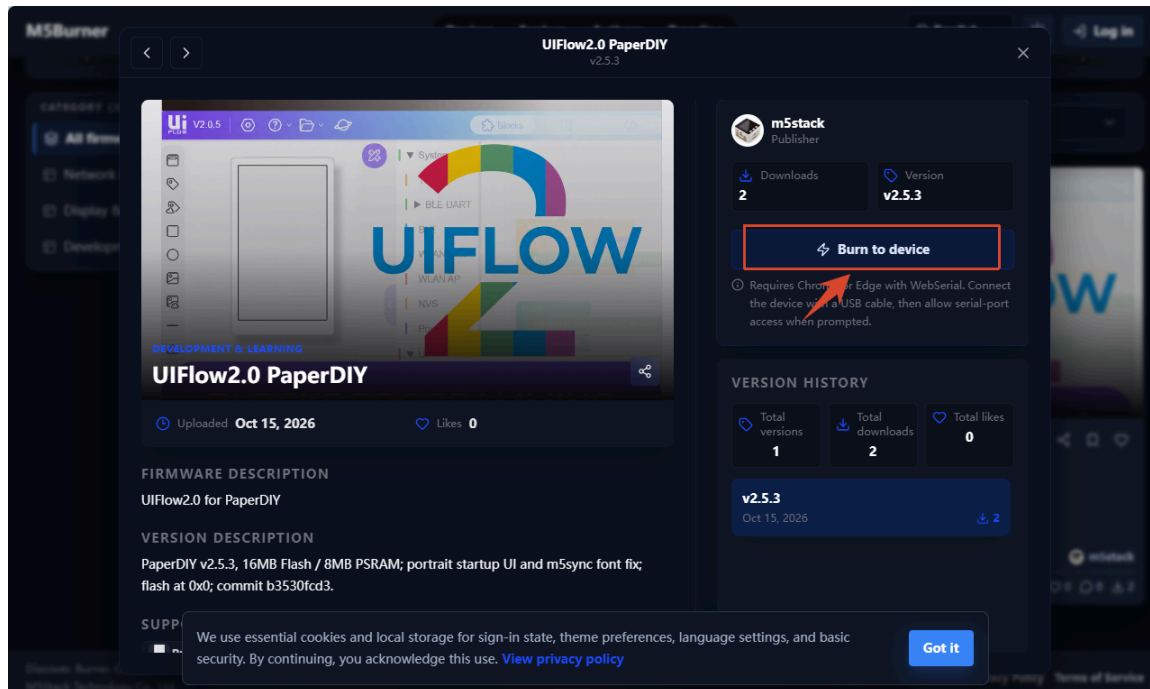


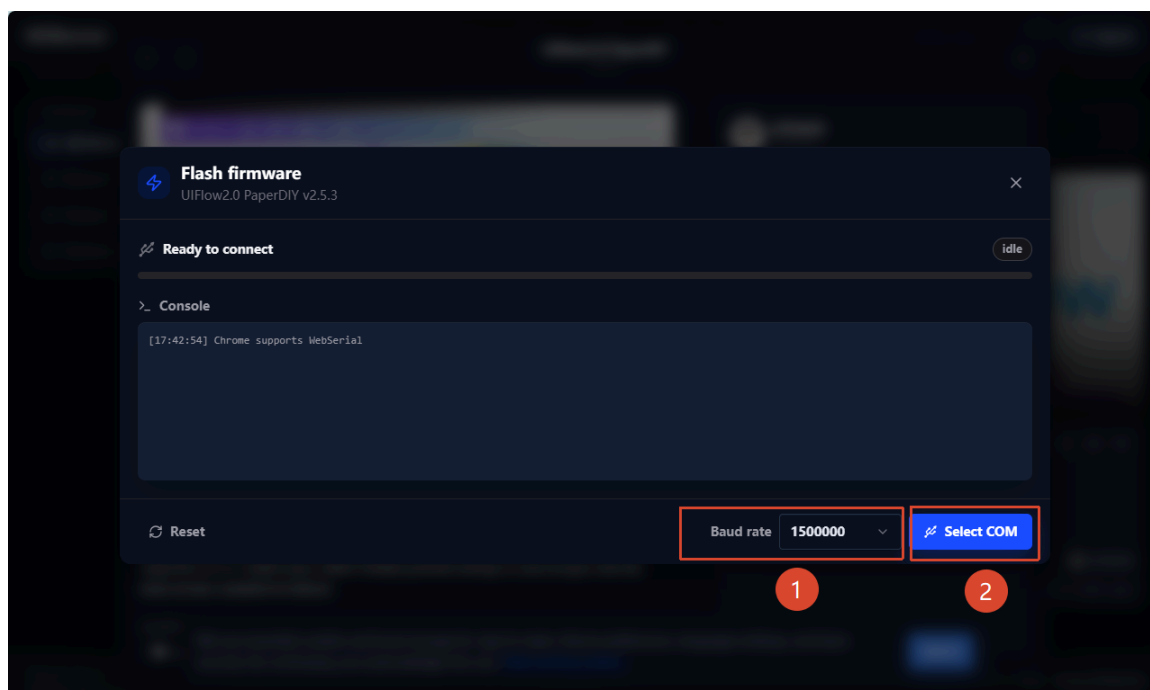
PaperDIY: Flash Firmware & Run Code

1. UiFlow2 Firmware Flashing

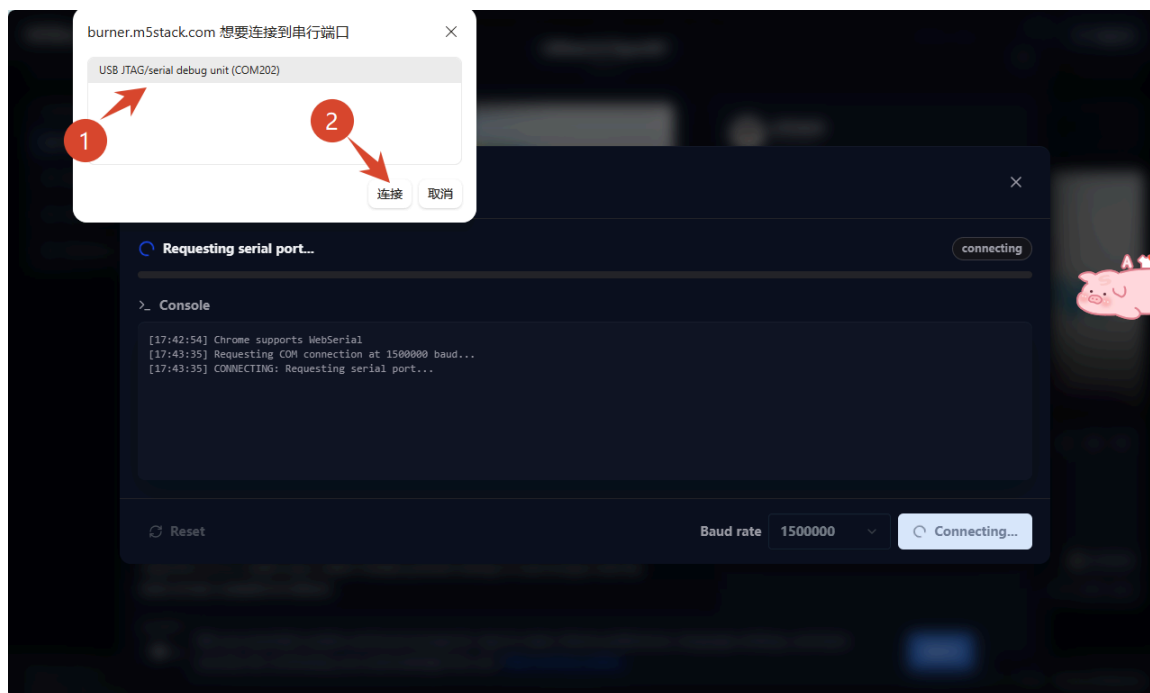
1. Connect the device to a computer via a USB Type-C data cable, long-press the power button (about 2 seconds) until the red LED blinks, then release the button. The device enters download mode.
2. Open the PaperDIY [UiFlow2 firmware](#) page on the M5Burner website, and click [Burn to device](#) in the interface to start flashing the UiFlow2 firmware.



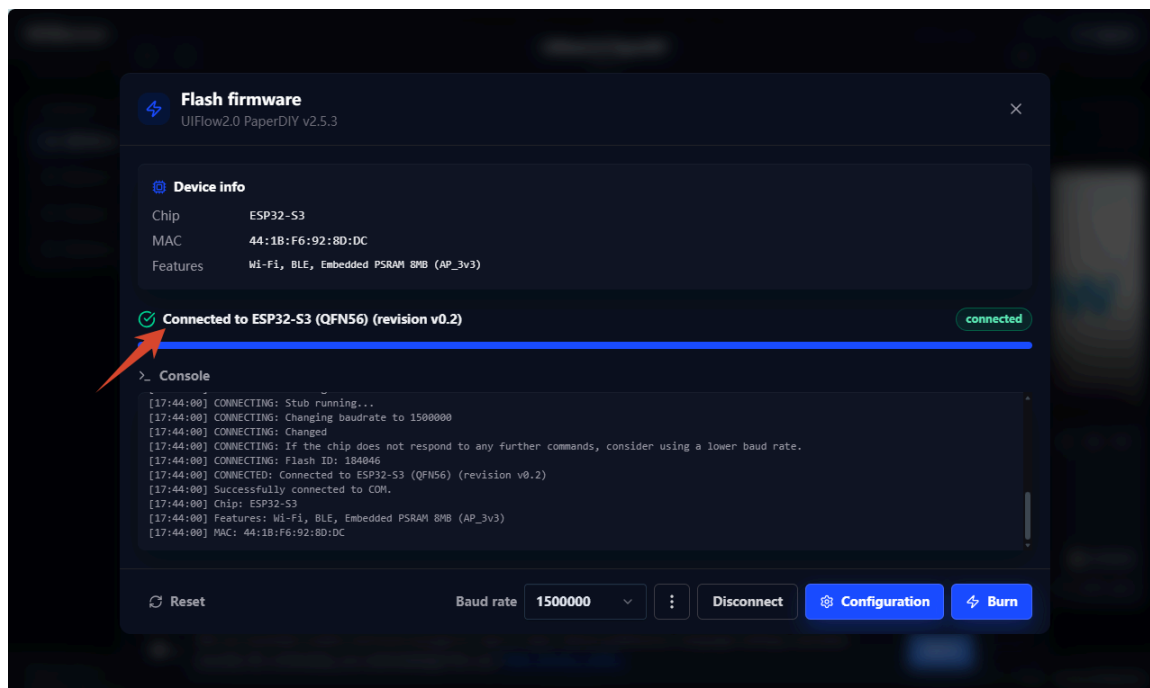
3. In the pop-up window, select the baud rate for serial communication, then click [Select COM](#).



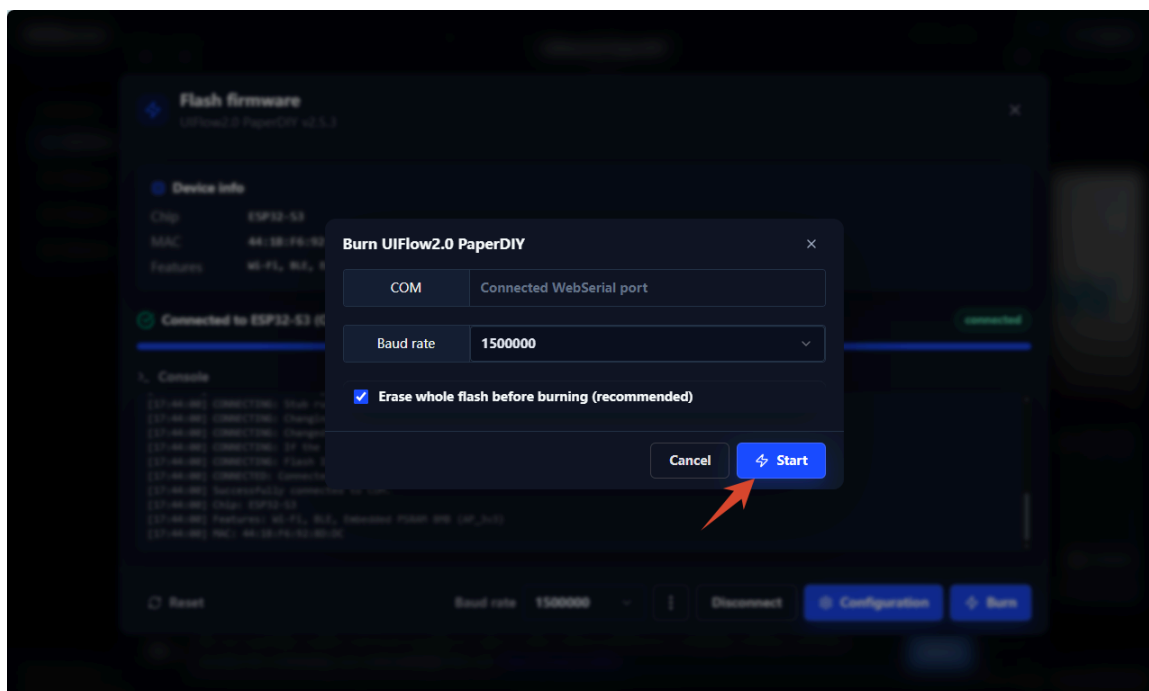
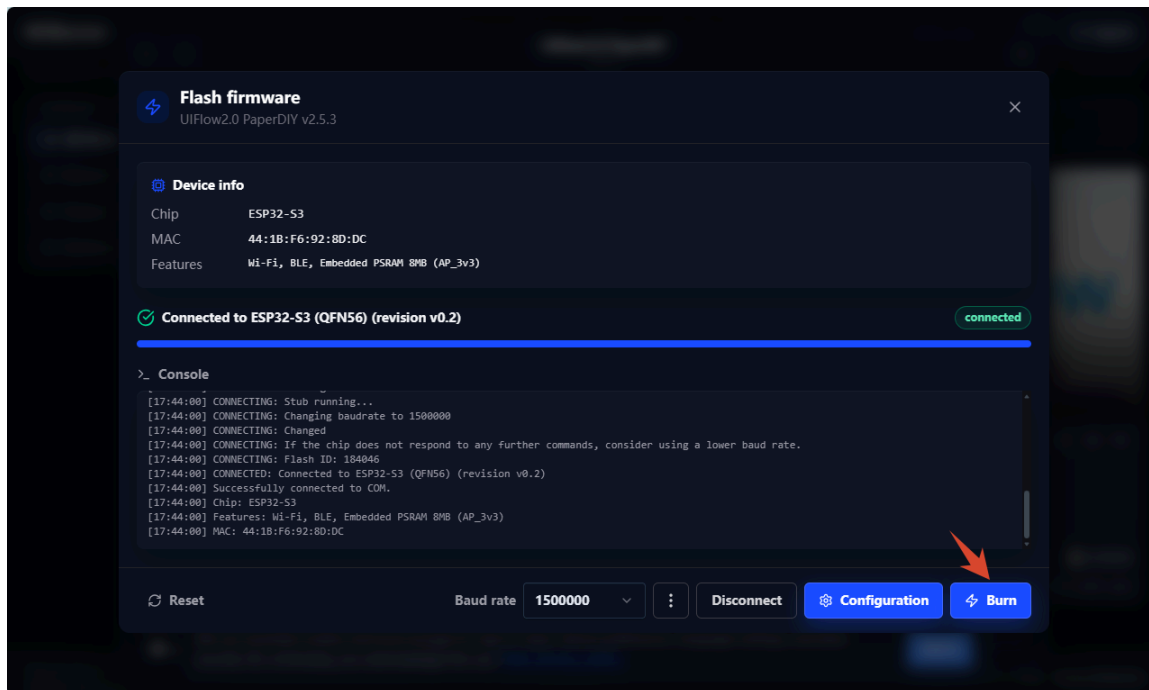
4. Select the port corresponding to the device, then click [Connect](#).



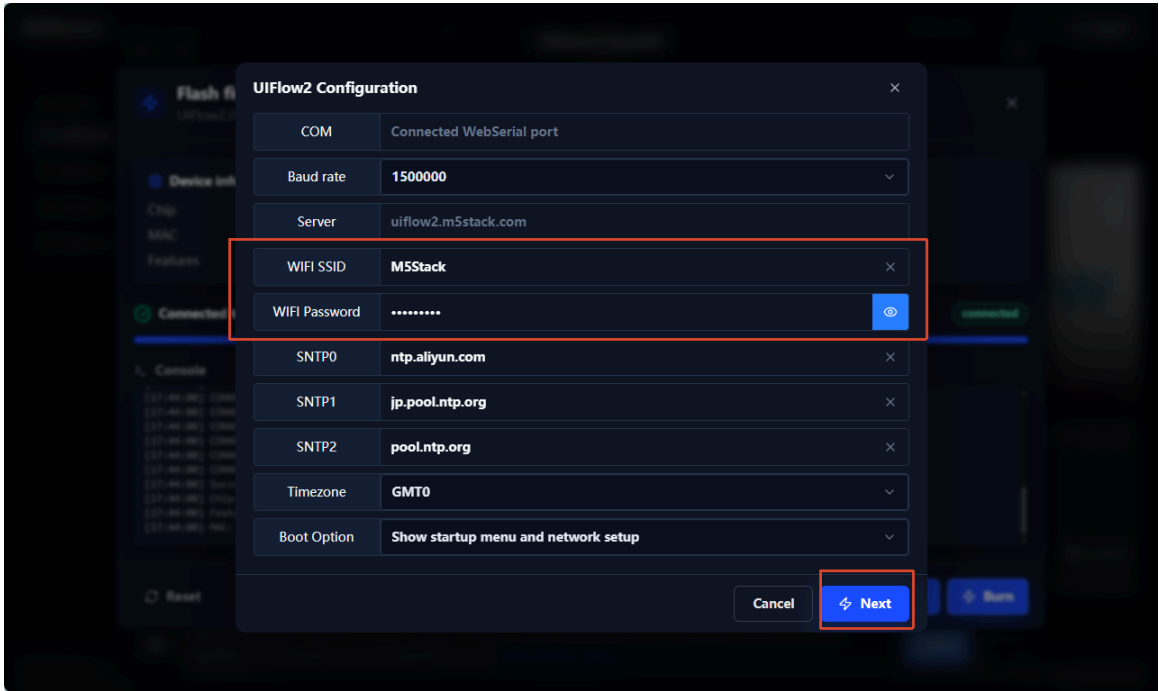
When the interface displays **Connected to xxx**, the port is connected successfully.



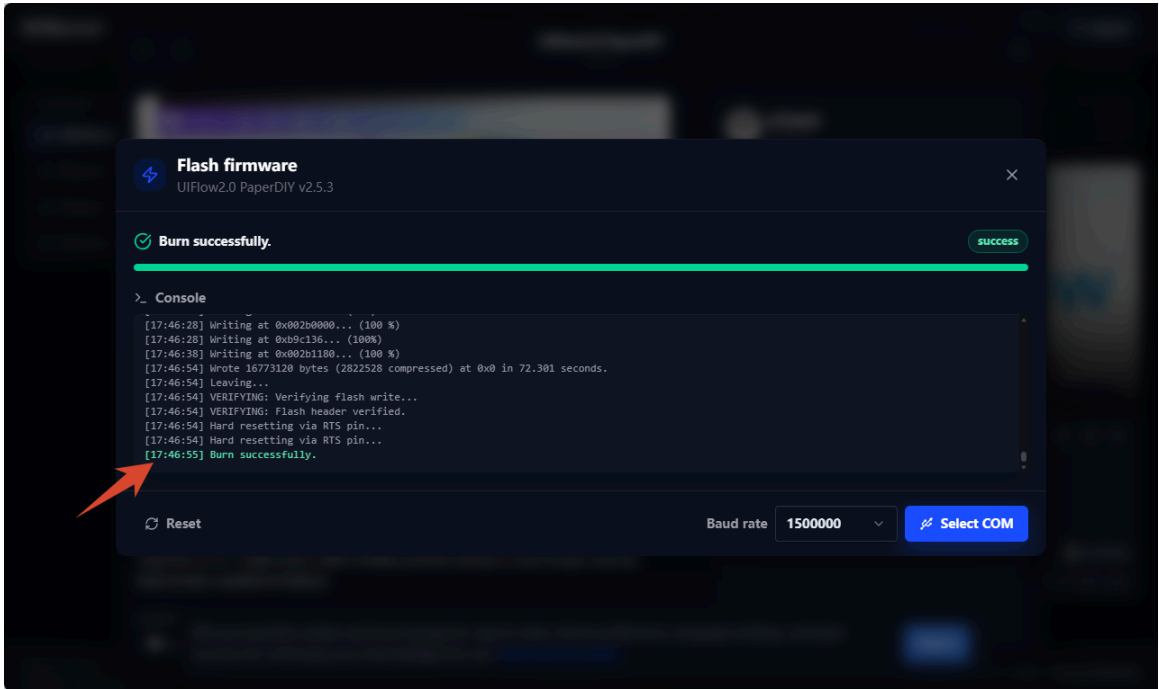
5. Click **Burn**, and click **Start** in the pop-up window.



- Fill in the Wi-Fi configuration that the device needs to connect to, including Wi-Fi SSID and Wi-Fi Password, as well as any other device configuration that needs to be added or modified, then click **Next**.



When `Burn successfully` is displayed, flashing is successful. Please reset the device at this point.

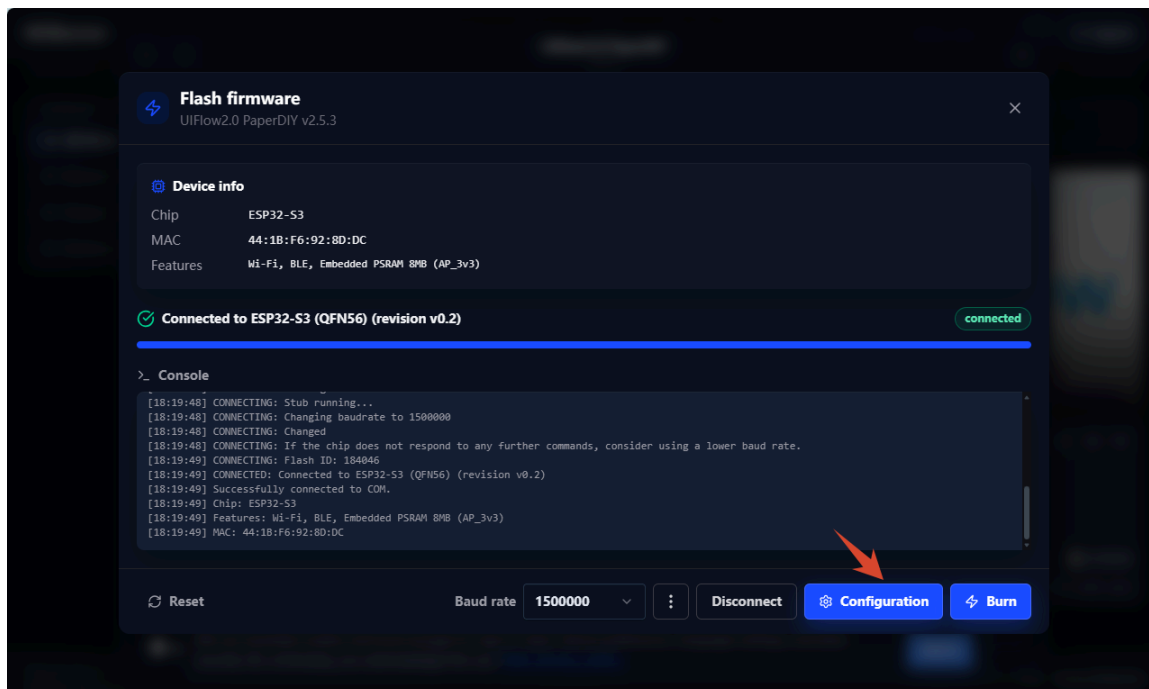
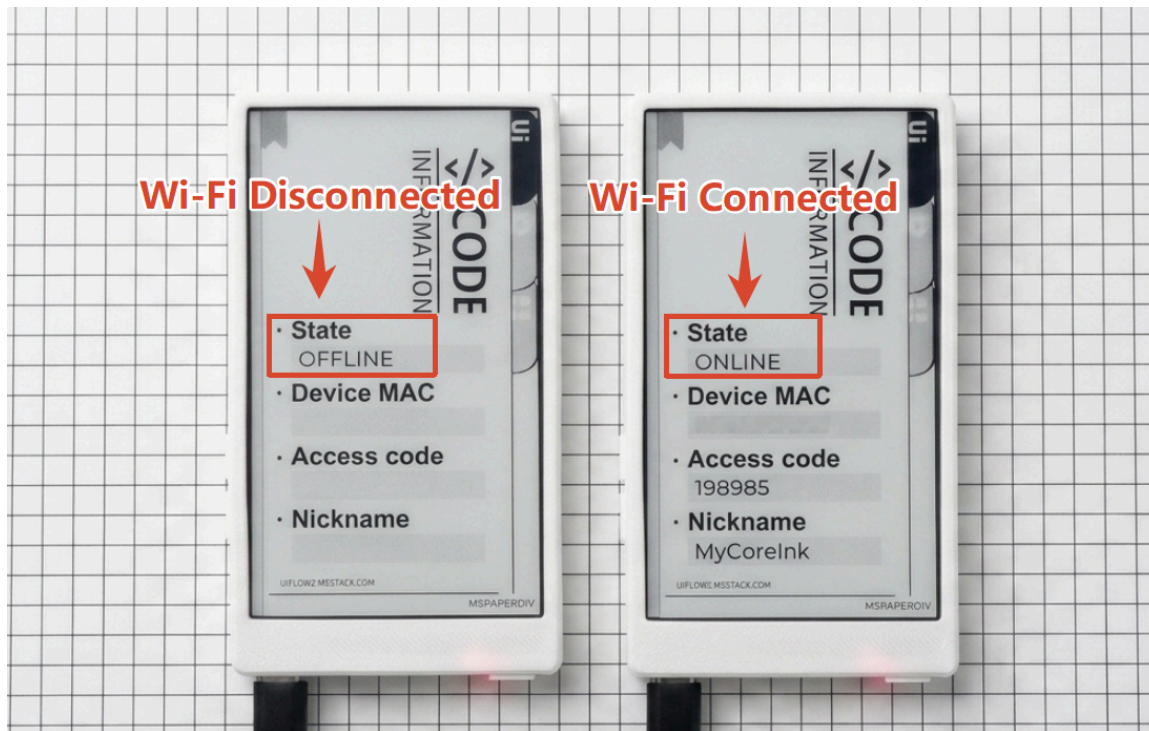


2. Device Connection

PaperDIY supports connecting to UIFlow2 via `Access Code` (over a wireless network) or `USB` (wired connection to a computer) to push and debug programs. For detailed operations, refer to the following tutorial:

Access Code Wireless Connection

1. Before connecting, check the Wi-Fi icon on the device screen to confirm that the device is connected to the network. If the network connection fails, check whether the Wi-Fi name and password entered during firmware flashing are correct, then modify them through the `Configuration` option on the WebBurner and flash again.

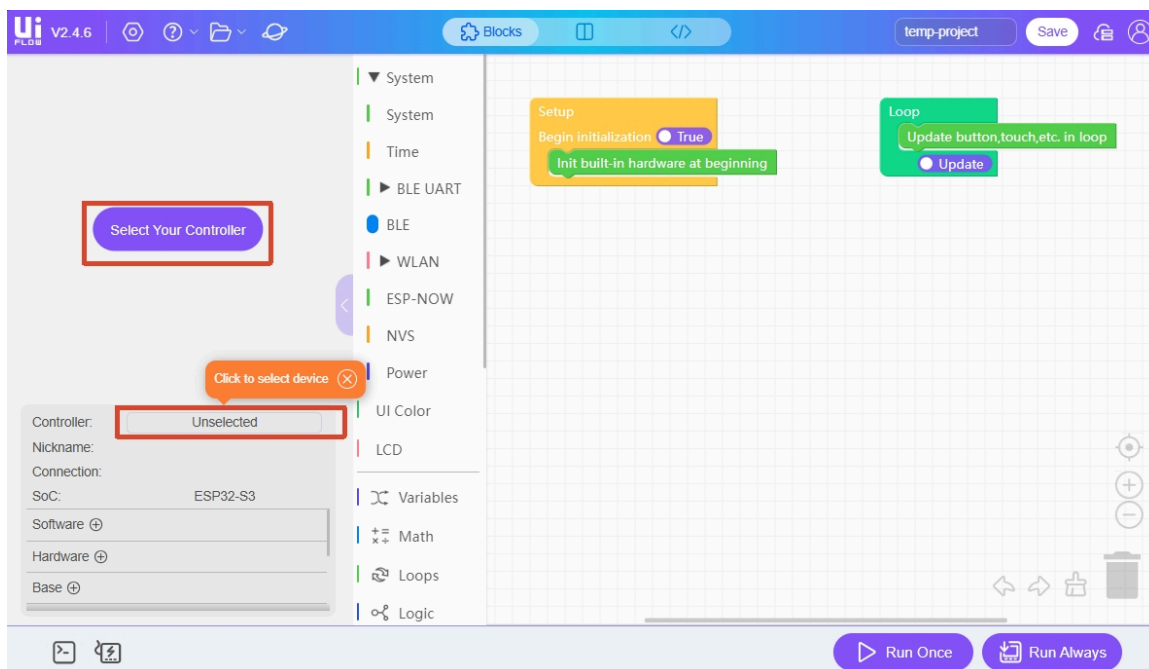


2. Check the currently generated valid [Access Code](#) on the device's UiFlow2 startup screen.

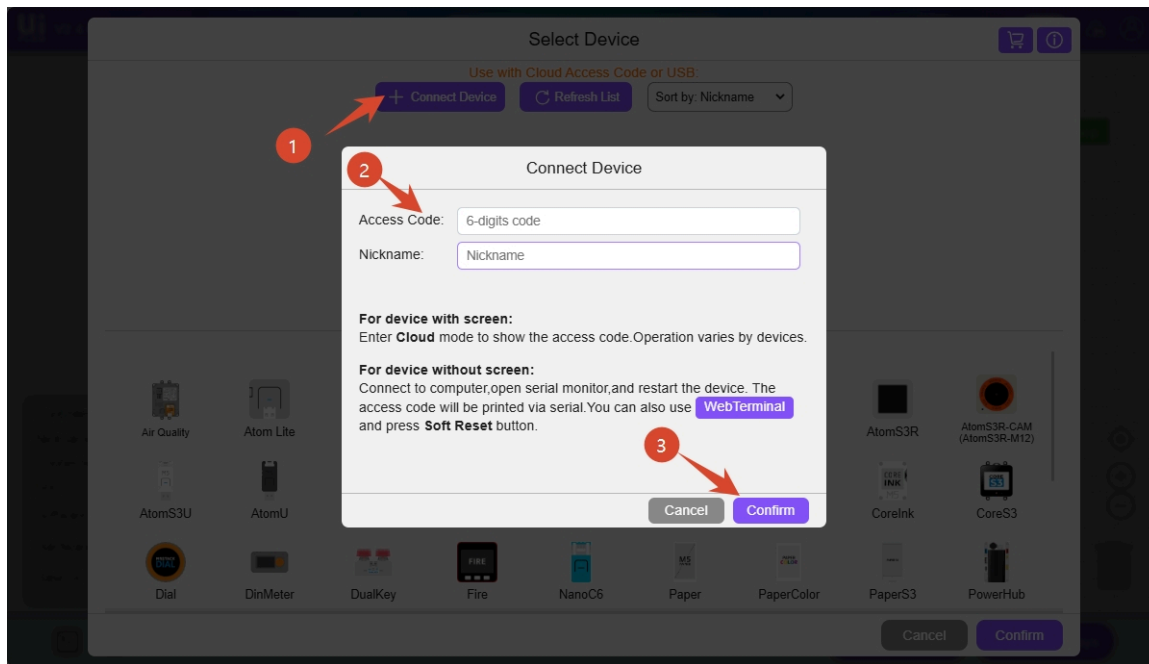


3. Visit uiflow2.m5stack.com to open the UiFlow2 Web IDE.

4. Click [Select Your Controller](#) (shown on first visit) or the [Controller](#) button on the page to enter the [Select Device](#) page.



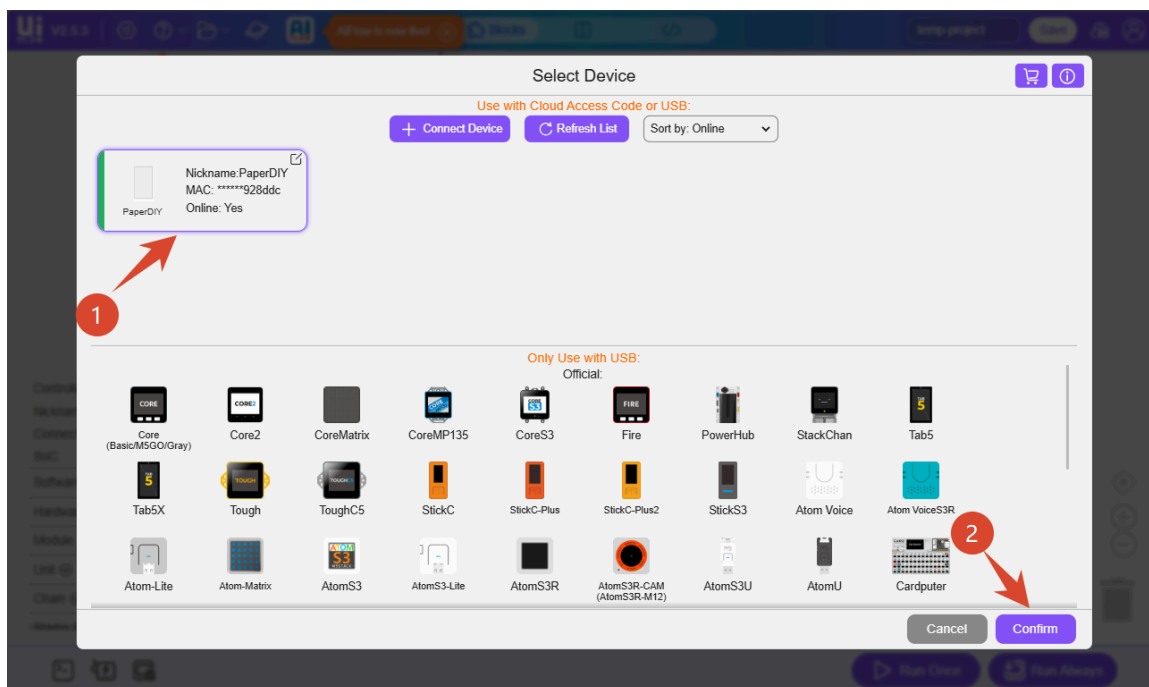
5. Click [Connect Device](#), enter the access code and a custom device name, then click [Confirm](#) to connect PaperDIY to UiFlow2.



Access Code Description

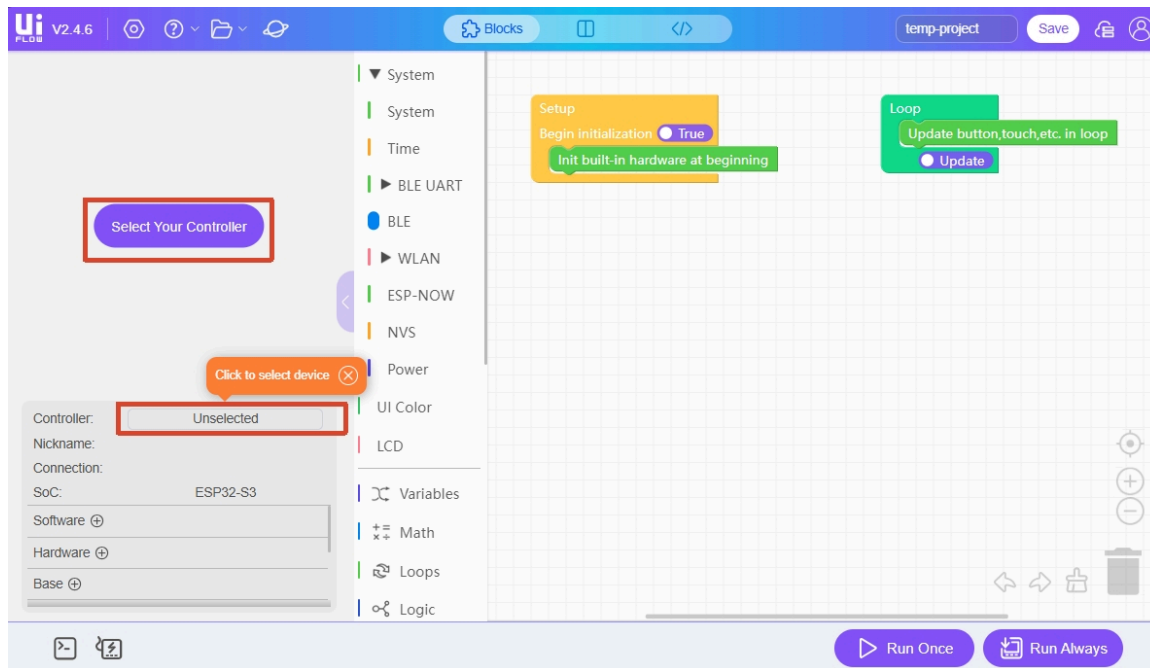
1. Changing browsers, using private / incognito mode, or clearing the UiFlow2 website cache will invalidate the original pairing state.
2. Closing only the tab, restarting the browser, logging in, or logging out will not affect an established pairing relationship.
3. Once the device is paired by another browser, the original browser's pairing relationship becomes invalid immediately.

6. On the **Select Device** page, select the connected **PaperDIY** device and click **Confirm** to enter the UiFlow2 programming interface.

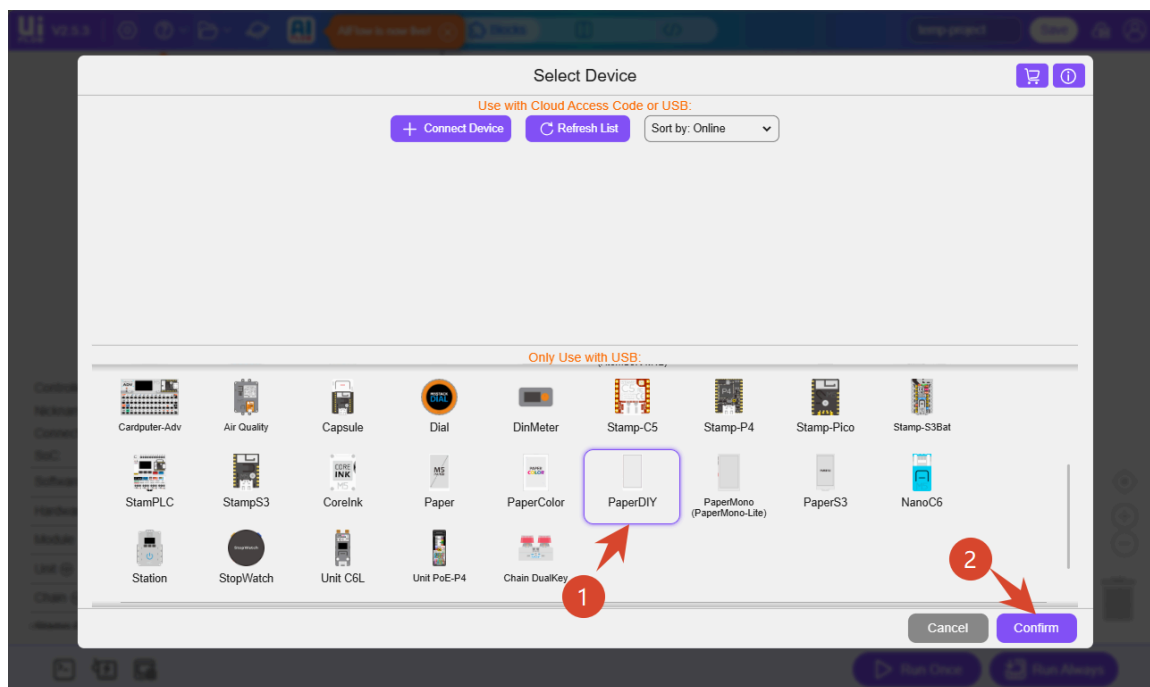


USB Wired Connection

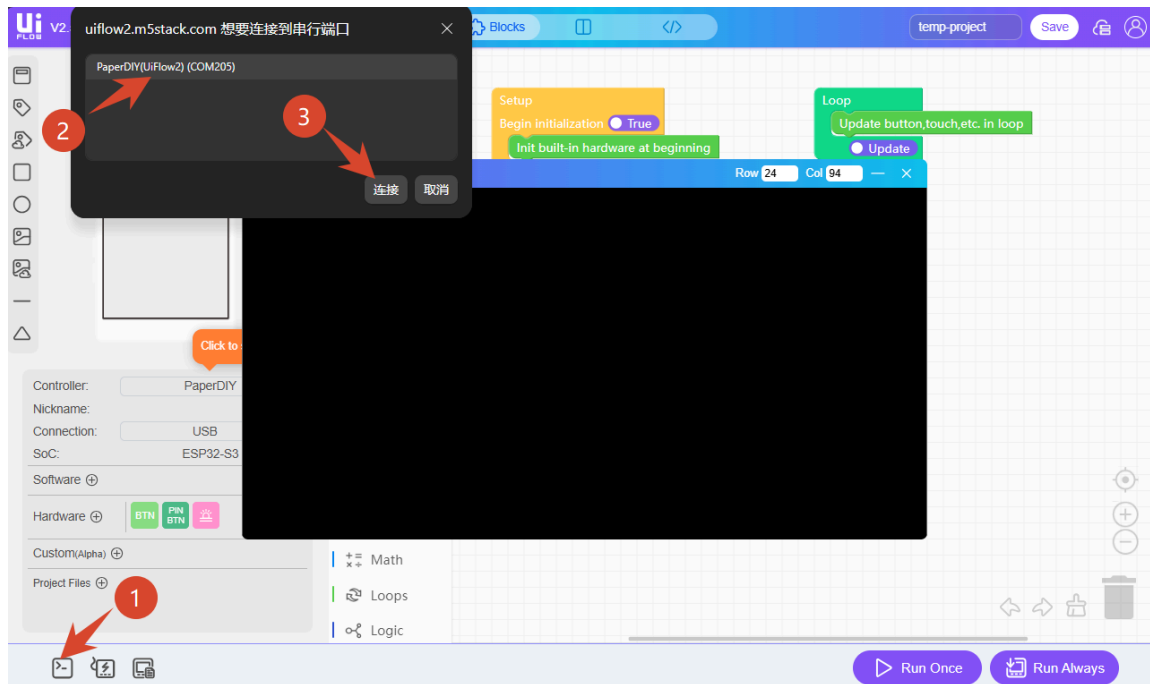
1. Visit uiflow2.m5stack.com to open the UiFlow2 Web IDE, and connect **PaperDIY** to the computer's USB port.
2. Click **Select Your Controller** (shown on first visit) or the **Controller** button on the page to enter the **Select Device** page.



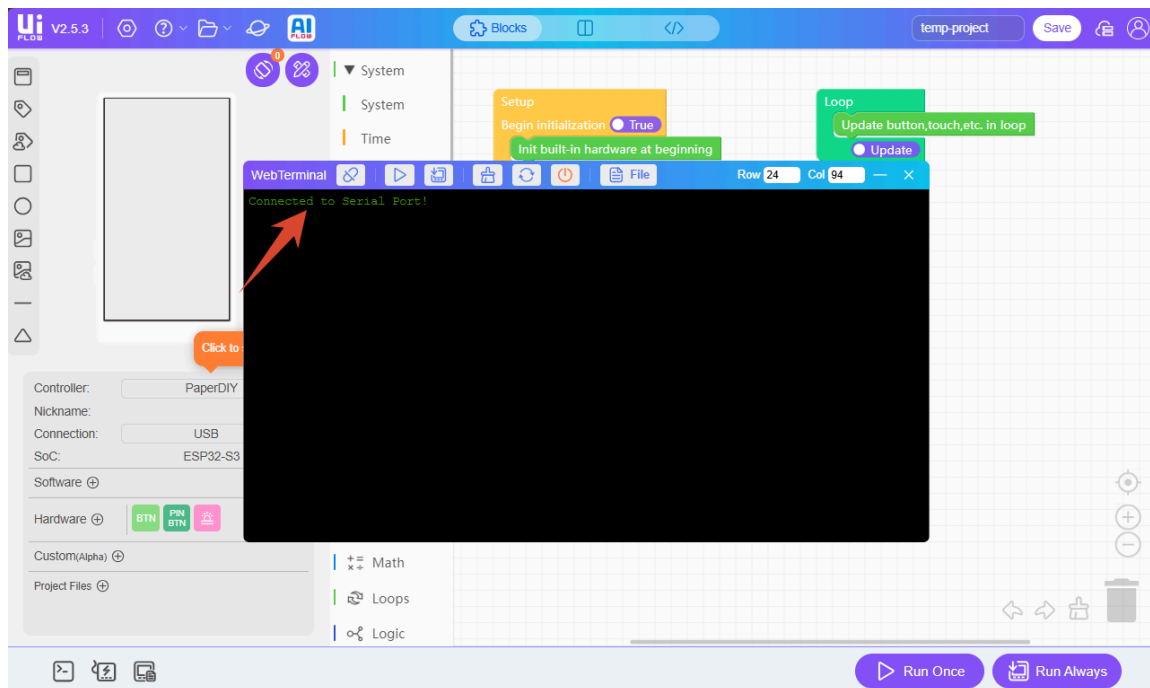
3. Select the **PaperDIY** device in the device list, then click **Confirm**.



4. Click the **WebTerminal** button, select the serial port for **PaperDIY** in the dialog, and click **Connect**.

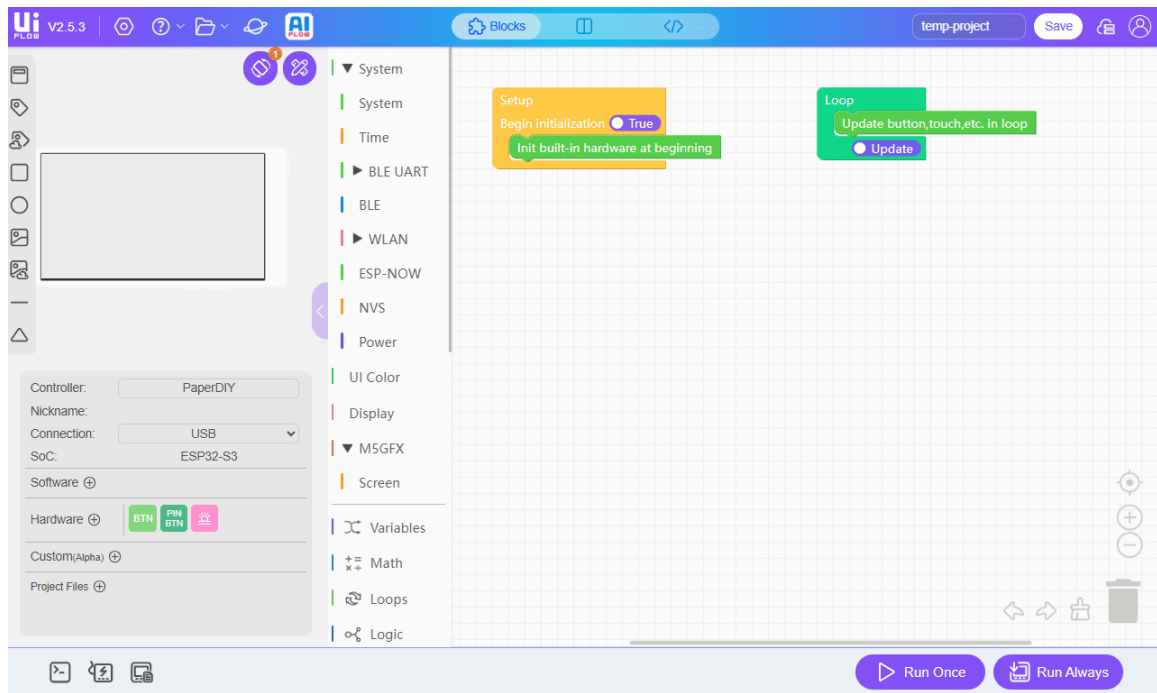


When the WebTerminal screen displays `Connected to Serial Port!`, the USB connection is successful.

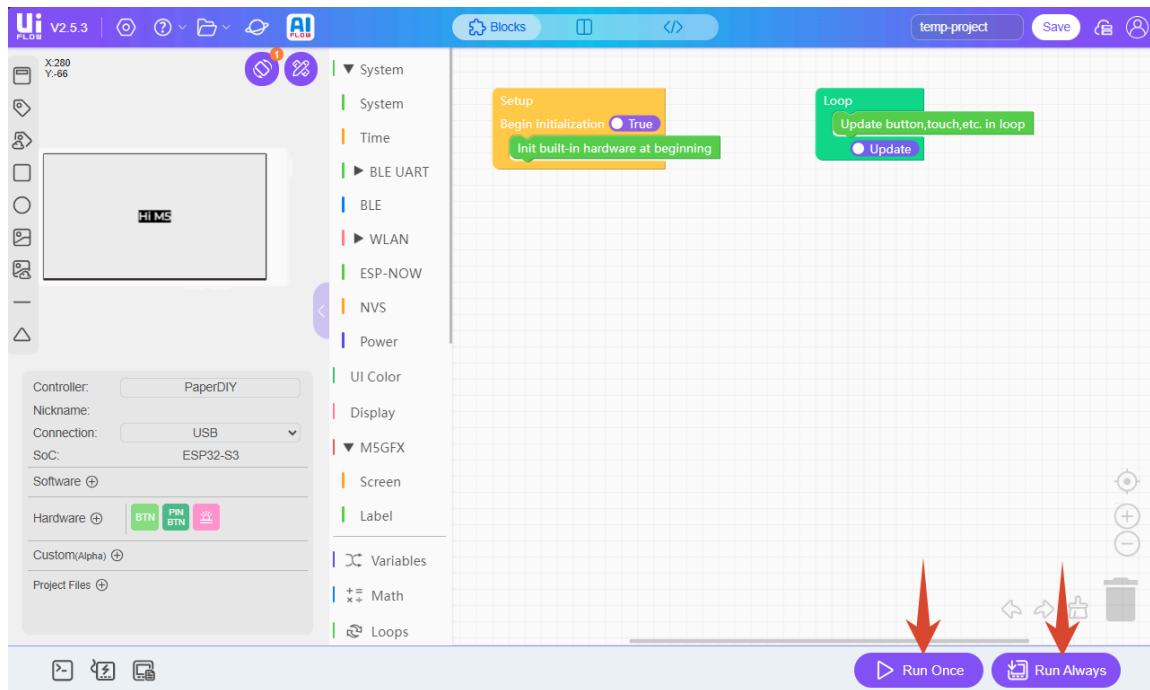


3. Program Run and Download

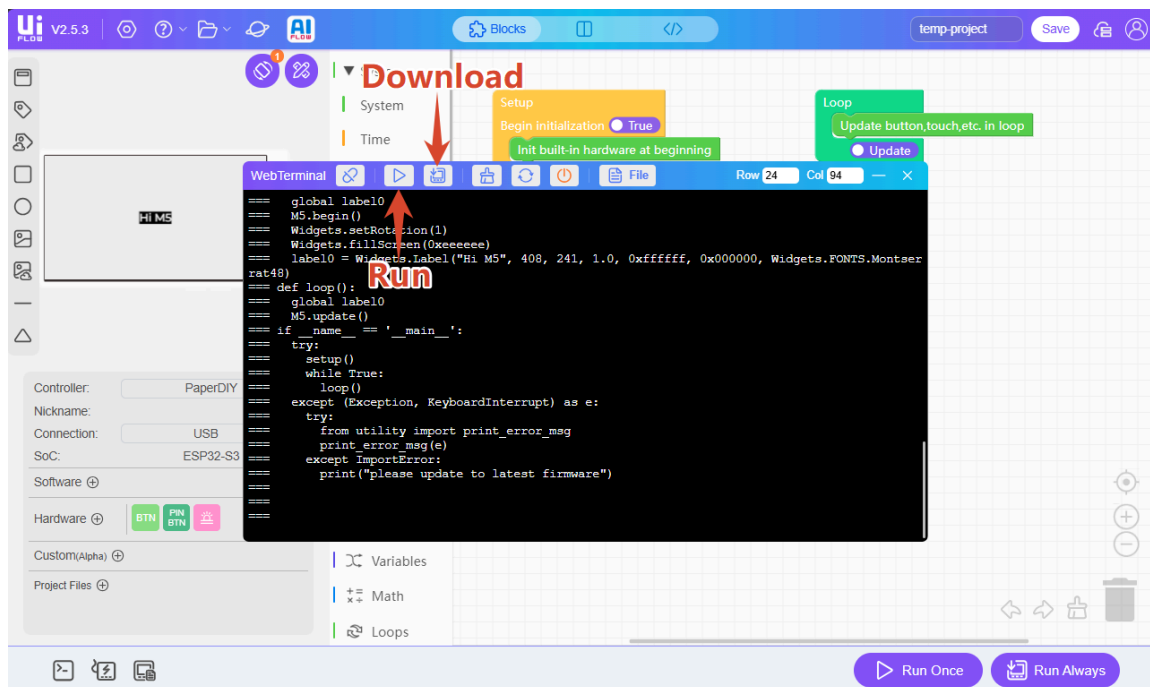
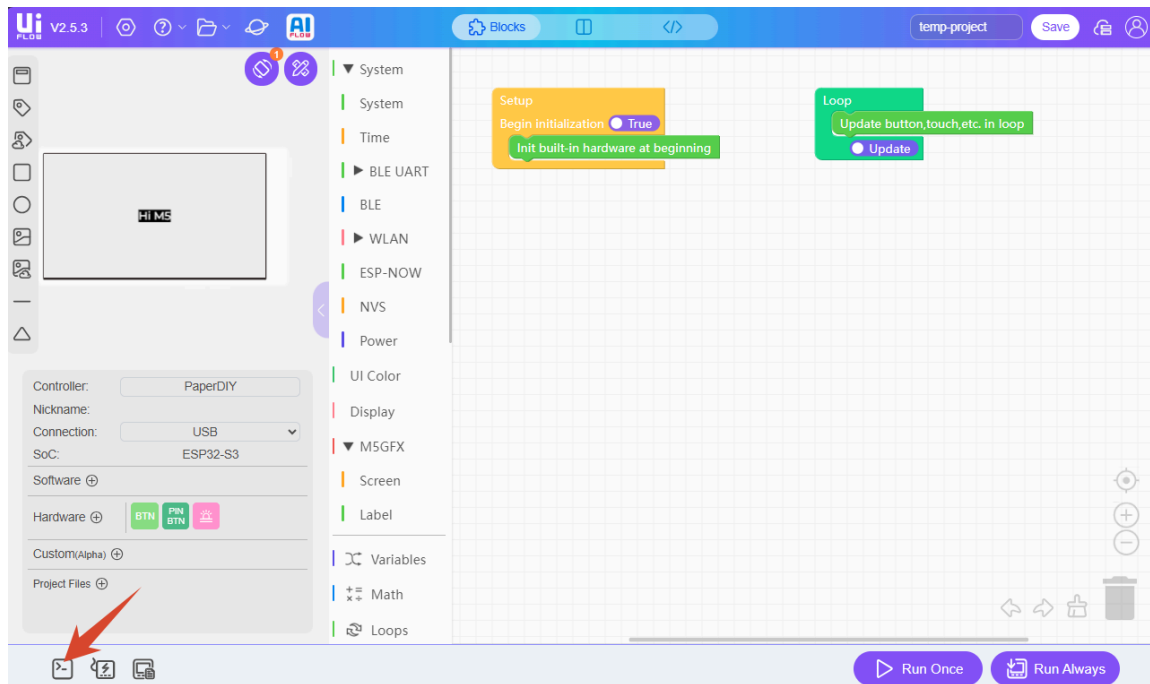
After the device is connected to UiFlow2, you can drag Blockly blocks to edit programs.



After editing the program, click the **Run Once** button in the lower-right corner to run the program once for testing. Click **Run Always** to download the program to the device.



You can also run once or download the program in the **WebTerminal** window.



4. Related Links

- [UiFlow2 Blockly Introduction](#)
- [UiFlow2 Firmware Source Code](#)