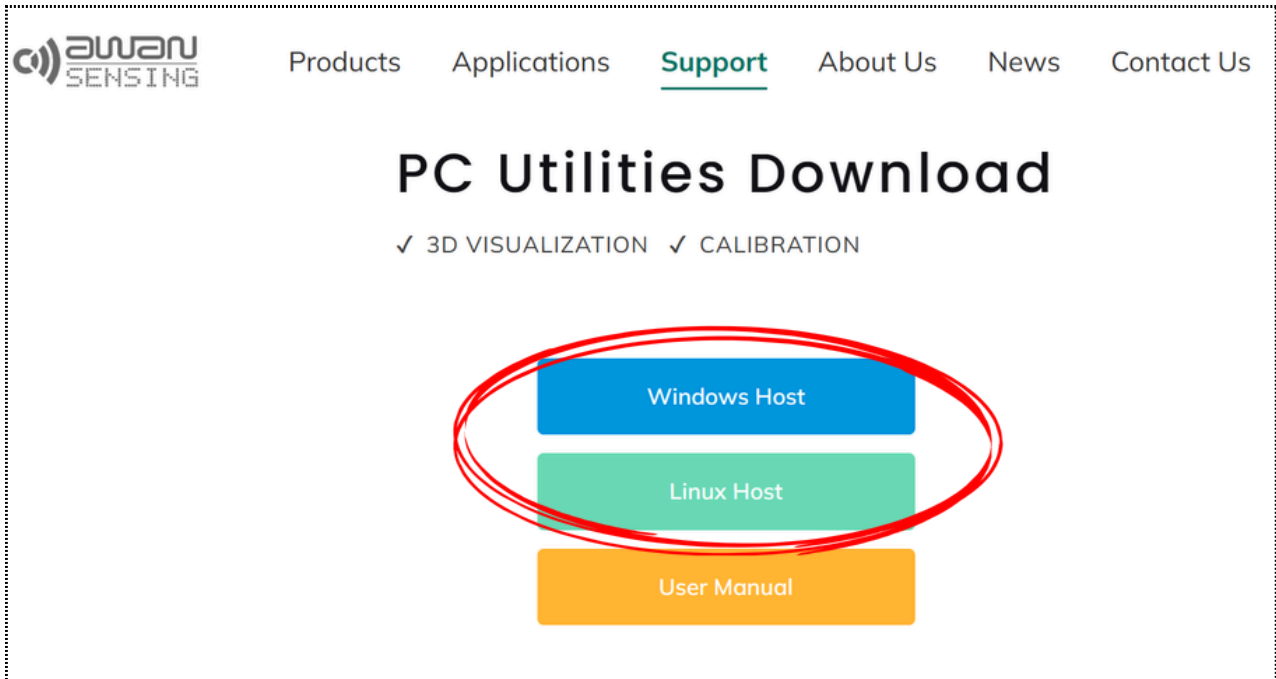


1. Install Test Software

Go to AWAN Sensing's official website and select "Support" , Scroll to the image below, select the appropriate desktop application to download the test software .

Note: the digits after the filename indicate the software version, e.g., filename " awan_host_v1.05 " .

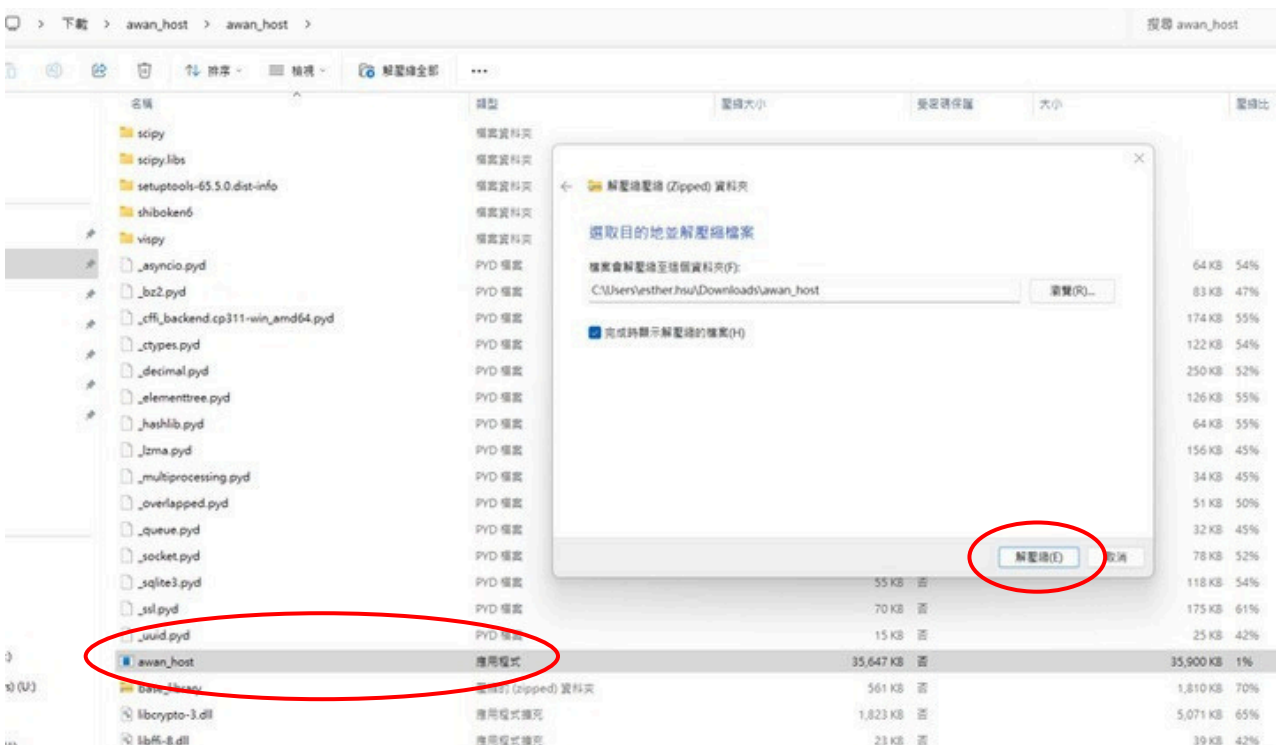


2. Open Test Software

Run the awan_host.exe file to extract and launch the software.

Execute: Please follow the on-screen instructions to operate the software features.

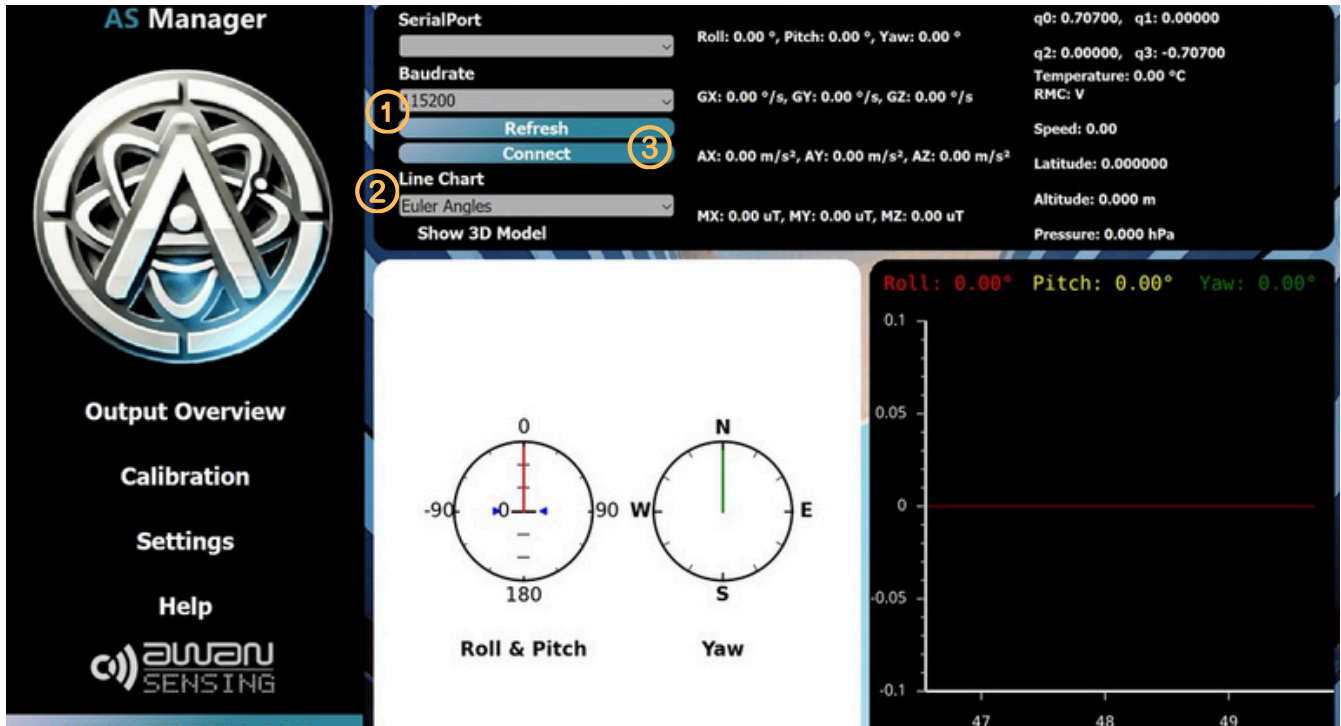
Note: Make sure the file path does not contain any non-English characters, otherwise compatibility issues may occur.





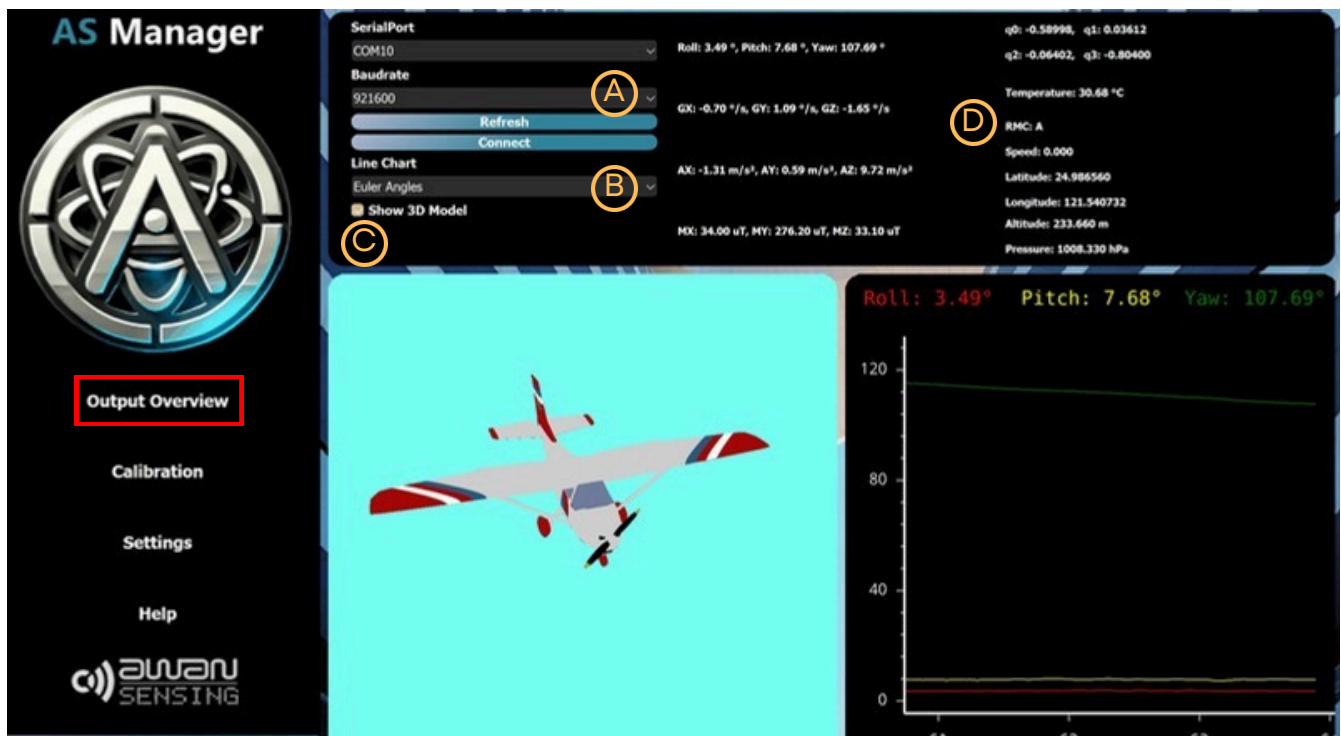
3. Connect Device

Use a USB cable to connect the module to the computer. After clicking Refresh, the device name can be found in the Serial Port dropdown. Select the module name, then click Connect to complete the module connection.



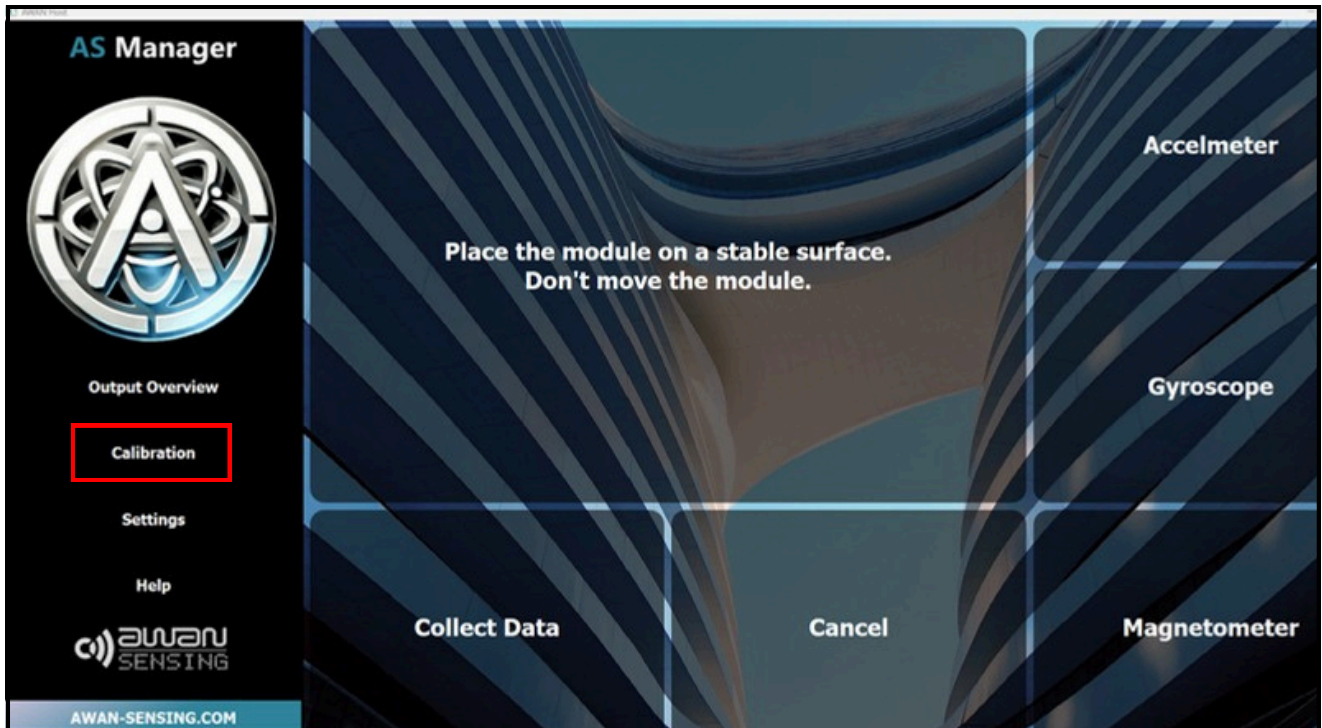
4. Output Overview

- A. Select baud rate from the drop-down menu.
- B. Select Euler angles, Magnetometer, Gyroscope, or Accelerometer to toggle individual displays.
- C. Check "Show 3D Model" to enable the aircraft simulation mode.
- D. RMC: "A" indicates GPS connected; "V" indicates connection failed.



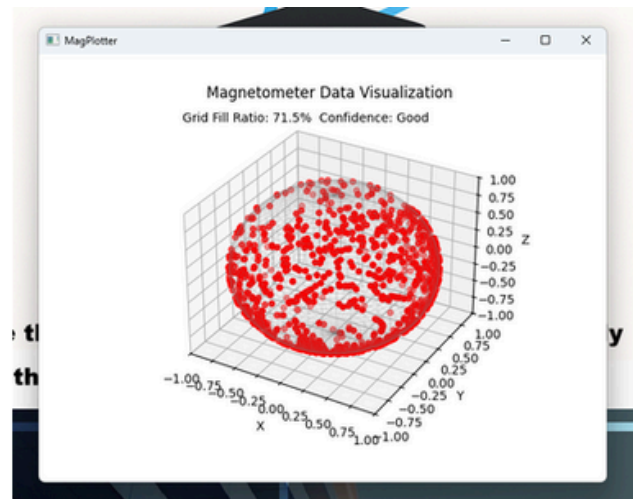
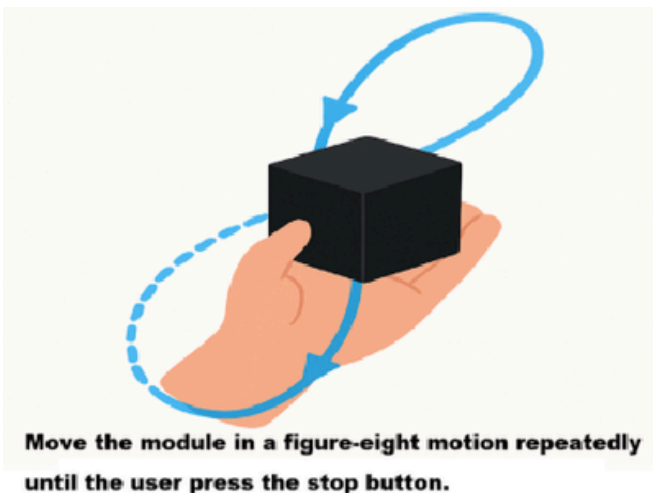
- Calibration

Calibration for the module's accelerometer, gyroscope, and magnetometer can be performed here. Select the sensor to calibrate, read the calibration notes displayed in the middle window, then click Collect Data to proceed with calibration. When the middle window shows "Finish," the process is complete.



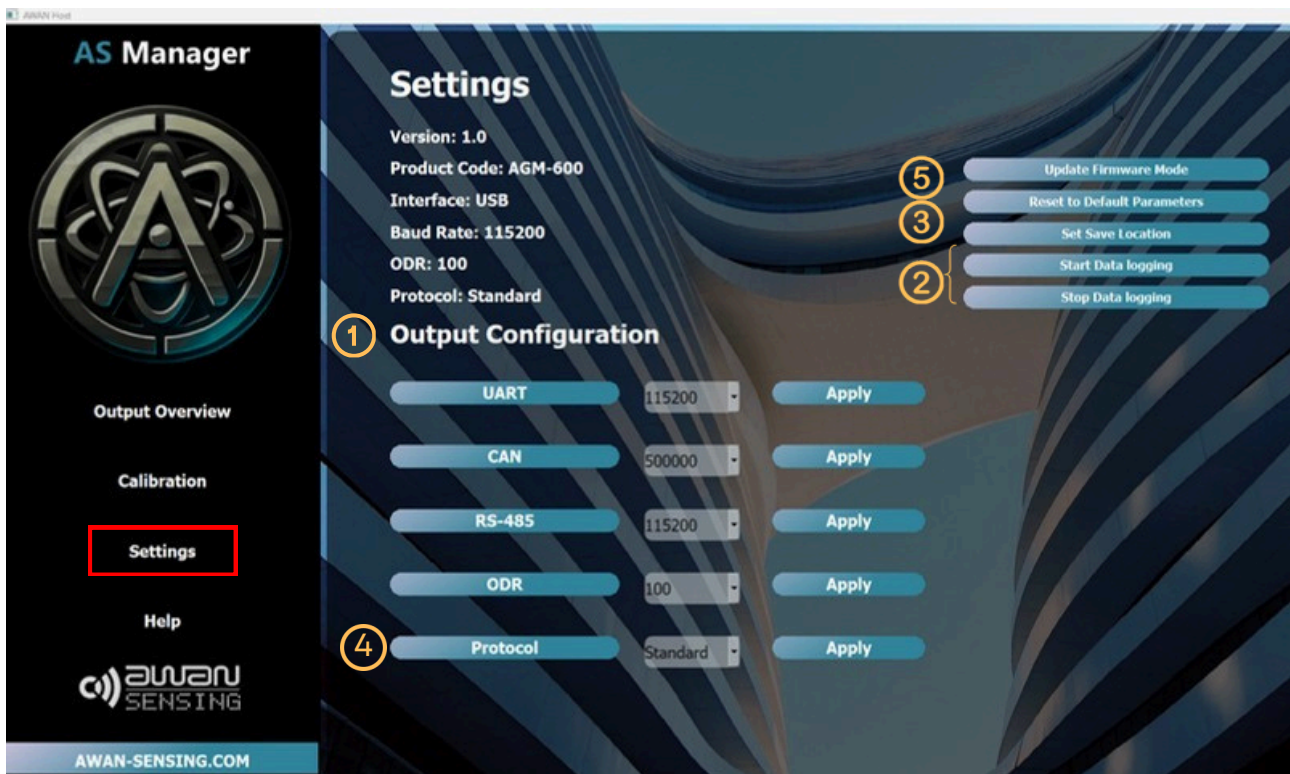
Note :

1. For magnetometer calibration, rotate using an figure-eight motion. Do not move too fast, as it may cause the system to fail to compute in time, resulting in calibration failure.
2. During rotation calibration, when the Grid fill ratio value exceeds 70%, you can click "Stop Collecting" to finish calibration.
3. If calibration fails, disconnect the module and reconnect, or go to the left menu and select "Setting" to restore factory settings.



- Settings

1. Here you can adjust the module's output configuration parameter settings, and record and store the module's motion data.
2. Start recording and stop recording the module's motion data, and set the location where data is stored on the computer.
3. If module calibration fails, you can click to restore the module to factory settings.
4. Provides a switchable MAVLink communication protocol.
5. Firmware updates for the module can be performed when necessary (see next page for detailed steps).

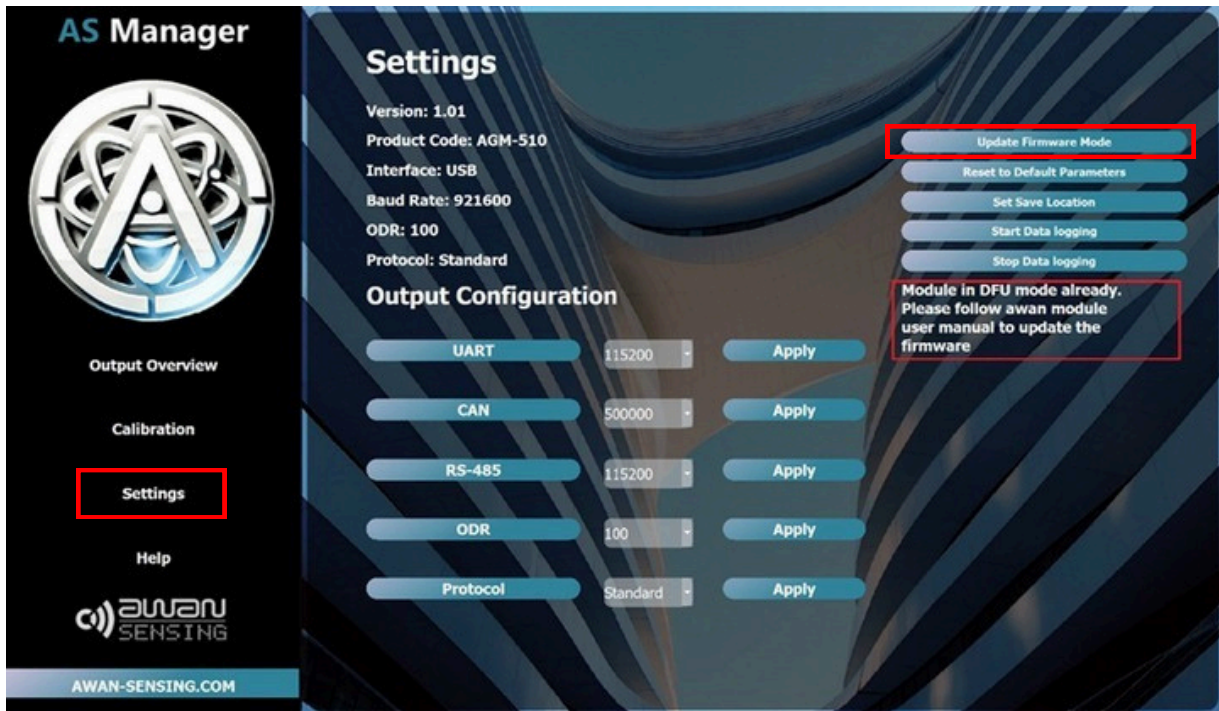


5. Module Firmware Update

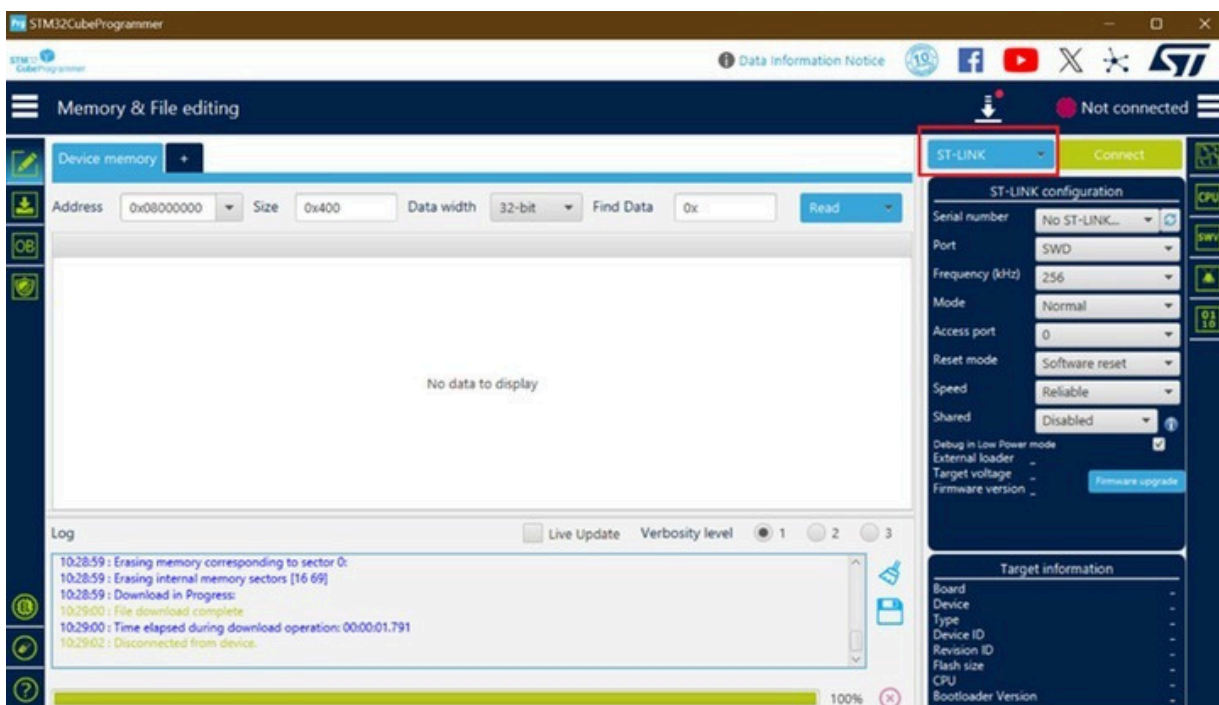
* Go to <https://www.st.com/en/development-tools/stm32cubeprog.html> to download and install Stm32CubeProgrammer.

* Ensure the Type-C cable / UART adapter connects the module to the computer, start AWAN_Host, click Refresh, select the module name from the Serial Port dropdown, then click " Connect " to complete the connection.

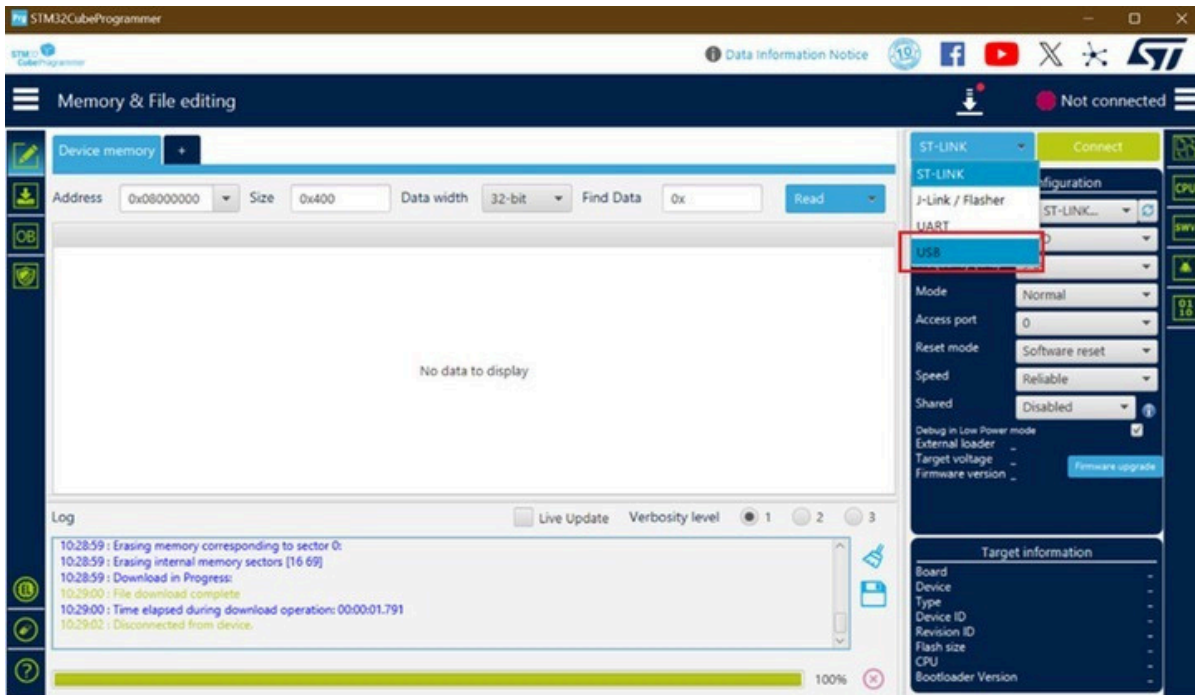
* Click the left " Settings ", then find " Update Firmware Mode " at the top-right of the screen, click it, and confirm the module enters DFU mode.



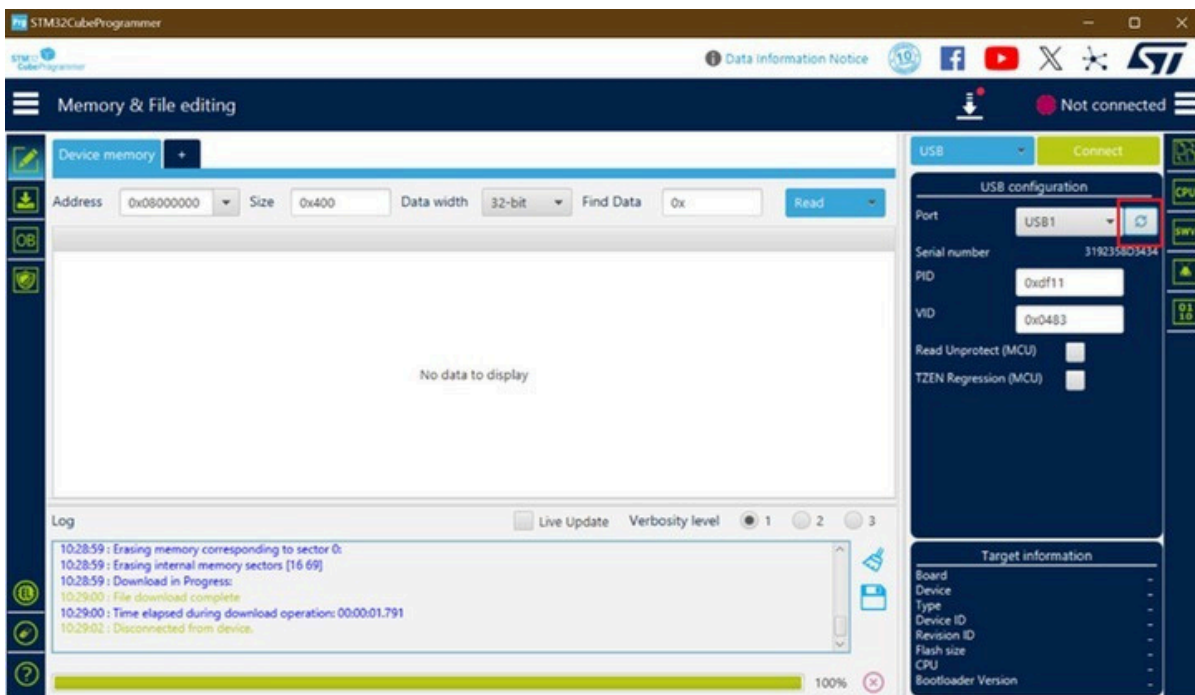
* Open the installed Stm32CubeProgrammer and click the "Connect" menu on the left.



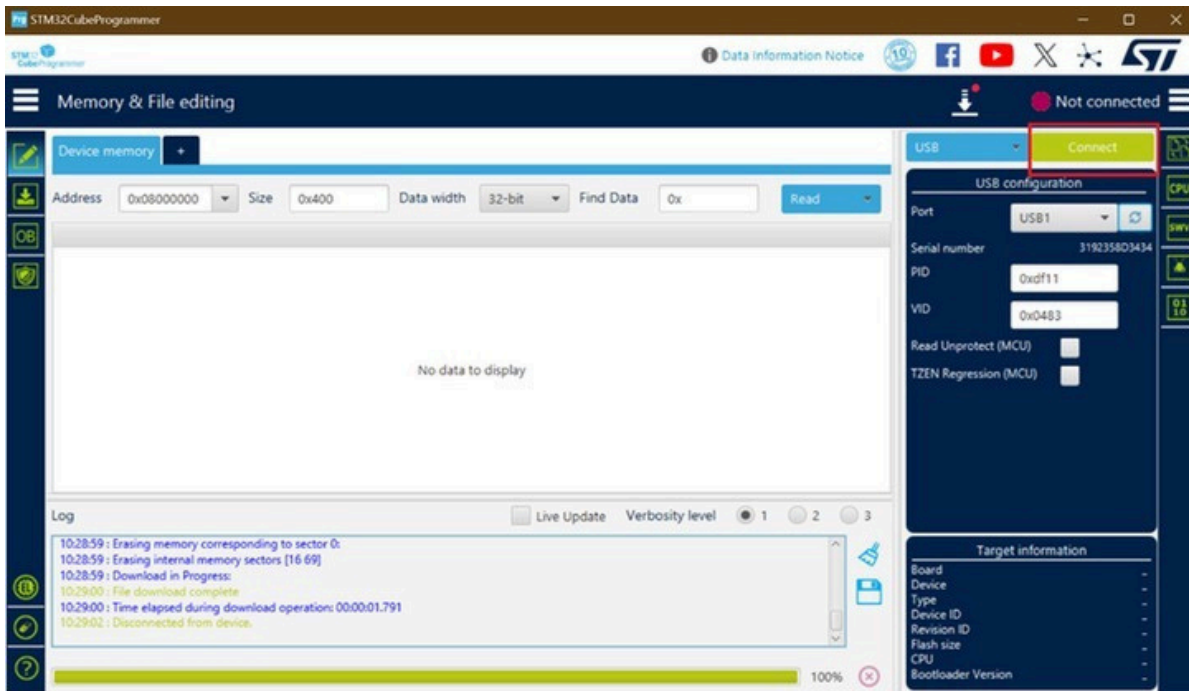
* Choose USB or UART according to the transmission method.



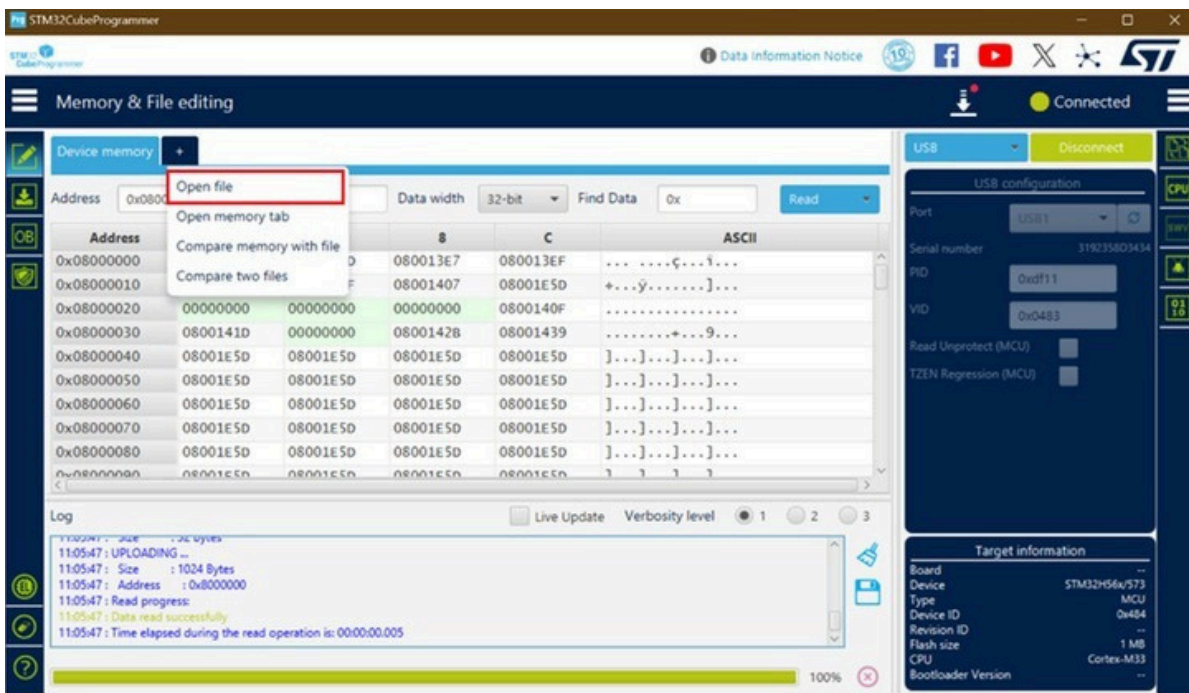
* Click the refresh button "  ", to confirm the Port appears.



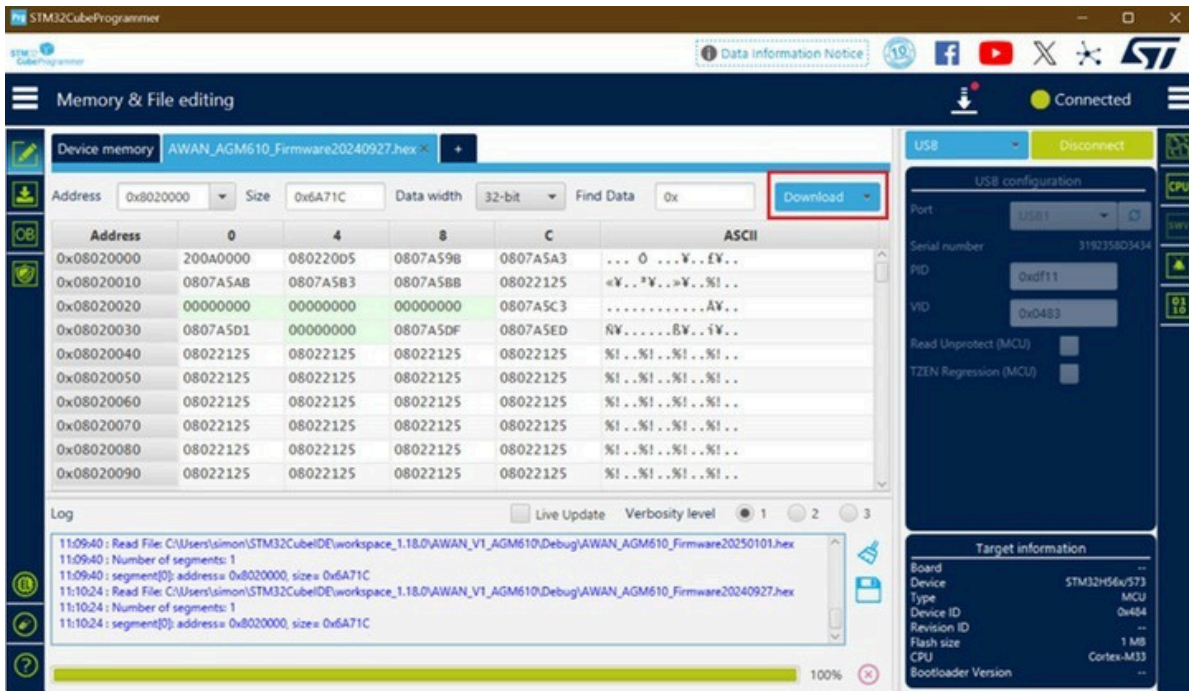
* Click " Connect ".



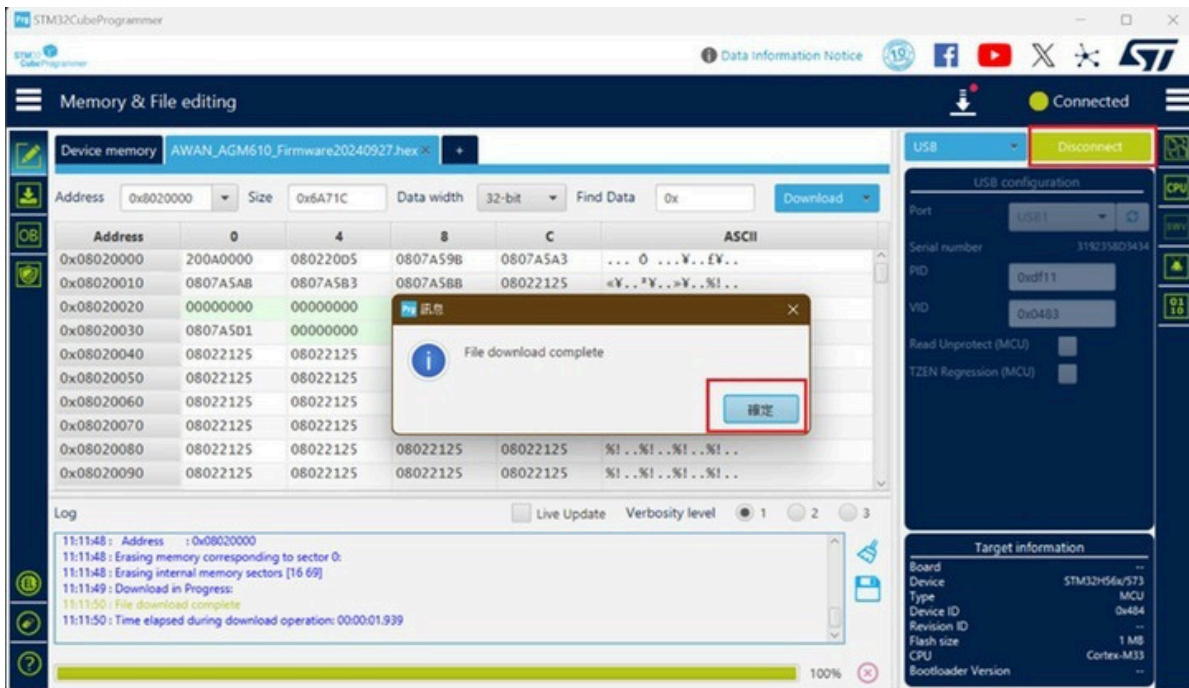
* Click the Add + button in the top-left corner and select "Open file" to load the hex or bin firmware file provided by AWAN.



* Click "Download".



* A file download completion window appears, click "OK", then click "Disconnect", unplug the USB cable to complete the update.



If you have any questions, please do not hesitate to contact us.
E-mail : info@awan-sensing.com