

**FAQ0002** 

# Frequently Asked Questions

## ISP interface gets stuck during download

#### **Questions:**

When the ISP serial interface is used for download, it will occasionally get stuck, causing that PC is unable to release the interface, and that ISP cannot be used before restarting PC.

## **Answer:**

Based on the phenomenon recurrence and code debugging, it is stuck in the USB-to-serial interface driver of windows OS, that is, there is something wrong with the USB-to-serial interface device. The chip used in USB-to-serial interface device is PX-2303, often unstable, pirated and with stuck issue. Even if the device is unplugged, the interface still cannot be released, the last resort is to restart PC. In comparison, FT232 and CH340 are more stable, in particular, FT232 with strong stability but higher price.

In addition, this issue is also related to the electrical characteristics of USB-to-serial interface device. For example, cheap products without filter capacitors, and their signal lines without EMC filter measures will result in stuck problems as well.

## **Solutions:**

It is recommended to use the USB-to-serial interface device with FT232 and CH340 chips, or genuine products with PX-2303 chips featuring good electrical characteristics.

Type: Development tool

Applicable products: All MCUs

Main function: None Minor function: None



**Document revision history** 

Date	Revision	Changes
2022.2.15	2.0.0	Initial release



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