

iCube Ultra Firmware Upgrade Guide

Tutorial Overview: This tutorial addresses the issue of cable spring-back during iCubeUltra operation, which causes positional offsets during engraving. By upgrading the firmware according to this guide, the system locks the motors for 5 seconds after detecting motor movement, effectively mitigating the offset caused by cable spring-back.

Preparation

1. Confirm the device model for the firmware upgrade: iCube Ultra & iCube Ultra Dual.
2. Use a Windows PC to scan the QR code or visit the link to download the firmware and the flashing program.

 iCube_Ultra_QV1_FW_V1.0.33_20250903_Beta.bin

https://cdn.shopify.com/s/files/1/0628/0695/0066/files/MKSSTM32DownloadTool_setupv1.0.3.exe?v=1757671028

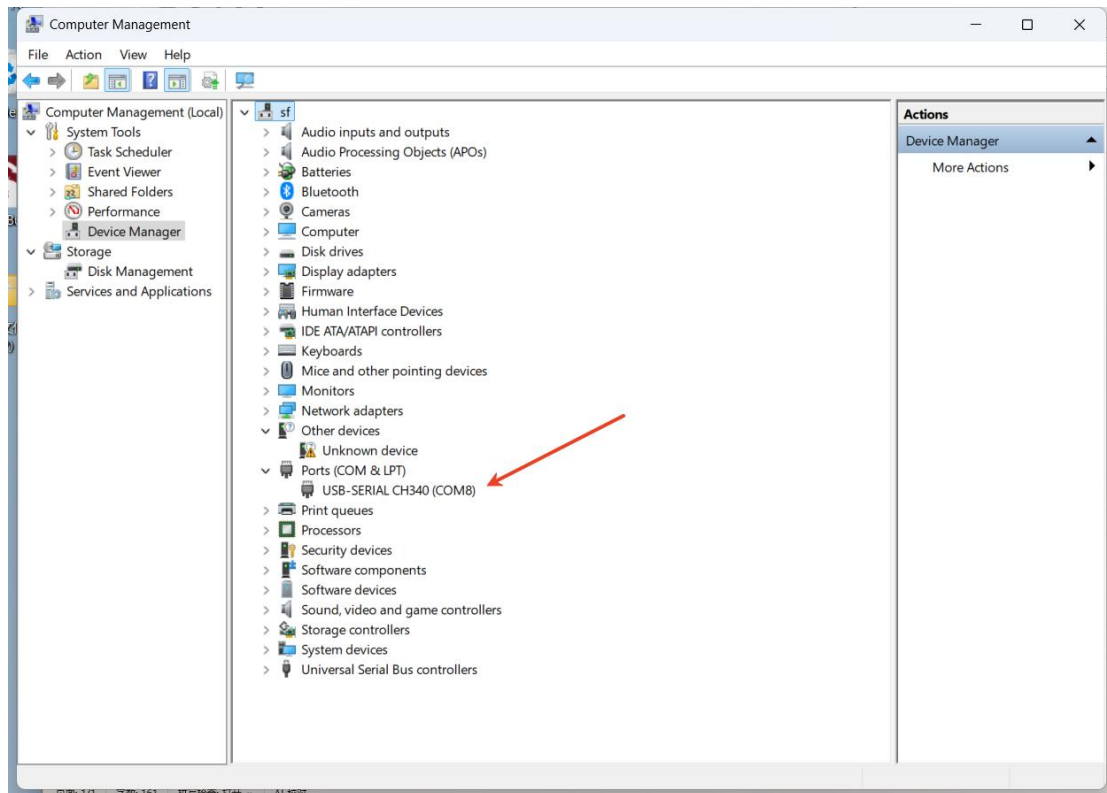
 MKSSTM32DownloadTool_setupv1.0.3.rar

https://drive.google.com/file/d/1Js2rGwn700f_Kji-13hGP321RJskCz-Y/view?usp=sharing



II. Firmware Upgrade Method – Upgrading via PC Software

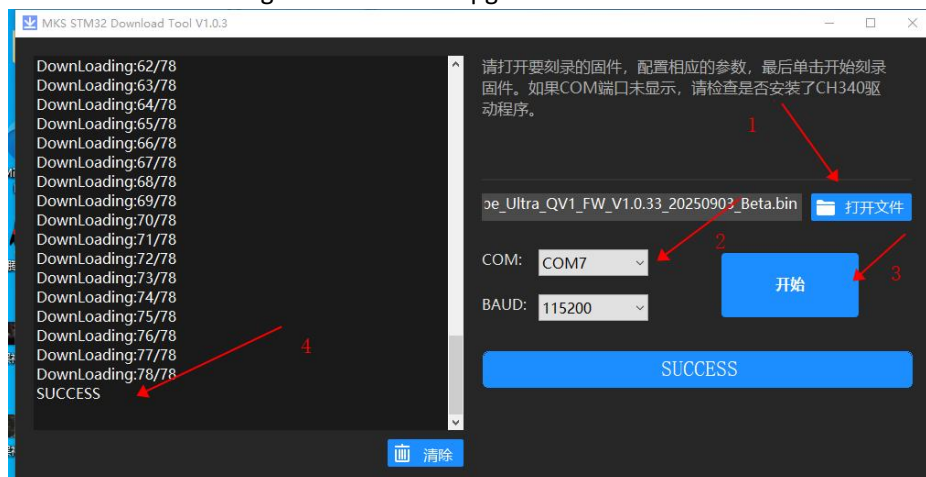
1. Power on the iCube Ultra and connect it to the computer; check the COM port assigned to the CH340 via Computer Management.



2. Extract the flashing program `MKSSTM32DownloadTool\_setupv1.0.3.rar` and install the `.exe` program.



3. Select the firmware to be flashed and the COM port corresponding to the iCube Ultra, then click "Start" to begin the firmware upgrade.



4. Wait for the process to complete; a "success" notification will appear upon successful upgrade.