

HLK-V20

USB Upgrade Tool User Guide

overview

This article describes how to **USB on HLK-V20 platform**Serial port upgrade tool for firmware upgrade.

USB Upgrade Notes

1. uni_app_debug_update.bin under the " uni_hb_m_solution - xxxx - xxxx " directory and uni_app_release_update.bin is firmware for usb upgrade.

N.B. Must be *update.bin version for it to work !!!!!!!! Standard release only for JTAG tool.

Step One ,Driver & Loading the FLASH firmware BIN File.

一、 Install the driver (if installed, skip it)

HLK-V20 development board USB upgrade tool HLK-V20 BurnTool.exe, provide UART serial port upgrade.

Because different UART **transfer** interfaces correspond to different drivers, if the serial port is connected, the COM port will not be recognized at all, You need to contact the corresponding UART The transfer interface merchant asks for the driver file (you can also install the driver wizard to obtain the driver file).

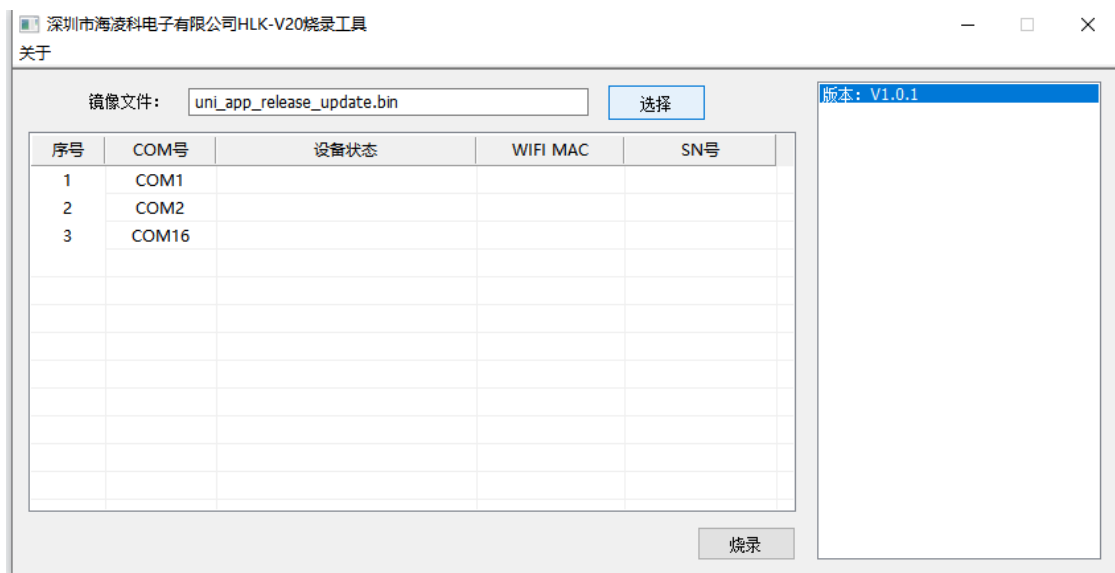


Figure 1 Recognizes the COM port – need to have just one correct COM port only to select.

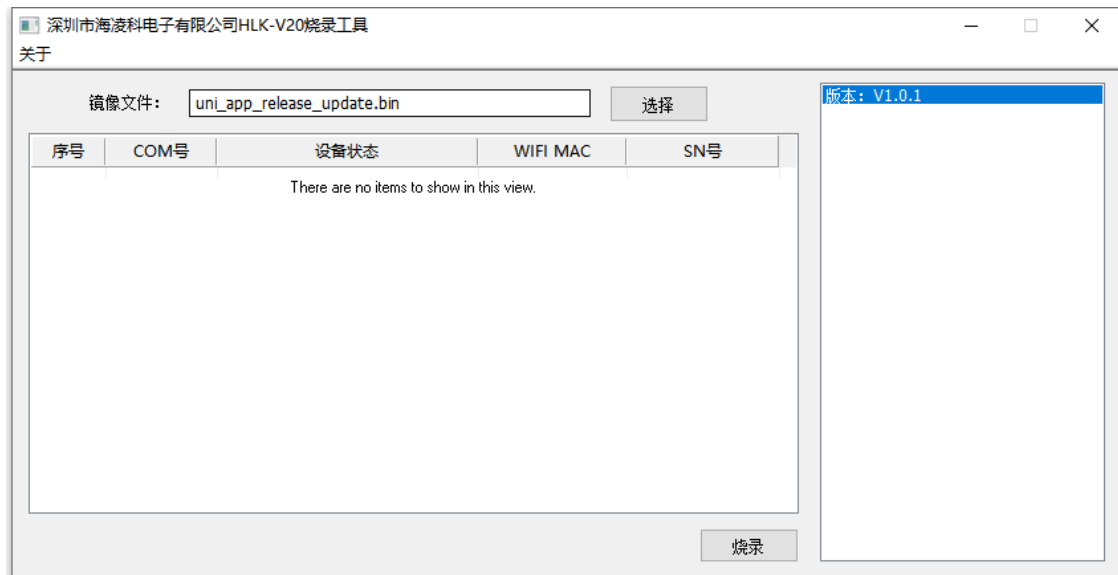
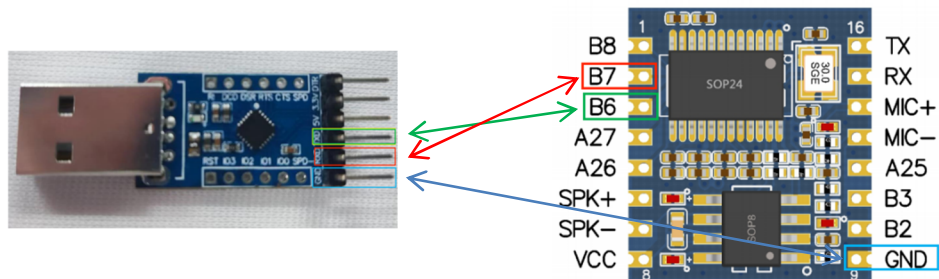


Figure 2 does not recognize the com port

Step Two , Wiring

- B 7 pins connected to serial port RXD
- B 6 pins connected to serial port TXD
- GND to serial port GND

As shown in Figure 3:



After the connection is correct , open **HLK-V20 BurnTool.exe** The tool should see the serial port displayed in the list, as shown in Figure 1. If it is not displayed, it means that **the COM port** is not recognized , please check:

- ① Is the serial cable connected?
- ② Is the serial cable reversed?
- ③ Whether or not to install **the correct UART** corresponding USB driver.

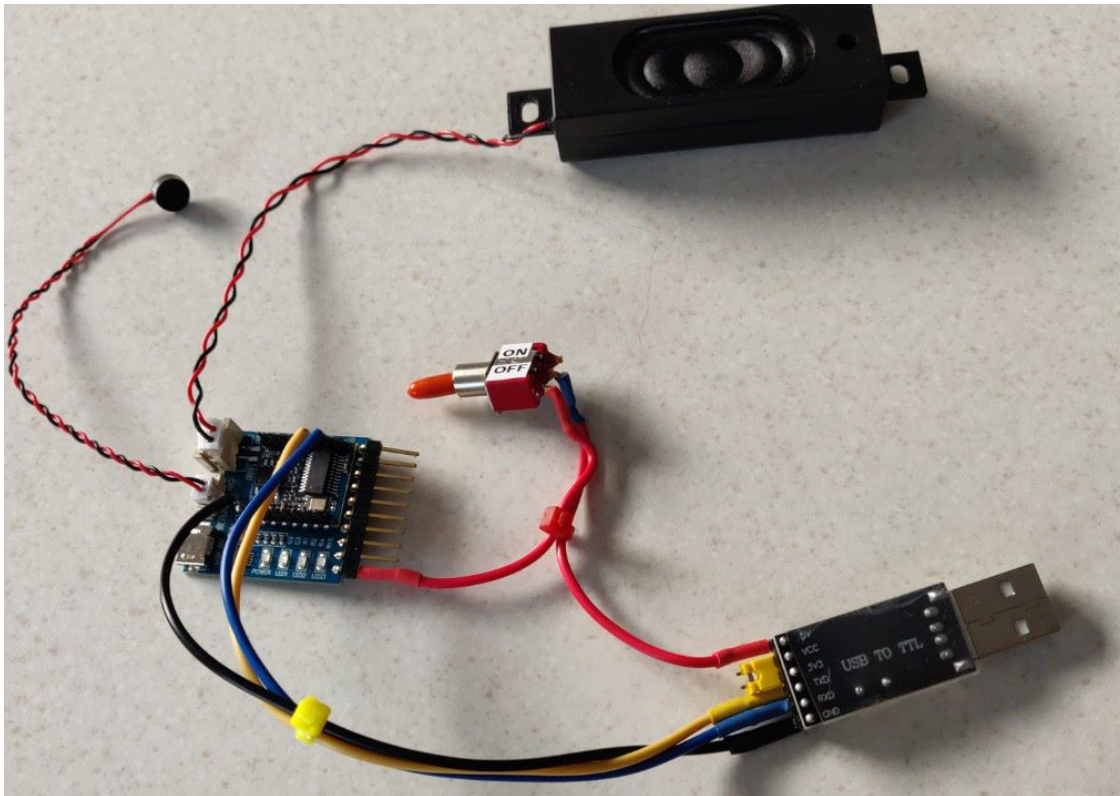
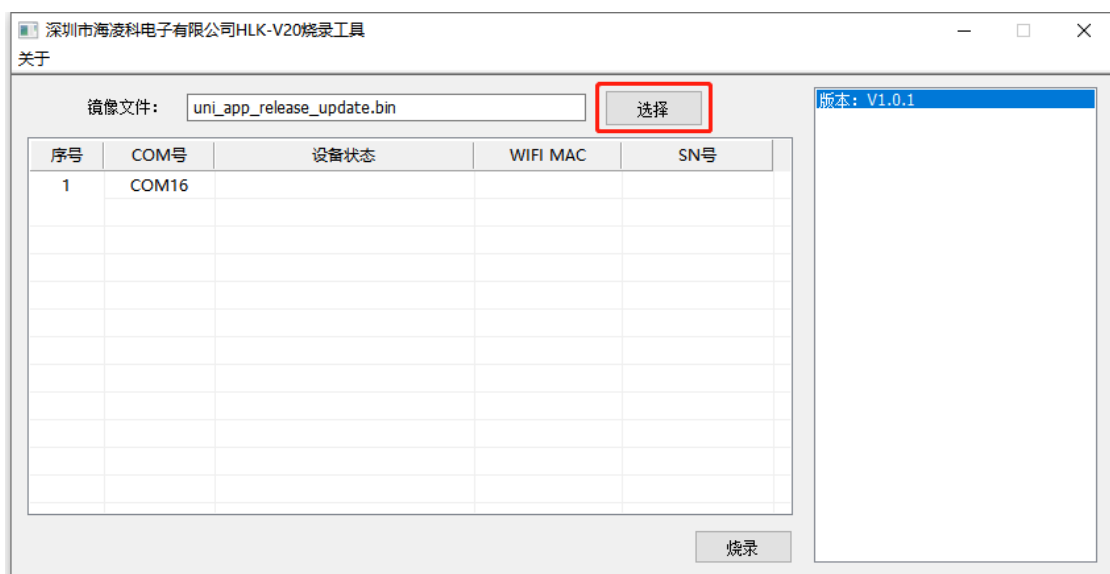


Photo of the wiring setup using a common USB to TTL serial data adapter - Power Toggle Switch also shown that supplies 5V+ DC volts

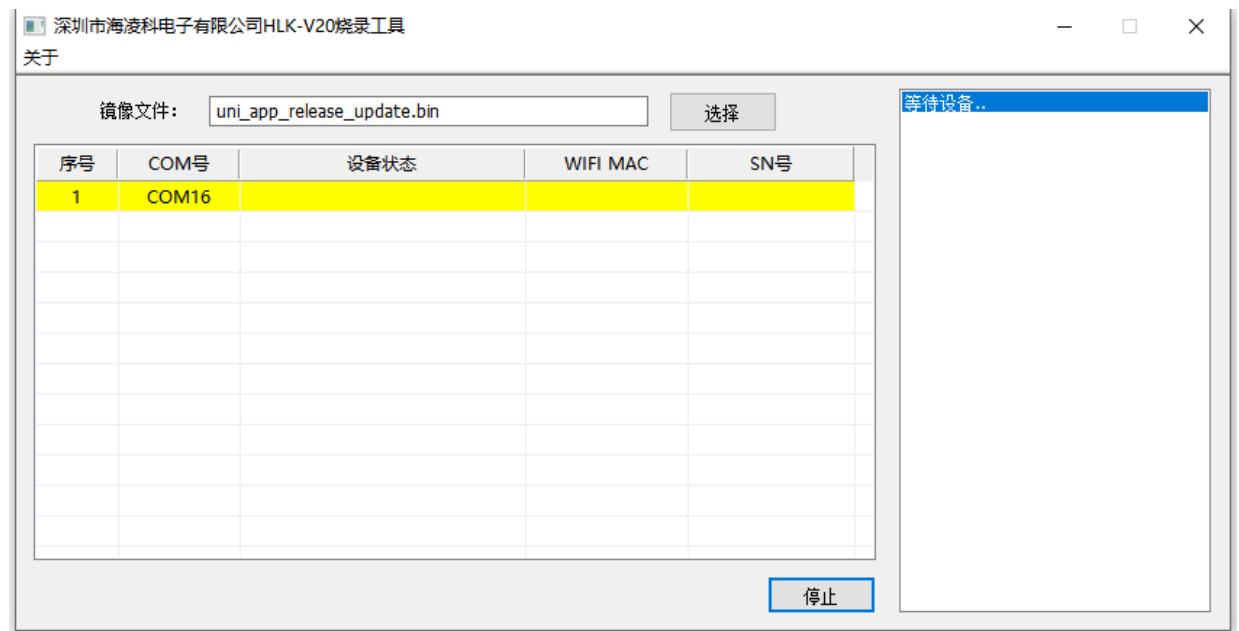
Three , start to upgrade

1. Select the firmware bin file that needs to be upgraded

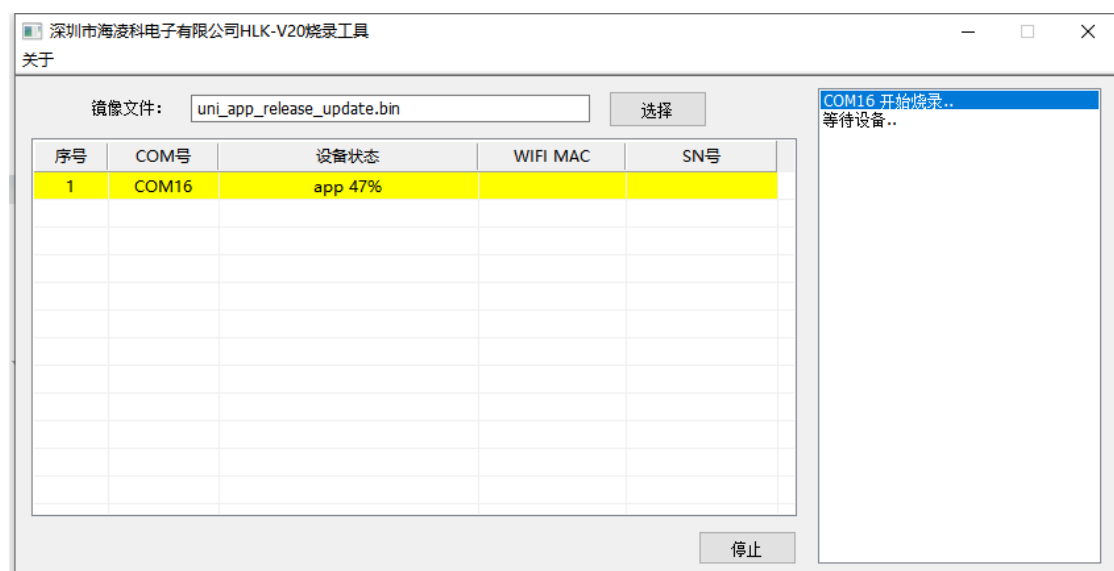
default selection HLK-V20 BurnTool.exe The uni_app_release_update.bin file in the same directory as the program , such as The firmware is placed in another location, click the RED select button, and specify the selection to the corresponding bin file .



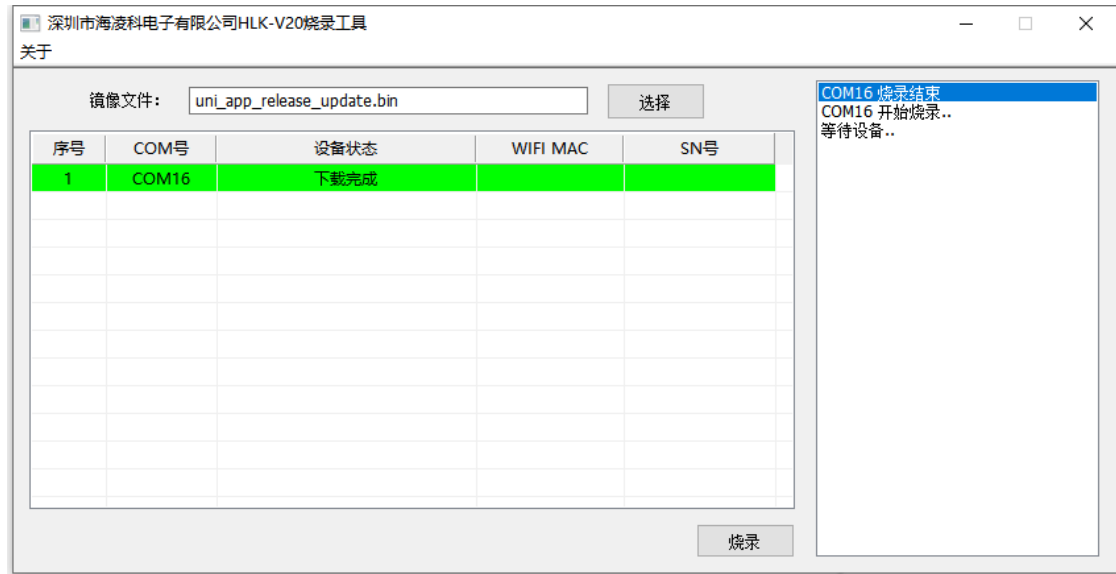
2. Click the Blue **BURN** button below at the bottom of the screen, as shown in the figure, the Yellow prompt bar shows it is waiting on standby for the device. (Note: Do not power on the device at this time with 5 volts DC!)



3. When the HLK-V20 is powered on with 5V+ toggle switch, the Download will start automatically under normal circumstances.



4. After the upgrade is complete , the device will automatically restart and then enter the normal boot state



Four . Frequently Asked Questions

1. Why can't I boot normally after the upgrade is completed successfully?

Answer : Please check whether you have selected the wrong upgrade firmware package, pay attention to only use **HLK-V20 BurnTool.exe** The firmware upgraded by the program is named with the suffix "**_update**". If you specify a firmware upgrade without this **_update** suffix, it will not be able to boot normally. In this case, it can be reset via **USB**. The upgrade tool can be restored by re-downloading the correct firmware.