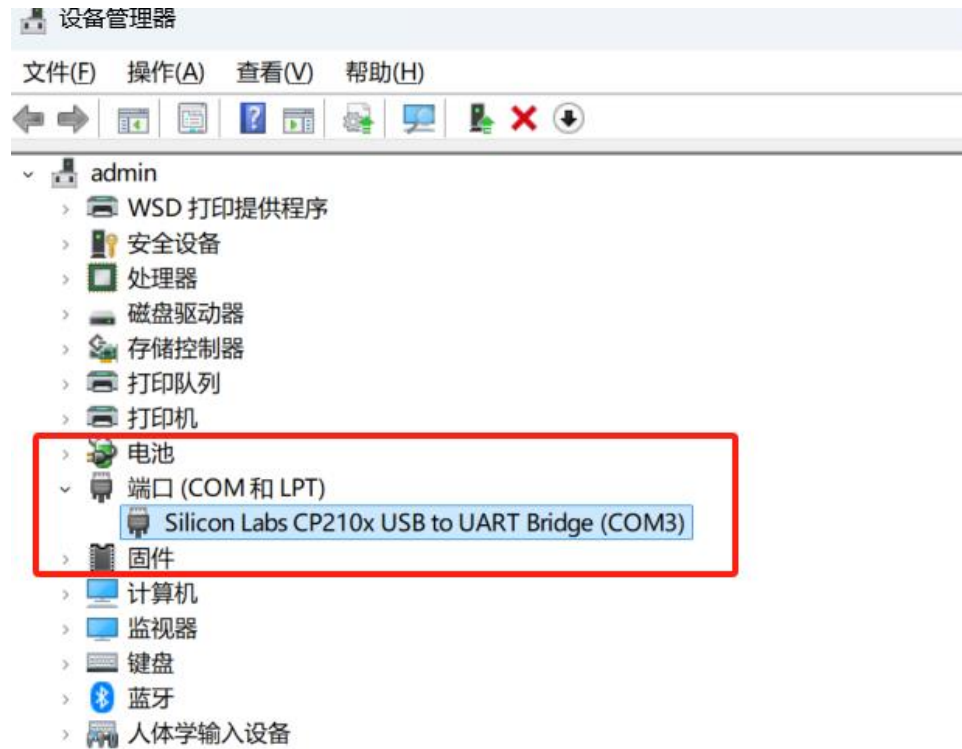


1. Download OLED test code and unzip.

[https://resource.heltec.cn/download/WiFi\\_LoRa\\_32\\_V3/WiFi\\_LoRa32\\_V3\\_OLED\\_Test.zip](https://resource.heltec.cn/download/WiFi_LoRa_32_V3/WiFi_LoRa32_V3_OLED_Test.zip)

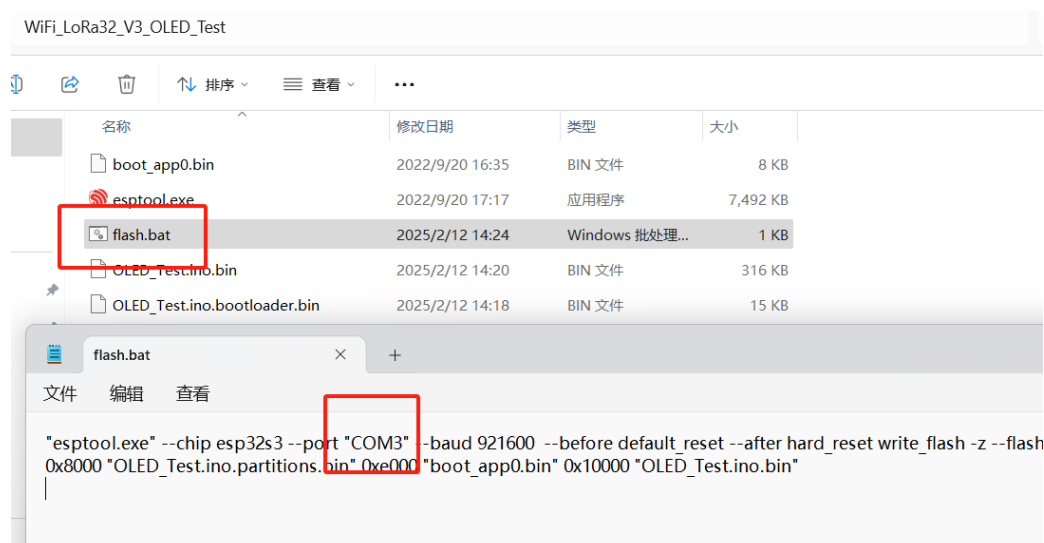
2. Find the COM port corresponding to WiFi\_LoRa32\_V3 in the Device Manager.



If the COM port cannot be found, please refer to this document to install the CP2102 driver.

[https://docs.heltec.org/general/establish\\_serial\\_connection.html#for-windows](https://docs.heltec.org/general/establish_serial_connection.html#for-windows)

3. Edit the 'flash.bat' file and change the COM port to the COM port corresponding to WiFi\_LoRa32\_V3. Save and exit after completing the modifications.



4. Double click "flash.bat" to start downloading the firmware. When the progress reaches 100%, the window will automatically close and the firmware download is complete.

```
C:\WINDOWS\system32\cmd. x + v
r.bin" 0x8000 "OLED_Test.ino.partitions.bin" 0xe000 "boot_app0.bin" 0x10000 "OLED_Test.ino.bin"
esptool.py v3.3
Serial port COM3
Connecting...
Chip is ESP32-S3
Features: WiFi, BLE
Crystal is 40MHz
MAC: 64:e8:33:67:65:c0
Uploading stub...
Running stub...
Stub running...
Changing baud rate to 921600
Changed.
Configuring flash size...
Flash will be erased from 0x00000000 to 0x00003fff...
Flash will be erased from 0x00008000 to 0x0000bfff...
Flash will be erased from 0x0000e000 to 0x0000ffff...
Flash will be erased from 0x00010000 to 0x0005efff...
Warning: some reserved header fields have non-zero values. This image may be from a newer esptool.py?
Compressed 14880 bytes to 10570...
Wrote 14880 bytes (10570 compressed) at 0x00000000 in 0.3 seconds (effective 363.7 kbit/s)...
Hash of data verified.
Compressed 3072 bytes to 146...
Wrote 3072 bytes (146 compressed) at 0x00008000 in 0.1 seconds (effective 439.3 kbit/s)...
Hash of data verified.
Compressed 8192 bytes to 47...
Wrote 8192 bytes (47 compressed) at 0x0000e000 in 0.1 seconds (effective 636.3 kbit/s)...
Hash of data verified.
Compressed 323408 bytes to 176159...
Writing at 0x0004489a... (72 %)
```

5. Observe whether the OLED displays content.

