System backup

Jetson nano uses a USB flash drive to load the system, and Jetson Orin NX/Orin Nano uses a solid-state drive to load the system. If the USB flash drive or solid-state drive is lost or damaged, the system data will be lost, so be sure to back up the system.

This article can help you back up your system. The main content is to back up the system, create a system image file, and restore the system when needed.

1. Preparation

Computer: Win10 or Win11, install Win32DiskImager software

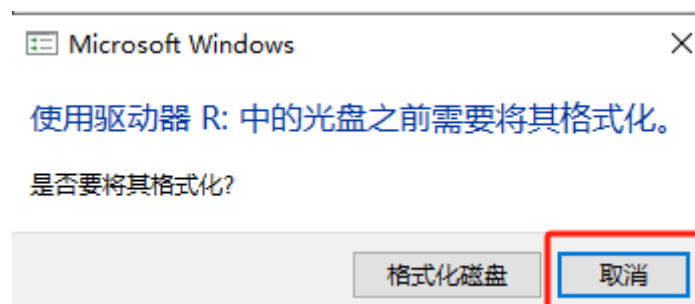jetson nano: USB flash drive system image

Jetson Orin NX/Orin Nano: SSD image + NVME SSD box
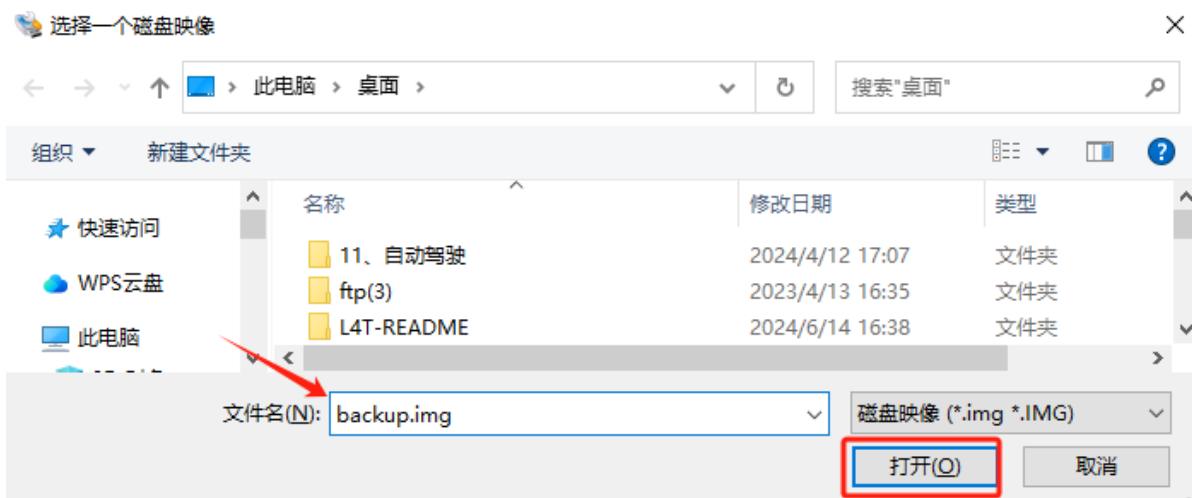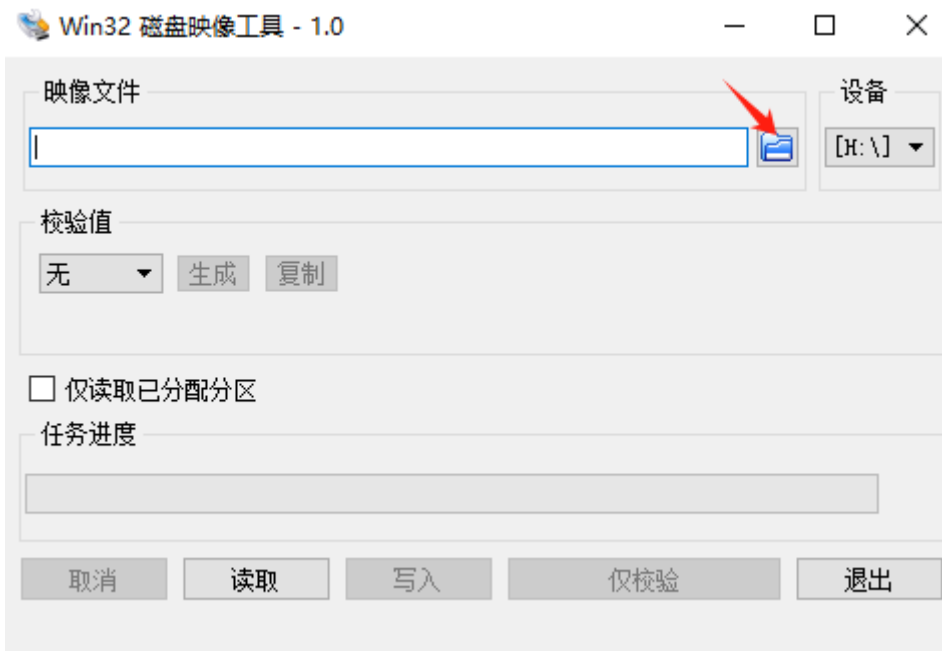
2. Back up the system image

If there is no Linux operating system, you can also back up in Windows, but the size of the backed-up file is actually the size of the TF card/U disk.

Insert the USB flash drive into the computer, and the system will pop up multiple prompt windows. Be sure to click [Cancel].
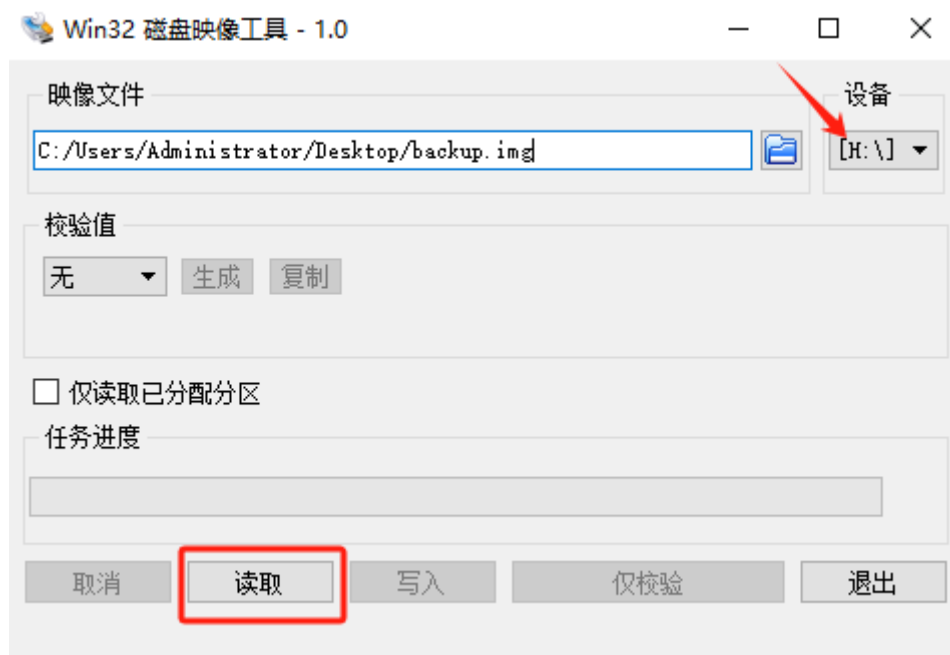
Note: Do not click Format. Do not click Format. Do not click Format.

Open Win32DiskImager software and select the path to save.

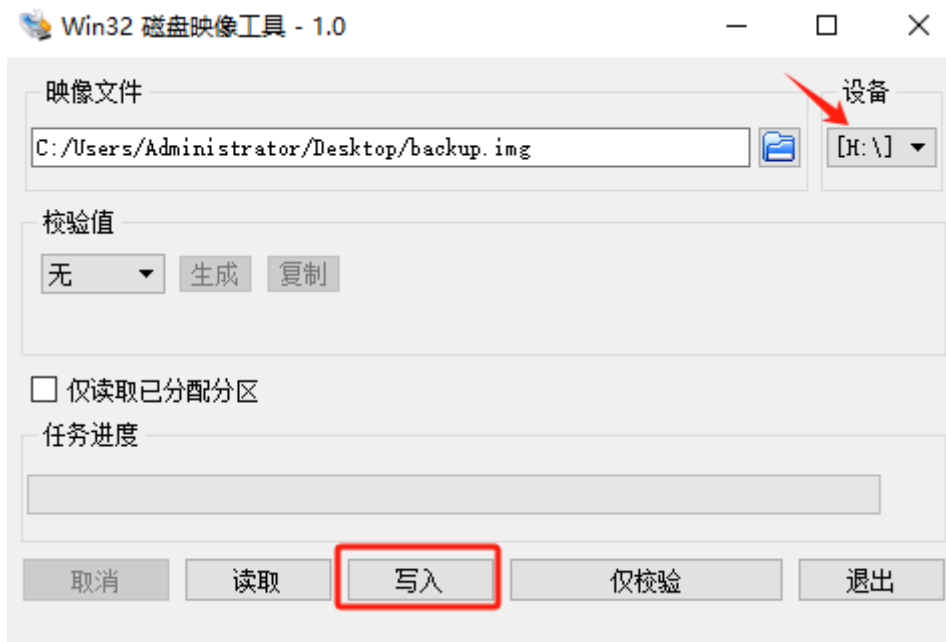Select one of the drive letters of the USB flash drive in [Device]. Then click [Read].

Note: WIN7 computers cannot recognize it here, and WIN10 system is required to recognize the backup.

The operation process of system backup is the same for SSD and USB flash drive, except that SSD needs NVME SSD box, and USB flash drive can be used directly.

3. Restore system

First, use the formatting tool to format the USB flash drive into a partition, then select the corresponding file and device drive letter, and then click Write.

The writing process is relatively long. Wait for the progress bar to reach 100%, and the system will pop up a window to prompt completion. You can unplug the USB flash drive at this time.

Summary:

Advantages: simple operation, backup and restore are implemented with the same software

Disadvantages: too much space is occupied, the backup is the entire card backup, the obtained IMG is the size of the USB flash drive, and can only be restored to the original USB flash drive or a disk larger than the original USB flash drive.