Get started quickly

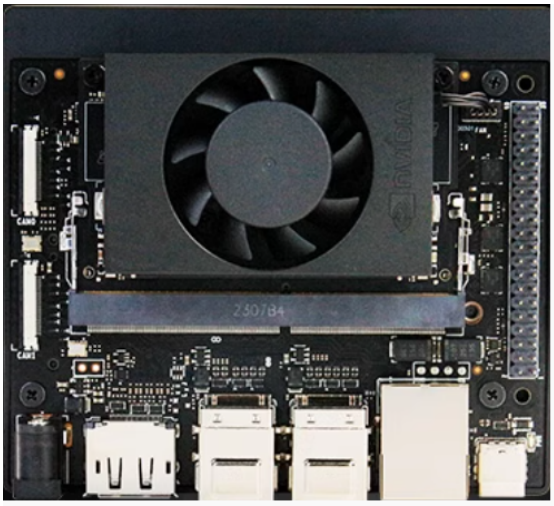
1. First start

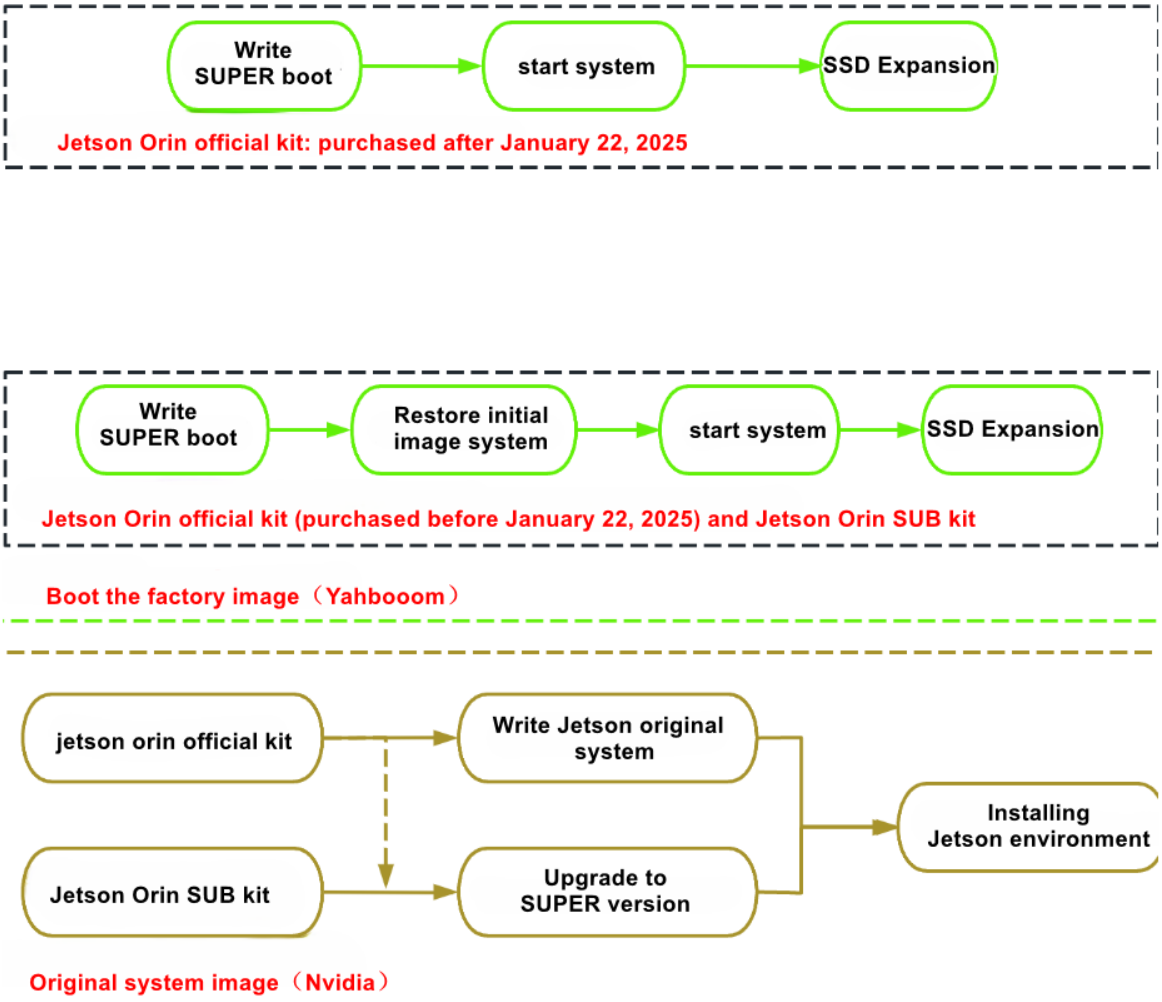
Start the factory image: suitable for beginners, you can experience the gameplay of each case without setting up the environment yourself!

Pure system image: suitable for developers, requires certain development experience, and the environment setting process requires independent problem-solving capabilities!

1.1. Prerequisites

Users can perform corresponding operations according to the motherboard model and purchase time in the flowchart. As shown in the picture, the one on the left is the official development kit, and the one on the right is the SUB development kit:





Description:

1. Write SUPER boot: corresponding tutorial [Chapter 2 Motherboard Basics: Write SUPER Boot (Official Kit Must Read)]
2. SSD Expansion: corresponding tutorial [Chapter 2 Motherboard Basics: SSD Expansion]
3. Write Jetson original system: corresponding tutorial [Chapter 2 Motherboard Basics: Write Jetson original system]
4. Upgrade to SUPER version: Corresponding Tutorial [Chapter 2 Motherboard Basics: Upgrade to SUPER version]
5. Restore initial image system: Corresponding Tutorial [Chapter 2 Motherboard Basics: Restore initial image system]
6. Installing Jetson environment: Corresponding Tutorial [Chapter 2 Motherboard Basics: Installing Jetson environment]
7. Jetson Orin Official Kit supports SDK Manager (Write Jetson original system) and manual burning system (Upgrade to SUPER version) to upgrade to SUPER mode

1.2. Start the system

After the motherboard is equipped with a solid-state drive, network card, antenna and DP data cable (connected to the monitor), you can use the matching DC power adapter to start the motherboard system.

The Jetson Orin series motherboard needs to be connected to a monitor to display the system desktop normally. For the first use, it is recommended that users use an external monitor and configure VNC remotely.

Note: According to user feedback, some users can use graphics card cheaters and virtual desktops to achieve VNC remote, which is not within the scope of the tutorial!

2. System environment

2.1. Basic information

System username: jetson

System password: yahboom

2.2. Jupyter Lab

Host access: http://localhost:8888/

LAN access: http://motherboard IP:8888/

Access password: yahboom

2.3. Label Studio

Host access: http://localhost:8080/

LAN access: http://motherboard IP:8080/

Access account: yahboom@163.com

Access password: yahboom@163.com

2.4. Access Docker

ROS1 environment is located in Docker:

```
sh ~/ros_melodic.sh
```

2.5. Open WebUI

Host access: http://localhost:8080/

LAN access: http://motherboardIP:8080/

Access username: yahboom
Access email: yahboom@163.com
Access password: yahboom

3. Notes

- Label Studio and Open WebUI occupy the same port. If you run one of the containers, you need to ensure that the other is closed!
- Due to the iteration of software versions and different user environments, we cannot ensure that everyone can successfully build the environment, but the only thing we can provide is a complete system image. If users encounter environmental problems and cannot solve them by themselves, please use the factory image we provide to learn the tutorial.