How write image of Jetson Xavier NX at the first time

Jetson xavier nx (Developer kit) Specifications

Al performance: 21 TOPS (INT8)

CPU: 6-core NVIDIA Carmel ARM®v8.2 64-bit CPU 6 MB L2 + 4 MB L3

GPU: NNVIDIA VoltaTM architecture 384 NVIDIA@CUDA0 cores and 48 Tensor cores

Deep learning accelerator: 2 NVDLA engines Memory: 8 GB 128-bit LPDDR4x 51.2GB/s Storage: microSD (without memory card)

Power consumption: 10 W/15 W

Connection: Gigabit Ethernet, M.2 Key E (WiFi/BT included), M.2 Key M (NVMe)

CSI camera: 2 MIPI CSI-2 D-PHY lanes

Video encoding: 2x 4Kp30 | 6x 1080p60 | 14x 1080p30 (H.265 & H.264) Video decoding: 2x 4Kp60 | 4x 4Kp30 | 12x 1080p60 | 32x 1080p30 (H.265)

2x 4Kp30 | 6x 1080p60 | 16x 1080p30 (H.264)

Display: HDMI and DP

Vision accelerator: 7-channel VLIW vision processor

USB: 4x USB 3.1, USB 2.0 Micro-B Network: 10/100/1000 BASE-T Ethernet Structure size: 103 mm x 90.5 mm x 34 mm

1.Preparation

1) Power supply cable (necessary)

The standard configuration of Jetson Xavier NX is 19V-2.37A

2) SD card (necessary)

Jetson Xavier NX requires at least 32g SD card, 64G is better.

2. Write image into SD card

Method of Jetson Xavier NX writing system is different from the Jetson TX series, and the image can be directly written to the SD file.

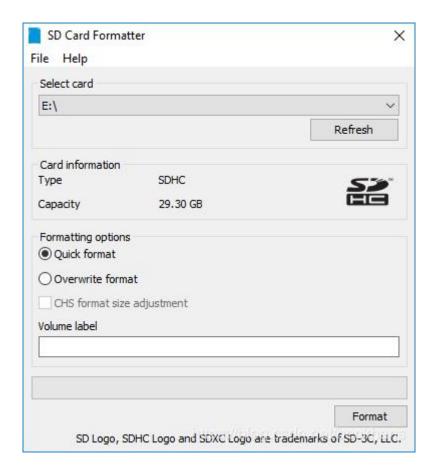
1)Download image

NVIDIA Link:

https://developer.nvidia.com/embedded/downloads

2)Format SD card

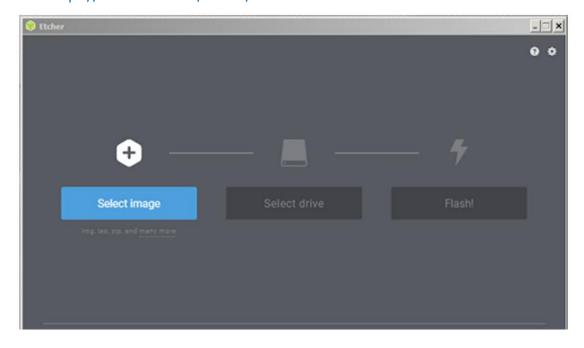
Format SD card by SD Card Formatter.exe

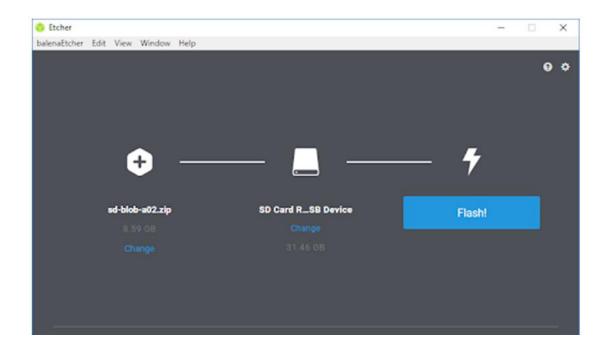


3) Write image

Writing image by balenaEtcher, it need about 30 minute.

Link: https://www.balena.io/etcher/





- 4. After the programming is completed, insert the SD card into the Jetson Xavier NX and open power switch.
- 5. We can complete some setting, for example:Language, time,etc.

