How to flash your development system in one step

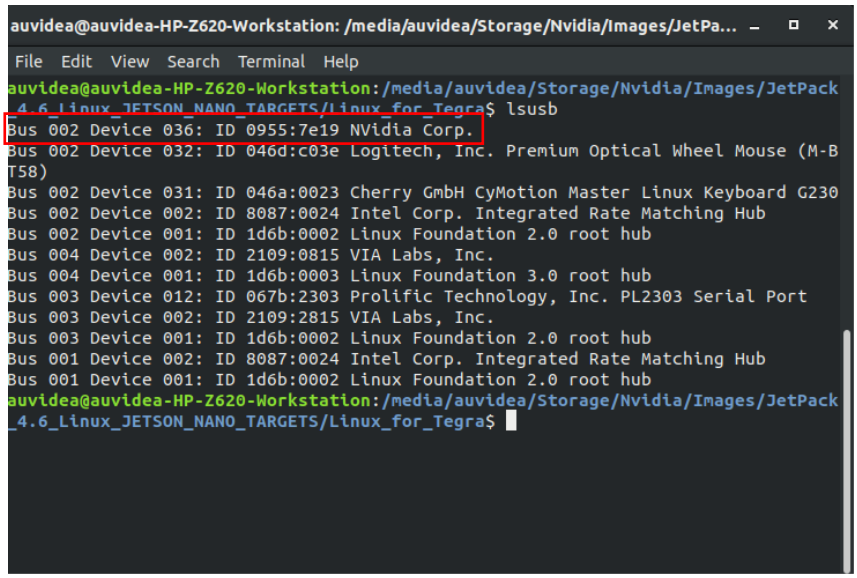
Before you start

1. Please make sure to use a Linux Host PC with UBUNTU 18.04 operating system and a high quality standard USB 2.0 Type A to micro USB 2.0 OTG cable. Please use a native setup (no virtual machine). This Host PC must have a high bandwidth Internet connection so that you can download the 3GByte+ installation file.
2. Connect the development system to the network to install SDK components in a later step

Setting up: JNX30D and X221D

1. Connect the development system and the Linux Host PC via the USB 2.0 OTG cable (micro USB on development system) and power up the Host PC.
2. Power up the development system. The development system will detect the host PC and automatically enter the flashing state (force recovery mode).
3. Check that the connection is established with the lsusb command.

```
lsusb
```



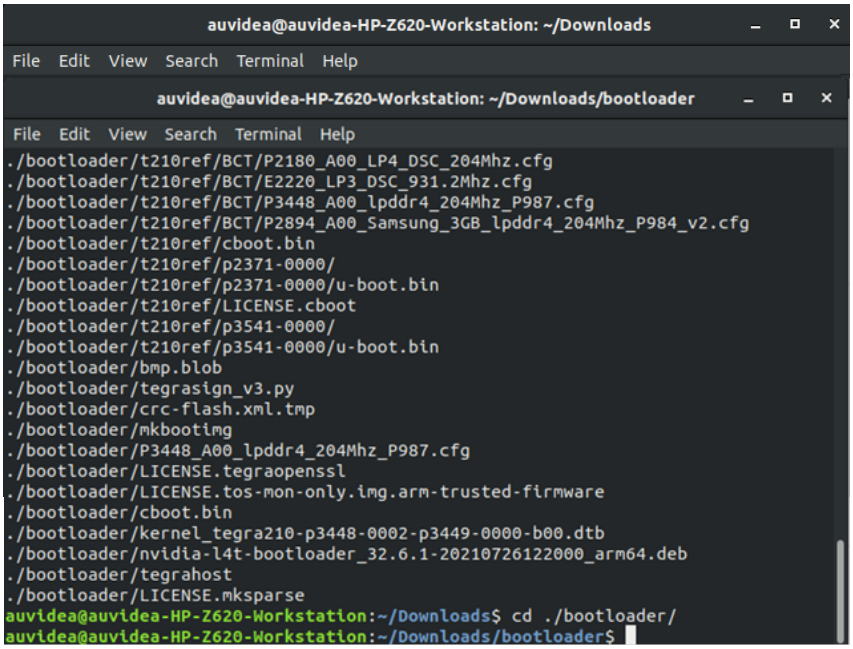
Download

1. Download the installation file (approx.. 4GB) from https://auvidea.eu/firmware/:
   Nano, TX2 NX or Xavier NX (JN30D and JNX30D)
   AGX Xavier (X221 and X221D)
2. Open a terminal window (CTRL ALT T) on your Linux Host PC and go to your download folder.

```
cd <path_to_downloaded_tar>
```

3. Extract the tar.gz file.

```
tar xvzf bootloader.tar.gz
```



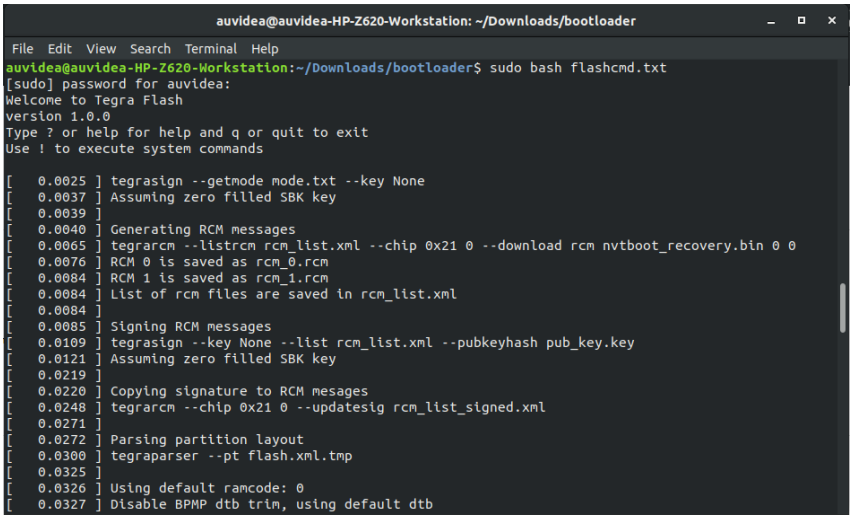
4. Go to the extracted file

```
cd ./bootloader
```

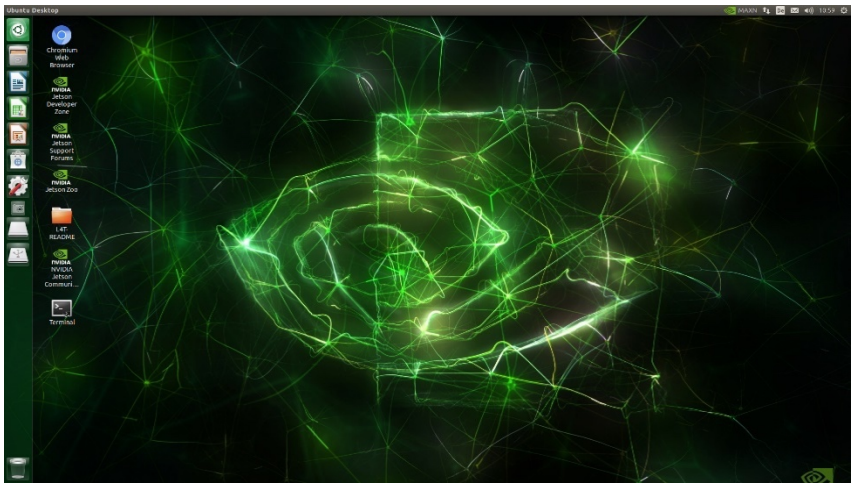
Flash the development system

1. Use the flashcmd script to download the software into the Jetson compute module and flash it.

```
sudo bash ./flashcmd.txt
```



2. Please connect a monitor to the development system. After the flashing process has completed the development should automatically boot and show the Ubuntu desktop.



3. Now you can install the NVIDIA SDK components. Please connect the development system to the Internet. Open a terminal window on the development system (CTRL ALT T). Use aptget to install the components. If this fails please check the Internet connection of the development system.

```
sudo apt-get update && sudo apt-get install nvidia-jetpack
```

```
test@test-desktop: ~
test@test-desktop:~$ sudo apt-get update && sudo apt-get install nvidia-jetpack
[sudo] password for test:
Hit:1 http://ports.ubuntu.com/ubuntu-ports bionic InRelease
Hit:2 http://ports.ubuntu.com/ubuntu-ports bionic-updates InRelease
Hit:3 http://ports.ubuntu.com/ubuntu-ports bionic-backports InRelease
Hit:4 http://ports.ubuntu.com/ubuntu-ports bionic-security InRelease
Hit:5 https://repo.download.nvidia.com/jetson/common r32.6 InRelease
Get:6 https://repo.download.nvidia.com/jetson/t210 r32.6 InRelease [2.547 B]
Fetched 2.547 B in 2s (1.554 B/s)
Reading package lists... Done
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  apt-clone archdetect-deb bogl-bterm busybox-static cryptsetup-bin
  dpkg-repack gir1.2-timezonemap-1.0 gir1.2-xkl-1.0 grub-common
  kde-window-manager kinit kio kpackagetool5 kwayland-data kwin-common
  kwin-data kwin-x11 libdebian-installer4 libkdecorations2-5v5
  libkdecorations2private5v5 libkf5activities5 libkf5attica5
  libkf5completion-data libkf5completion5 libkf5declarative-data
  libkf5declarative5 libkf5doctools5 libkf5globalaccel-data libkf5globalaccel5
  libkf5globalaccelprivate5 libkf5idletime5 libkf5jobwidgets-data
  libkf5jobwidgets5 libkf5kcmutils-data libkf5kcmutils5 libkf5kiocore5
  libkf5kiontlm5 libkf5kiowidgets5 libkf5newstuff-data libkf5newstuff5
```