Quick start guide



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. 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. You will also need a high quality standard USB 2.0 Type A to micro USB 2.0 cable.

Setting up: JNX30D and X221D

- 1. Connect the development system to the Linux Host PC. Please use a USB 2.0 cable (micro USB on development system).
- 2. After connecting to the Host PC 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 Isusb command.

lsusb

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File Edit View Search Terminal Help

auvidea@auvidea-HP-Z620-Workstation:/media/auvidea/Storage/Nvidia/Images/JetPack

4.6 Linux_IETSON_NANO_TARGETS/Linux_for_Tegra$ lsusb

Bus 002 Device 036: ID 0955:7e19 NVidia Corp.

Bus 002 Device 032: ID 046d:c03e Logitech, Inc. Premium Optical Wheel Mouse (M-B T58)

Bus 002 Device 031: ID 046a:0023 Cherry GmbH CyMotion Master Linux Keyboard G230 Bus 002 Device 002: ID 8087:0024 Intel Corp. Integrated Rate Matching Hub Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub Bus 003 Device 012: ID 067b:2303 Prolific Technology, Inc. PL2303 Serial Port Bus 003 Device 002: ID 2109:2815 VIA Labs, Inc.

Bus 003 Device 002: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 002: ID 8087:0024 Intel Corp. Integrated Rate Matching Hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub Bus 001 Device 001: ID 1d6b:001 Bus 001 Bus 001 Bus 001 Bus
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Download

- 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 location.

cd <path to downloaded tar>



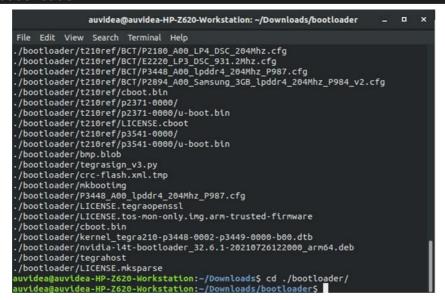
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3. Extract the tar.gz file (replace bootloader.tar.gz with your file name).

4. Go to the extracted file

cd ./bootloader





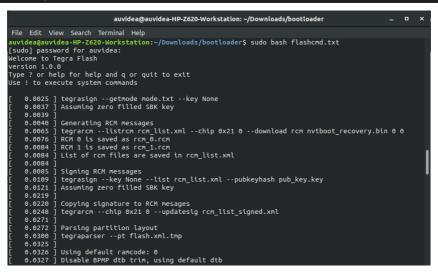




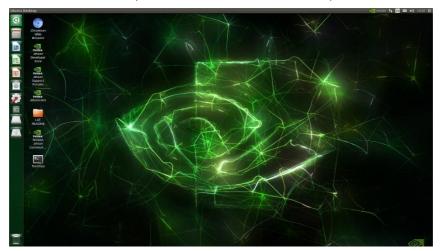
Flash the development system

1. Use the flashcmd script to transfer 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.





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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
Reading package lists... 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 libkf5declarative-data
libkf5completion-data libkf5completion5 libkf5declarative-data
libkf5globalaccelprivate5 libkf5idletime5 libkf5globalaccel-data libkf5globalaccels
libkf5jobwidgets5 libkf5kiowidgets5 libkf5shewstuff-data libkf5newstuff5
```

