

orin

Carrier board DSBOARD-ORNX

jetpack

<https://www.forecr.io/blogs/installation/jetpack-5-1-installation-for-dsboard-ornx>

Install sdk manager and run it with:

- JetPack 5.1 for Target Operating System
- Jetson AGX Orin modules for Target Hardware
- no Host components
- no flash board

Download [BSP](#), extract, update BSP and build rootfs

```
cd
~/nvidia/nvidia_sdk/JetPack_5.1_Linux_JETSON_AGX_ORIN_TARGETS/Linux_for_Tegr
a
wget
https://github.com/mistelektronik/dsboard_ornx_orin_nx_bsp/raw/master/orin_n
x_JP5_1_bsp.tar.xz
tar xf orin_nx_JP5_1_bsp.tar.xz

cp -a orin_nx_JP5_1_bsp/jetson-orin-nx-devkit-16gb.conf
orin_nx_JP5_1_bsp/p3768-0000+p3767-0000.conf .
cp orin_nx_JP5_1_bsp/Image kernel/
cp orin_nx_JP5_1_bsp/tegra234-p3767-0000-p3768-0000-a0* kernel/dtb/
cp orin_nx_JP5_1_bsp/tegra234-mb1-bct-gpio-p3767-dp-a03.dtsi bootloader/
cp orin_nx_JP5_1_bsp/tegra234-bpmp-3767-0000-a02-3768-0000-a00.dtb
bootloader/t186ref/
cp orin_nx_JP5_1_bsp/tegra234-mb1-bct-p* bootloader/t186ref/BCT/

sudo ./tools/l4t_flash_prerequisites.sh
sudo ./apply_binaries.sh

sudo cp orin_nx_JP5_1_bsp/nvgpu.ko
rootfs/usr/lib/modules/5.*/kernel/drivers/gpu/nvgpu/

sed -i "s/cvb_eeprom_read_size = <0x100>;cvb_eeprom_read_size = <0x0>;/g"
bootloader/t186ref/BCT/tegra234-mb2-bct-misc-p3767-0000.dts
sed -i "s/ODMMDATA=\"gbe-uphy-config-8,hsstp-lane-map-3,hsio-uphy-
config-0\";/ODMMDATA=\"gbe-uphy-config-9,hsstp-lane-map-3,hsio-uphy-
config-0\";/g" p3767.conf.common
```

backup

disable automount on host

```
sudo systemctl stop udisks2.service
```

put board in recovery mode

[download](#)

```
lsusb | grep 955  
Bus 001 Device 007: ID 0955:7323 NVIDIA Corp. APX
```

backup (output in `./tools/backuprestore/images`) `<code> cd
~/nvidia/nvidiasdk/JetPack5.1LinuxJETSONAGXORINTARGETS/LinuxforTegra sudo
./tools/backuprestore/l4tbackup_restore.sh -b jetson-orin-nx-devkit-16gb </code>`

From:
<https://wiki.csgalileo.org/> - **Galileo Labs**

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Last update: **2023/03/20 16:09**

