


```
sudo depmod -a
sudo modprobe r8125
```

4G??

4G [2.2](#)

████████

??HDMI 4K

tegra234-dcb-p3737-0000.dtsi

nvidia,dcb-image ████████ HDMI-dcb██████████

source/hardware/nvidia/t23x/nv-

public/overlay/tegra234-dcb-p3767-0000-hdmi.dts ██████

USB???

tegra234-p3768-0000.dtsi padctl@3520000

usb3-2████

```
padctl@3520000 {
    status = "okay";

    pads {
        usb2 {
            lanes {
                usb2-0 {
                    nvidia,function = "xusb";
                    status = "okay";
                };

                usb2-1 {
                    nvidia,function = "xusb";
                    status = "okay";
                };

                usb2-2 {
                    nvidia,function = "xusb";
                    status = "okay";
                };
            };
        };
    };
};
```

```
usb3 {
  lanes {
    usb3-0 {
      nvidia,function = "xusb";
      status = "okay";
    };

    usb3-1 {
      nvidia,function = "xusb";
      status = "okay";
    };

    usb3-2 {
      nvidia,function = "xusb";
      status = "okay";
    };
  };
};

ports {
  /* recovery port */
  usb2-0 {
    mode = "otg";
    vbus-supply = <&vdd_5v0_sys>;
    status = "okay";
    usb-role-switch;
  };

  /* hub */
  usb2-1 {
    mode = "host";
    vbus-supply = <&vdd_1v1_hub>;
    status = "okay";
  };

  /* M.2 Key-E */
  usb2-2 {
    mode = "host";
```

```

usb-supply = <&vdd_5v0_sys>;
status = "okay";
};

/* hub */
usb3-0 {
nvidia,usb2-companion = <1>;
status = "okay";
};

/* J5 */
usb3-1 {
nvidia,usb2-companion = <0>;
status = "okay";
};
usb3-2 {
nvidia,usb2-companion = <2>;
status = "okay";
};
};
};

usb@3550000 {
status = "okay";

phys = <&{/bus@0/padctl@3520000/pads/usb2/lanes/usb2-0}>,
      <&{/bus@0/padctl@3520000/pads/usb3/lanes/usb3-1}>;
phy-names = "usb2-0", "usb3-0";
};

usb@3610000 {
status = "okay";

phys = <&{/bus@0/padctl@3520000/pads/usb2/lanes/usb2-0}>,
      <&{/bus@0/padctl@3520000/pads/usb2/lanes/usb2-1}>,
      <&{/bus@0/padctl@3520000/pads/usb2/lanes/usb2-2}>,
      <&{/bus@0/padctl@3520000/pads/usb3/lanes/usb3-0}>,
      <&{/bus@0/padctl@3520000/pads/usb3/lanes/usb3-1}>,
      <&{/bus@0/padctl@3520000/pads/usb3/lanes/usb3-2}>;
phy-names = "usb2-0", "usb2-1", "usb2-2", "usb3-0",

```



```
export CROSS_COMPILE=$HOME/l4t-gcc-toolchain/aarch64--glibc--stable-2022.08-1/bin/aarch64-  
buildroot-linux-gnu-  
export KERNEL_HEADERS=$PWD/kernel/kernel-jammy-src  
make dtbs
```

- `dtb`

```
cp kernel-devicetree/generic-dts/dtbs/* ../kernel/dtb/
```

???????

- `dtb`

```
sudo ./tools/kernel_flash/l4t_initrd_flash.sh --external-device nvme0n1p1 \  
-c tools/kernel_flash/flash_l4t_t234_nvme.xml -p "-c  
bootloader/generic/cfg/flash_t234_qspi.xml" \  
--showlogs --network usb0 jetson-orin-nano-devkit internal
```

- `super`

```
sudo ./tools/kernel_flash/l4t_initrd_flash.sh --external-device nvme0n1p1 \  
-c tools/kernel_flash/flash_l4t_t234_nvme.xml -p "-c  
bootloader/generic/cfg/flash_t234_qspi.xml" \  
--showlogs --network usb0 jetson-orin-nano-devkit-super internal
```

???QSPI???

- `dtb`

```
sudo ./flash.sh -c bootloader/t186ref/cfg/flash_t234_qspi.xml --no-systemimg jetson-orin-nano-  
devkit nvme0n1p1
```

- `super`

```
sudo ./flash.sh -c bootloader/t186ref/cfg/flash_t234_qspi.xml --no-systemimg jetson-orin-nano-  
devkit-super nvme0n1p1
```

□□ #30

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