

# Adding Vision Components MIPI CSI-2 driver for NVIDIA

Readme made by Deepak Kumar Beniya  
Embedded Software Developer

[deepakbeniya64@gmail.com](mailto:deepakbeniya64@gmail.com)

[LinkedIn](#)

[Instagram](#)

## 1. Kernel Source PWD

*tegra-demo-distro/build\_tegra\_demo/tmp/work-shared/jetson-orin-nano-devkit/kernel-source*

## 2. DeviceTree Path

*tegra-demo-distro/build\_tegra\_demo/tmp/work-shared/jetson-orin-nano-devkit/kernel-source/nvidia/platform/t23x/p3768/kernel-dts*

## 3. DeviceTree Source

*tegra234-p3767-0000-p3768-0000-a0.dts*

# Now Follow the steps to add the driver..

1. First run the toolchain

-> `. setup-env build_tegra_demo`

2. Apply The two patches in the kernel source path I have mentioned above .

-> `git am`

`0001-kernel_common_32.3.1-Four-Patches-are-added-into-sin.patch`

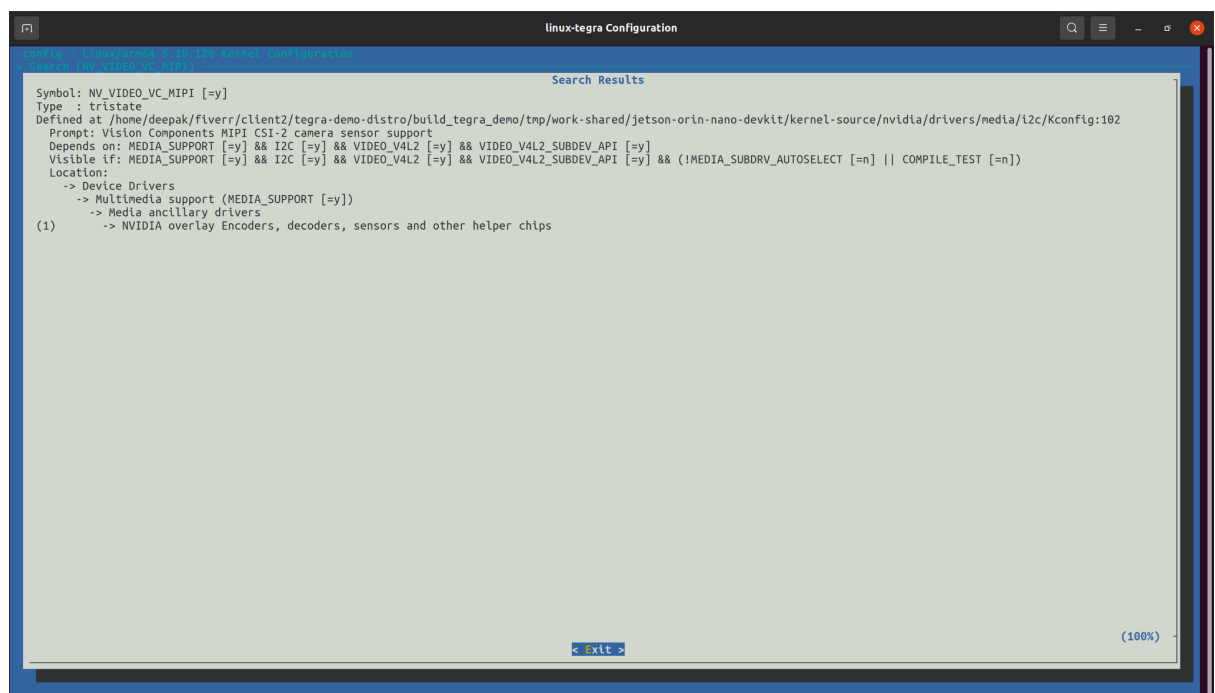
-> `git am 0002-Driver-for-Vision-Components-added.patch`

3. Now Open menuconfig to add the driver

-> `bitbake linux-tegra -c menuconfig`

-> `enter / and paste NV_VIDEO_VC_MIPI`

4. You will be able to see like this



5. Path for that driver

Location:

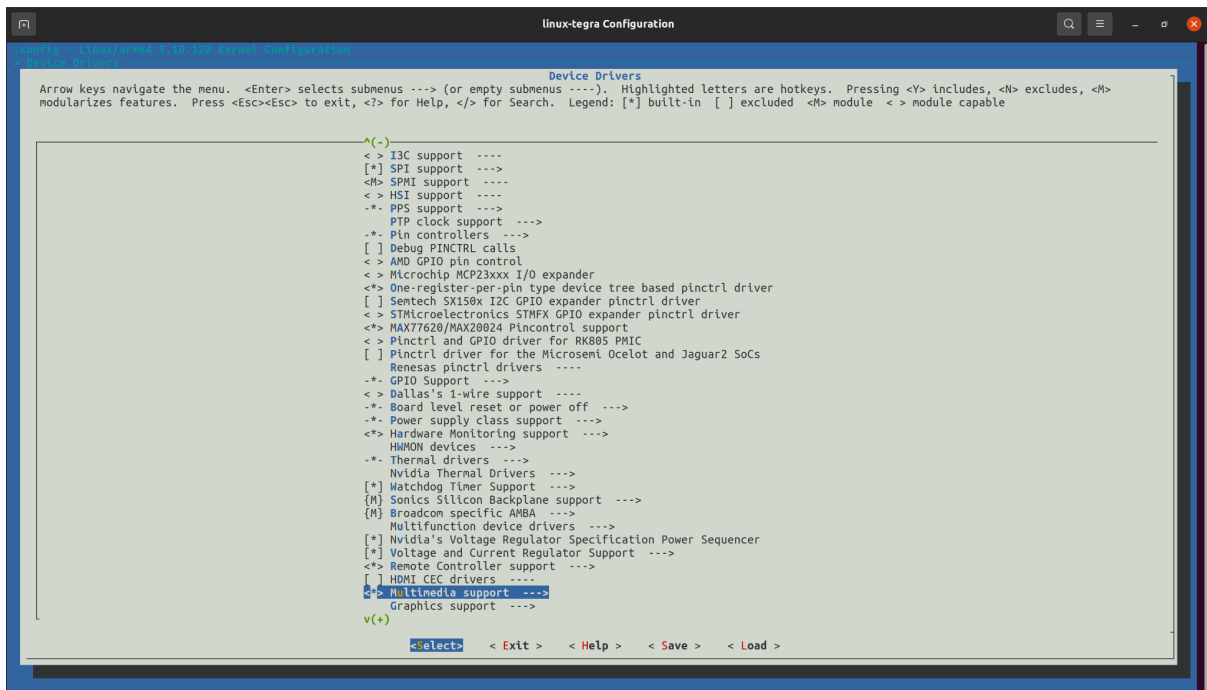
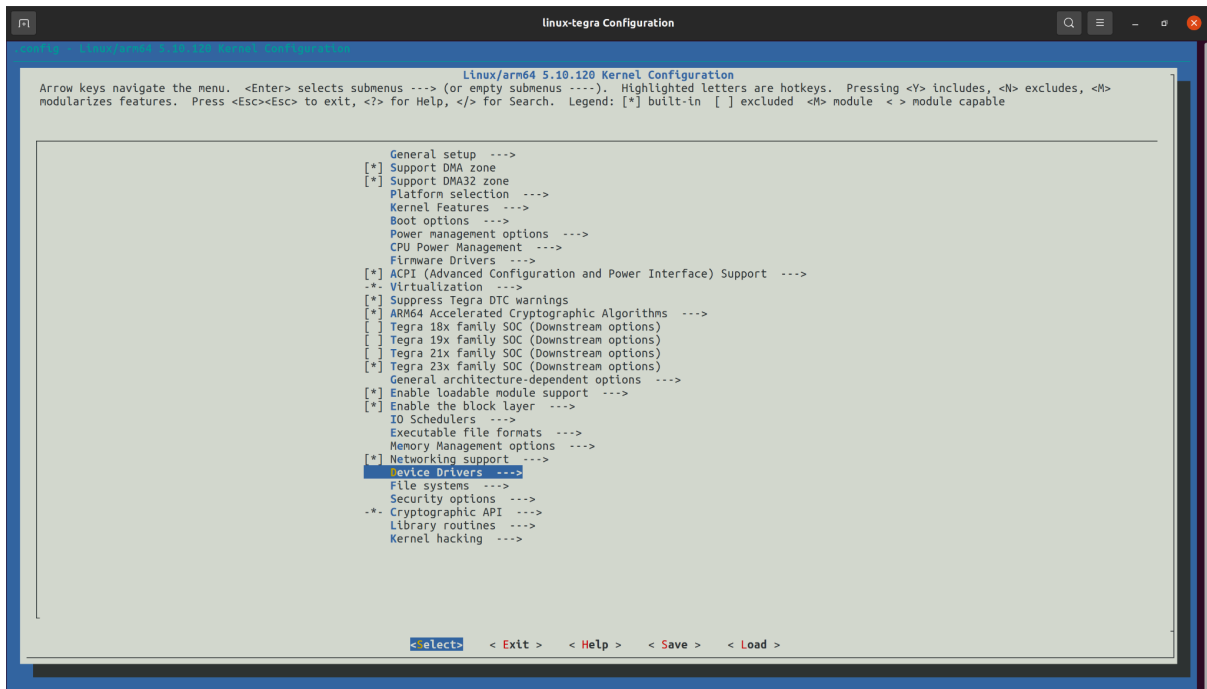
| -> Device Drivers

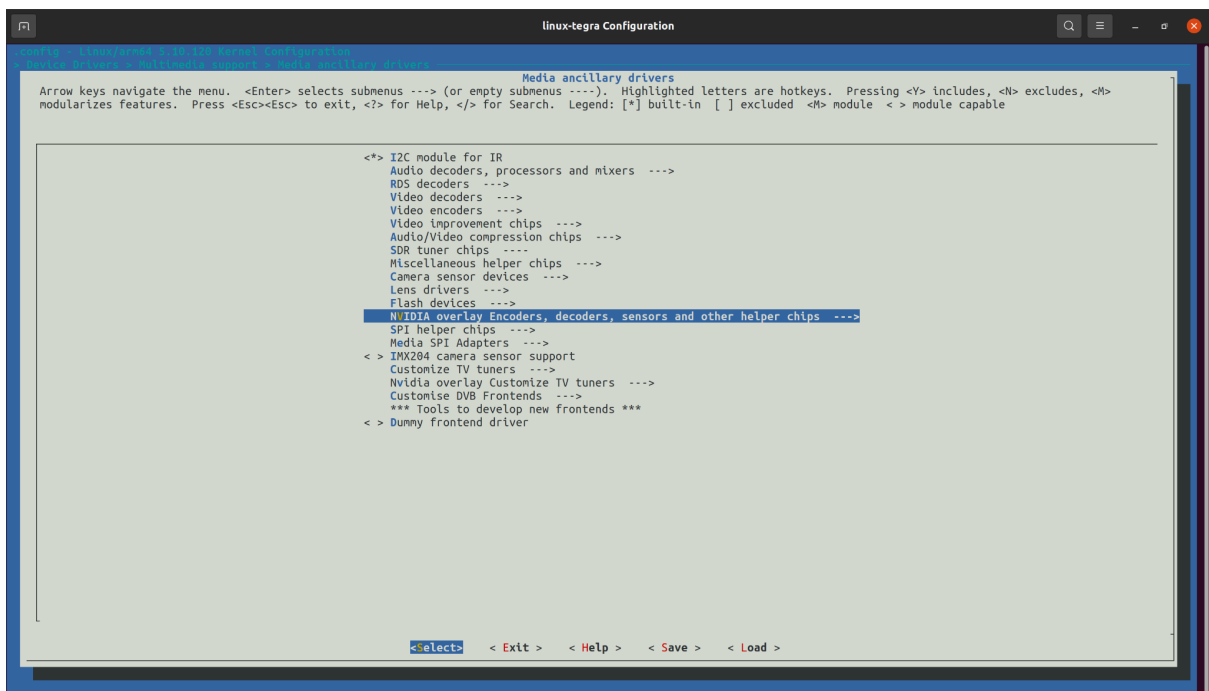
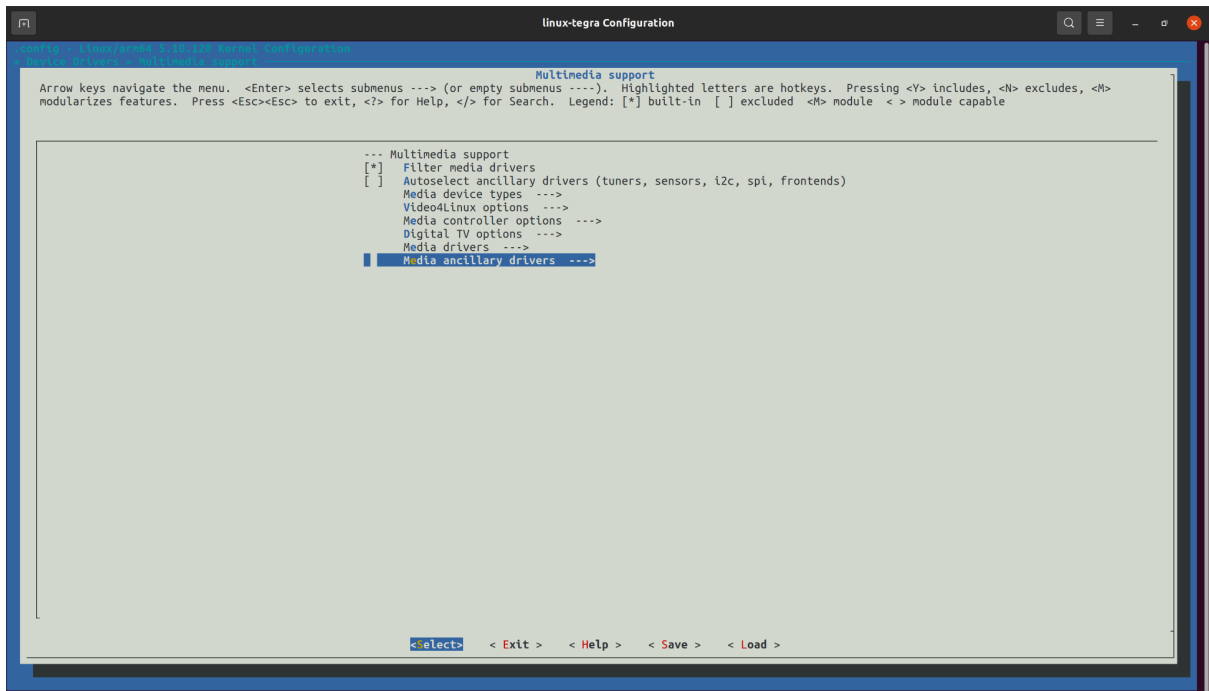
| -> Multimedia support (MEDIA\_SUPPORT [=y])

| -> Media ancillary drivers

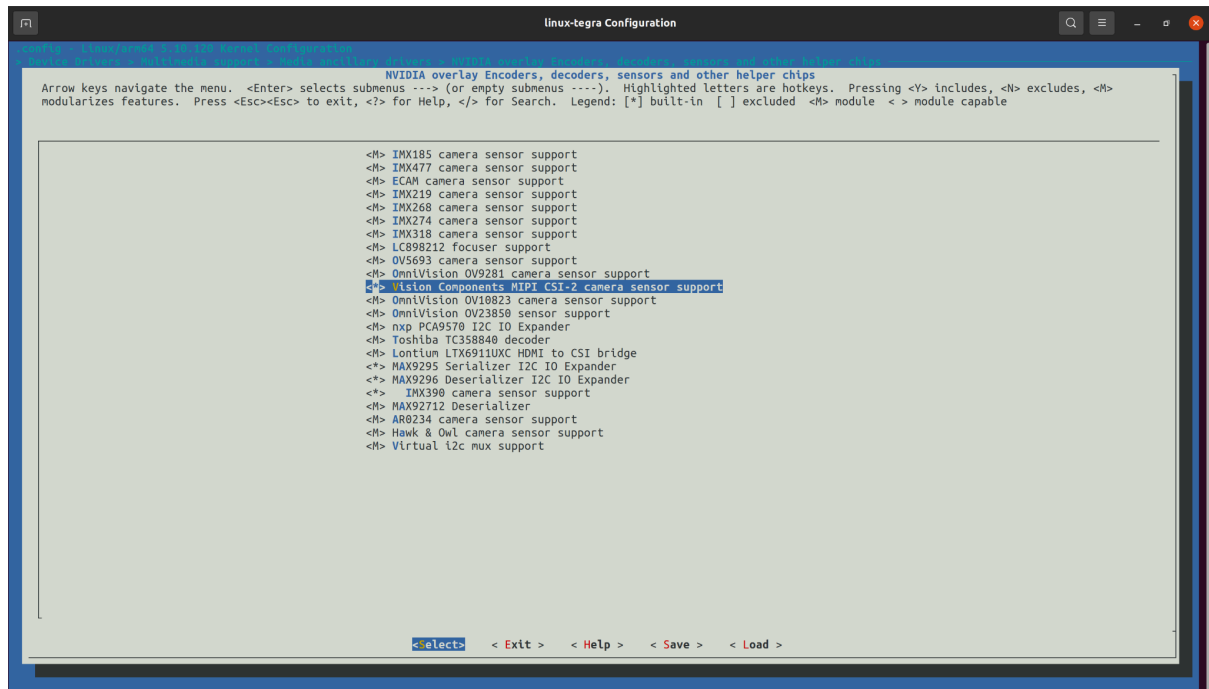
| -> NVIDIA overlay Encoders, decoders, sensors and

6.





## 7. Press the <Spacebar> to enable as static



## 8. Exit and Save the Configuration

## 9. Compile the Yocto Source

-> *bitbake demo-image-base*

## 10 . You Can get the images from here

->*tegra-demo-distro/build\_tegra\_demo/tmp/deploy/images/jetson-orin-nano-devkit*