

How to activate the 3.2inch LCD shield with your ODROID-C1+

- You need a **HDMI connection or a Serial console connection** to follow below instruction.
- Operation confirmed with testing in our [Ubuntu 16.04 LTS \(v2.1\)](#)

Configuring framebuffer and Touch driver

0. Update your Kernel

```
sudo apt update && apt upgrade && apt dist-upgrade
```

1. Insert modules

```
sudo modprobe spicc  
sudo modprobe fbtft_device name=odroidc_tft32 rotate=270  
gpios=reset:116,dc:115 speed=32000000 cs=
```

You will have a new frame buffer /dev/fbX
Find a framebuffer node.

```
ls /dev/fb*  
/dev/fb2  
cat /sys/class/graphics/fb2/name  
fb_odroidc_tft32
```

Run Console

0. Install package

Install fbset package to manage framebuffer. It might be installed in advance.

```
sudo apt-get install fbset
```

1. Run con2fbmap

```
# usage: con2fbmap <console> <framebuffer>
```

```
sudo con2fbmap 1 2
```

2. Change foreground virtual terminal

The command `chvt N` makes `/dev/ttyN` the foreground terminal.

```
sudo chvt 1
```

```
chvt 1 : console  
chvt 7 : X11
```

Run Xwindow

0. Create a new config file

```
sudo mv /etc/X11/xorg.conf /etc/X11/xorg.conf.old  
sudo vi /etc/X11/xorg.conf
```

1. And then, add following lines in `"/etc/X11/xorg.conf"` file.

```
Section "Device"  
    Identifier      "fbdev"  
    Driver          "fbdev"  
    Option          "fbdev" "/dev/fb2"  
EndSection
```

2. Run

```
sudo /etc/init.d/lightdm restart  
sudo chvt 7
```

Touch Calibration

- [How to enable & calibrate your touchscreen](#)

Auto Run

- [Automatically start console mode](#)
- [Automatically start desktop GUI mode](#)

Applications

- [Using the mplayer on framebuffer](#)
- [Using the Keypads on the TFT LCD](#)

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