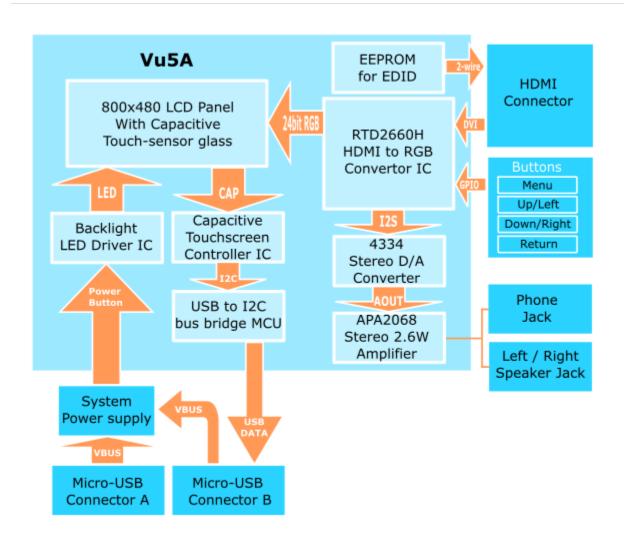
ODROID-VU-5-A

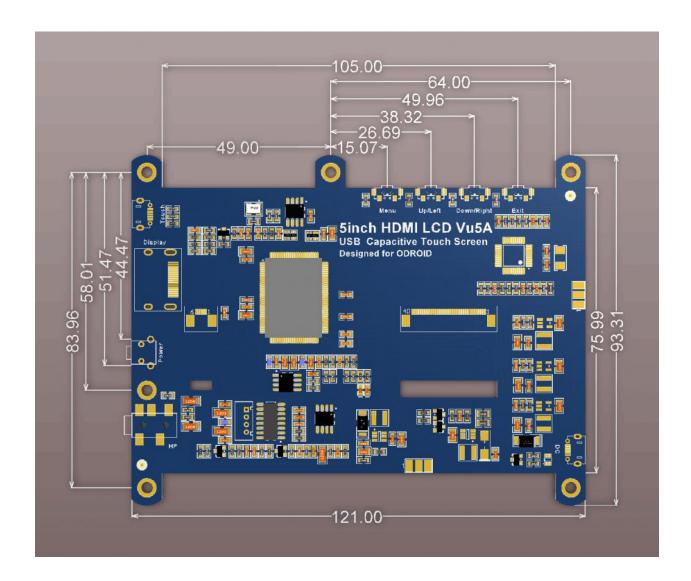


Specifications

- 5-inch TFT-LCD
- **800 x 480pixels** hardware resolution, configurable by software (up to 1920×1080)
- 5 finger capacitive touch input (USB ID **16B4:0705**)
- Power consumption: 500 mA / 5 Volt
- Power on/off tact switch
- 3.5mm audio jack and differential L/R speaker port to support HDMI audio output
- OSD menu supports with buttons for power management, brightness/contrast/volume adjustment, etc.
- Viewing angle (in degree): Left 70, Right 70, Up 70, Down 50
- Screen Dimensions: 121 x 93.31 x 15 mm Including switch and connectors)
- Viewable screen size: 108 x 64 mm (active area)

Diagram & Physical Dimensions





Assembly

You can easily attach the C_2 / C_{1+} board onto the backside of the LCD screen in order to create a fully integrated system.

Also it's available to connect XU4 / C2 / C1+ using a micro-USB cable and a HDMI cable described in Option 2.

Option 1



With this option, there is few space between C2/C1+ board and VU5A to connect a speaker.

So, when you use the speaker with VU5A, we recommend Option 2.

Option 2



Audio Features

With VU5A, you can enjoy sound with a stereo speaker or an audio earjack.

Please note that the speaker output turns off when an earjack is plugged in.





Software Setting - Ubuntu

sudo vim /media/boot/boot.ini

- ODROID-XU4
- ODROID-N2/C4

- ODROID-C2
- ODROID-C1/C1+/Co

Auto Detection

With the version **4.14.32-128** (Apr **20**, **2018**) or higher version,

XU4 automatically detects the resolution of VU5A as 800×480 with HDMI without any change of boot.ini.

VU5A model provides HDMI functionality, so you don't need modify boot.ini to switch into DVI as you do with VU5.

Manual Setting

If you use the lower version than **4.14.32-128**, boot.ini modification is required as following.

Please uncomment **videoconfig** line for 800×480 and make sure **vout** option as **hdmi**.

Software Setting - Android

To use VU₅A on Android, you have to change resolution of Android to **800x480p60hz**.

Basically, you can change the resolution through **ODROID Utility** apps. In ODROID Utility, you can find **ODORID-VU5/7** Option from resolution list.

And we also provide manual changing methods.

- ODROID-XU4
- ODROID-N2/C4
- ODROID-C2
- ODROID-C1+

```
setenv fb_x_res "800"

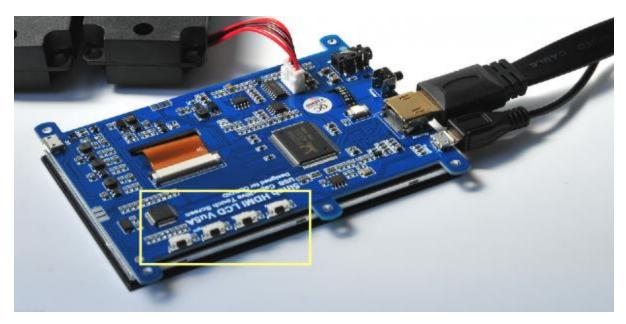
setenv fb_y_res "480"

setenv hdmi_phy_res "800x480p60hz"
```

OSD Setting Menu

You can find four menu buttons on the upper side of VU5A.

- Menu: To open the menu when using the menu and can be served as Confirm
- Up/Left : Direction key
- Down/Right : Direction key
- Return: To return the upper menu tree and exit the menu



Here is the menu decription.

Color	Brightness	Adjust the brightness, 0 ~ 100 (max), default 50
	Contrast	Adjust the contrast, 0 ~ 100 (max), default 50
	Saturation	Adjust the saturation, 0 ~ 100 (max), default 50
OSD	Language	English only
	H Position	Adjust the horizontal position
	V Position	Adjust the vertical position
	OSD Timeout	Adjust the menu display time, Off and 0~60 in 5 unit step, default 10
	Transparent	Adjust the menu transparent, Off and $0 \sim 7$ (most transparent), default off
Function	Reset	Reset to default

	Display Ratio	Set display ration, 16:9, 4:3 and Auto, default 16:9
Sound	Volume	Adjust the volume, 0 ~ 100 (max), default 50

Known issues.

- 1. The display shows noise on the screen in the boot process and power-dow n process because there is no off-sync filter circuit.
- 2. On the C1+, there will be after-image or noise when the system turns off if y ou use the OTG port.

To fix this issue, you must remove(de-solder) the R94 from the C1+ PCB. If you have the C1+ PCB Rev 0.4 2015/09/30, just remove a JUMPER on J8.

3. There is no backlight control except for the slide switch. So software can't a djust the brightness neither turn on-off the backlight.

First booting will generate the boot.ini file automatically.

You can edit the boot.ini on your PC if you connect the SD/eMMC card after fir st booting(self-installation process). Change the **vout mode to "HDMI"**.