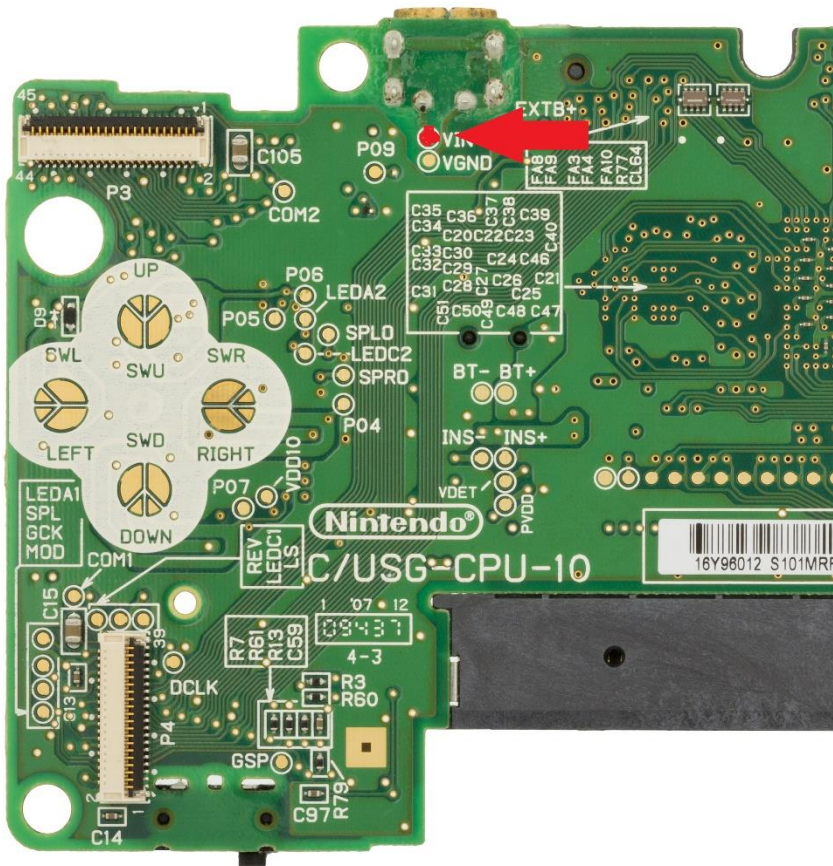# 5.3 MOD tutorial

Get the PCB: HERE

Step 1:

- Disassemble the console.

Step 2:
- Replace the charging port for the new usb-c port and ffc (be sure to connect the pins properly)

Step 3:

- On the ffc of the usb-c you'll see 3 square points
- Solder the bottom point to the VIN on the front of the motherboard

Check if the DS is charging. If not recheck the connections

When it appears to be charging proceed

Step 4:

- Install the custom wifi cable
- Now solder a wire from the top square of the usb-c port to the point labeled 'detect' on the wifi module.

Testing

Turn on the DS, it should start normally

Then insert a usb-c port or cable and see if it turns on with a yellowed screen.

If any fail re-check the last soldered cable.

When all good proceed

Step 5:

Soldering resistors

Now on the module you'll see there are some resistors to be soldered (4 resistors).
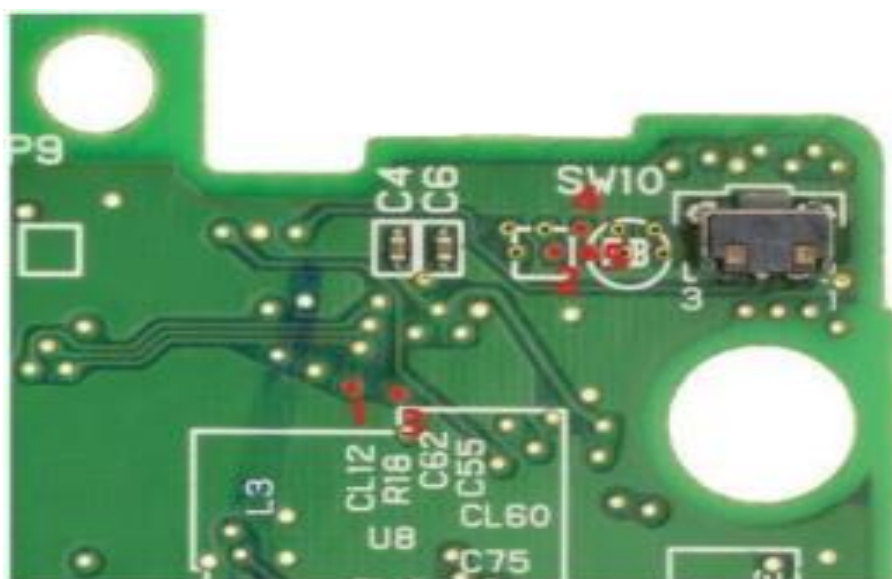
You can cut the FFC through the white line to make it easier to solder and place the FFC wherever you want. If you cut it, then solder the unlabeled point right of 'DSDIGIGUMODS' to ground.

The 4 resistors should be soldered as such, the 2 small ones are the same
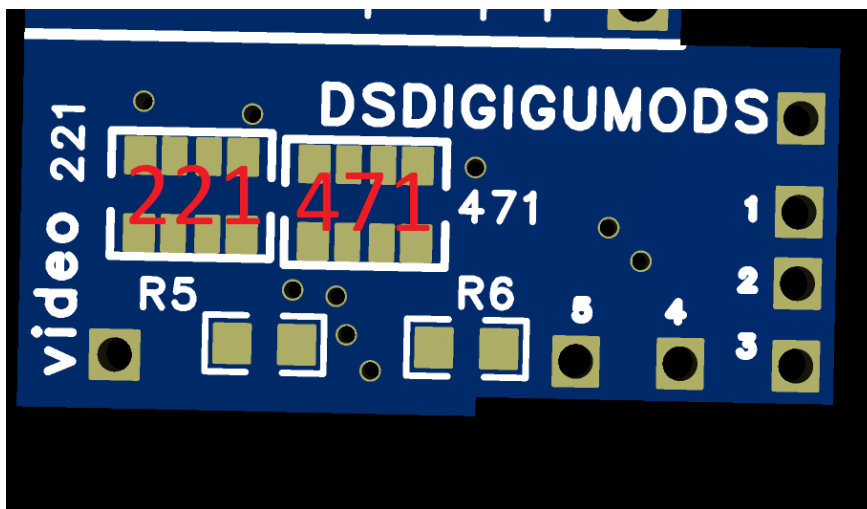
Step 6:

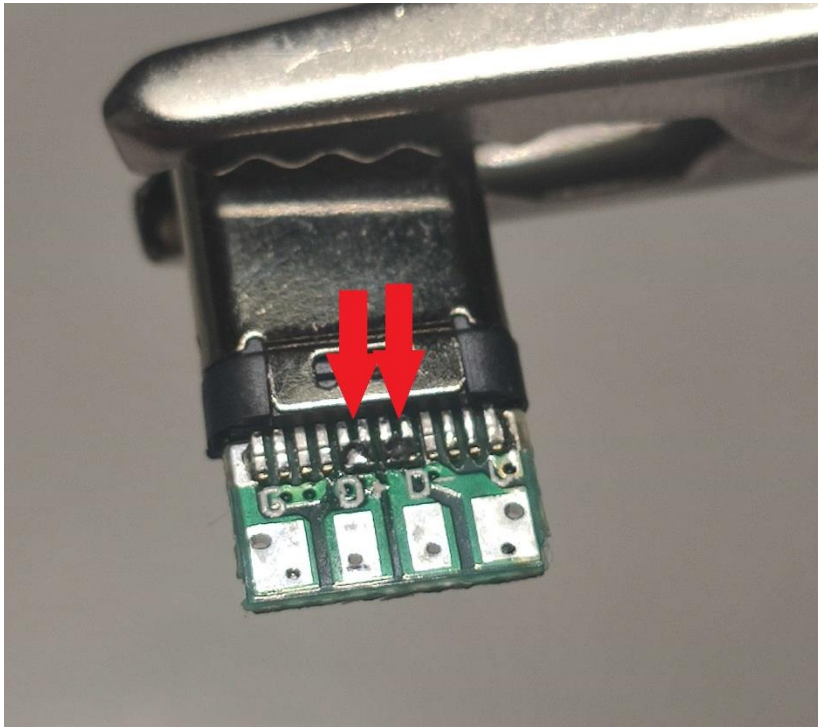Solder the points labeled 1 to 5 here:

Step 7:

Now solder a wire from the point labelled 'video' on the module to the middle square on the usb-c
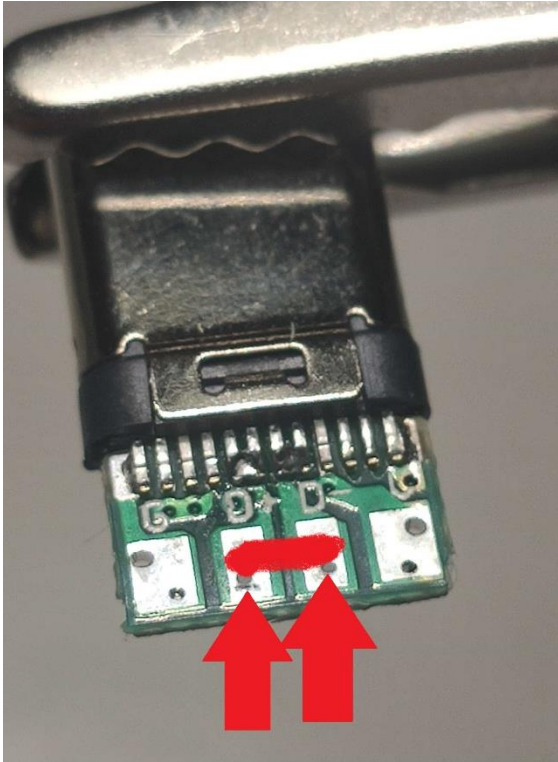
Step 8:

The usb-c cable.

On the connector with the data pads up, count 5 pins from the left and solder pin 5 and 6.

Then count 5 pins from the right and solder pin 5 and 6.

Now solder one end of the RCA cable to ground and the other to D+ and D- (TO BOTH)

And the Ground of the cable to 'G'.

You can also use it to charge if you solder 5V to 'V' and ground to 'G'.

Now test the video output.

If all good close the usb-c shell included with superglue to make it sturdy.

Optional step: Screen switching:

For screen switching the custom wifi module has 4 other soldering points.

B1 B2 and B3 stand for the buttons which will be used. You can chose any buttons you want if you don't want to use all 3 leave them unconnected.

SS will be soldered to point 'P0'