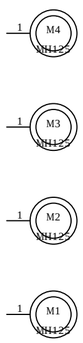
TASK ORDER

Get the analog mux thing hooked up
Get adjustable gain in-amp - hard to find, digital pot maybe?

Add GPS and gps antenna
Keyer inputs, Mic Preamp



Add lowpass filter for the ARM ADCs

TODO:

Add light sensor for backlight, you know?

Probably cooler to use an IN-AMP with digitally controllable gain anyway, you know?

I think my super knob can wait for the next version

Rename pins and stuff

add second freq ref oscilator. Why? So I can shift the birdies?

Look into variable band pass filters (switched cap?)

consider a mixer to enable 2m (or other) freq operation

add a temp sensor near the DDS crystal

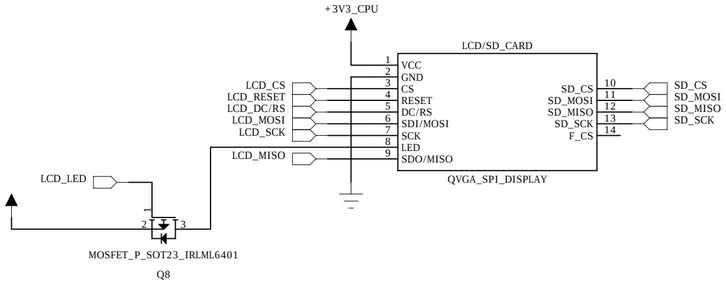
DONE:

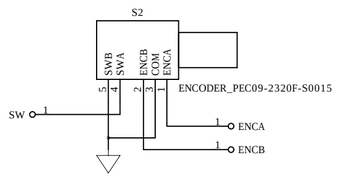
Go to bigger Micro with DFU mode. Maybe go all the way to one of the big F4s?
Figure out an intrumentation amp that doesn't require +-15v!!! (or add boost converter, etc.)

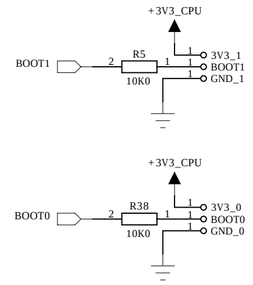
Get four coppies of each filter
choose filter and duplicate four times

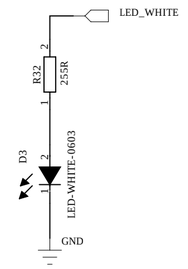
Get micro working: caps, crystal, usb, etc.Programming h

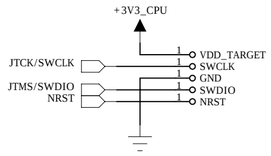
split analog supplies (one for micro/ one for the rest?)





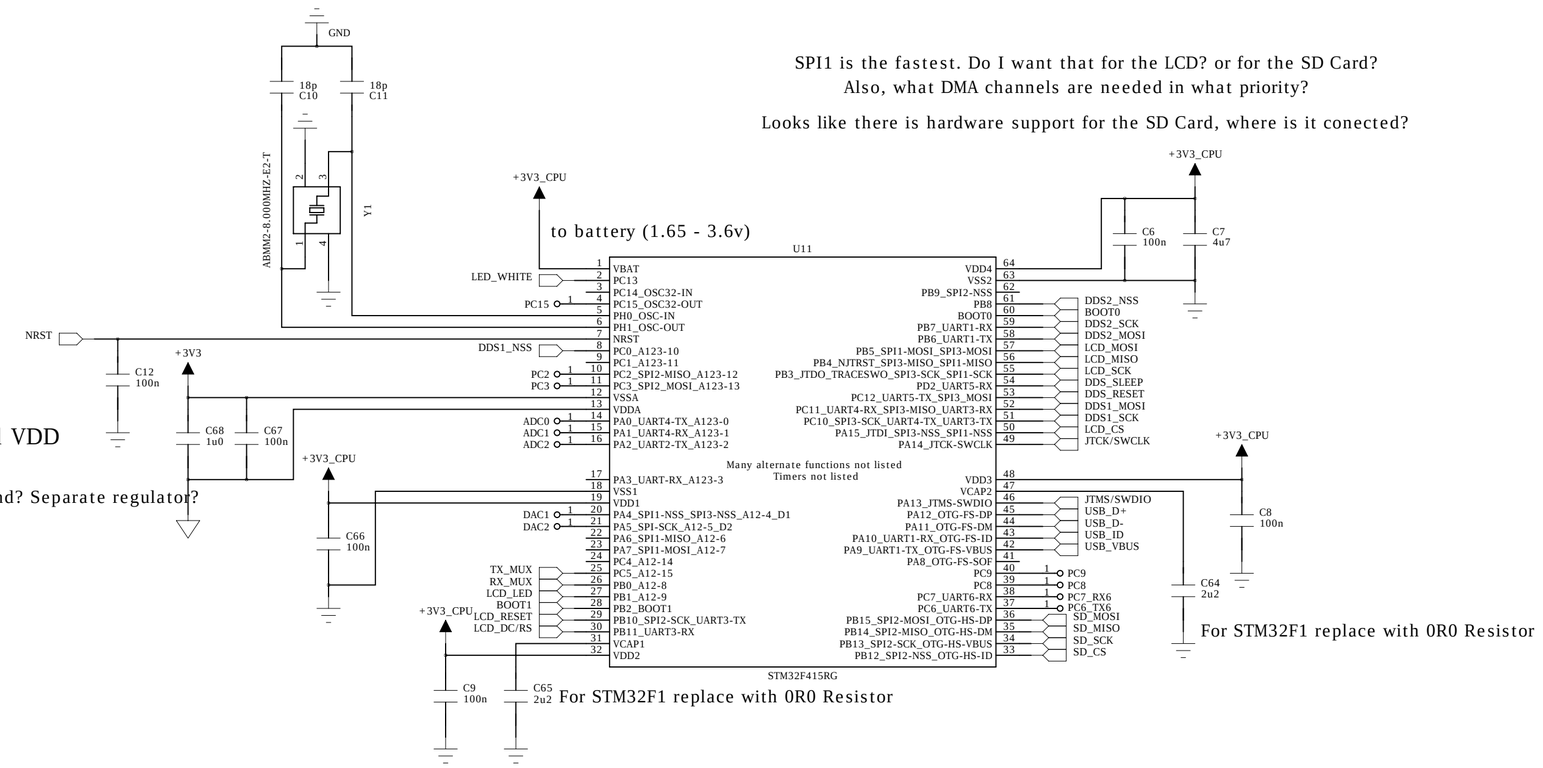






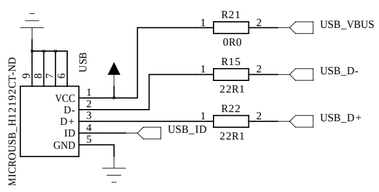
SPI1 is the fastest. Do I want that for the LCD? or for the SD Card?
Also, what DMA channels are needed in what priority?

Looks like there is hardware support for the SD Card, where is it conected?



SWAPPED VSS and VDD

Analog power and ground? Separate regulator?



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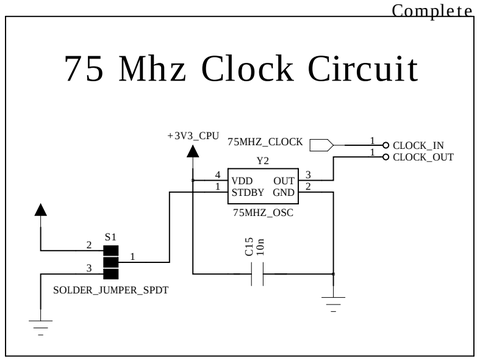

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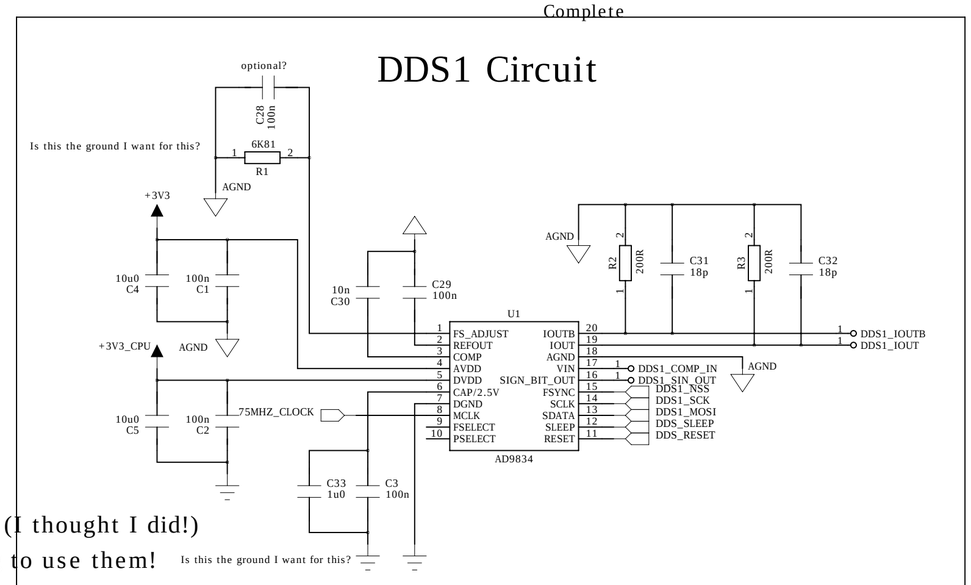
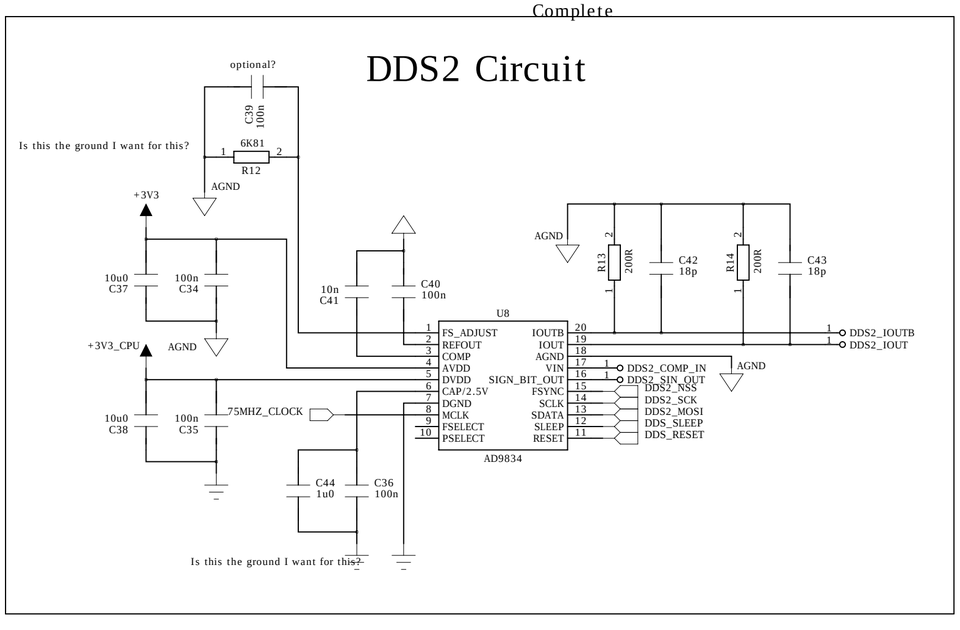


oort (I thought I did!)

oing to use them!

r now.

Complete



These have similar enough topologize that I can just populate them differently

See previous revs for other values Which?

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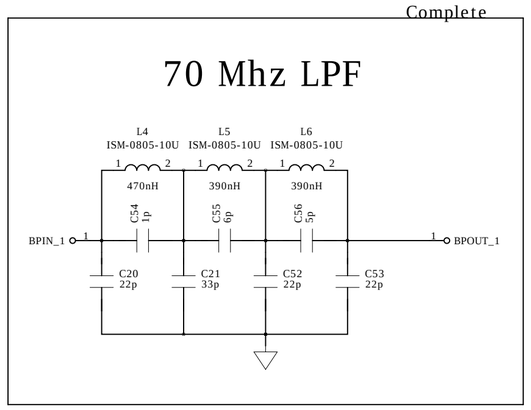

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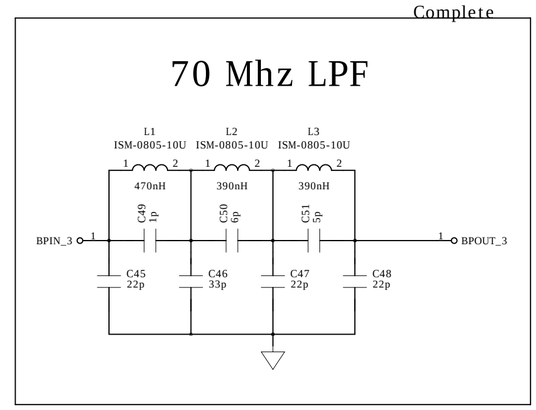

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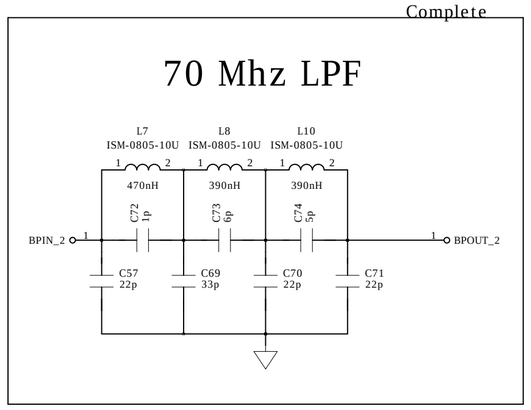

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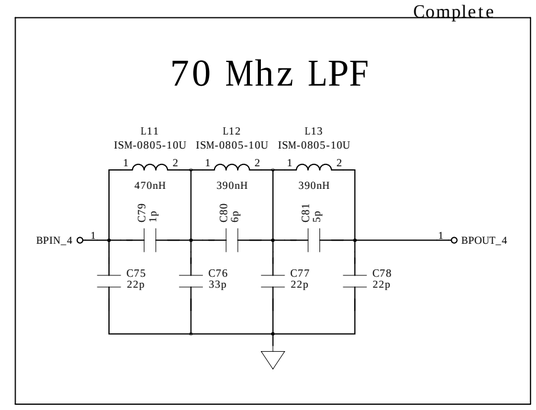

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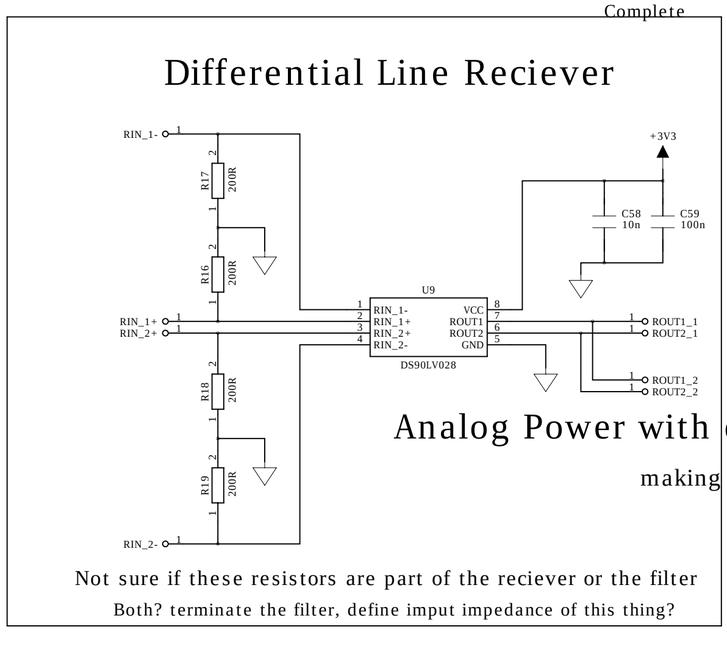

Analog Power with digital ground? That's not right

making it analog ground for now (or forever)

Not sure if these resistors are part of the reciever or the filter

Both? terminate the filter, define imput impedance of this thing?

We have a few places where we bias to 50%, might be better if they were joined.

Oops, never connected then EN/CAL line to the MCU. Just

Do I want analog or digital 3.3?