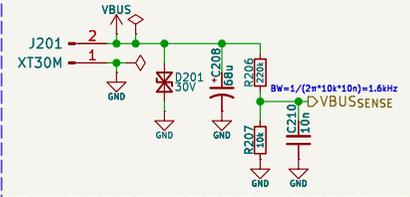


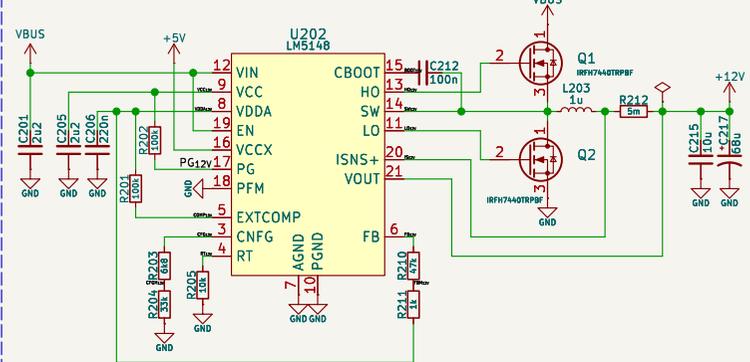
H101 MountingHole H102 MountingHole H103 MountingHole H104 MountingHole

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Title:			
Size: A4	Date:	Rev:	
KiCad E.D.A. 9.0.0		Id: 1/8	

1. Power Input



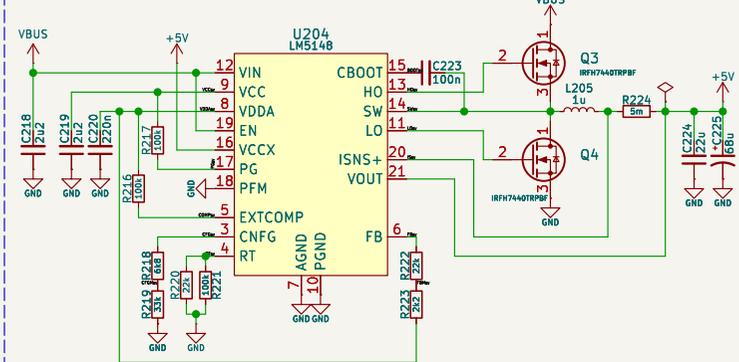
2. VBUS -> 12V (10A)



Capacitor C220 must be 50V rated.
Capacitor C224 must be 25V rated.

<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=E678646DBB1FE833>

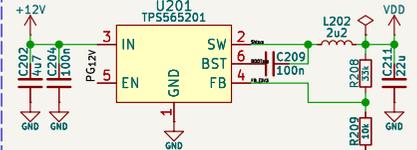
3. VBUS -> 5V (10A)



Capacitor C230 must be 50V rated.

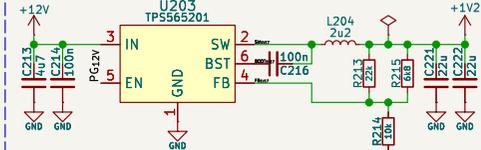
<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=7342800599CD0410>

4. 12V -> 3V3 (3A)



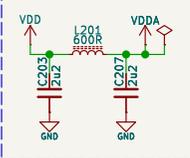
Capacitor C240 must be 25V rated.
<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=035FF5FE0213E1DC>

5. 12V -> 1V17 (5A)



Capacitor C250 must be 25V rated.
<https://webench.ti.com/appinfo/webench/scripts/SDP.cgi?ID=03B4689340FE5816>

6. 3V3 -> VDDA Filter



Sheet: /Power Board/
File: powerboard.kicad_sch

Title:

Size: A4

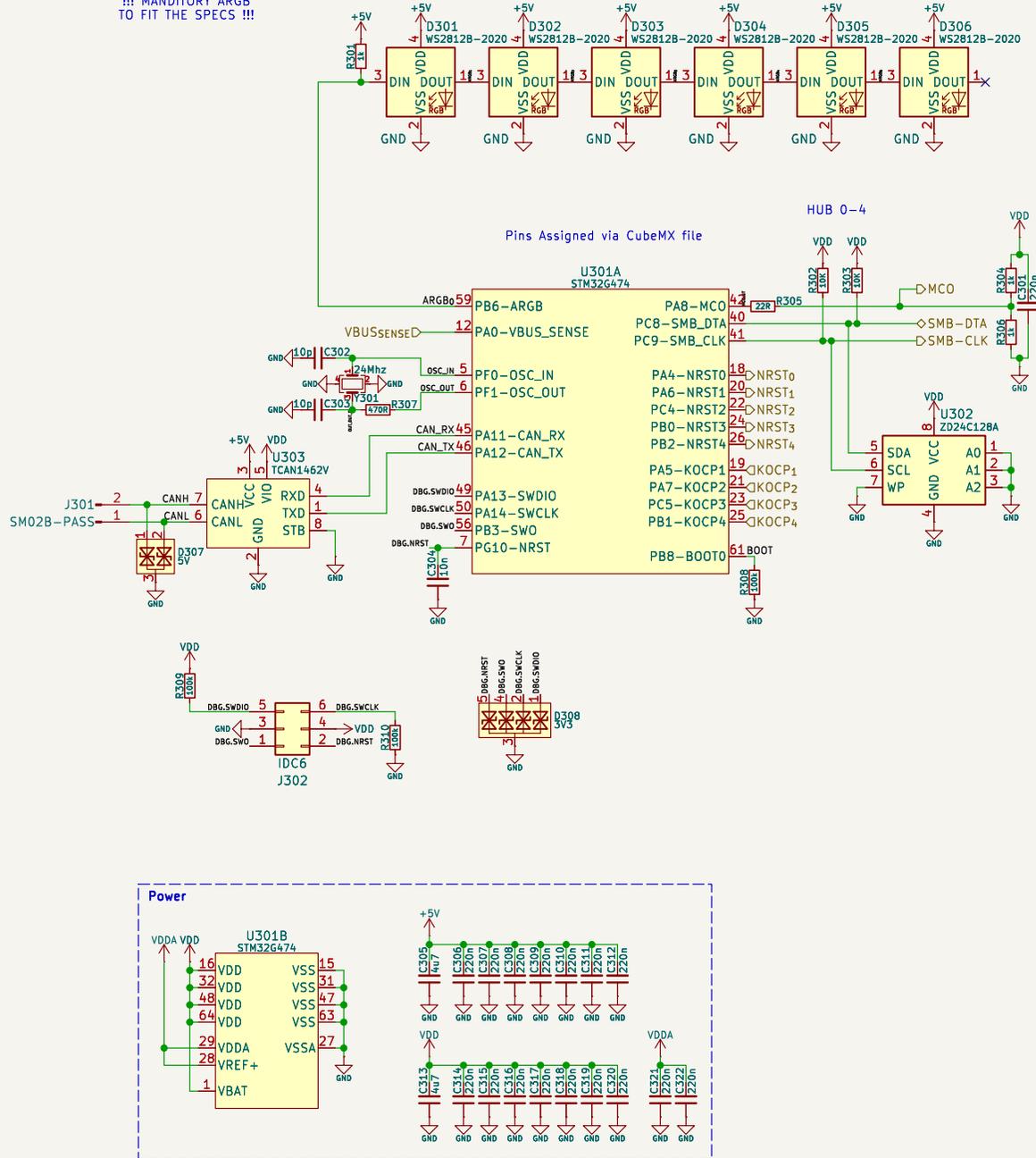
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KiCad E.D.A. 9.0.0

Rev:

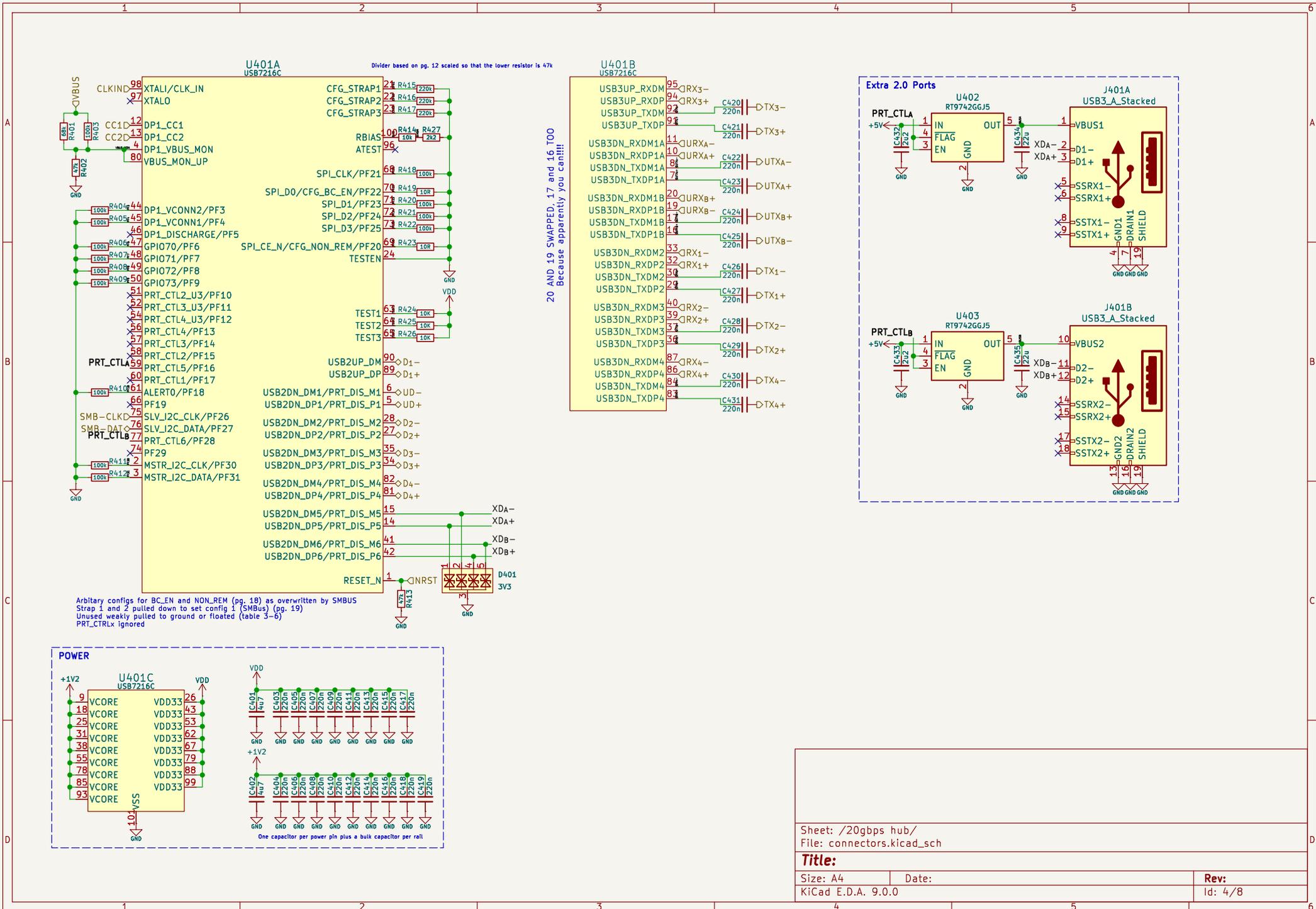
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!!! MANDATORY ARGB TO FIT THE SPECS !!!



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File: STM_memory.kicad_sch

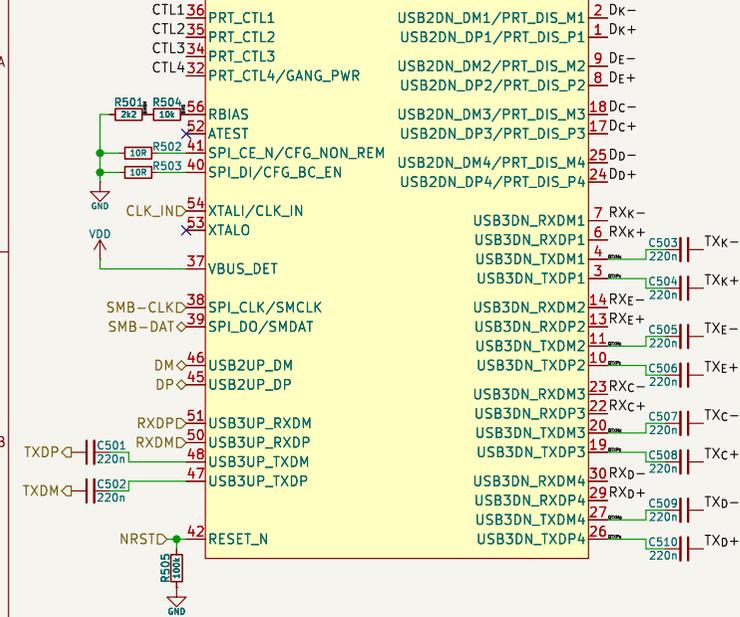
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KiCad E.D.A. 9.0.0	Rev: Id: 3/8



Sheet: /20gbps hub/
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Title:
 Size: A4 Date:
 KiCad E.D.A. 9.0.0 **Rev:**
 Id: 4/8

U501A
USB5744

Info on datasheet pages:
13 for pins
19 for connection
24 for further info

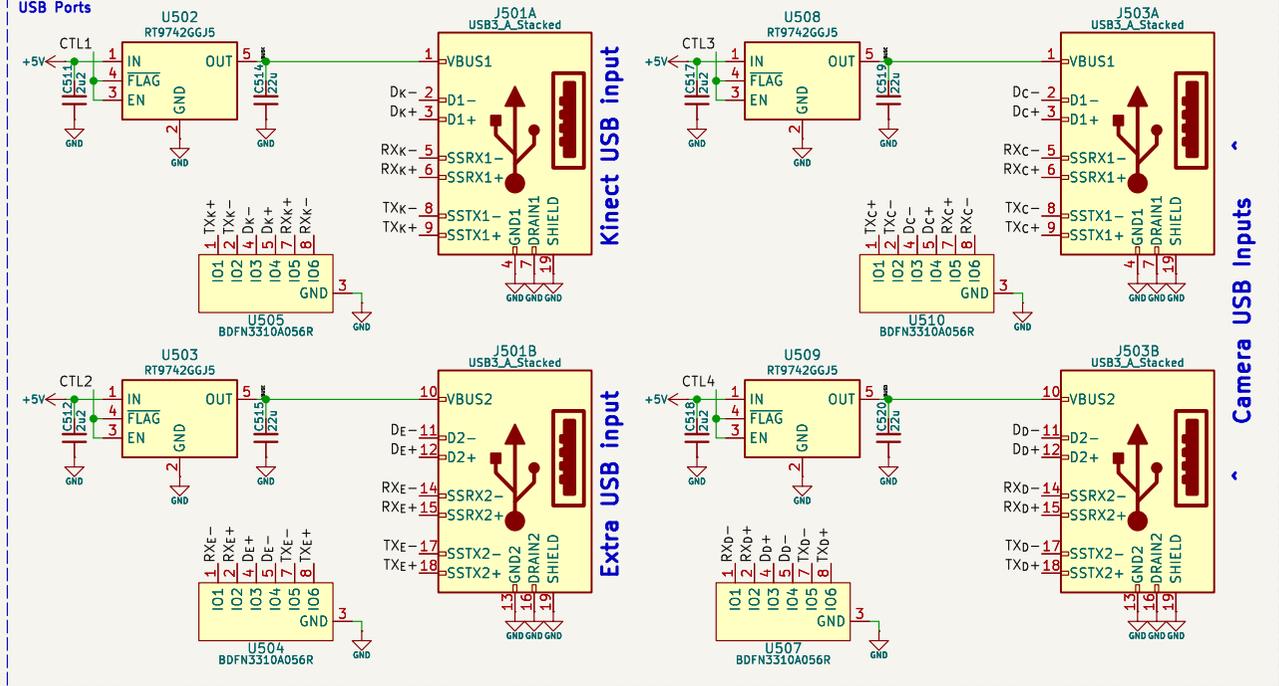


K: Kinectra

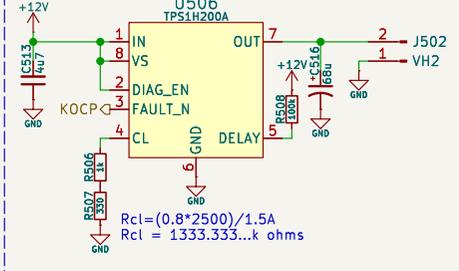
E: Extra

C: Camera

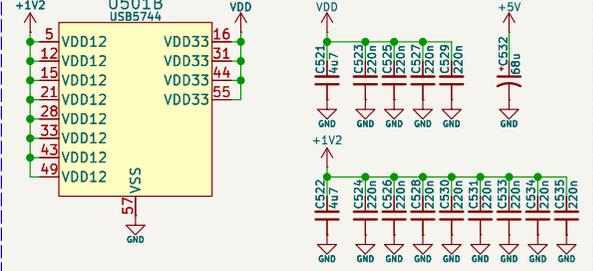
D: Damera



Kinect Power

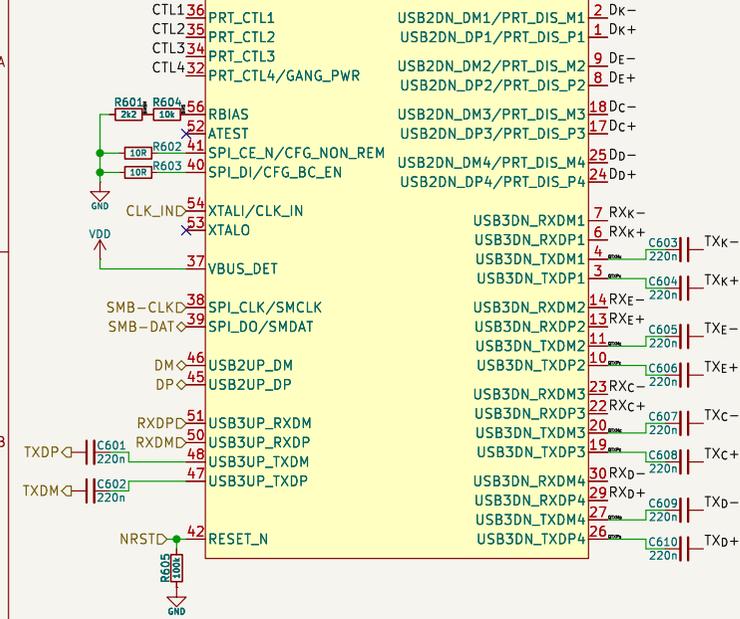


Power



U601A
USB5744

Info on datasheet pages:
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19 for connection
24 for further info

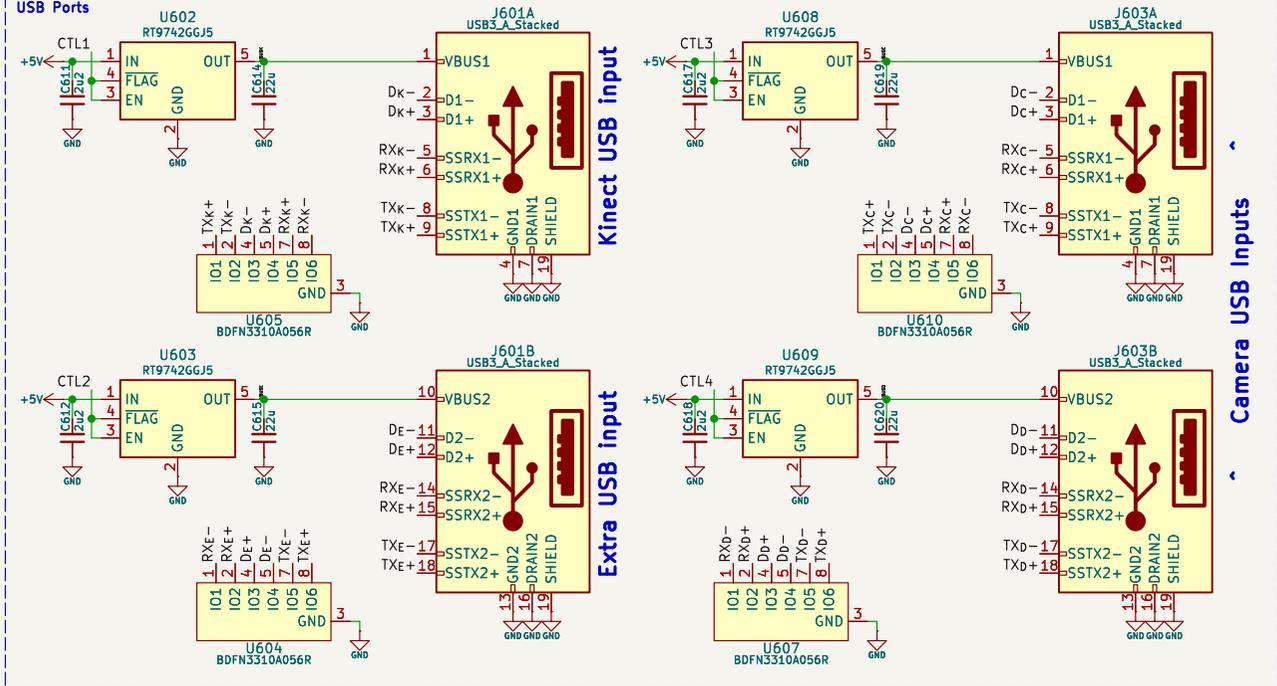


K: Kinectra

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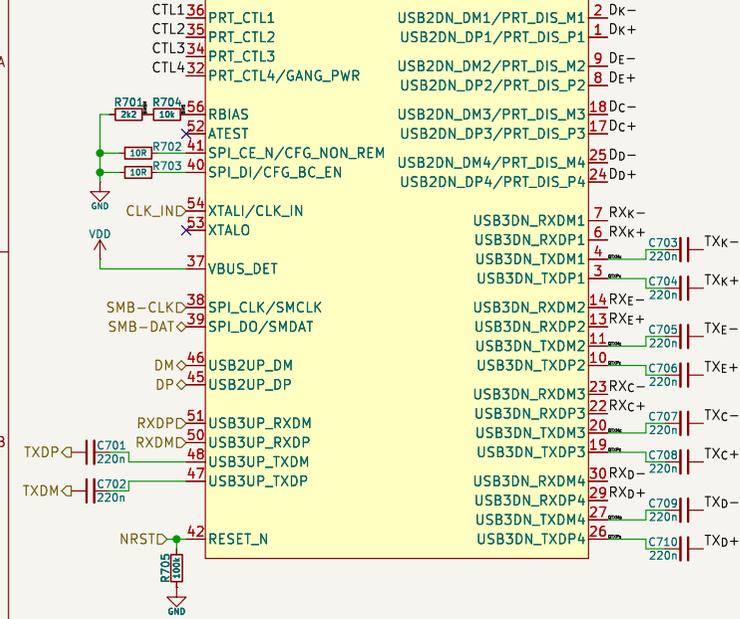
C: Camera

D: Damera



U701A
USB5744

Info on datasheet pages:
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19 for connection
24 for further info

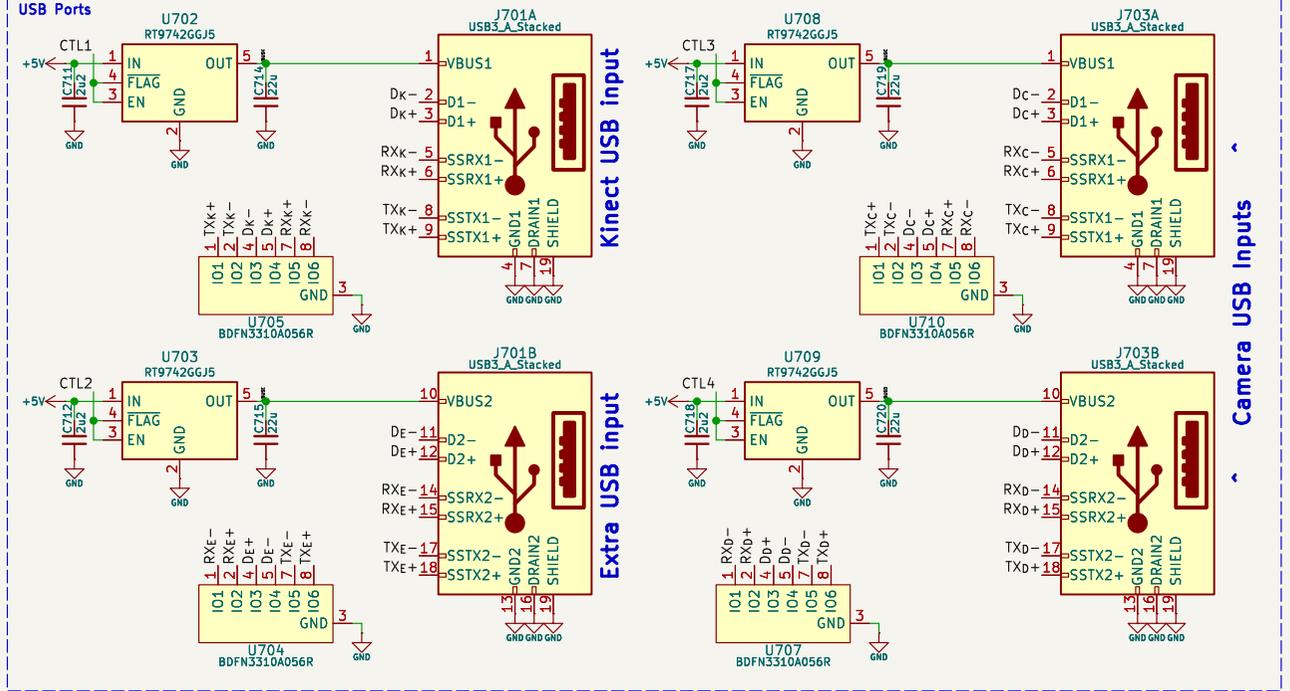


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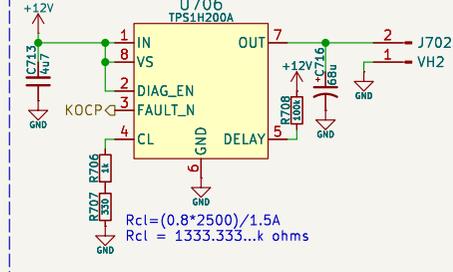
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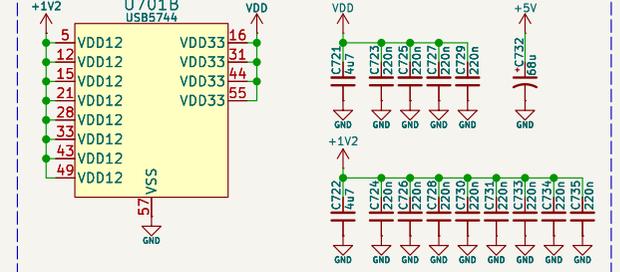
D: Damera



Kinect Power



Power



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File: usb-hub1.kicad_sch

Title:

Size: A4
KiCad E.D.A. 9.0.0

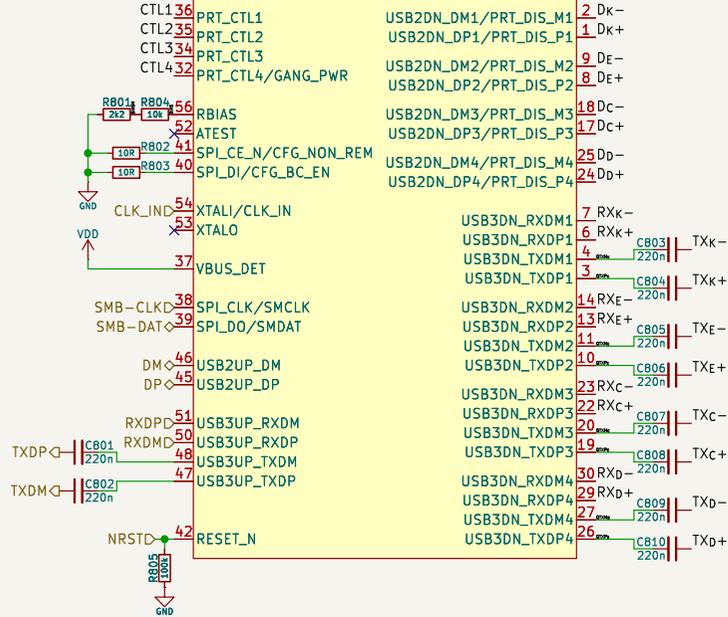
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Rev:

Id: 7/8

U801A
USB5744

Info on datasheet pages:
13 for pins
19 for connection
24 for further info

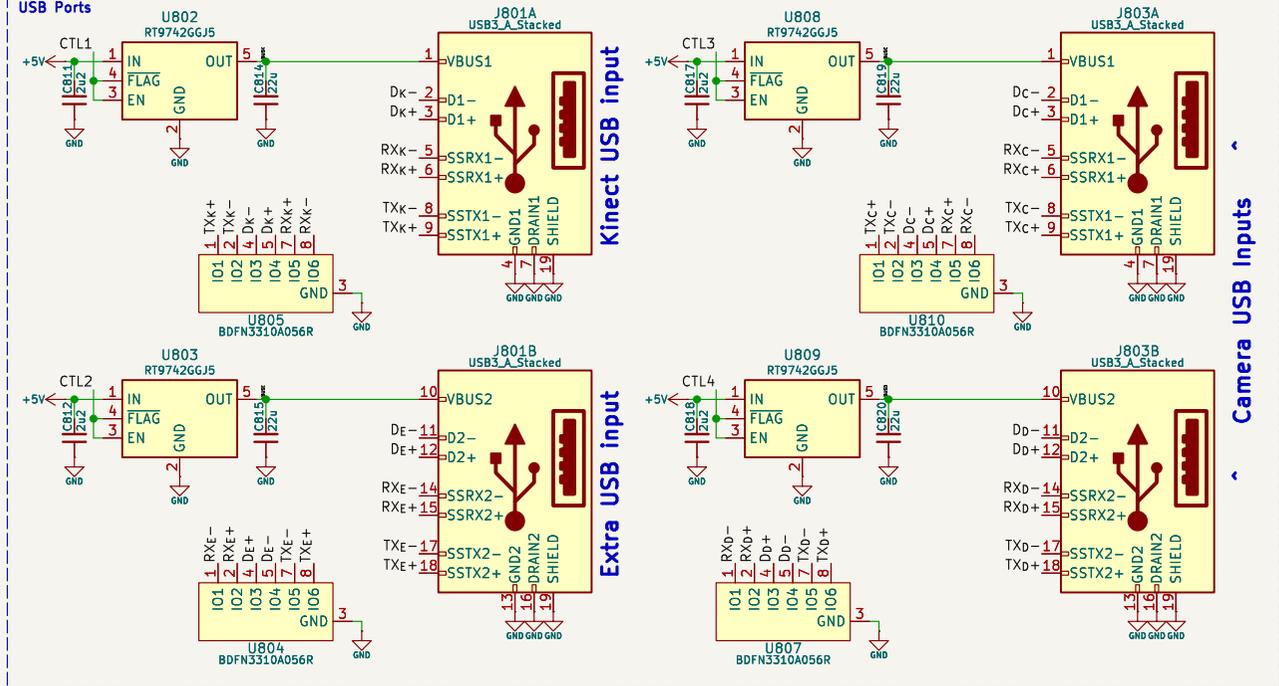


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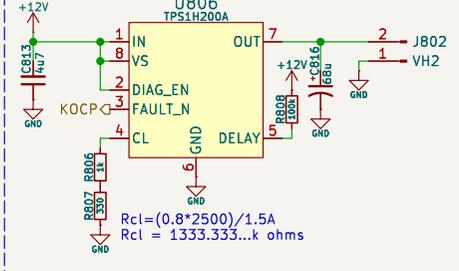
E: Extra

C: Camera

D: Damera



Kinect Power



$$R_{cl} = (0.8 \cdot 2500) / 1.5A$$

$$R_{cl} = 1333.333...k \text{ ohms}$$

Power

