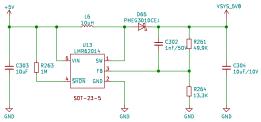
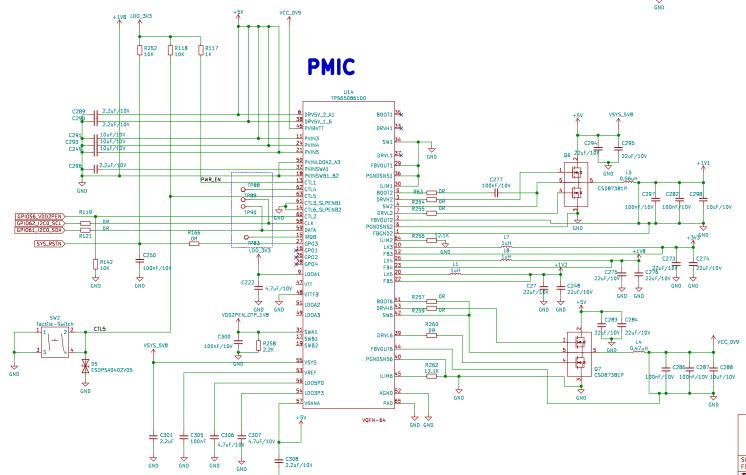


# Step-Up for PMIC



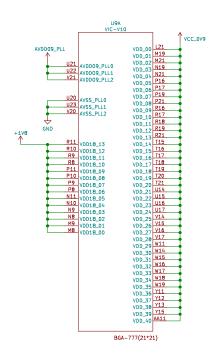


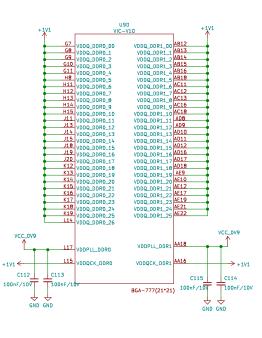
Sheet: /BeagleV PMIC/ File: BeagleV\_PMIC.kicad\_sch

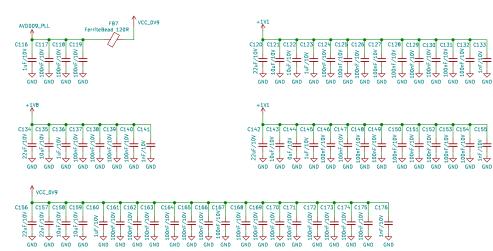
Title: Beagle V

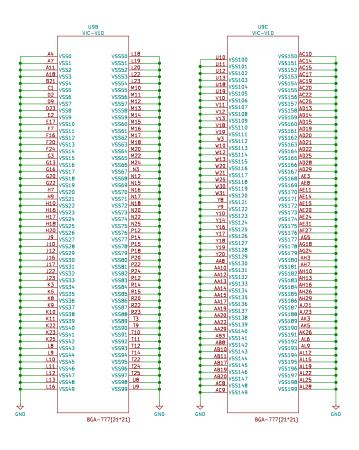
Size: A3 Date: 2021-06-03 KiCad E.D.A. kicad 5.99.0-unknown-a6c3d74a73125ubuntu20.04.1

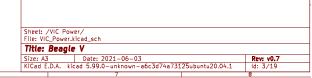
#### **VIC Power**



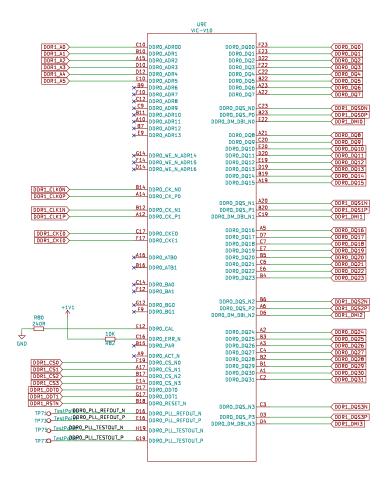








#### VIC DDR controller



BGA-777(21\*21) BGA-777(21\*21)

Sheet: /BeagleV VIC DDR Ctrl/				
File: BeagleV_VIC_DDR_Ctrl.kicad_sch				
Title: Beagle V				
Sîze: A3	Date: 2021-06-03	Rev: v0.7		
KiCad E.D.A. kic	ad 5.99.0-unknown-a6c3d74a73125ubuntu20.04.1	ld: 4/19		
	7	8		

AG16 DDR1\_ADR00 AJ18 DDR1\_ADR1

AJ16 DDR1\_ADR2
AF14 DDR1\_ADR3

AL14 DDR1\_ADR4
AG14 DDR1\_ADR5
AF13 DDR1\_ADR6

AH14 DDR1\_ADR7 AK14 DDR1\_ADR8

AE13 DDR1\_ADR9 AJ14 DDR1\_ADR10 AL13 DDR1\_ADR11 AJ13 DDR1\_ADR11 AJ13 DDR1\_ADR12 AK12 DDR1\_ADR13

AK18 DDR1\_CK\_NO DDR1\_CK\_PO

AK16 DDR1\_CK\_N1

AL16 DDR1\_CK\_P1

AG23 DDR1\_CKED

AJ24 DDR1\_CKE1

AK21 DDR1\_ATB0

AL21 DDR1\_ATB1

AL20 DDR1\_BA0 DDR1\_BA1

AE16 DDR1\_BG0

AJ12 DDR1\_BG1

AG20 DDR1\_CAL

AJ20 DDR1\_ERR\_N AH18 DDR1\_PAR

AK13 DDR1\_ACT\_N

AK23 DDR1\_C5\_NO

AH21 DDR1\_CS\_N0 AH21 DDR1\_CS\_N1 AH20 DDR1\_CS\_N2 AF20 DDR1\_CS\_N3 AH24 DDR1\_DDT0

AH23 DDR1\_DDT1

AL23 DDR1\_RESET\_N

| DDR1\_SSTN | DDR1\_PLL\_REFOUT\_N | A721 | DDR1\_PLSET\_LN | DDR1\_PLL\_REFOUT\_N | A721 | DDR1\_PLL\_REFOUT\_N | DDR1\_PLL\_REFOUT\_N | DDR1\_PLL\_REFOUT\_N | A721 | DDR1\_

AF18 DDR1\_WE\_N\_ADR14 AE18 DDR1\_WE\_N\_ADR15 AK20 DDR1\_WE\_N\_ADR16

DDR1\_A1 DDR1\_A2 DDR1\_A3

DDR1\_CKEO

Ro± 240R GND

DDR1\_CS0 DDR1\_CS1 DDR1\_CS2 DDR1\_CS3 DDR1\_DDT0

DDR1\_ODT1

DDR1\_DQ00 AF29

DDR1\_DQ1 DDR1\_DQ2

DDR1\_DQ3 DDR1\_DQ3 AF30 AJ29

DDR1\_DQ5 DDR1\_DQ6 AL30

DDR1\_DQ7 AL29

DDR1\_DDB AF26

DDR1\_DQ9 AH27 DDR1\_DQ10 AG27

DDR1\_DQ11 AG26

DDR1\_DQ12 AL27

DDR1\_DQ13 AL26

DDR1\_DQ14 DDR1\_DQ15 AF23

DDR1\_DQS\_N1 DDR1\_DQS\_P1

DDR1\_DQ16 DDR1\_DQ17 AK11 DDR1\_DQ18 AL10 DDR1\_DQ19

DDR1 DQ20 AG10

DDR1\_DQ21 AH11 DDR1\_DQ22 AF11

DDR1\_DQ23 AF10

DDR1\_DQS\_N2 AX10 DDR1\_DQS\_P2 AK10

DDR1\_DQ24 AL8

DDR1\_DQ24 DDR1\_DQ25 DDR1\_DQ26 DDR1\_DQ27

DDR1\_DQ28 AF8

DDR1\_DQ29 AG8

DDR1\_DQ30 AG7 DDR1\_DQ31 AF7

DDR1\_DQS\_N3 AK7

DDR1\_DQS\_P3 AJ7

DDR1\_DM\_DBI\_N3 AHB

DDR1\_DM\_DBI\_N2 AG11

DDR1\_DM\_DBI\_N1 AJ26

DDR1\_DQS\_N0 DDR1\_DQS\_P0 AK30 DDR1\_DM\_DBI\_N0

DDR1\_DQ6

DDR1\_DQ15

DDR1\_DQ16 DDR1\_DQ17 DDR1\_DQ18 DDR1\_DQ19

DDR1\_DQ20 DDR1\_DQ21

DDR1\_DQ24 DDR1\_DQ25 DDR1\_DQ26 DDR1\_DQ27 DDR1\_DQ28 DDR1\_DQ29 DDR1\_DQ30 DDR1\_DQ31

DDR1\_DQS1N DDR1\_DQS1P

DDR1\_DMI1

DDR1\_DQ52N DDR1\_DQ52P

DDR1\_DMI2

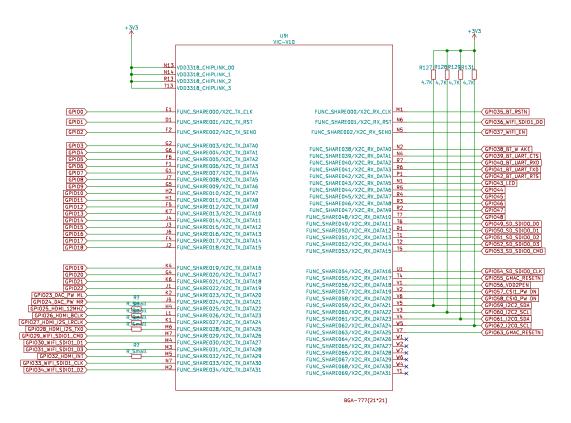
DDR1\_DQS3N

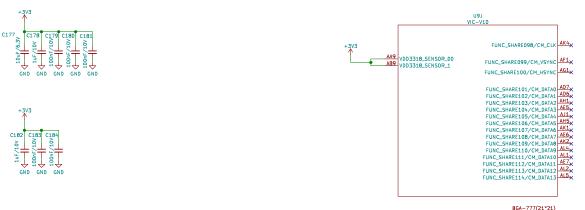
ODR1\_DQS3P

DDR1\_DMI3

DDR1\_DQSOP

#### VIC 3.3V GPIOs





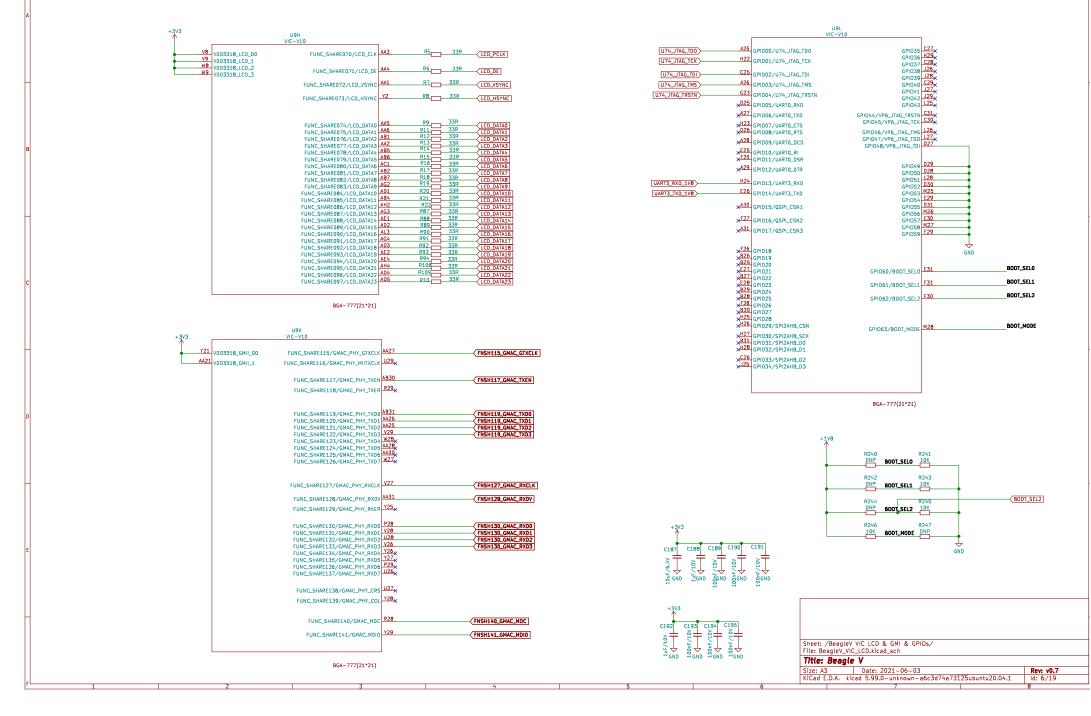
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Title: Beagle V

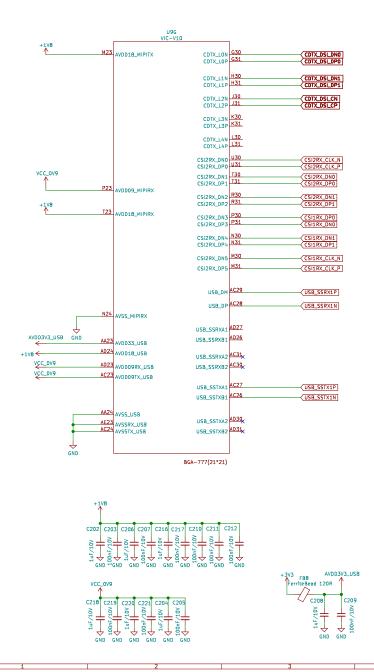
 Size: A3
 Date: 2021-06-03
 Rev: v0.7

 KiCad E.D.A. kicad 5.99.0-unknown-a6c3d74a73125ubuntu20.04.1
 ld: 5/19

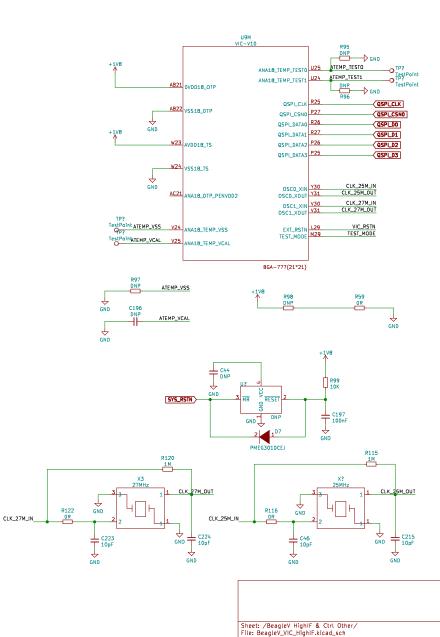
#### VIC LCD&RGMII



#### VIC MIPI&USB



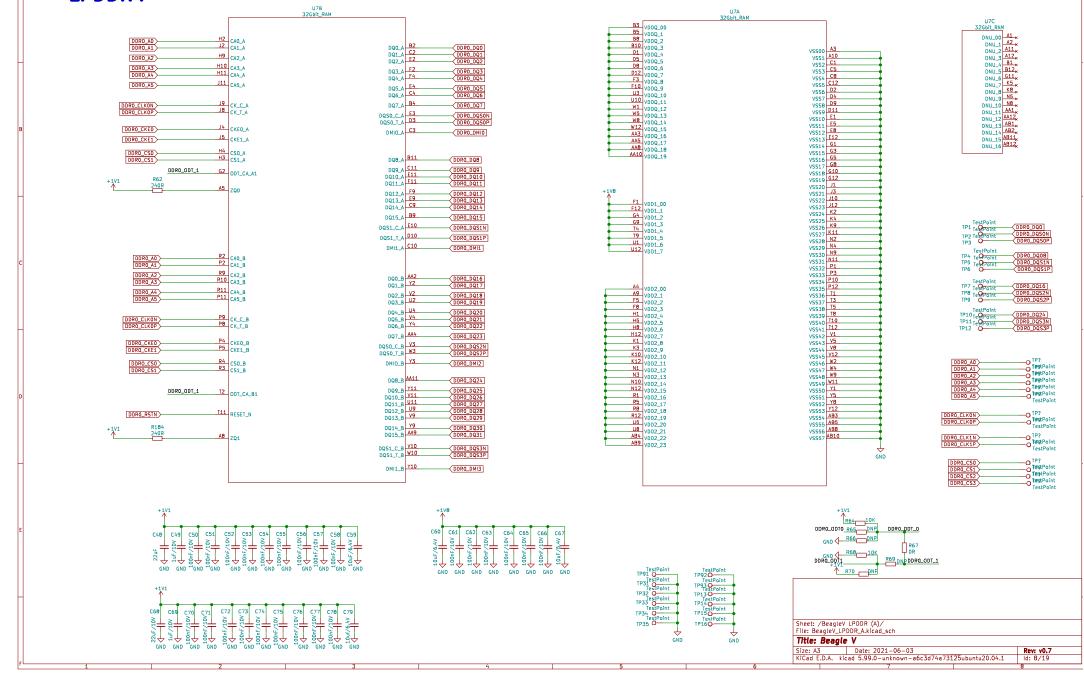
#### **VIC CLOCK**

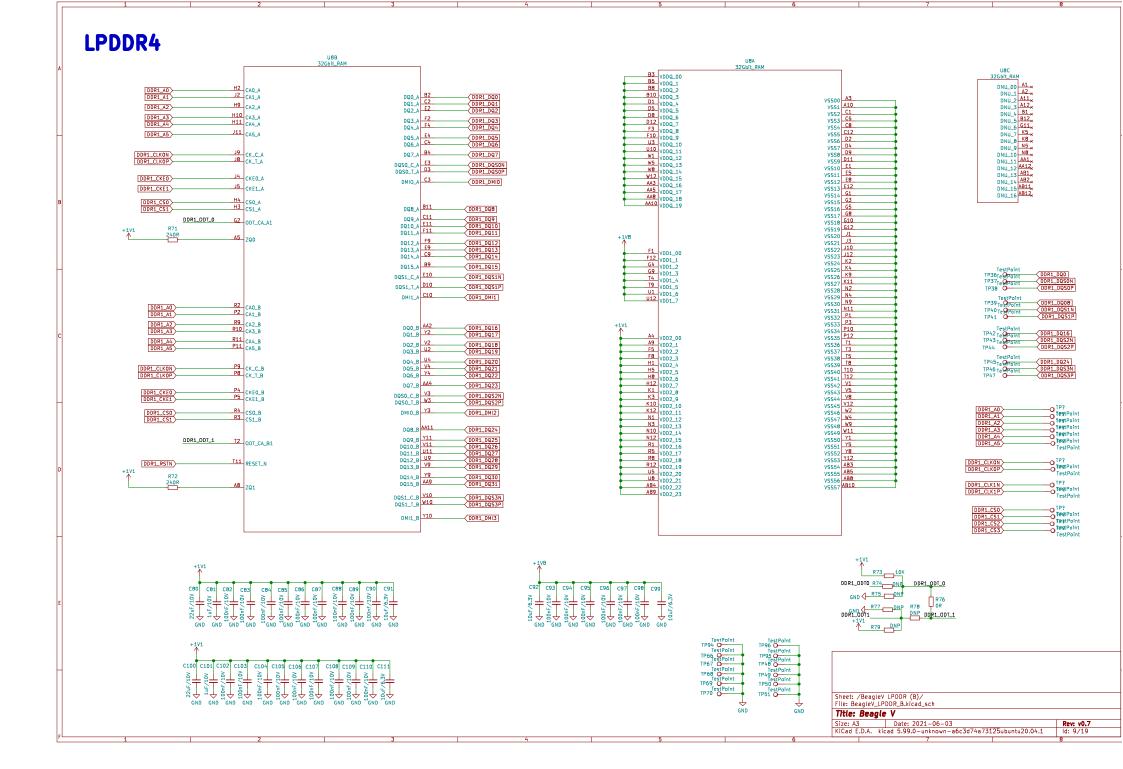


Title: Beagle V

Size: A3 Date: 2021-06-03 KiCad E.D.A. kicad 5.99.0-unknown-a6c3d74a73125ubuntu20.04.1

#### LPDDR4

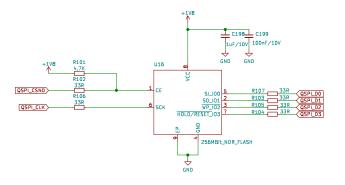


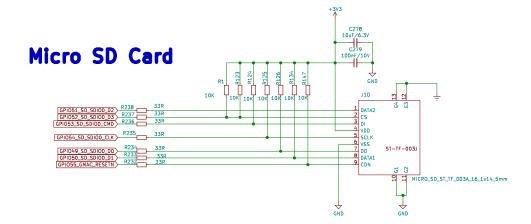


# **USB Type-C Power**

#### 133 USB\_TYPE\_C A4/89/VBUS B2 A7/84/VBUS B2 A7/8

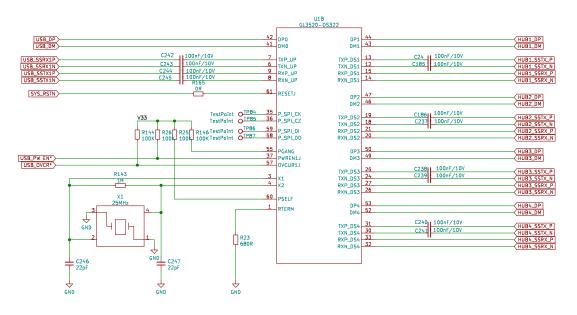
### Nor Flash For Boot

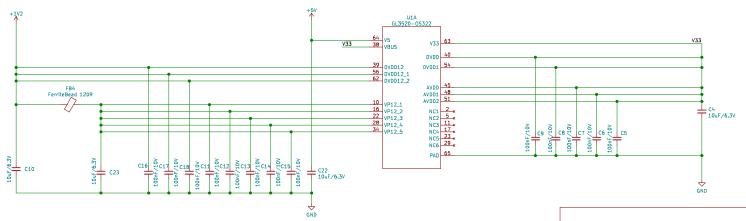




Sheet: /BeagleV Type C, uSD, QSIP Flash/ File: BeagleV_Type_C_uSD.kicad_sch		
Title: Beagle V		
Sîze: A3 Date: 2021-06-03	Rev: v0.7	
KiCad E.D.A. kicad 5.99.0-unknown-a6c3d74a73125ub	untu20.04.1   ld: 10/19	

# USB 3.0 HUB TBD

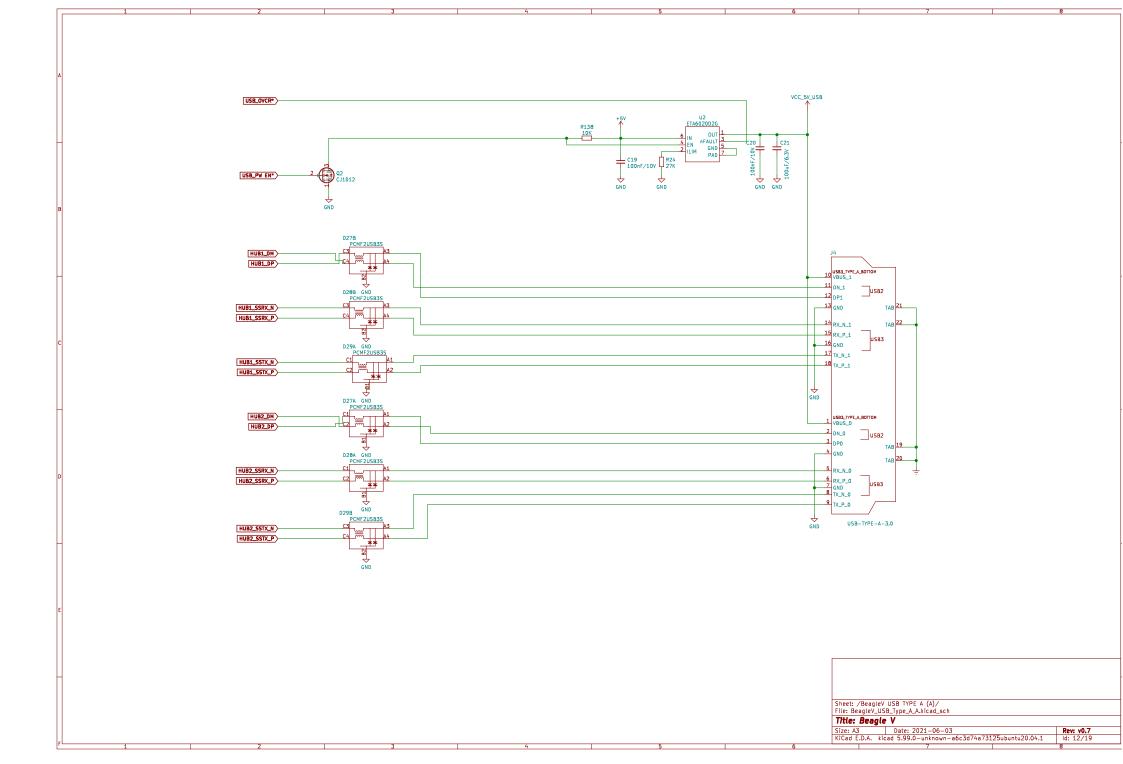


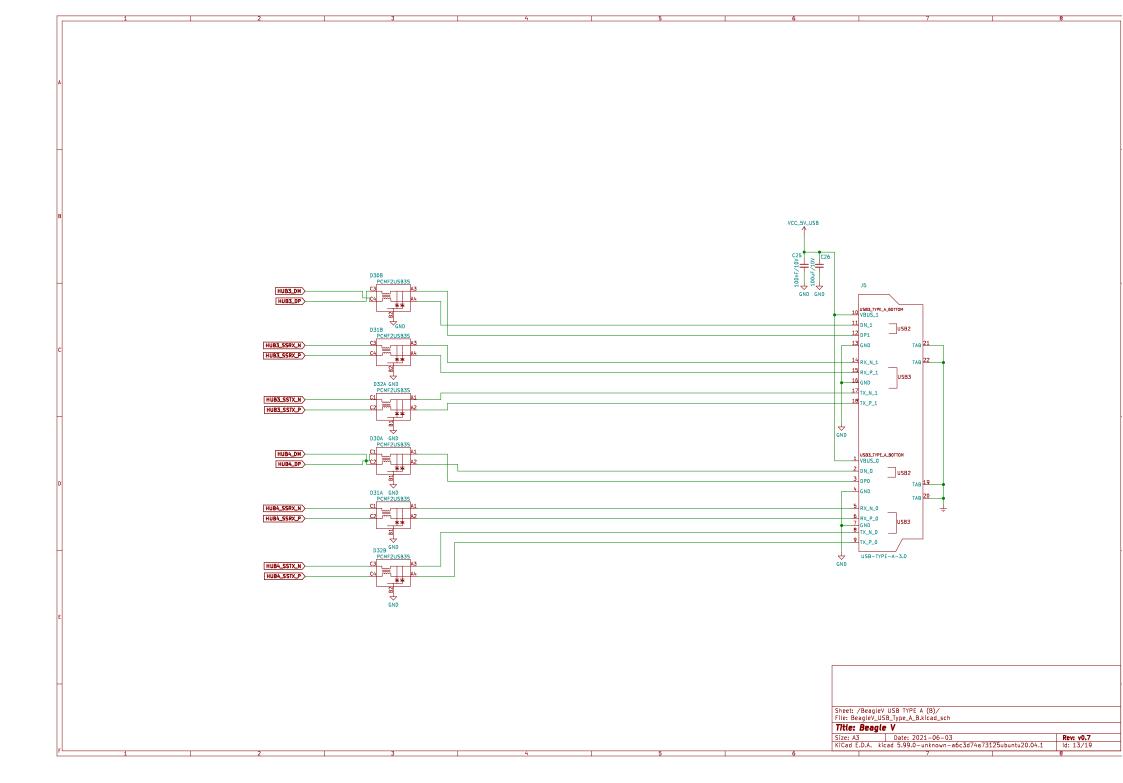


Sheet: /BeagleVUSB 3.0 HUB/ File: BeagleV\_USB\_3\_HUB.kicad\_sch

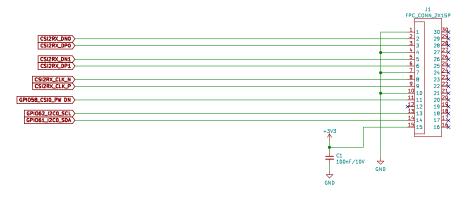
Title: Beagle V

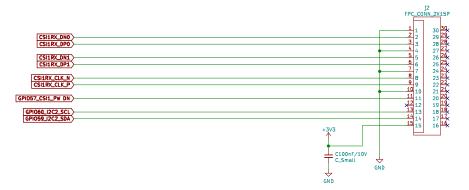
| Size: A3 | Date: 2021-06-03 | | KiCad E.D.A. kicad 5.99.0-unknown-a6c3d74a73125ubuntu20.04.1 |





# **CAMERA CONNECTOR**

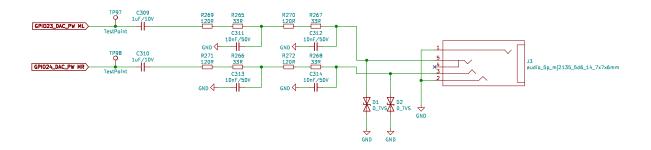




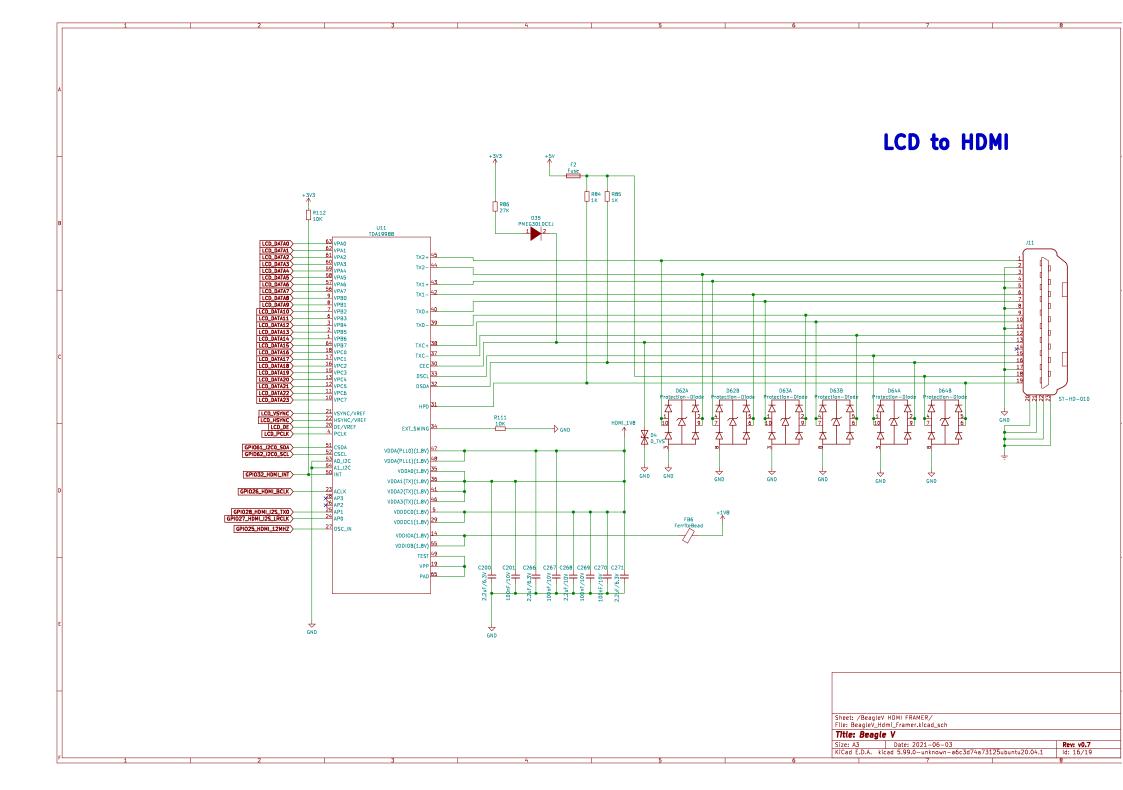
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Title: Beagle V	
Size: A3 Date: 2021-06-03	Rev: v0.7
KiCad E.D.A. kicad 5.99.0-unknown-a6c3d74a73125ubuntu20.04.1	ld: 14/19

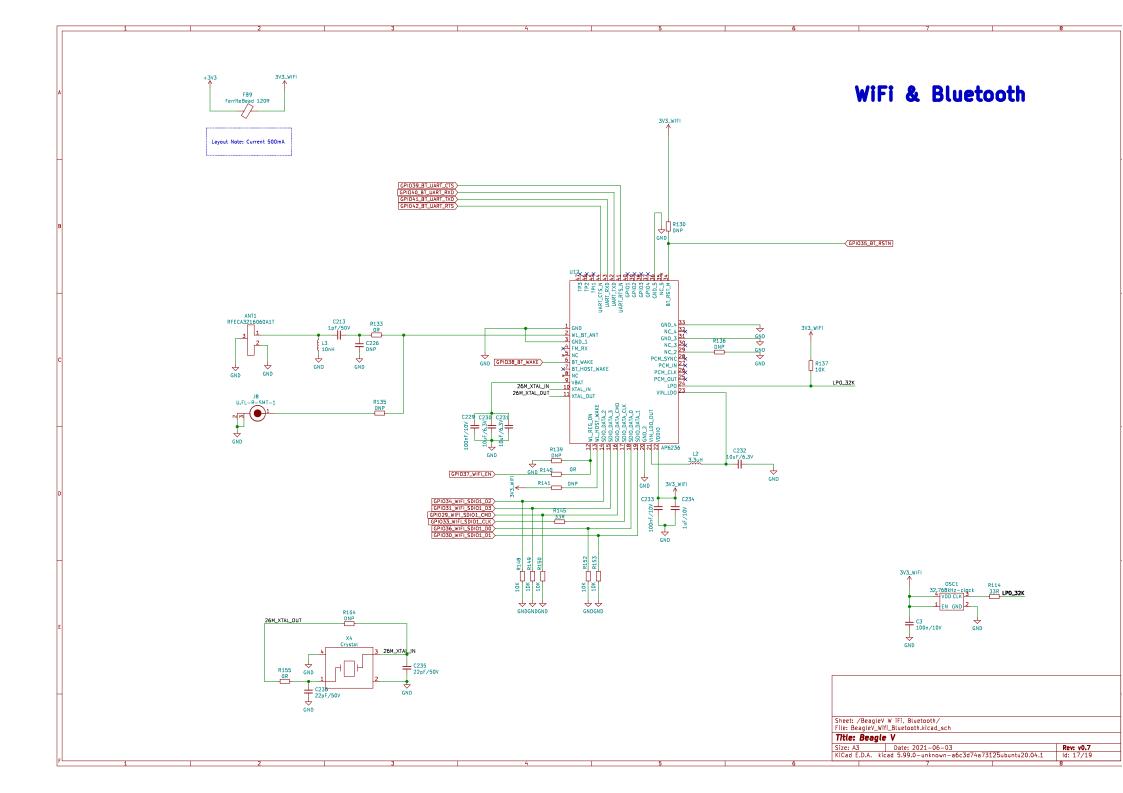
# 

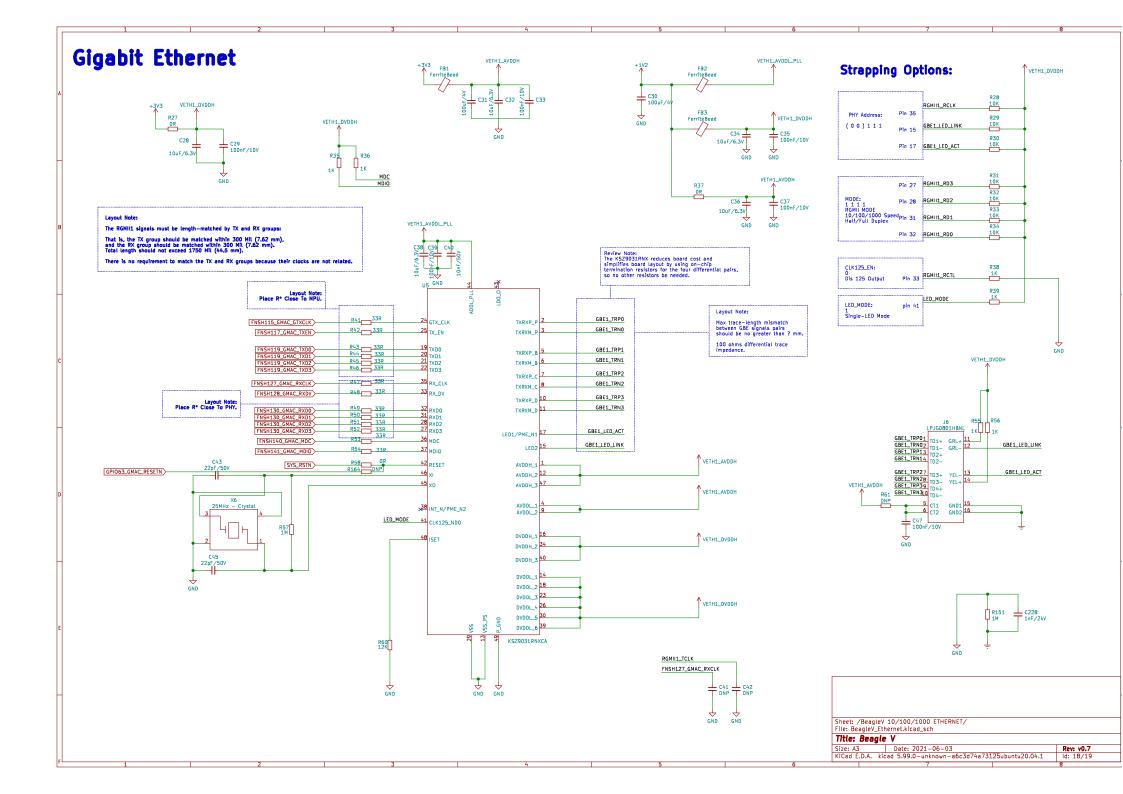
### **AUDIO**



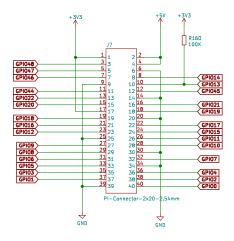
eV DSI, AUDID JACK∕ DSI_Audio.kicad_sch		
DSI_Audio.kicad_sch		
Title: Beagle V		
Date: 2021-06-03	Rev: v0.7	
kicad 5.99.0-unknown-a6c3d74a73125ubuntu20.04.1	ld: 15/19	
	Date: 2021-06-03	



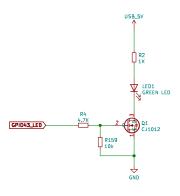


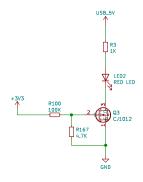


### PI Connector

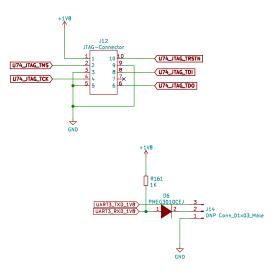


### **ACK&Power LEDs**

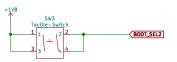




# JTAG 1V8 for Tag-Connect cable



### **Boot from UART**



	RPI EXP CONN, LED, BUTTON/ I_Conn.kicad_sch	
Title: Beagle		
Sîze: A3	Date: 2021-06-03	Rev: v0.7
KiCad E.D.A. kid	ad 5.99.0-unknown-a6c3d74a73125ubuntu20.04.1	ld: 19/19