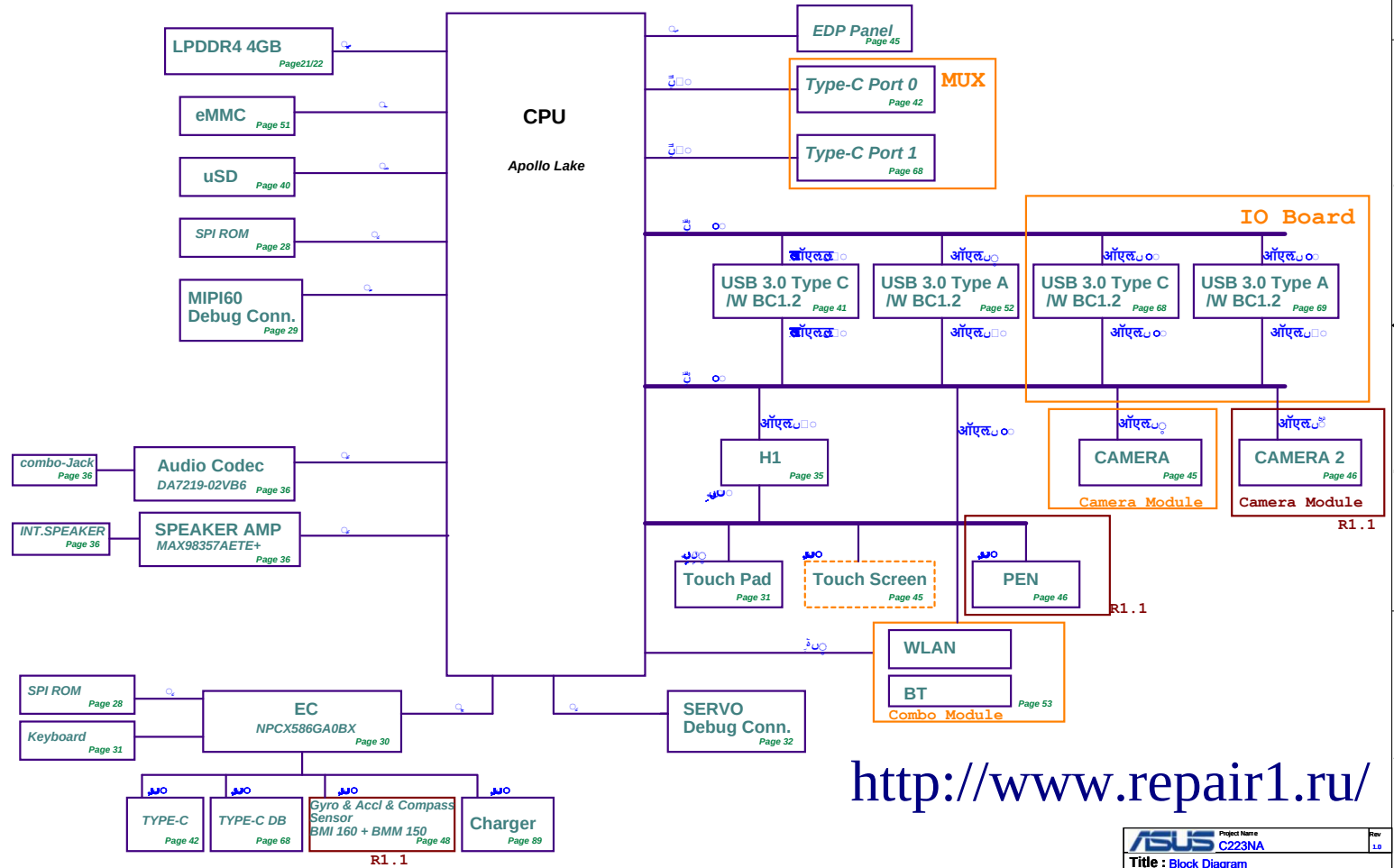


SYSTEM PAGE REF.

PAGE	Content
1	Block Diagram
2	Sku Table/BOM Option
3	Power Flow Chart
5	CPU LPDDR4
6	CPU_DISPLAY
7	CPU_SDIO/EMMC
8	CPU_USB3/PCIE
9	CPU_SATA/PCIE/USB
10	CPU_I2S/LPC/CLOCKS
11	CPU_SVID/SMBUS/USB2
12	CPU_SPI/I2C
13	CPU_PMU/UART
14	CPU_GPIO
15	CPU_RTC/PWM
16	CPU_RCOMP
17	CPU_DECOUPLING
18	CPU_GND
19	CPU_POWER
21	LPDDR4_CH0
22	LPDDR4_CH1
28	SPI ROM
29	MIPI60 Debug
30	EC_NPCX586GA0BX
31	KB_TP
32	SERVO Debug
34	INAs
35	H1_SECURE
36	Audio Codec_DA7219
40	uSD
41	Type-C MUX
42	Type-C PWR
43	Type-C Conn
44	Type-A Conn
45	EDP/CAM/TCH
46	PEN/CAM2
48	GYRO+ACCEL+COMPASS/LED
49	EMI
51	eMMC
52	Type-A Conn
53	WLAN
60	Battery Conn
61	B-to-B Conn
65	SCREW HOLE
67	IO_B-to-B Conn
68	IO_TypeC
69	IO_TypeA
80	POWER-PMIC LOGIC
81	POWER-PMIC RAILS
83	POWER-LOAD SWITCHES
87	PW_+3VADSW/+5VSUS
89	POWER-CHARGER

BLOCK DIAGRAM

C223NA/C423NA/C523NA SCHEMATIC Revision 1.2



<http://www.repair1.ru/>

Function options		
Touch screen	/touch screen	STUFF
	/touch screen@	DO NOT STUFF
H1 SuzyQ	/H1_Debug	STUFF
IO_TypeA	/IO_TypeA	STUFF
	/IO_TypeA@	DO NOT STUFF
Gyro+Accel	/Gyro+Accel	STUFF
	/Gyro+Accel@	DO NOT STUFF
MIPI60	/MIPI60	STUFF
	/MIPI60@	DO NOT STUFF
ME_PWRBTN	/Mech_PWRBTN	STUFF
INAS	/INAS	STUFF
SERVO Board	/SERVO	STUFF
Convertible	/Flip	STUFF
2ND camera	/C-PANEL CAMERA	STUFF
Pen sensor	/PEN	

Function options table

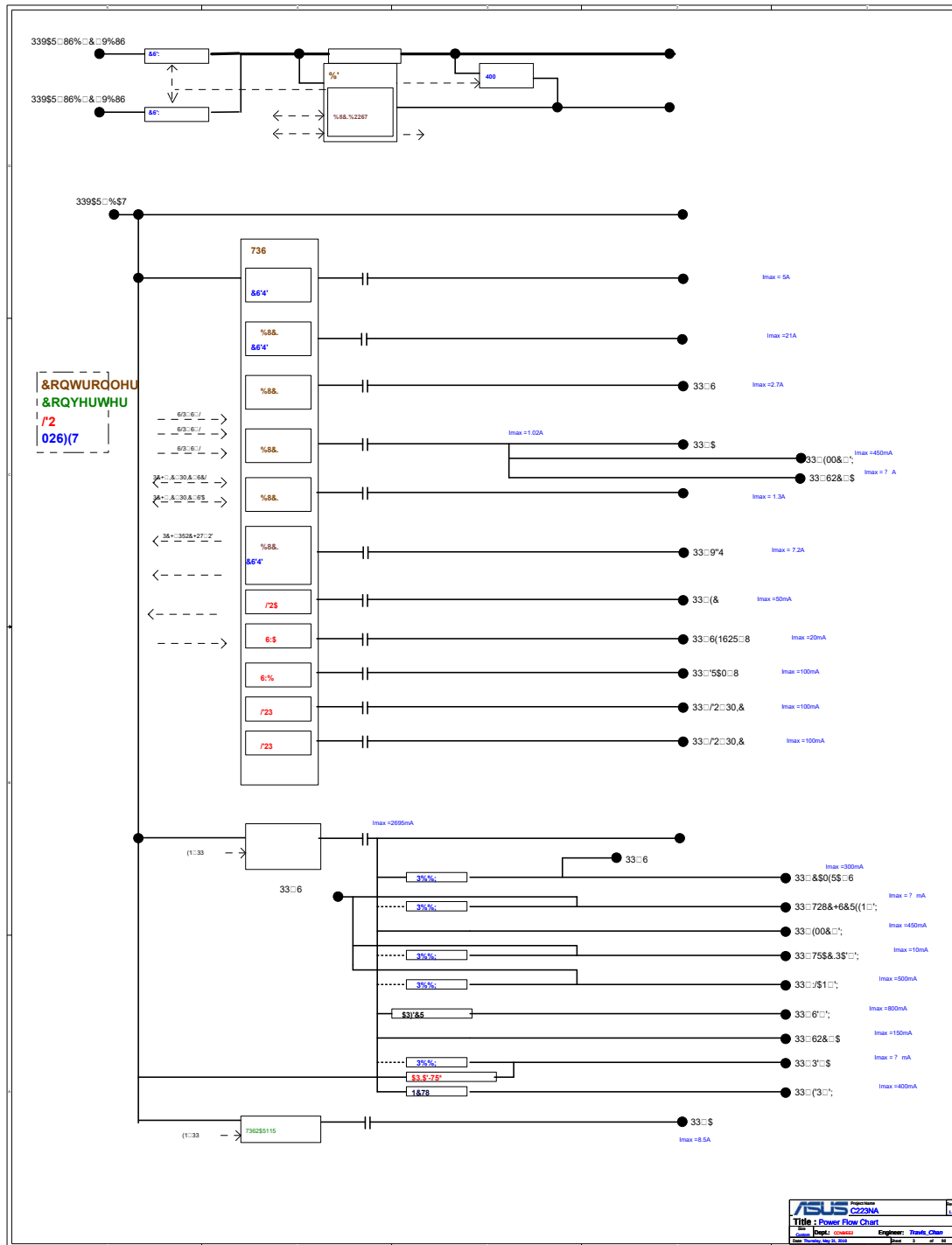
C223NA	C423NA	C523NA
-----STUFF-----		
N/A	N/A	N/A
/EMI	/EMI	/EMI
/SERVO	/SERVO	/SERVO
/H1_Debug	/H1_Debug	/H1_Debug
/INAS	/INAS	/INAS
/MIPI60	/MIPI60	/MIPI60
/Mech_PWRBTN	/Mech_PWRBTN	/Mech_PWRBTN
	/IO_TypeA	/IO_TypeA
	/touch screen (If need)	

C223NA/C423NA/C523NA
BOM option table (NPI)

C223NA	C423NA	C523NA
-----STUFF-----		
N/A	N/A	N/A
/EMI	/EMI	/EMI
/SERVO	/SERVO	/SERVO
/H1_Debug	/H1_Debug	/H1_Debug
/INAS	/INAS	/INAS
/MIPI60	/MIPI60	/MIPI60
/Mech_PWRBTN	/Mech_PWRBTN	/Mech_PWRBTN
	/IO_TypeA	/IO_TypeA
	/touch screen (If need)	

C223NA/C423NA/C523NA
BOM option table (R1.1)

http://www.repair1.ru/



<http://www.repair1.ru/>

5					4					3					2					1				
D																								
C																								
B																								
A																								
5					4					3					2					1				

ASUS

Project Name

C223NA

Rev

1.0

Title :

Size

B

Dept.: CCNB/EE2

Engineer: Travis Chan


Date: Thursday, May 31, 2018

Sheet

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of

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		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.:		Engineer:	
B	CCNB/EE2		Travis_Chan	
Date: Thursday, May 31, 2018			Sheet	4 of 99

CHA: LPDDR4



CHB:LPDDR4

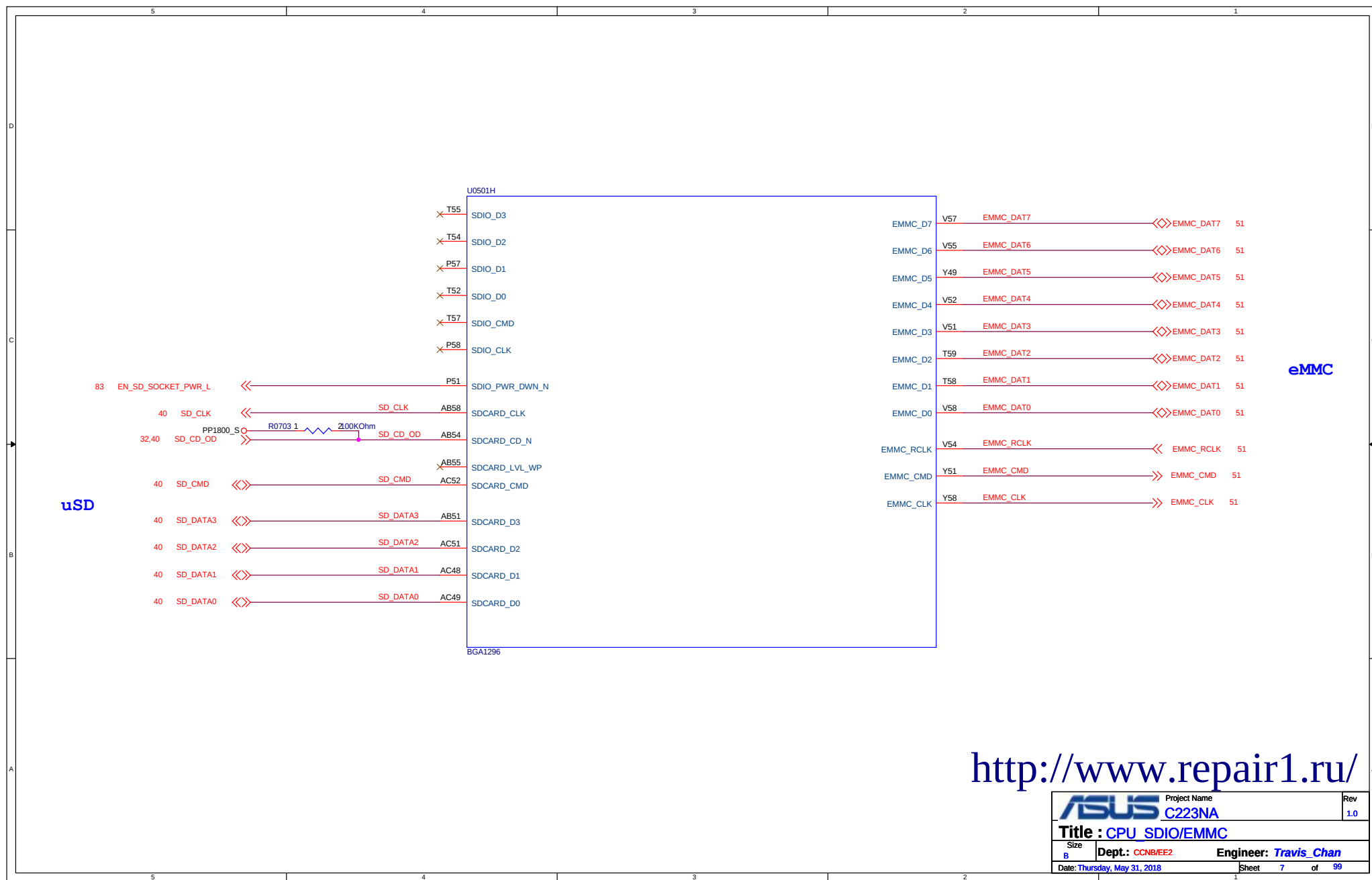


EDP

Display DDI 0
Type-C PORT 0

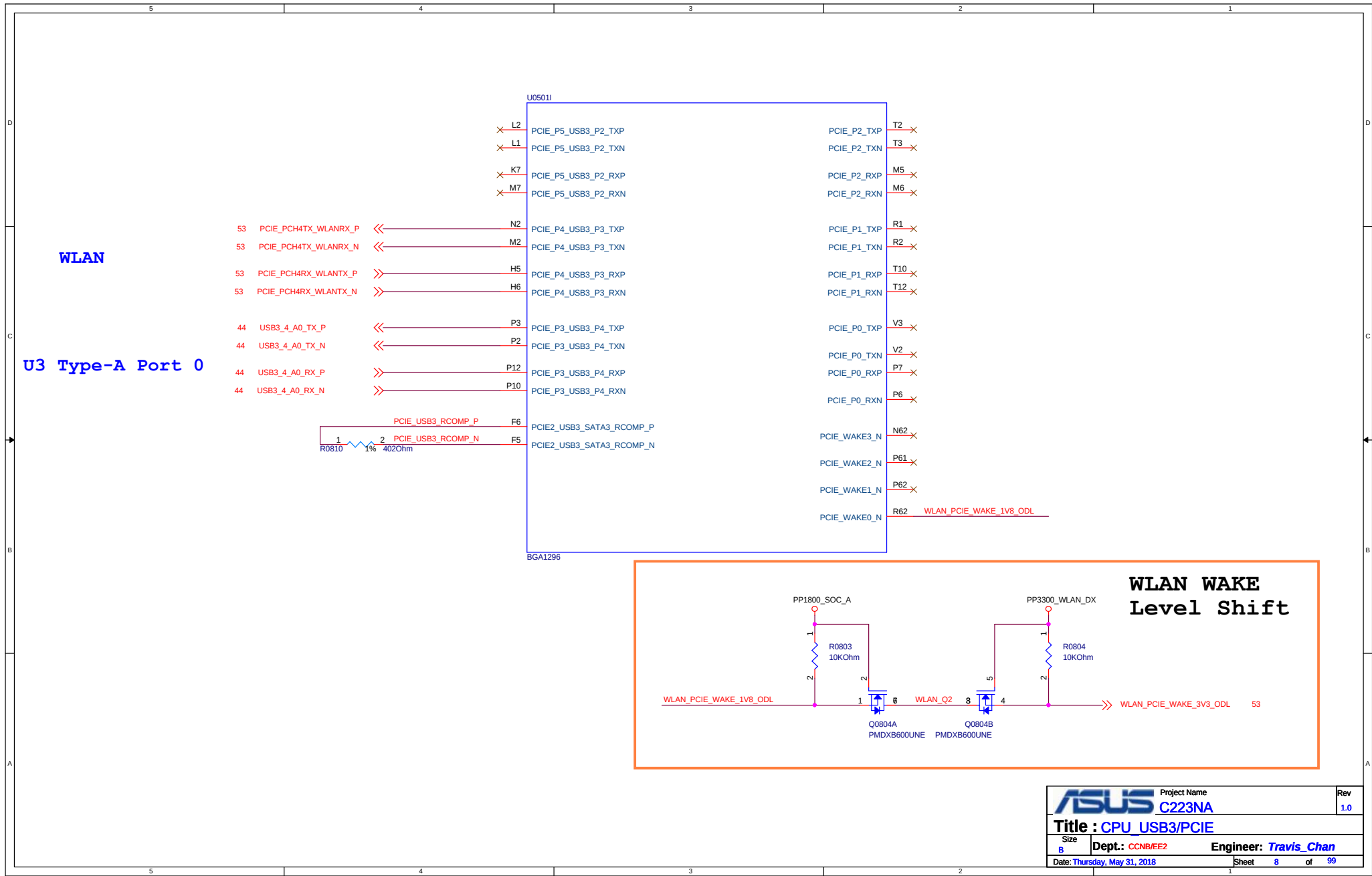
Display DDI 1
Type-C Port 1

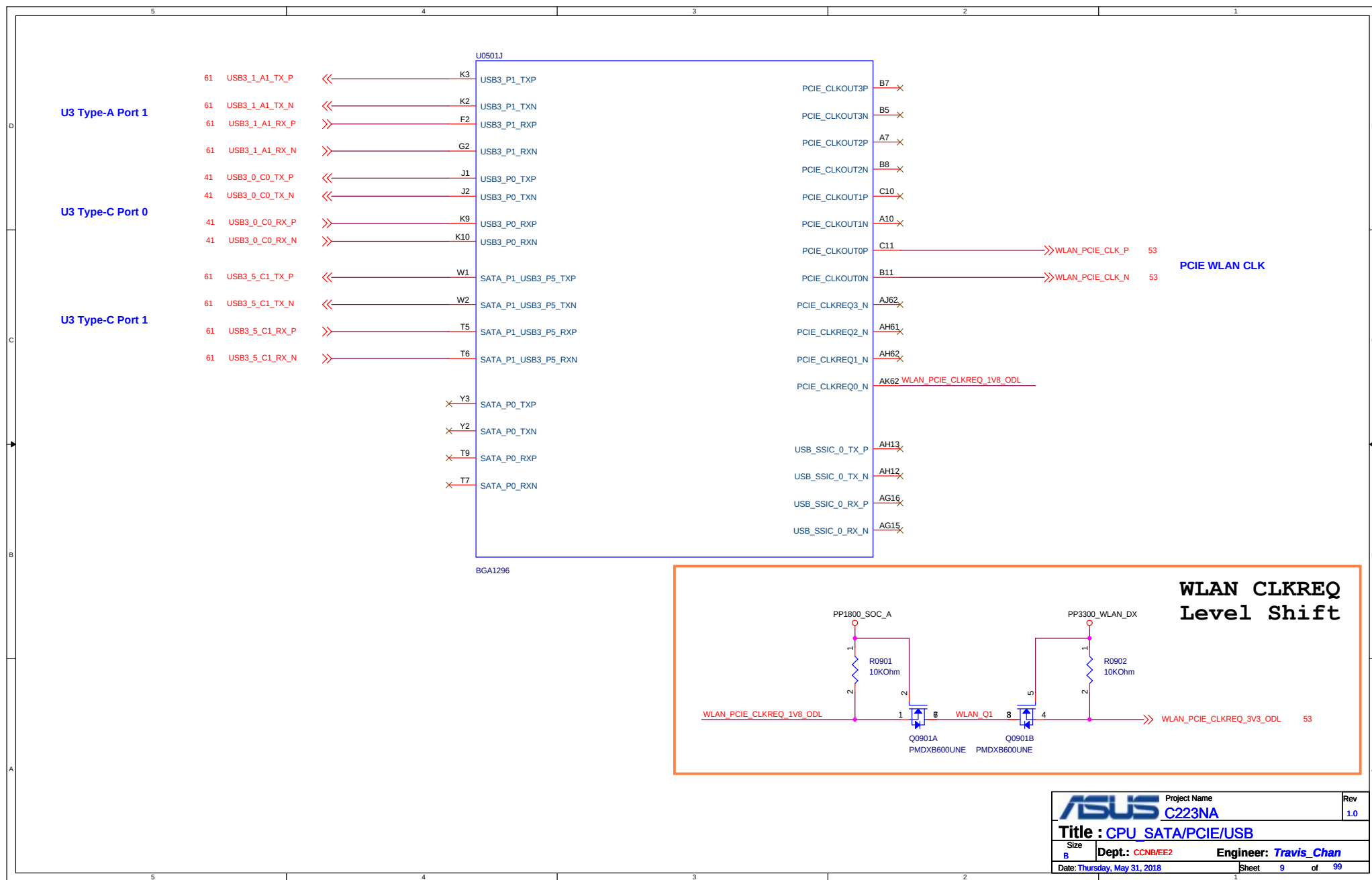
ALL 1.8V

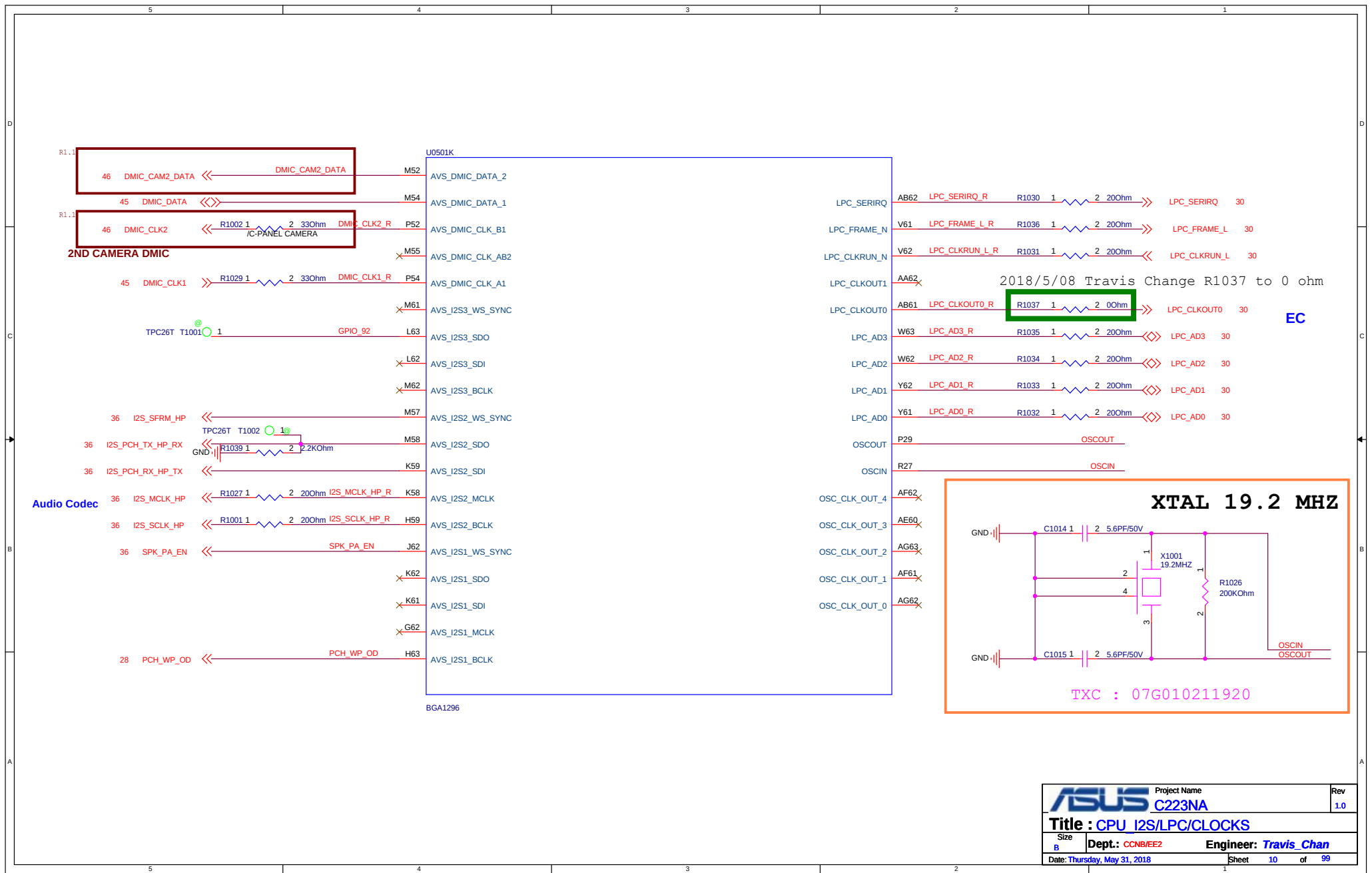


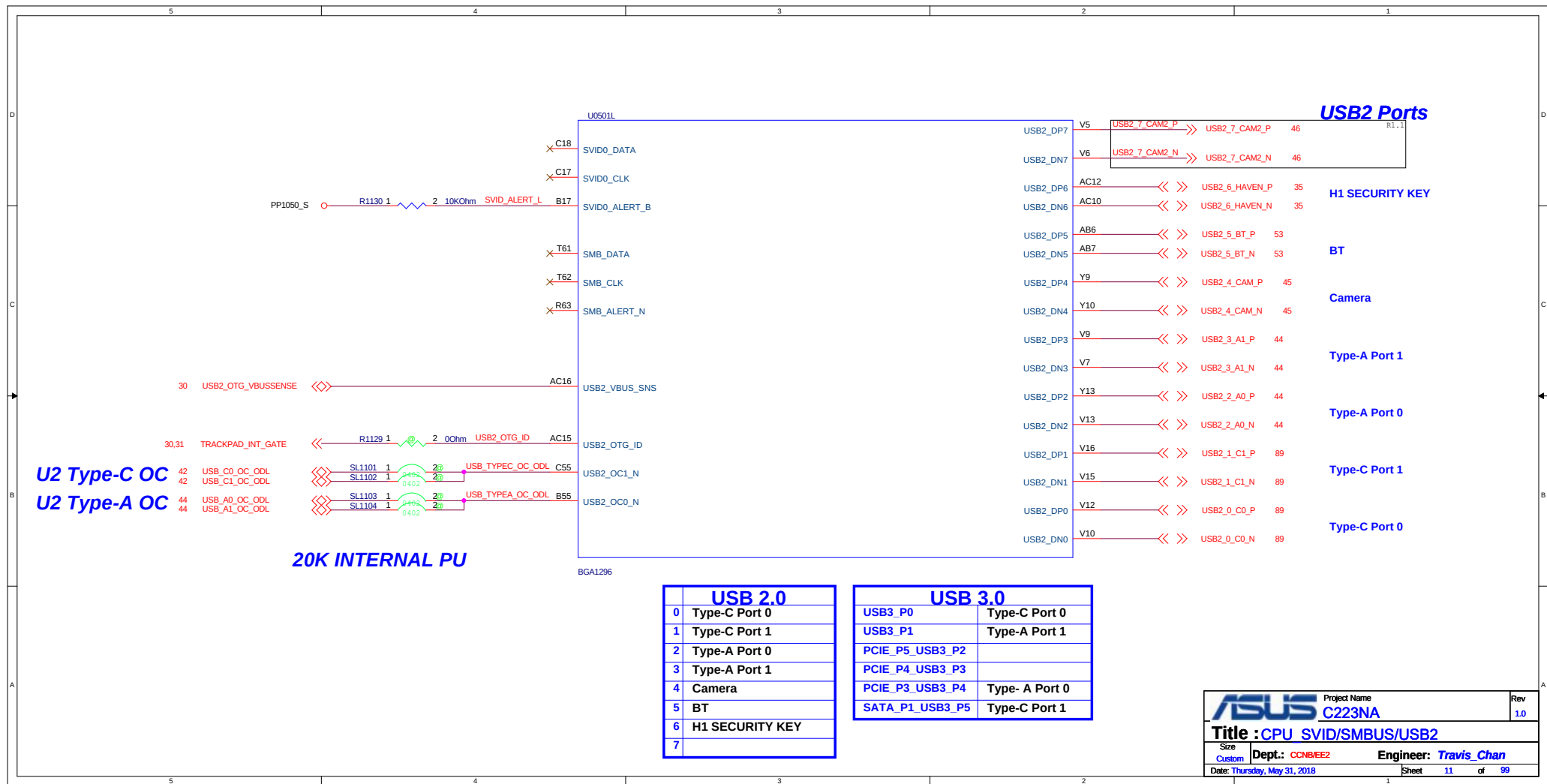
<http://www.repair1.ru/>

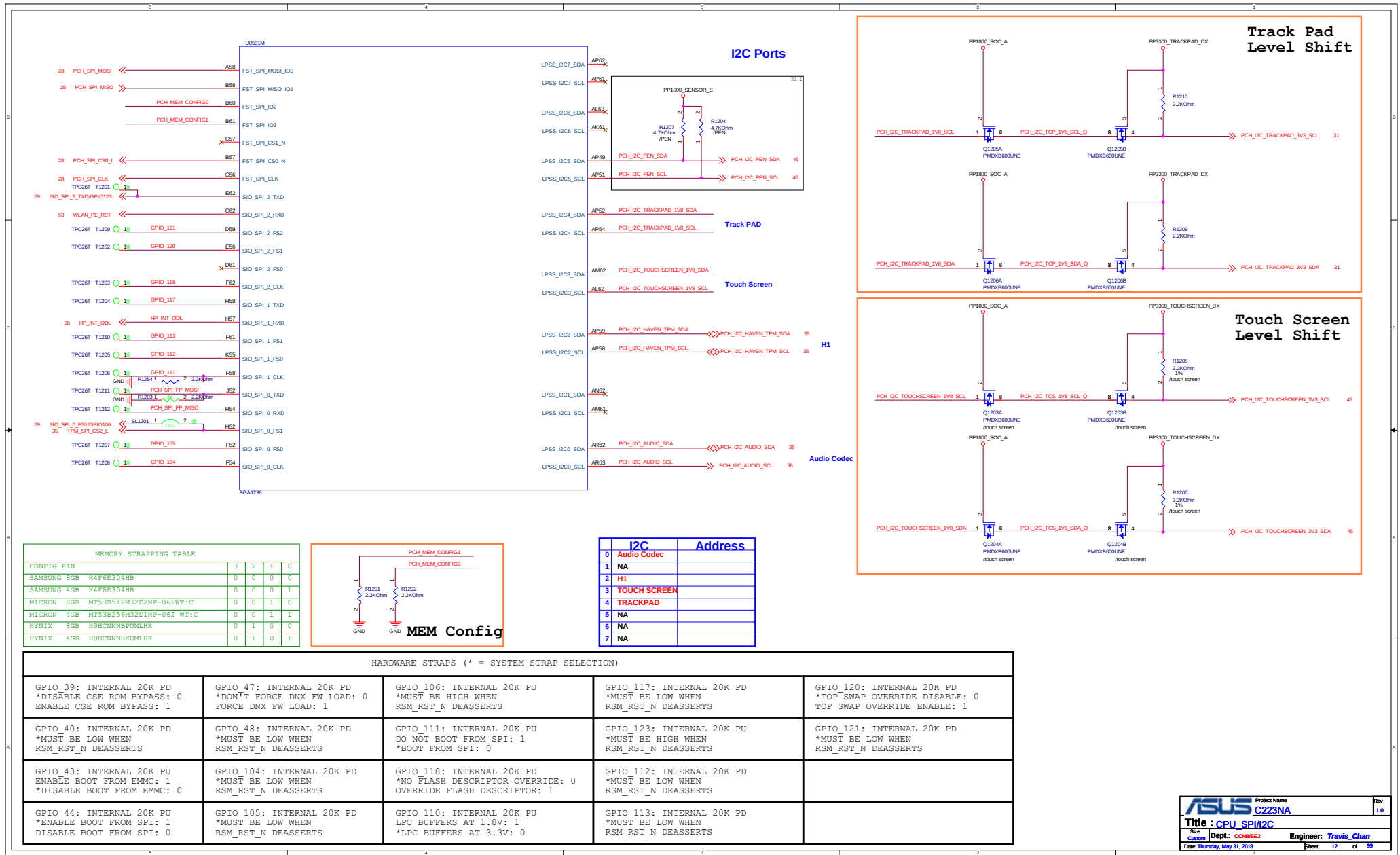
ASUS		Project Name	Rev
C223NA			1.0
Title : CPU SDIO/EMMC			
Size	Dept.:	Engineer:	
B	CCNB/EE2	Travis.Chan	
Date: Thursday, May 31, 2018	Sheet	7	of 99

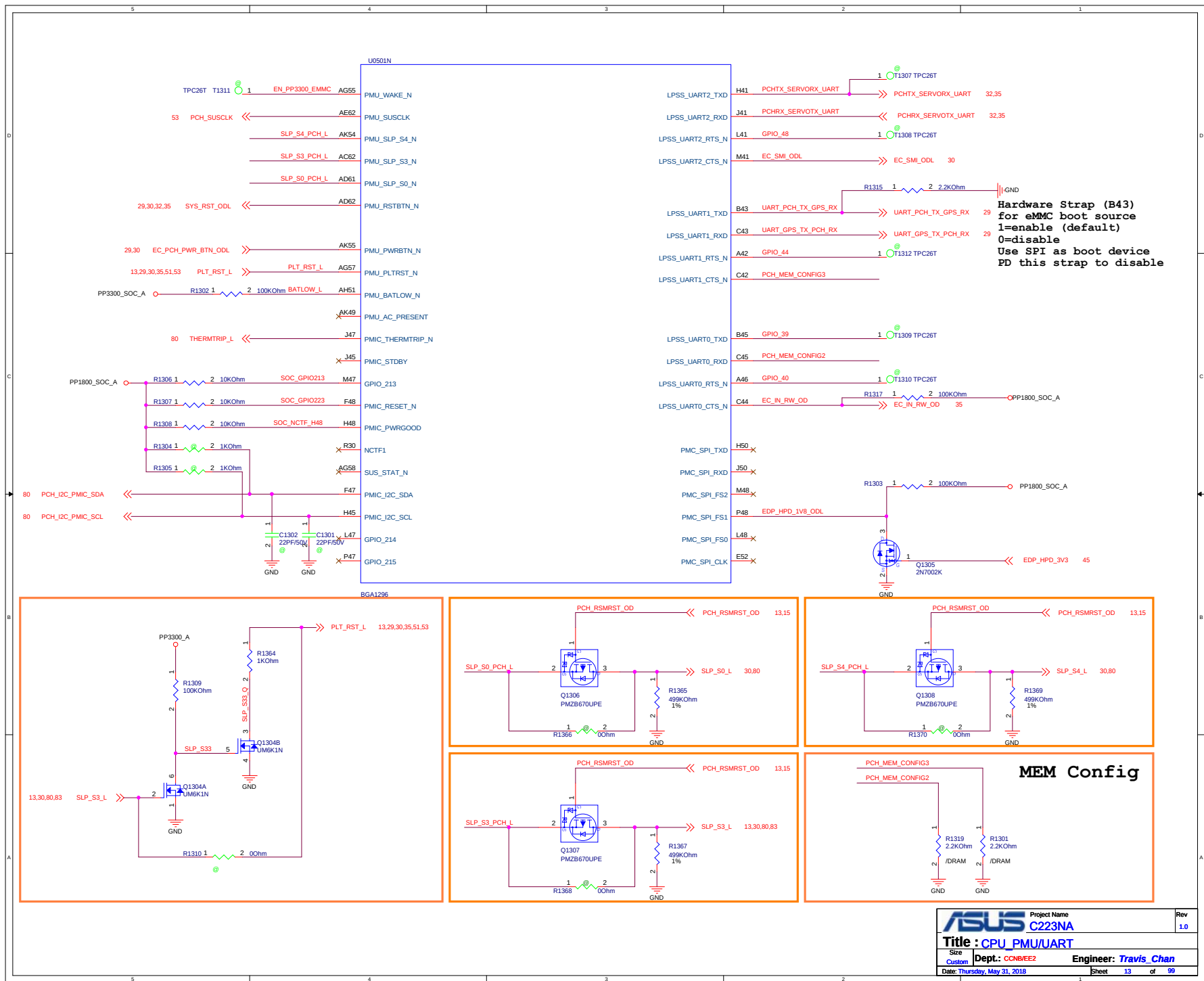


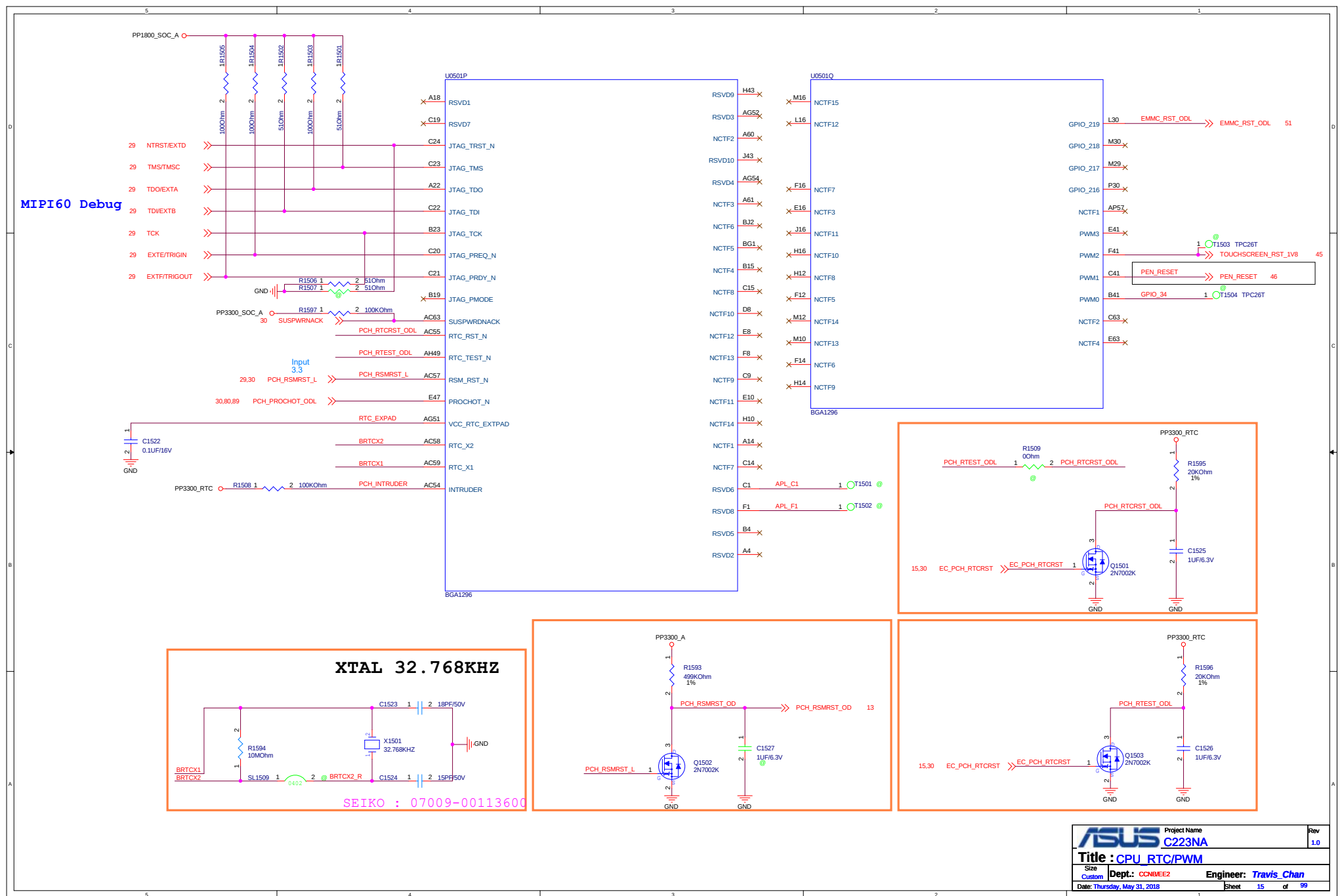


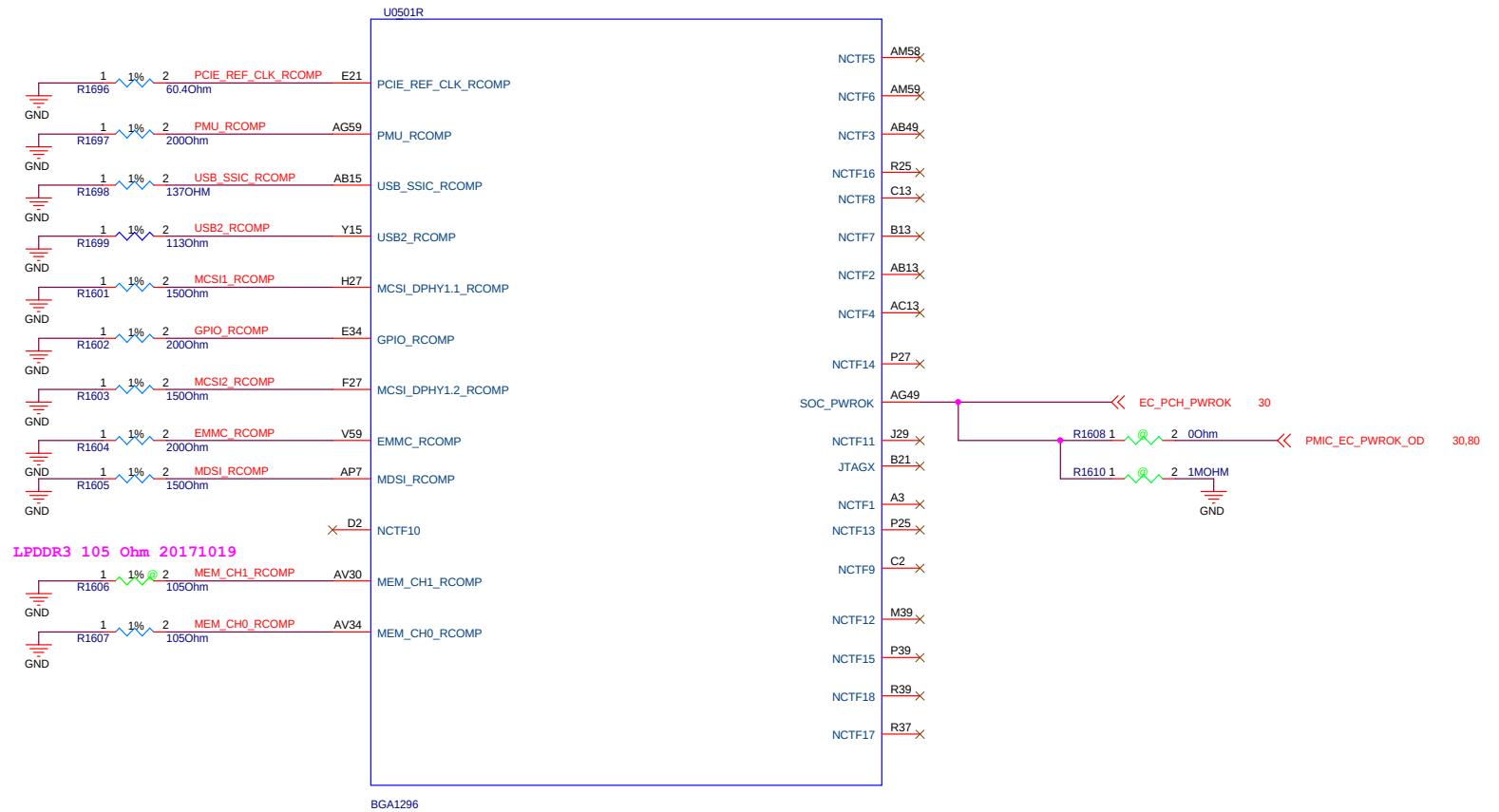


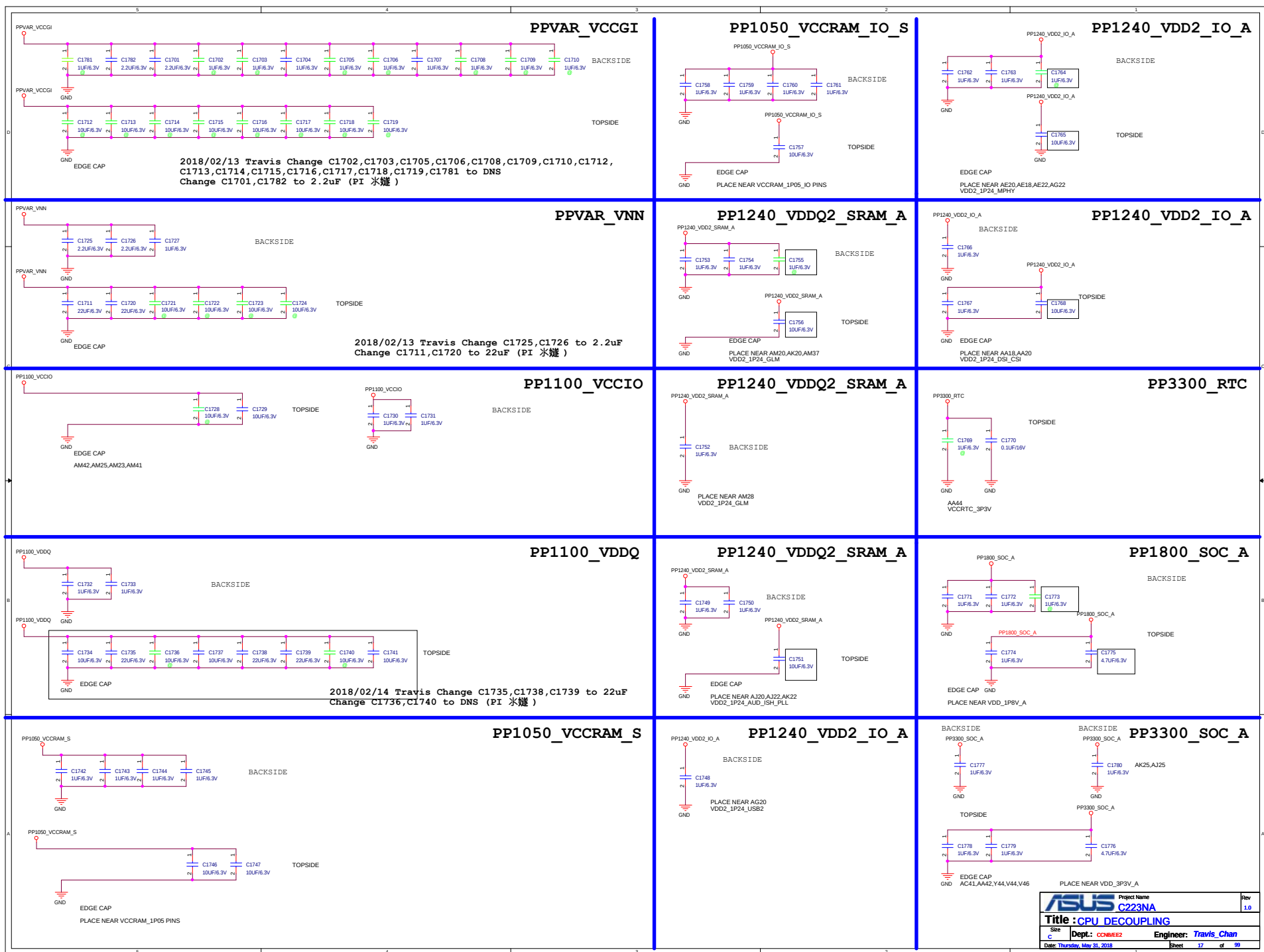


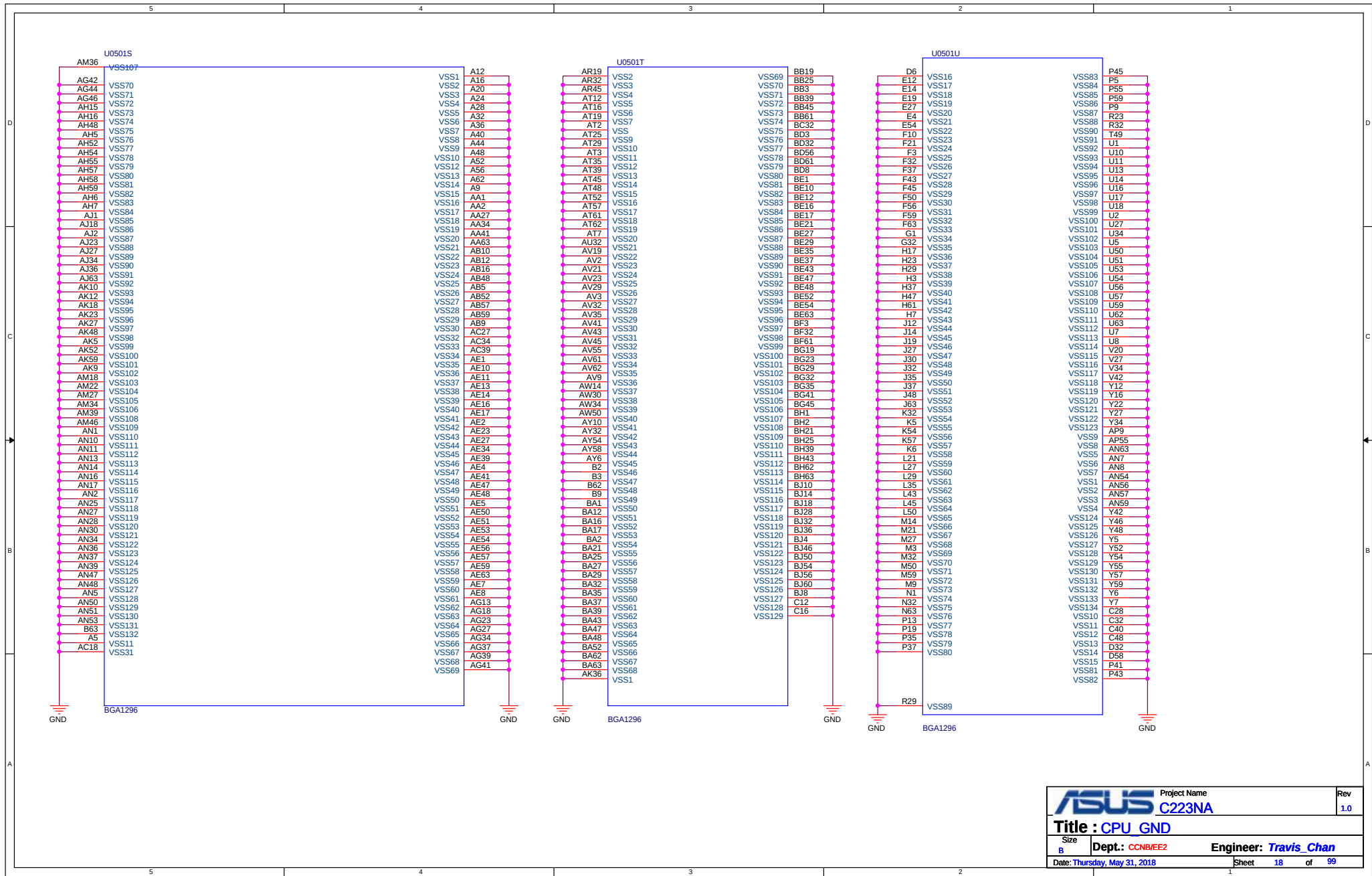


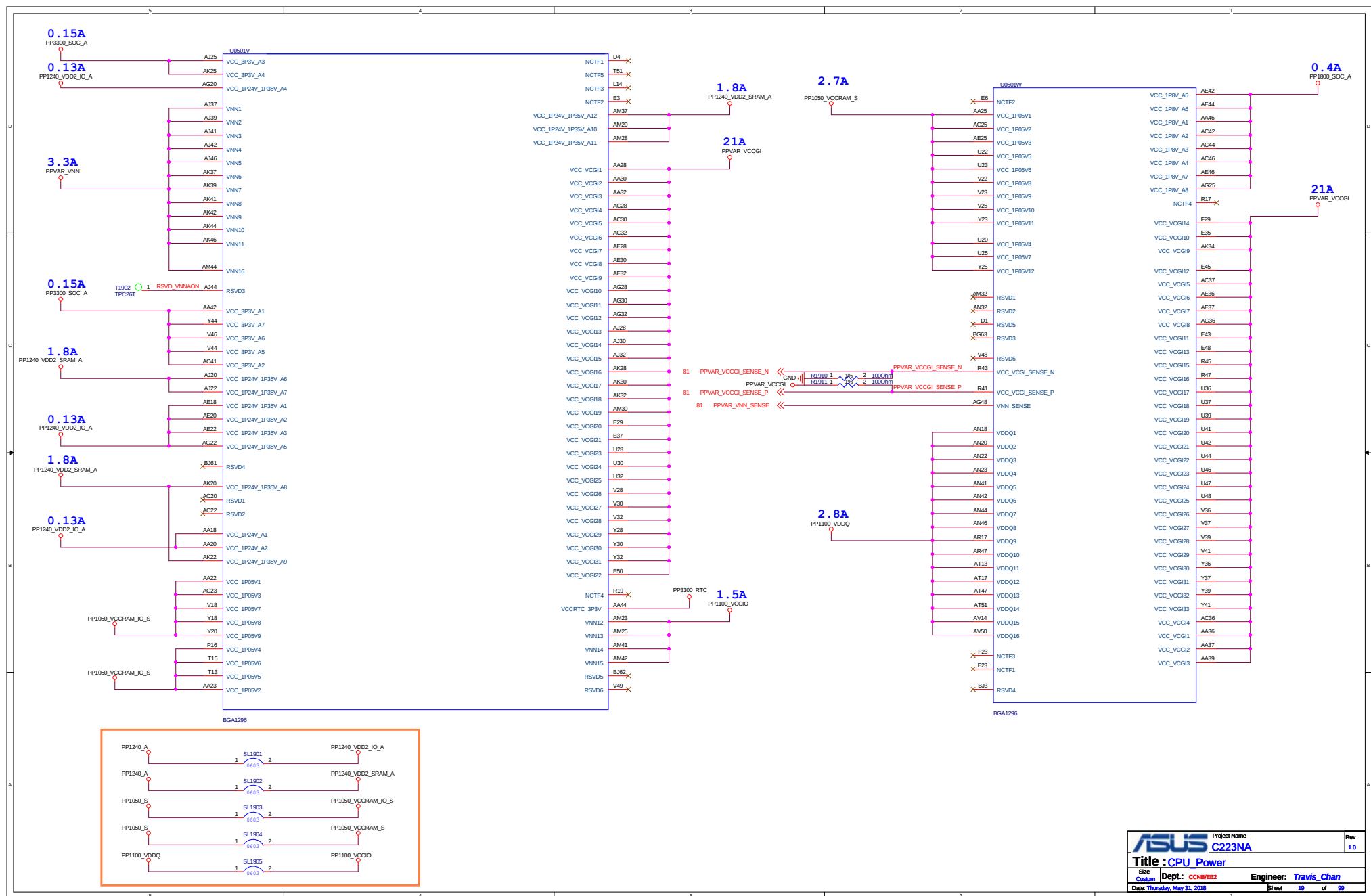









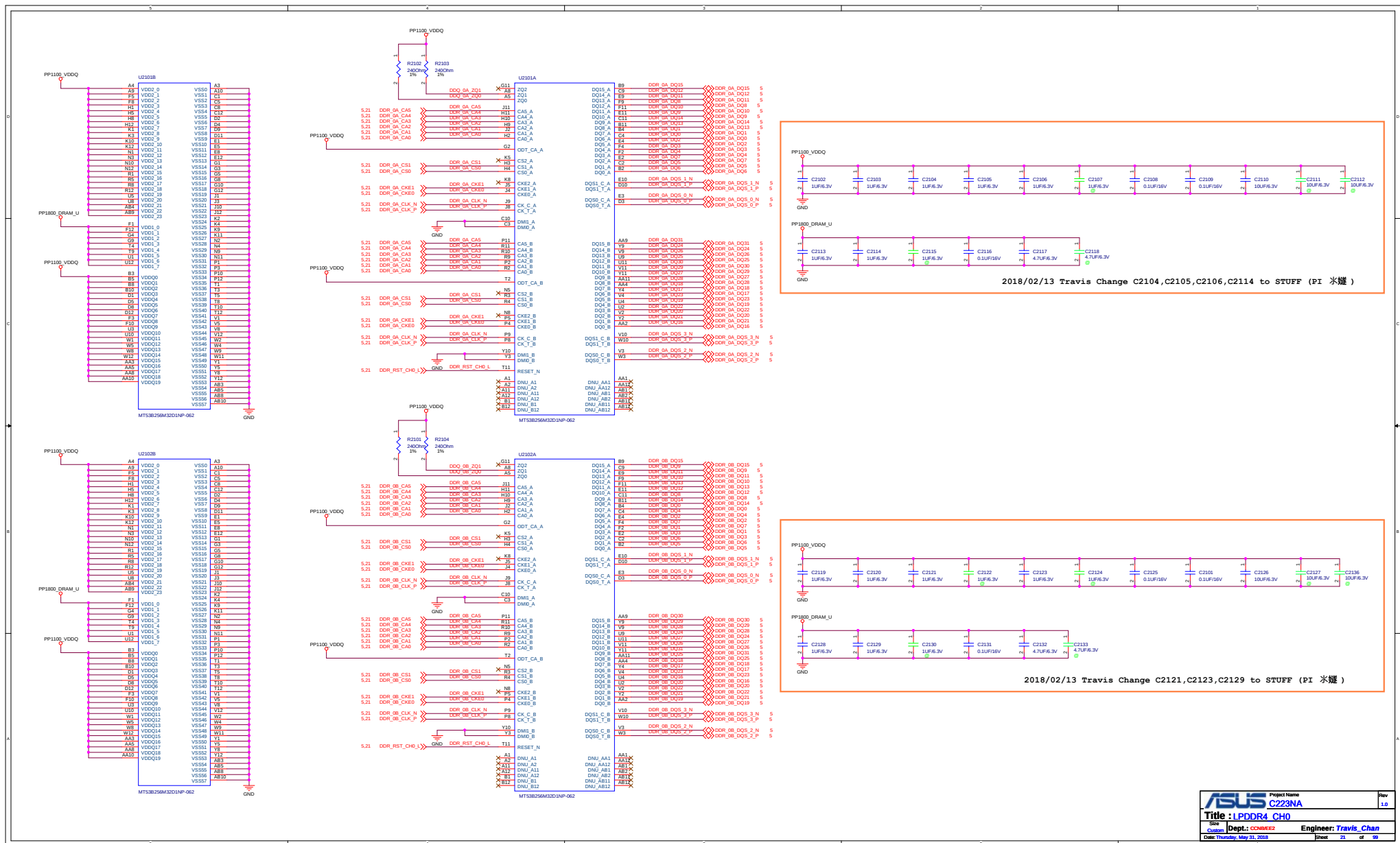


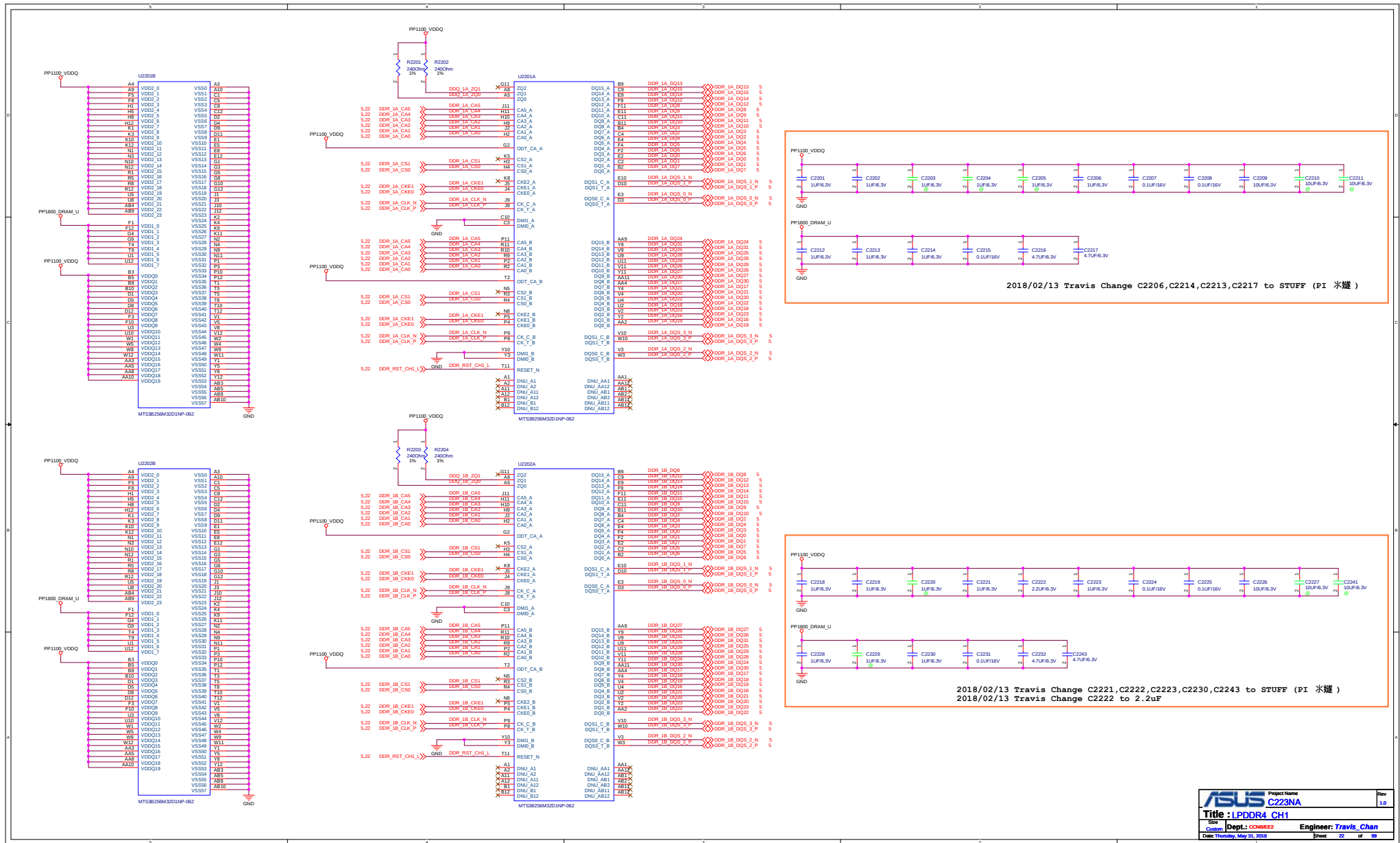



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C																								
B																								
A																								
5					4					3					2					1				

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		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan	
B				
Date: Thursday, May 31, 2018			Sheet	20 of 99






		Project Name C223NA		Rev 1.0	
Title :					
Size B		Dept.: CCNBJEE2		Engineer: Travis_Chan	
Date: Thursday, May 31, 2018			Sheet 23 of 99		

5					4					3					2					1				
D																								
C																								
B																								
A																								
5					4					3					2					1				

		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.:		Engineer:	
B	CCNB/EE2		Travis_Chan	
Date: Thursday, May 31, 2018		Sheet	24	of 99

		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan	
B			Travis_Chan	
Date: Thursday, May 31, 2018				
			Sheet	24 of 99

5					4					3					2					1				
D																								
C																								
B																								
A																								
5					4					3					2					1				

ASUS

Title :

Size

B

Dept.:

CCNB/EE2

Engineer:

Travis_Chan

Project Name

C223NA

Rev

1.0

Date:


Thursday, May 31, 2018

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		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan	
B			Travis_Chan	
Date: Thursday, May 31, 2018				
			Sheet	25 of 99

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D																								
C																								
B																								
A																								
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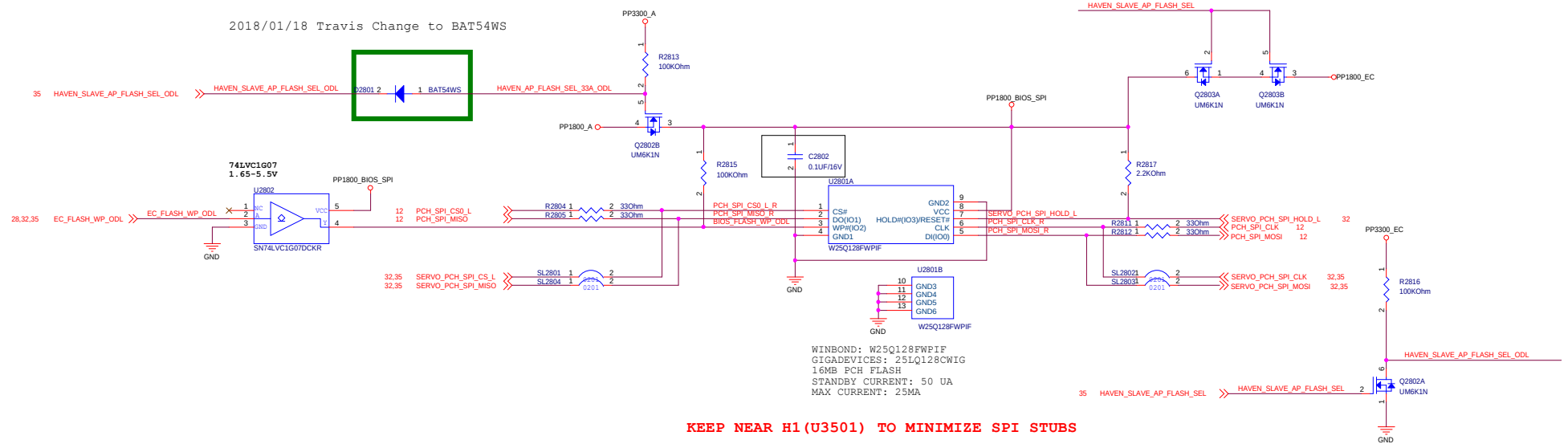
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		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.:		Engineer:	
B	CCNB/EE2		Travis_Chan	
Date: Thursday, May 31, 2018			Sheet	26 of 99

		Project Name C223NA		Rev 1.0
Title :				
Size B	Dept.: CCN/EE2		Engineer: <u>Travis Chan</u>	
Date: Thursday, May 31, 2018			Sheet	27 of 99

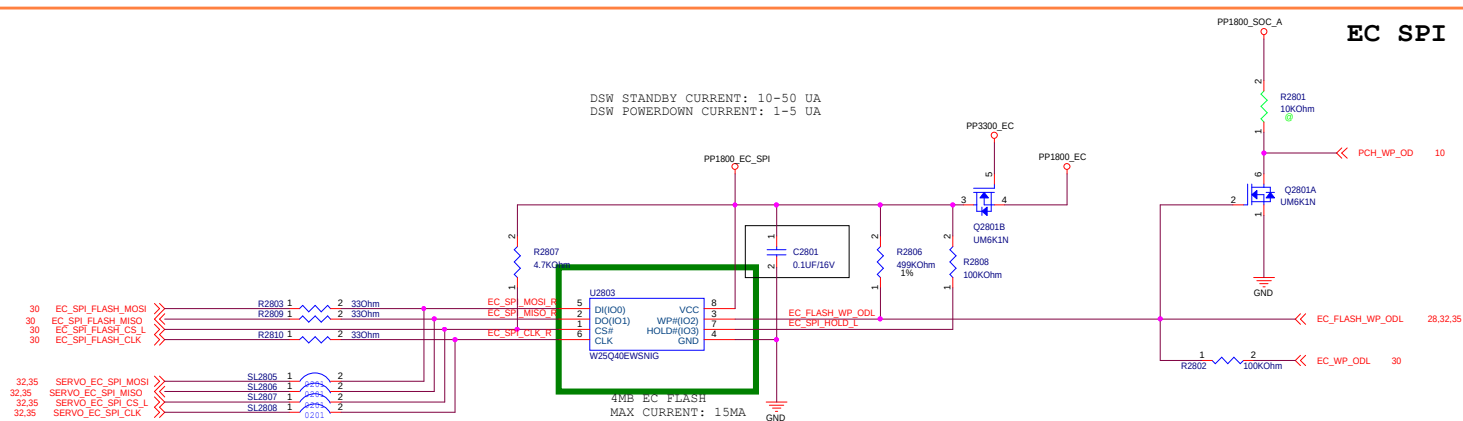
PCH SPI FLASH

2018/01/18 Travis Change to BAT54WS



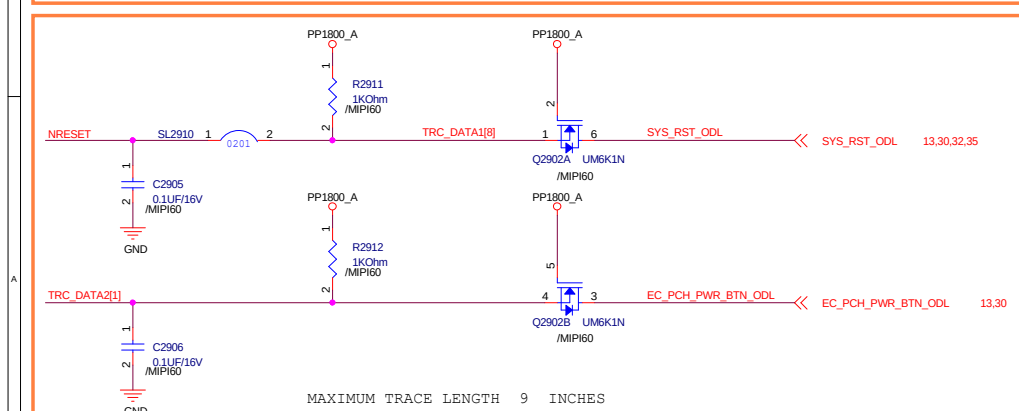
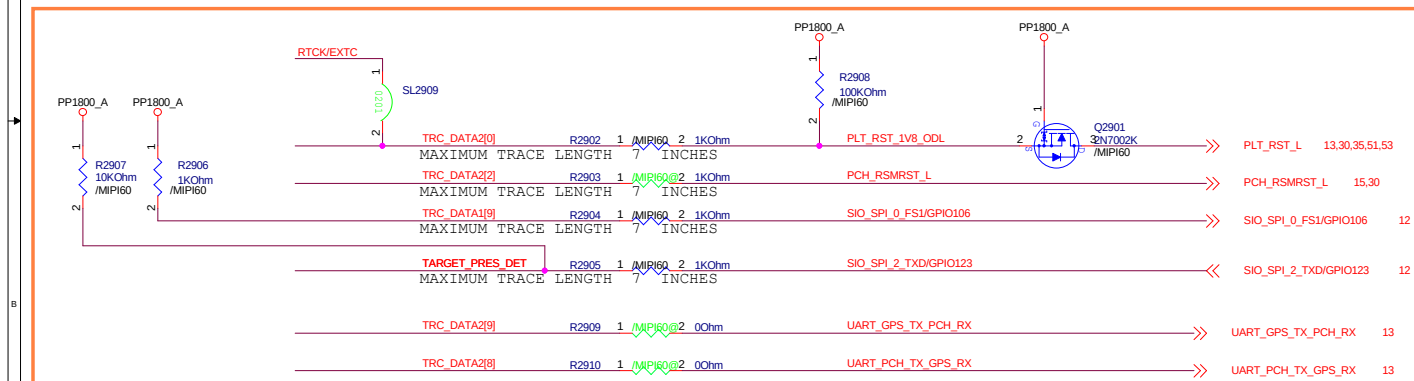
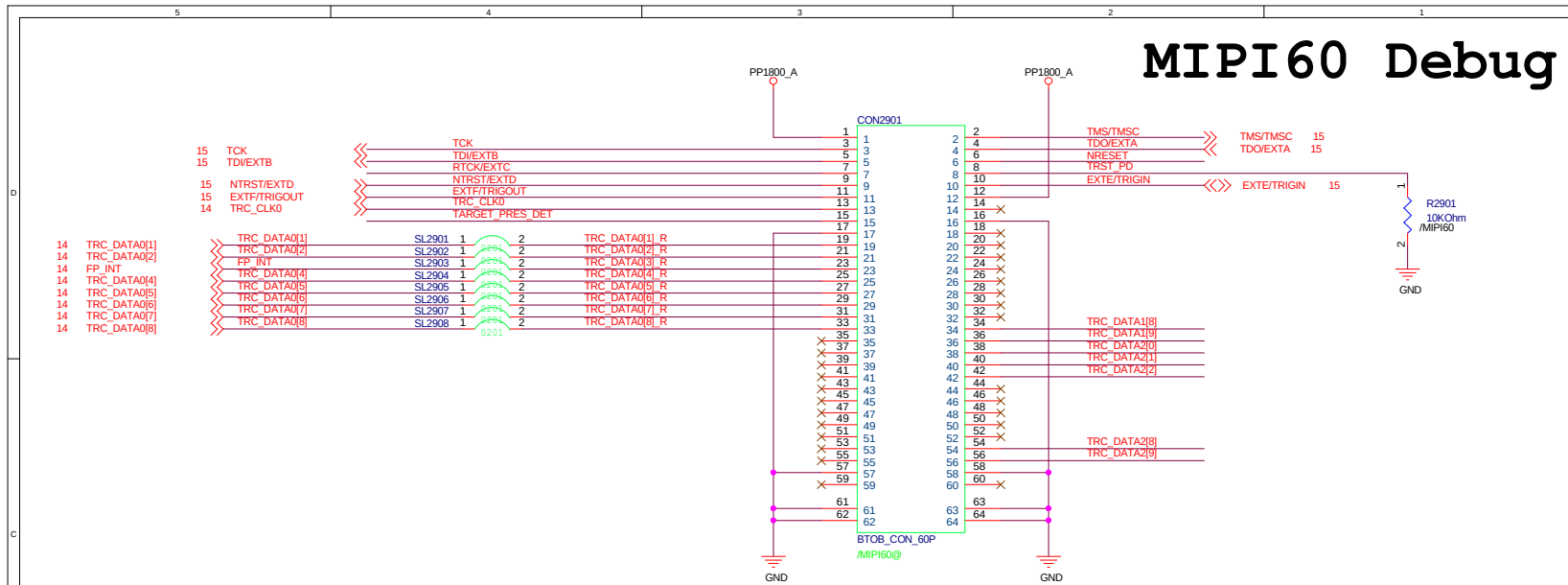
EC SPI FLASH

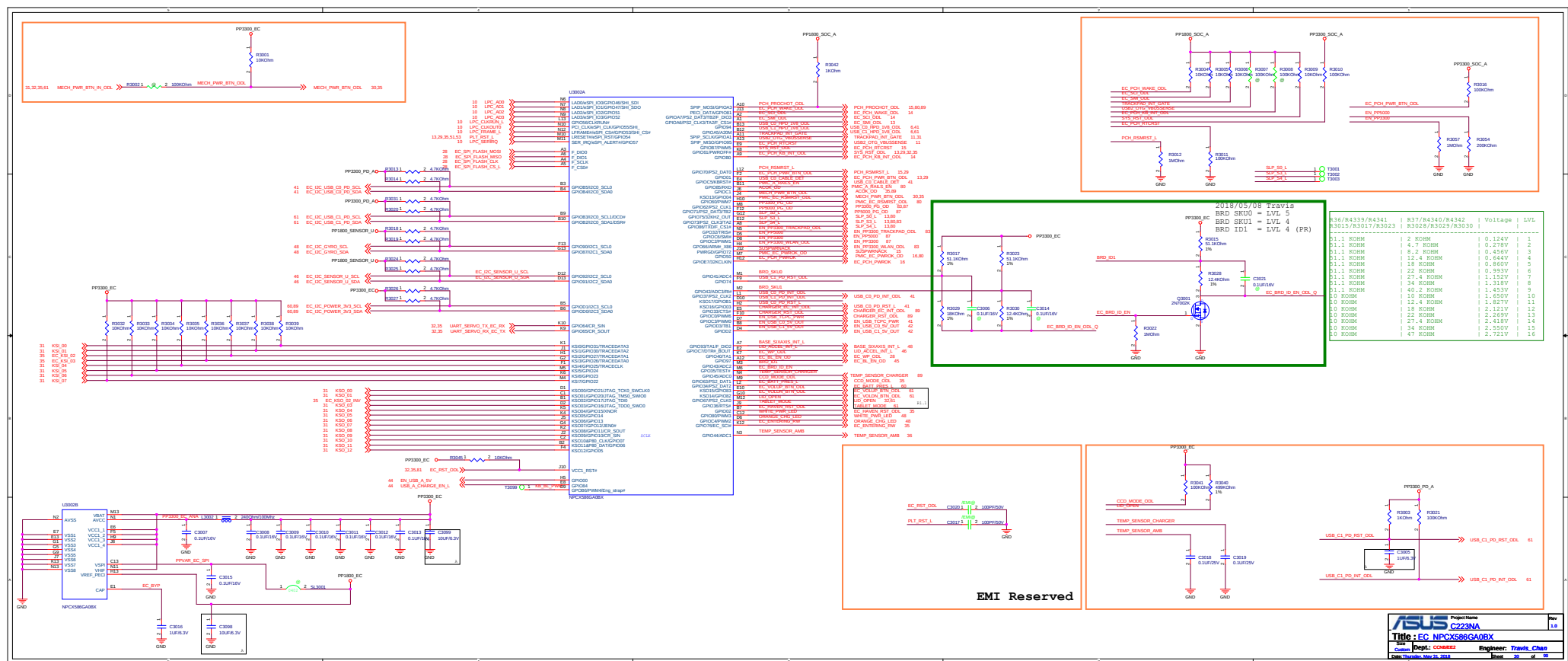
DSW STANDBY CURRENT: 10-50 U A
DSW POWERDOWN CURRENT: 1-5 U A



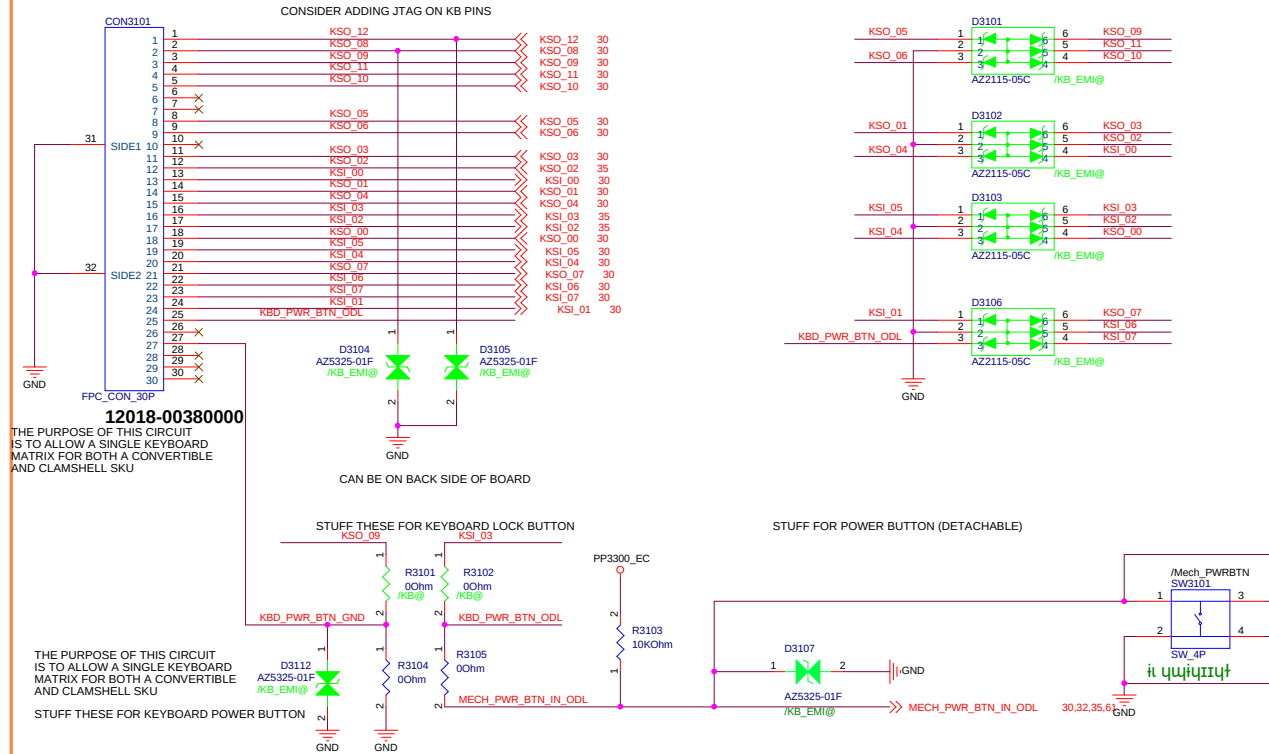
Project Name		Rev
C223NA		1.0
Title : SPI ROM		
Size	Dept: CONBEE2	Engineer: Travis Chan
Date: Thursday, May 31, 2018	Sheet	28 of 99

MIPI60 Debug

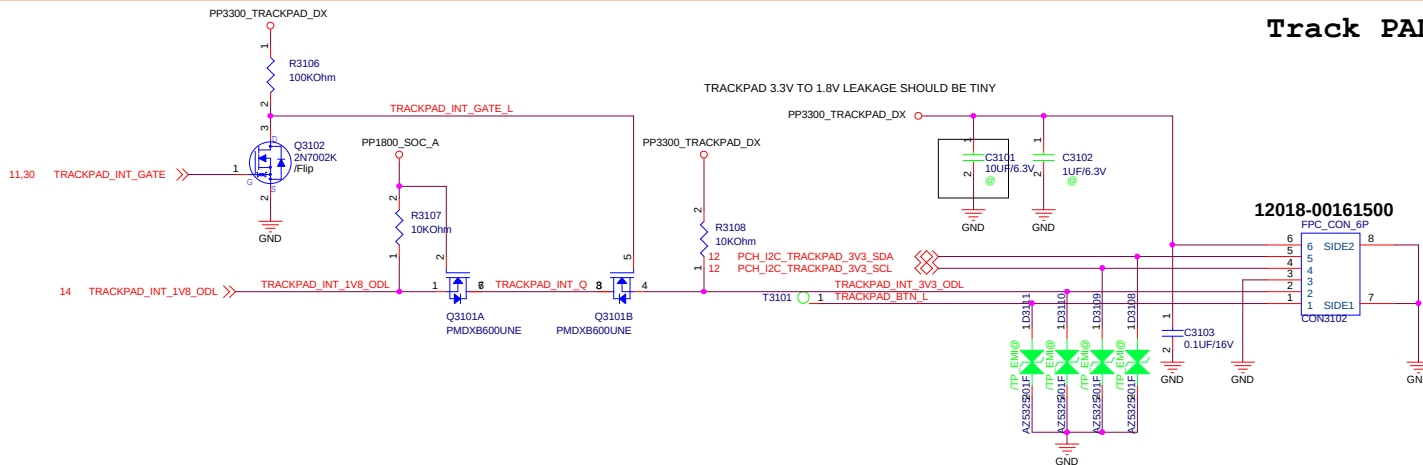




Keyboard

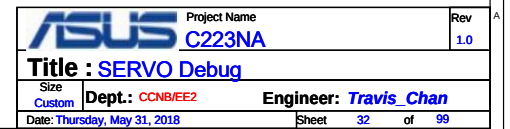



Track PAD



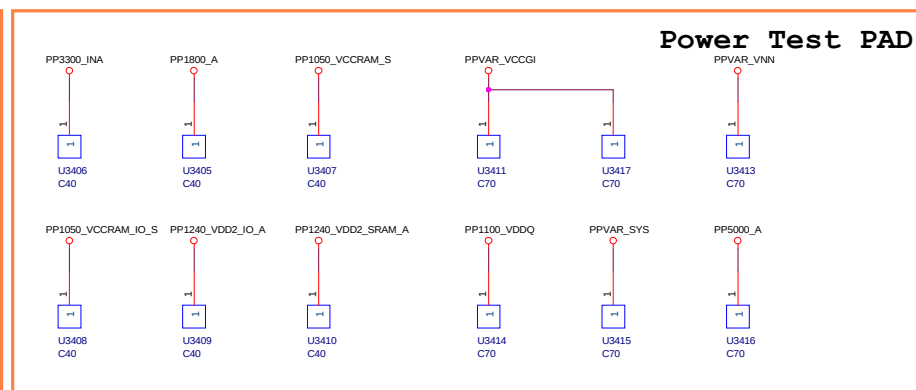
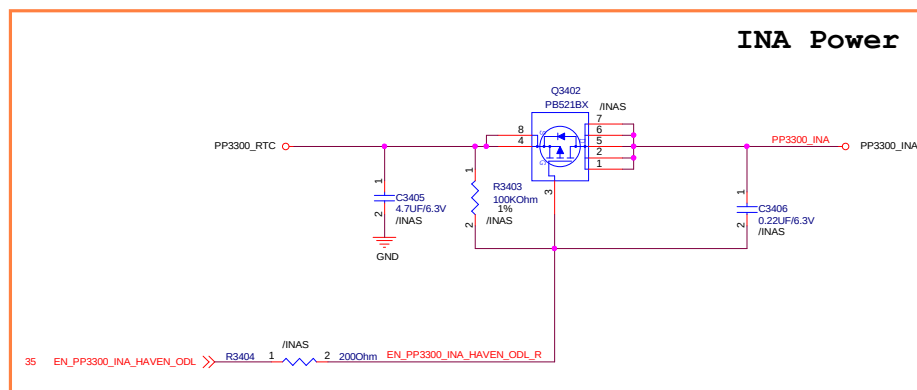
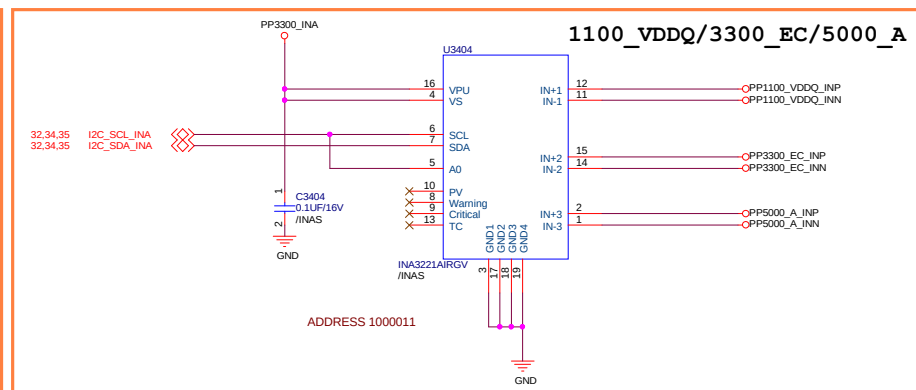
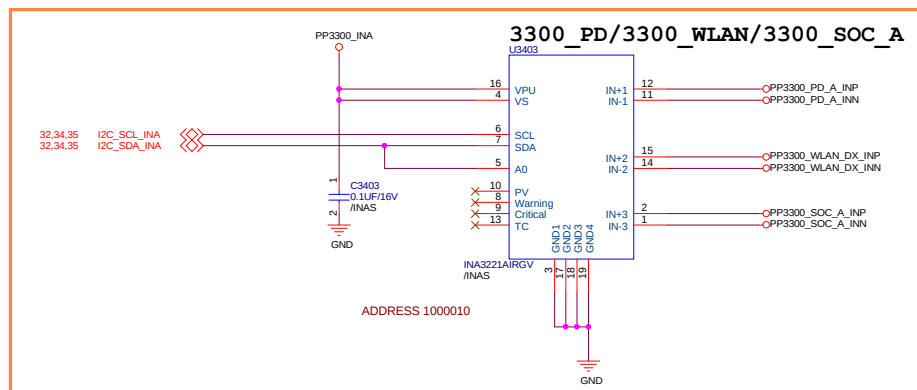
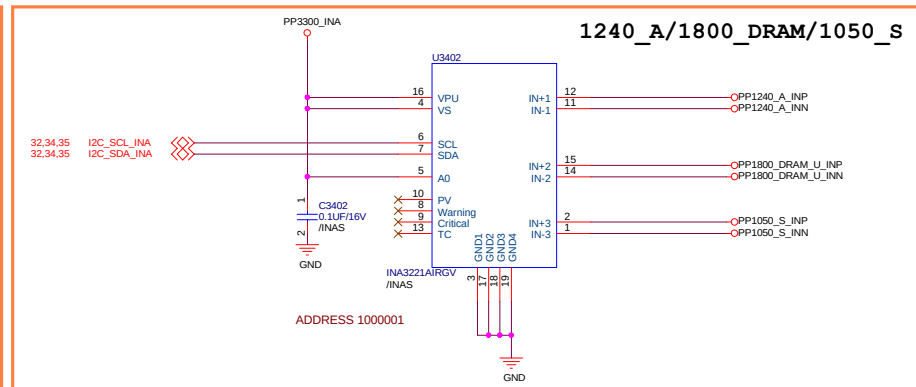
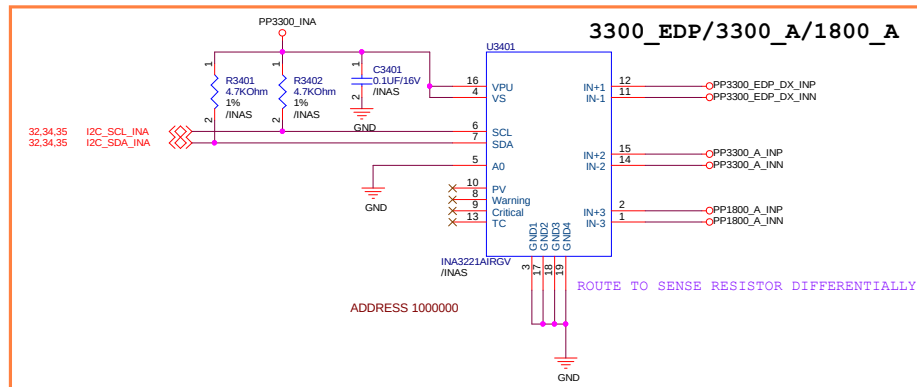
ASUS		Project Name	Rev
C223NA			1.0
Title : KB_TP			
Size	Dept: CCN&EE2	Engineer: Travis Chan	
Custom			
Date: Thursday, May 31, 2018	Sheet	31	of 99

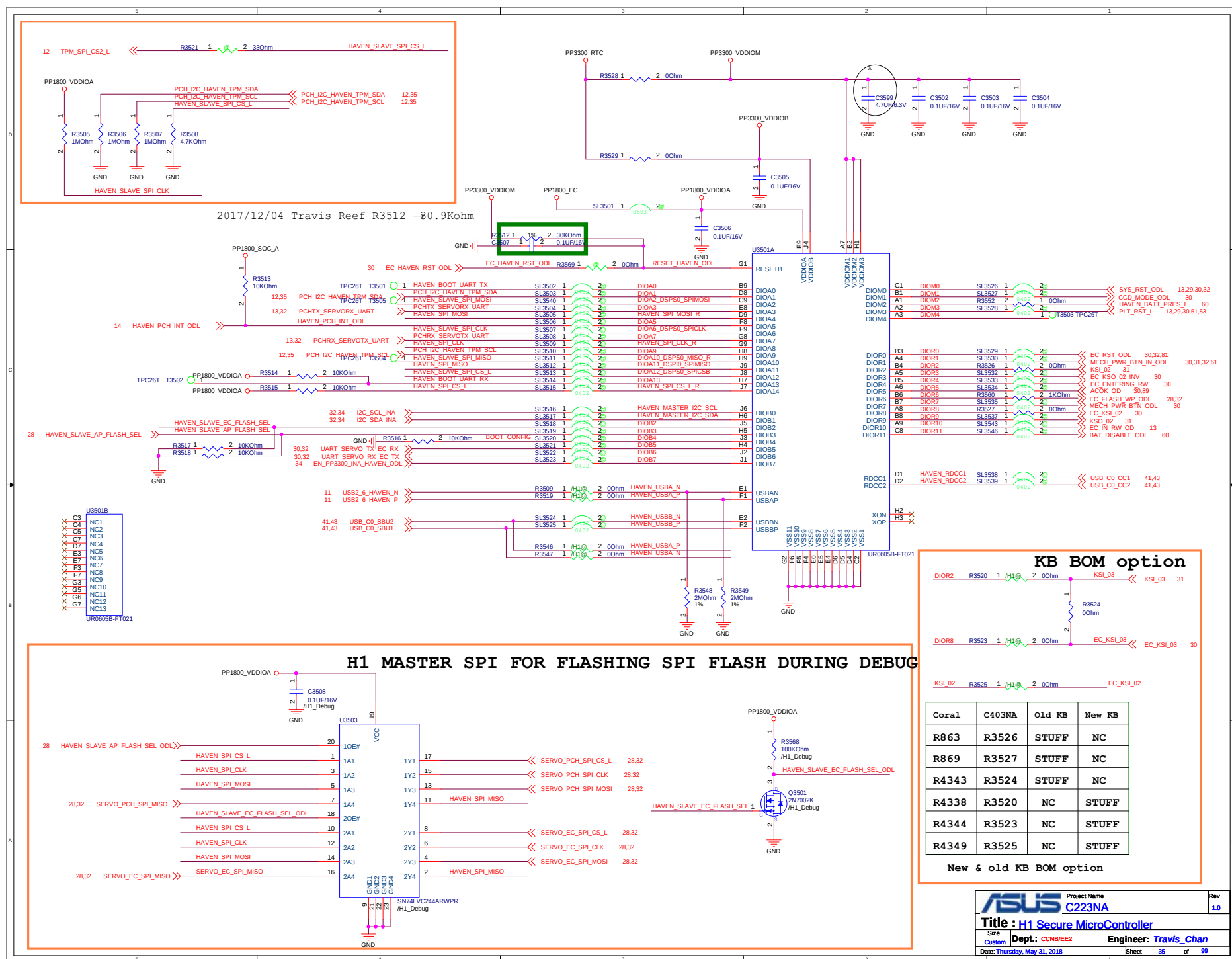
SERVO Debug



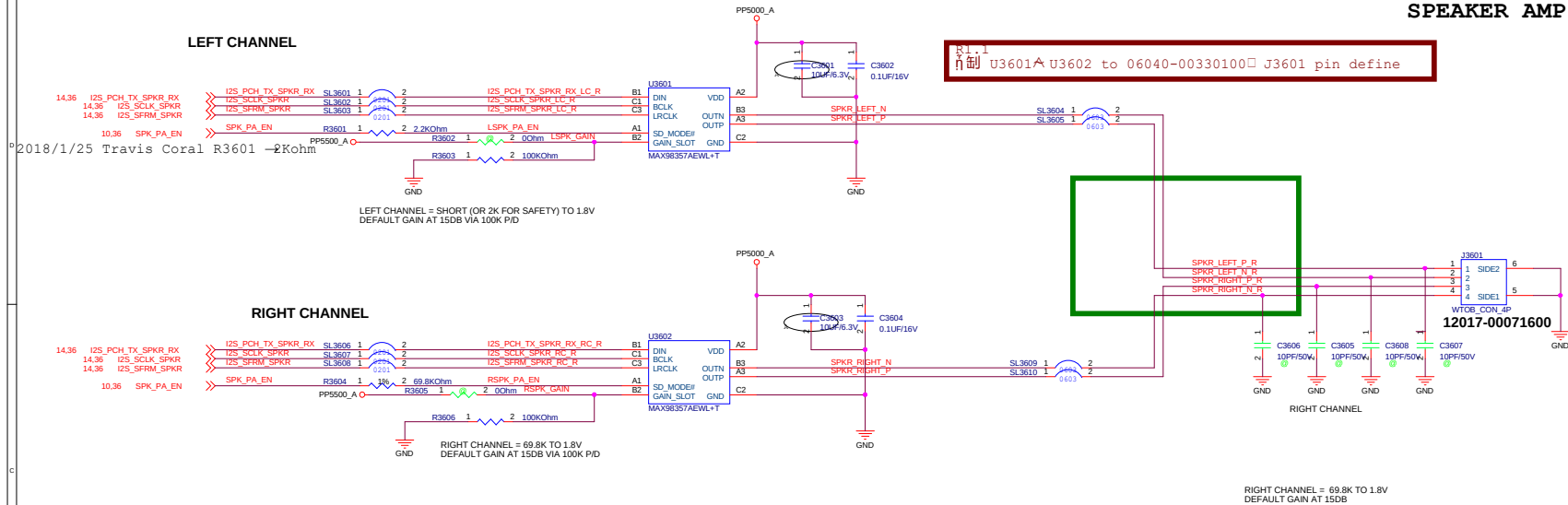
		Project Name C223NA		Rev 1.0
Title :				
Size B	Dept.: CCN/EE2		Engineer: <u>Travis Chan</u>	
Date: Thursday, May 31, 2018		Sheet	33	of 99

INAs

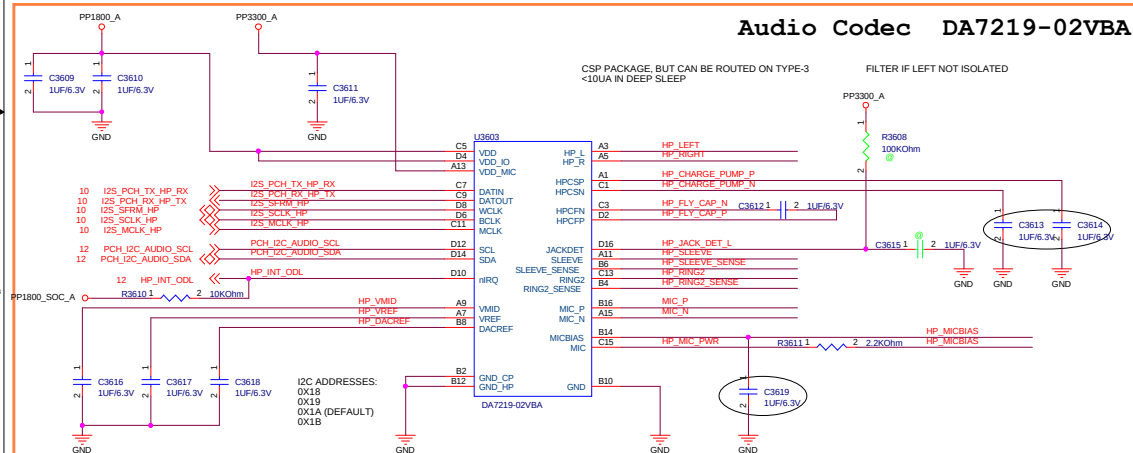




SPEAKER AMP

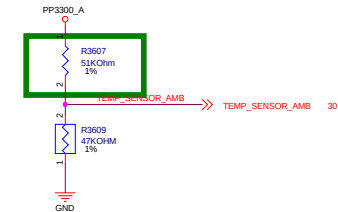


Audio Codec DA7219-02VBA



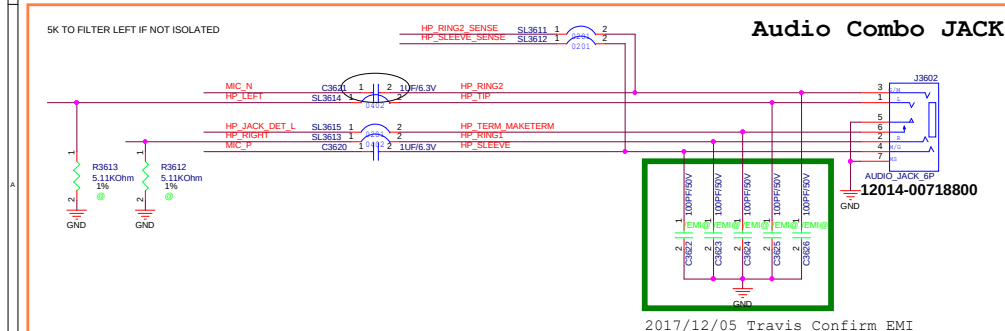
AMBIENT TEMPERATURE SENSOR


2018/1/10 Travis Coral R4004 -51.1Kohm





AMBIENT TEMPERATURE SENSOR SHOULD BE PLACED NEAR HEADPHONE JACK, AWAY FROM ICs
DO NOT CHANGE THERMISTOR TYPE

Audio Combo JACK

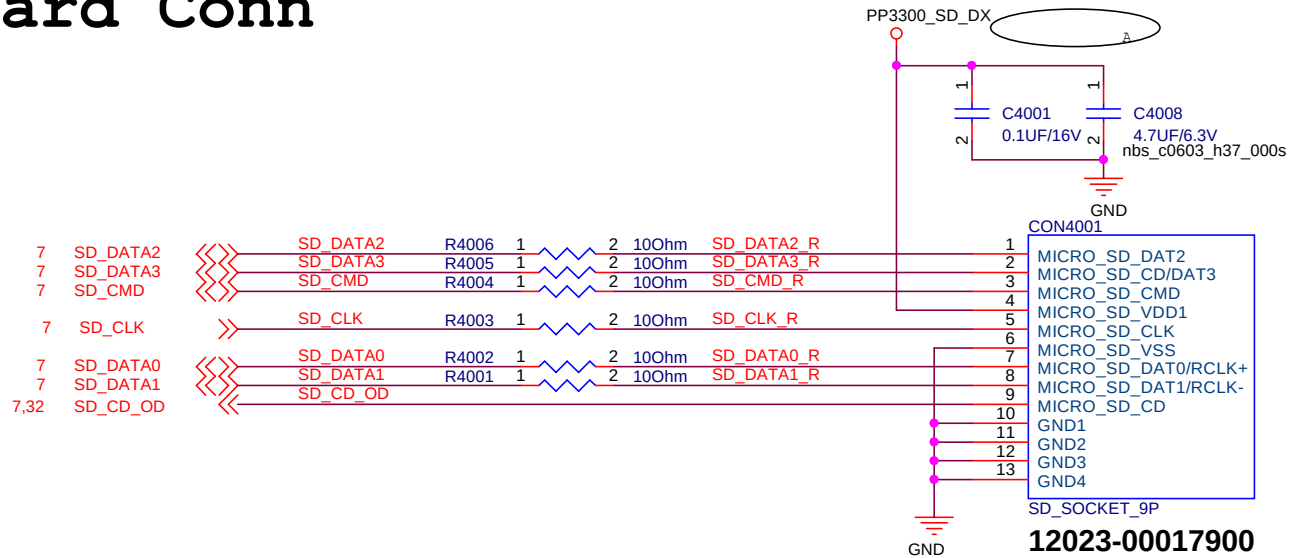


		Project Name C223NA		Rev 1.0
Title :				
Size B	Dept.: CCNB/EE2		Engineer: <u>Travis Chan</u>	
Date: Thursday, May 31, 2018		Sheet	37	of 99

		Project Name C223NA		Rev 1.0	
Title :					
Size B		Dept.: CCNBJEE2		Engineer: Travis_Chan	
Date: Thursday, May 31, 2018		Sheet 38		of 99	

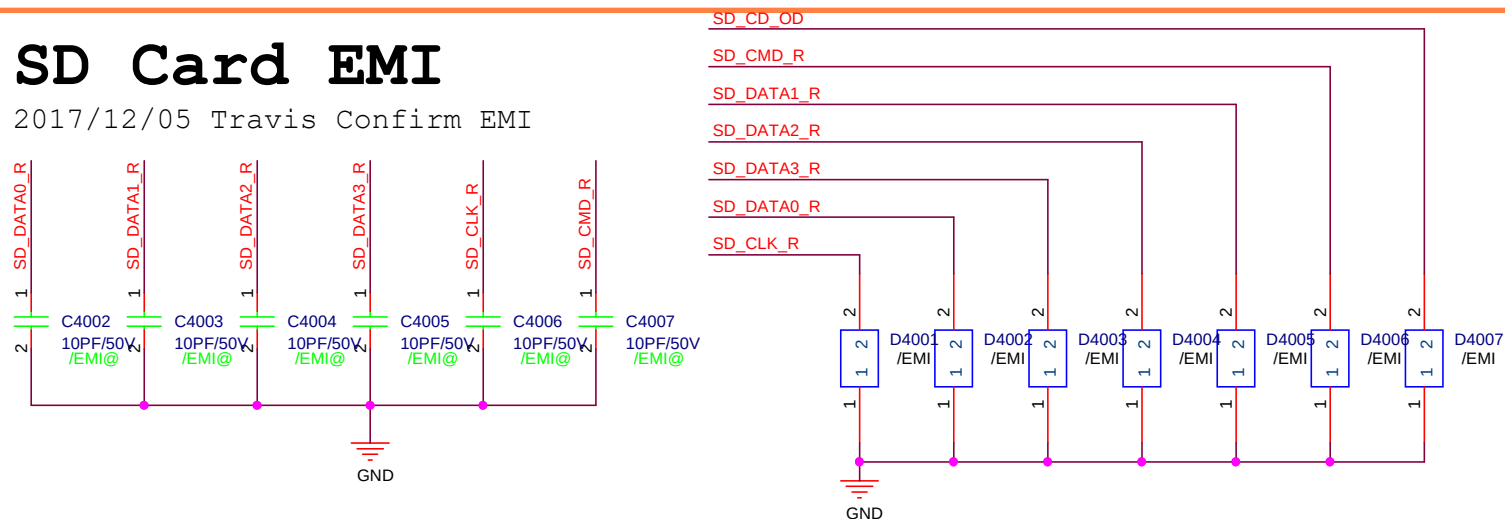
		Project Name C223NA		Rev 1.0	
Title :					
Size B		Dept.: CCNB/EE2		Engineer: <u>Travis Chan</u>	
Date: Thursday, May 31, 2018			Sheet 39 of 99		

SD Card Conn



SD Card EMI

2017/12/05 Travis Confirm EMI



ASUS Project Name
C223NA

Rev
1.0

Title : uSD

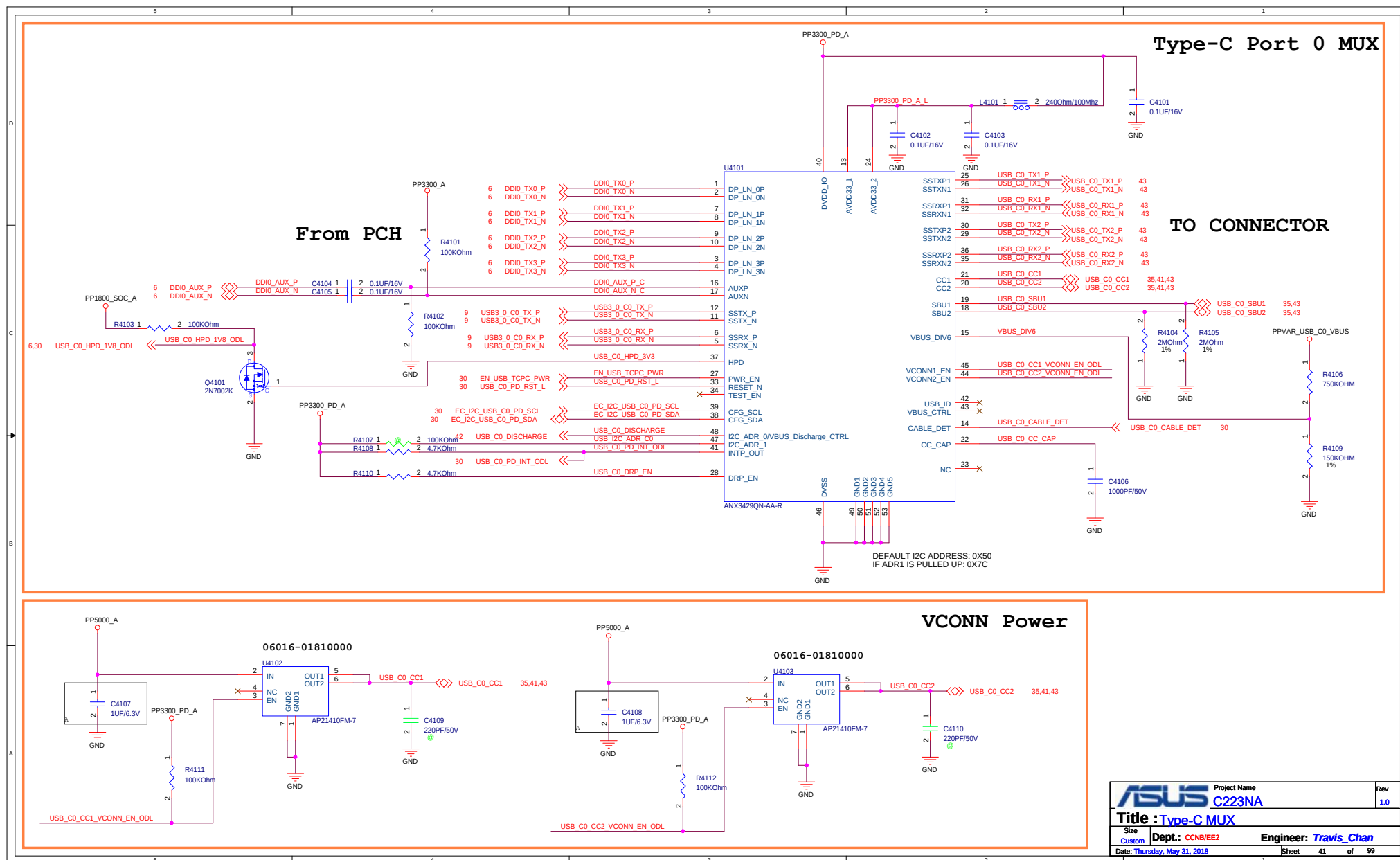
Size
Custom

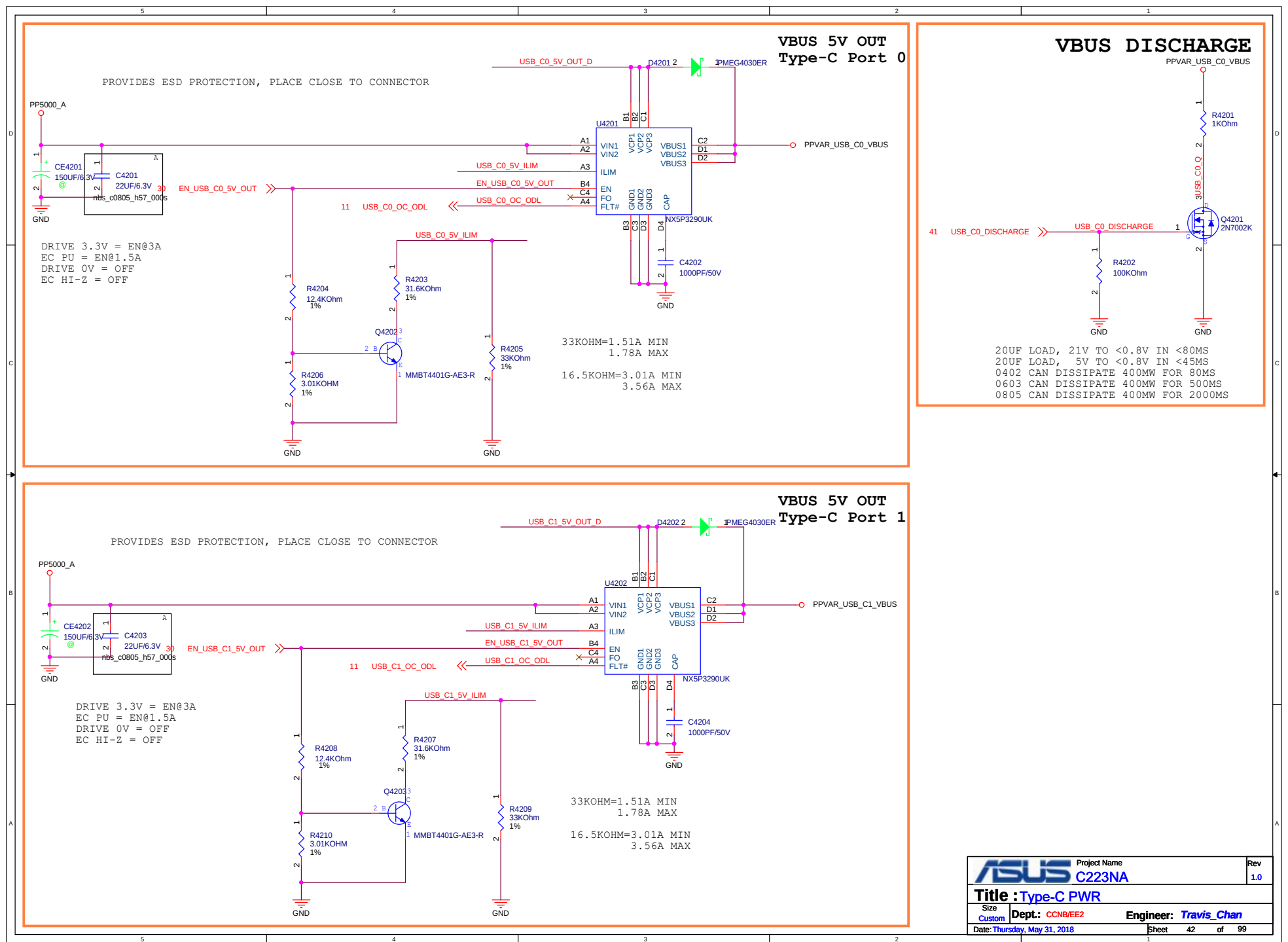
Dept.: CCNB/EE2

Engineer: Travis_Chan

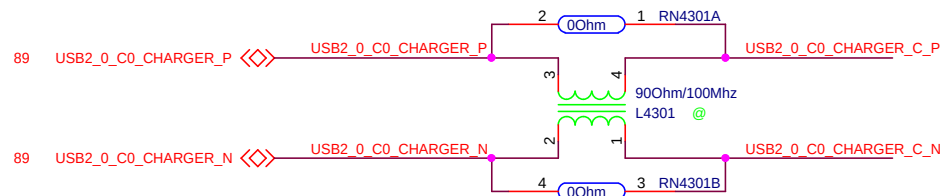
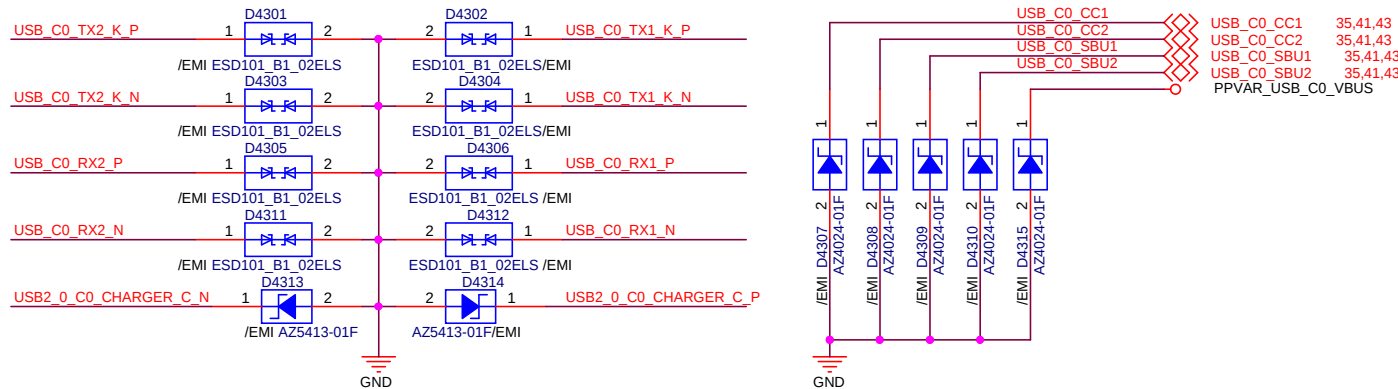
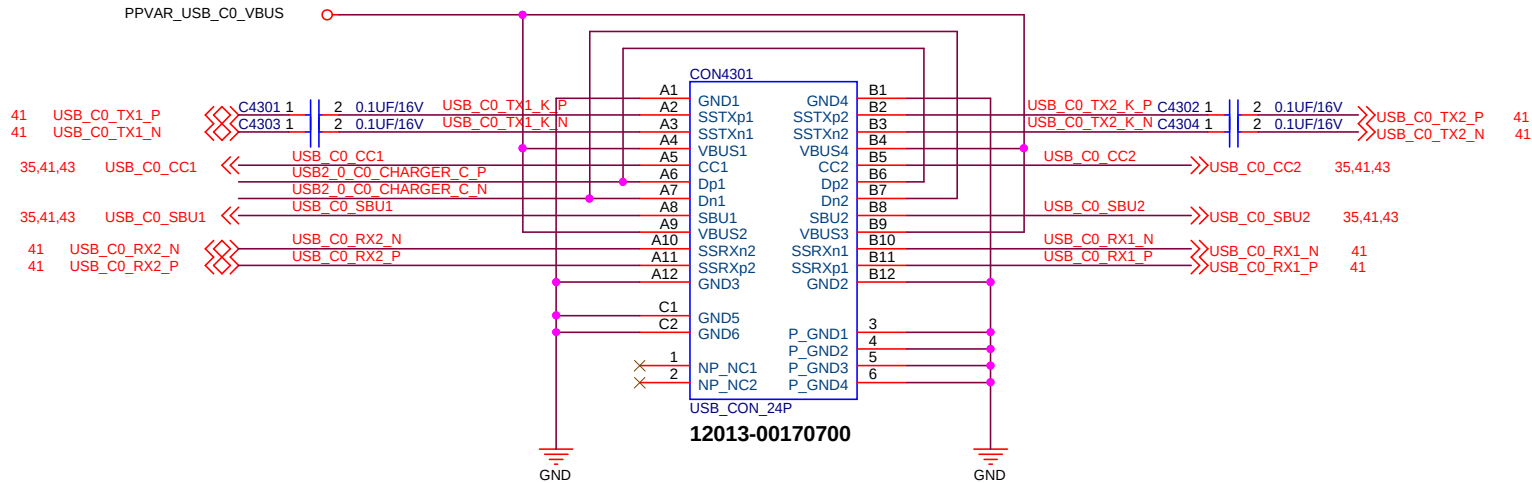
Date: Thursday, May 31, 2018

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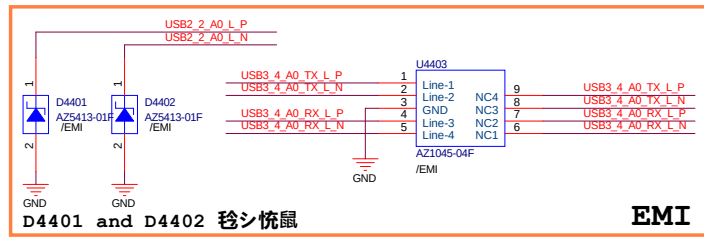
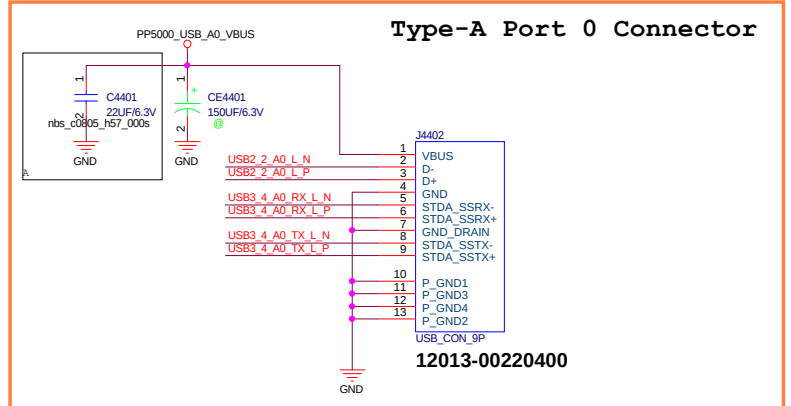
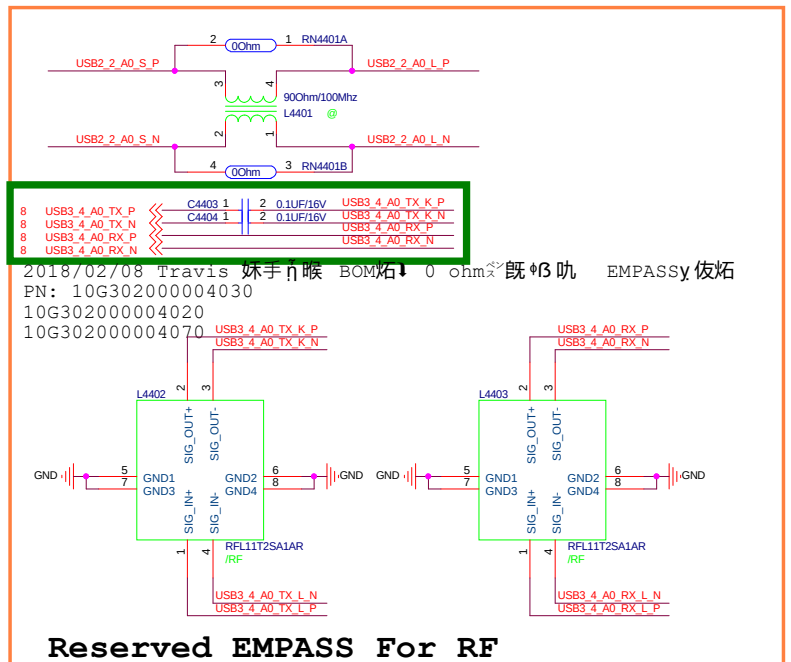
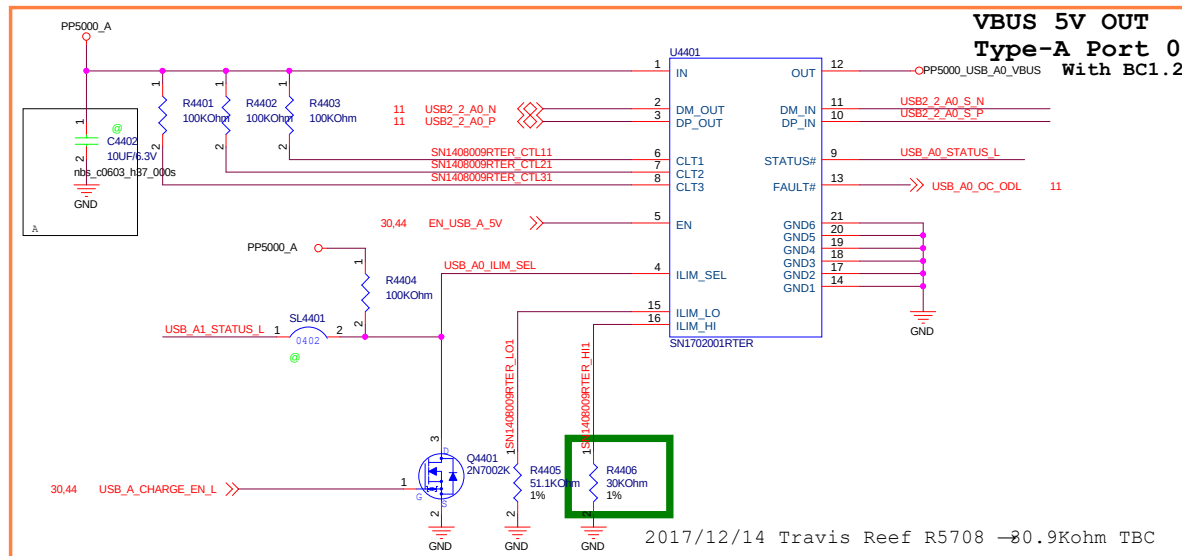


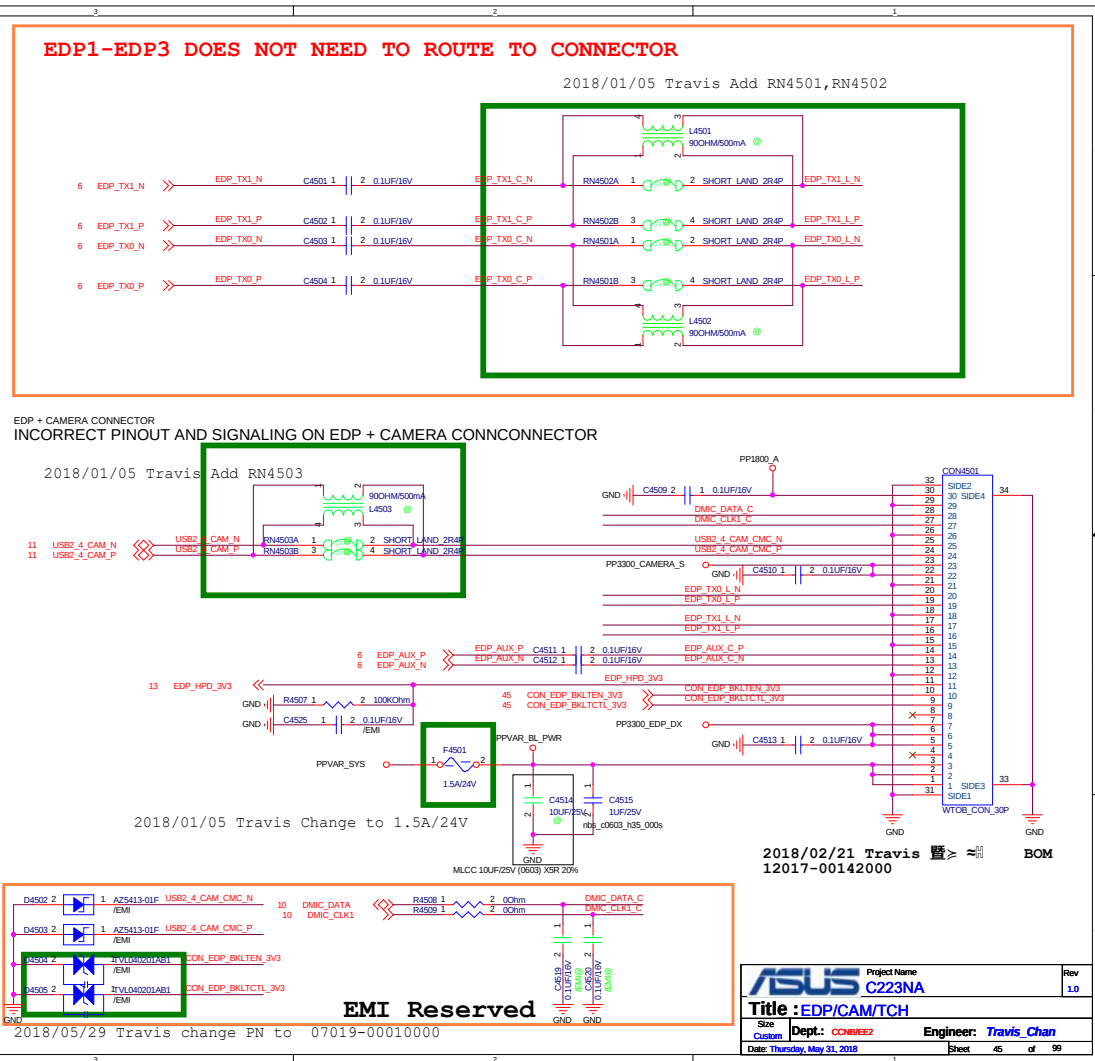
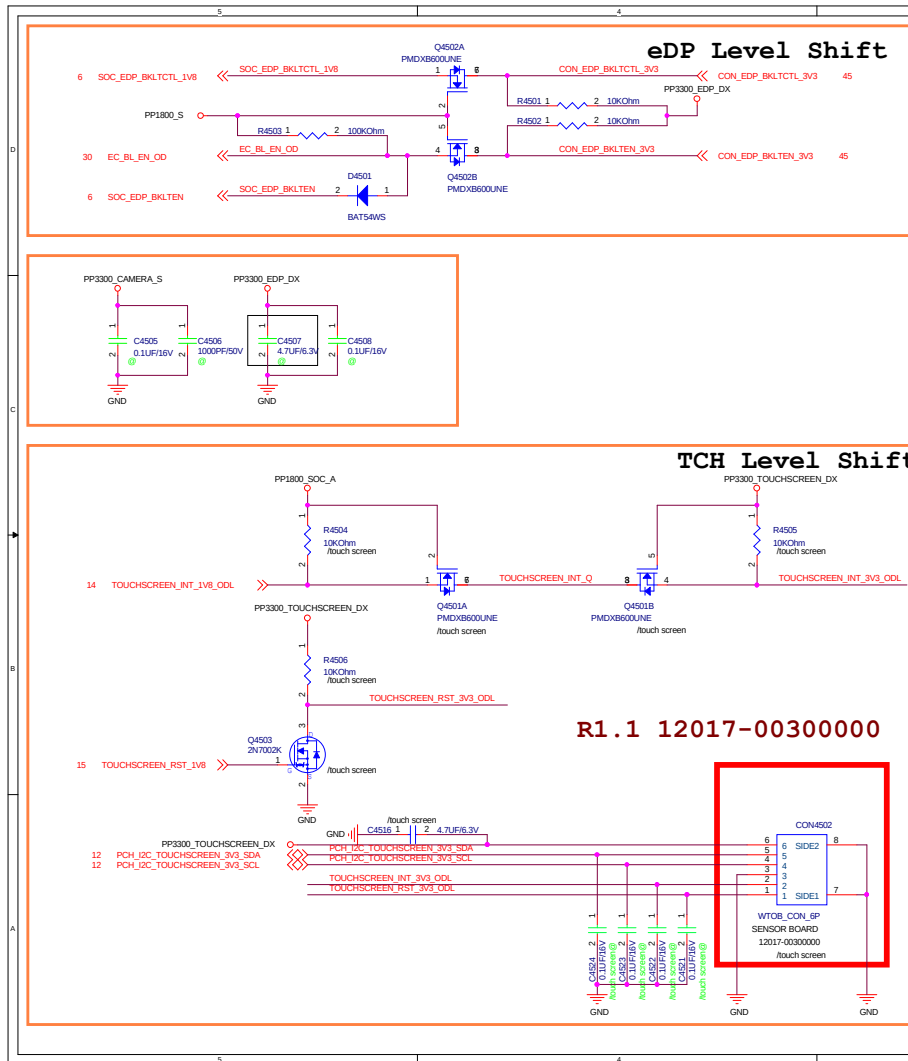
Type-C Port 0 Connector



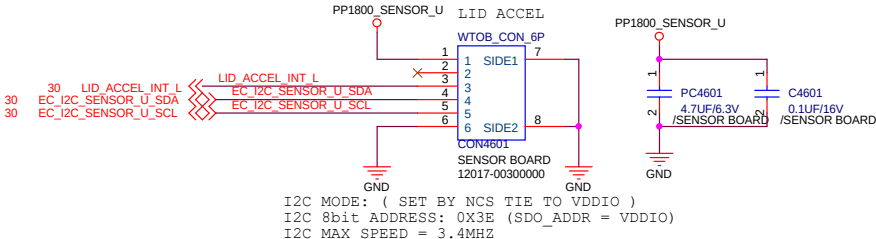
EMI

ASUS		Project Name	Rev
C223NA			1.0
Title : Type-C Conn			
Size	Dept.:	Engineer:	
Custom	CCNB/EE2	Travis_Chan	
Date: Thursday, May 31, 2018		Sheet	of
		43	99





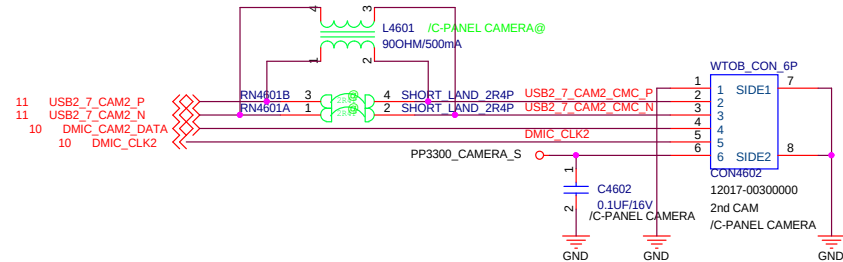
SENSOR BOARD (KX022)



NOTE: SEE WHITE PAPER ON ACCEL PLACEMENT FOR CONVERTIBLES

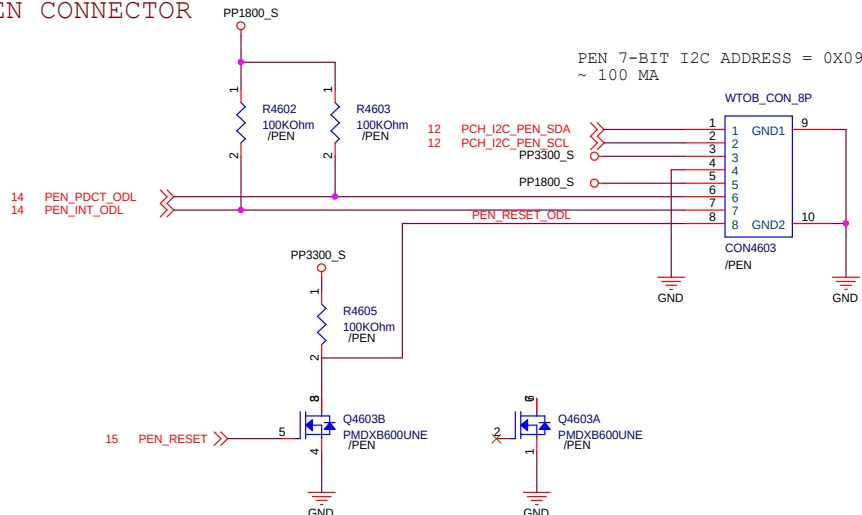
R1.1

C-PANEL CAMERA

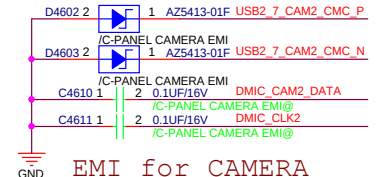



R1.1

PEN CONNECTOR



R1.1



		Project Name C403NA	Rev 1.0
Title : <u>Temp LID ACCEL/PEN/CAM2/KB _BL</u>			
Size Custom	Dept.: <u>CCNB/E2E</u>	Engineer: <u>Travis Chan</u>	
Date: <u>Thursday, May 31, 2018</u>		Sheet <u>46</u>	of <u>99</u>

5					4					3					2					1				
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C																								
B																								
A																								
5					4					3					2					1				

ASUS

Title :

Size

B

Dept.:

CCNB/EE2

Engineer:

Travis_Chan

Project Name

C223NA

Rev

1.0

Date:


Thursday, May 31, 2018

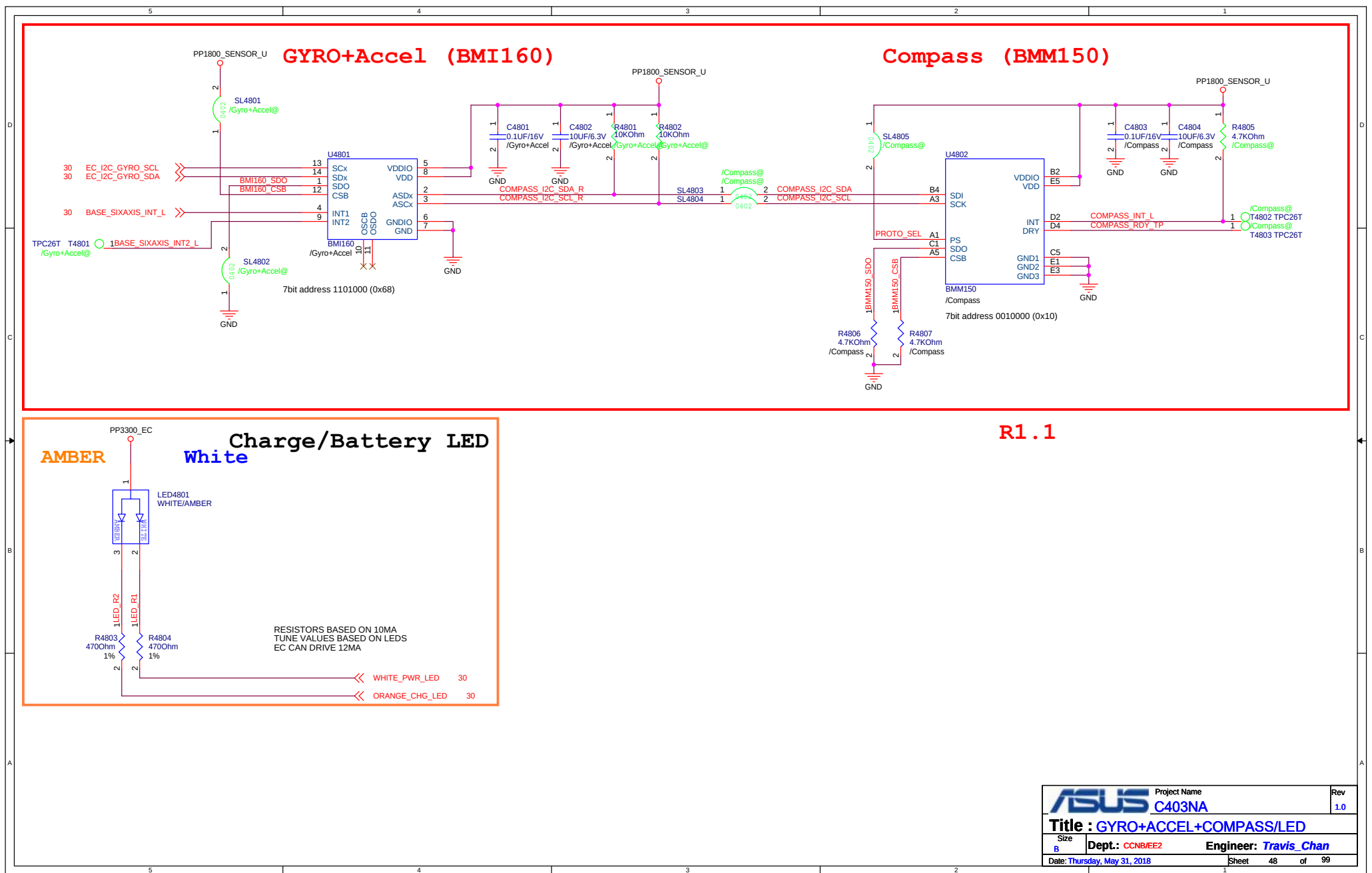
Sheet

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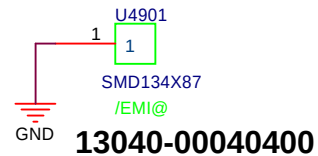
of

99

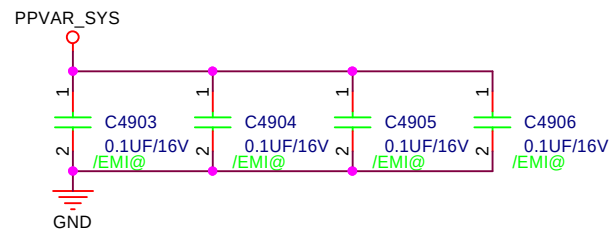
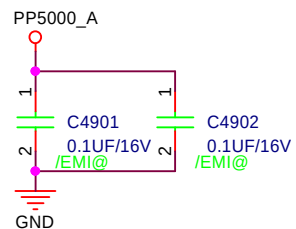
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		C223NA		1.0
Title :				
Size	Dept.:		Engineer:	
B	CCNB/EE2		Travis_Chan	
Date: Thursday, May 31, 2018		Sheet	47	of 99



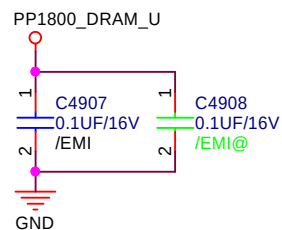
ASUS		Project Name	Rev
		C403NA	1.0
Title : GYRO+ACCEL+COMPASS/LED			
Size	Dept.:	Engineer:	
B	CCNB/EE2	Travis.Chan	
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Gasket



EMI Reserved





EMI Request

<Variant Name>

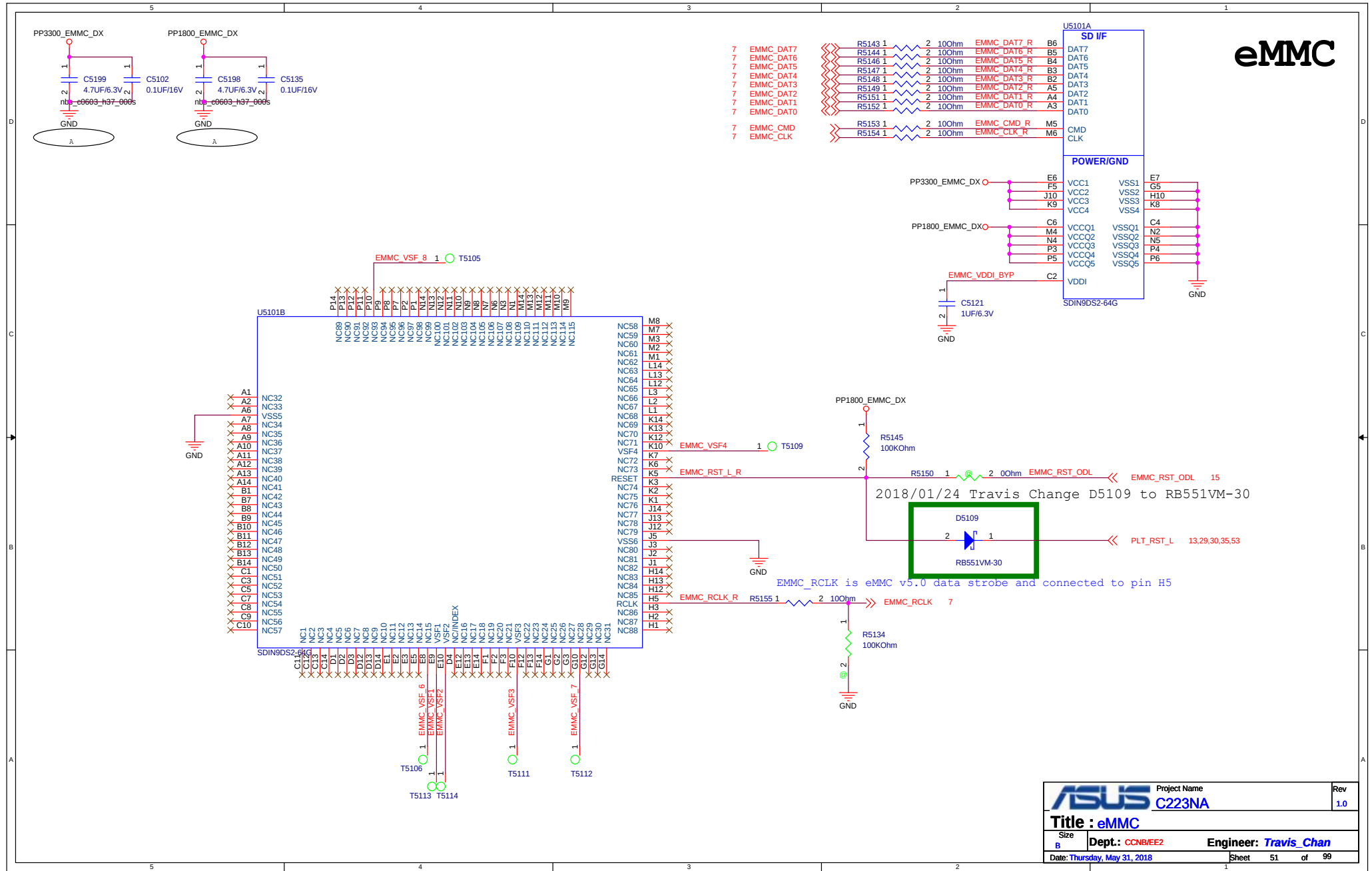
ASUS		Project Name	Rev
C223NA			1.0
Title :EMI			
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan
A	Date:Thursday, May 31, 2018		Sheet 49 of 99


5					4					3					2					1				
D																								
C																								
B																								
A																								
5					4					3					2					1				

		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.:		Engineer:	
B	CCNB/EE2		Travis_Chan	
Date: Thursday, May 31, 2018		Sheet	50	of 99

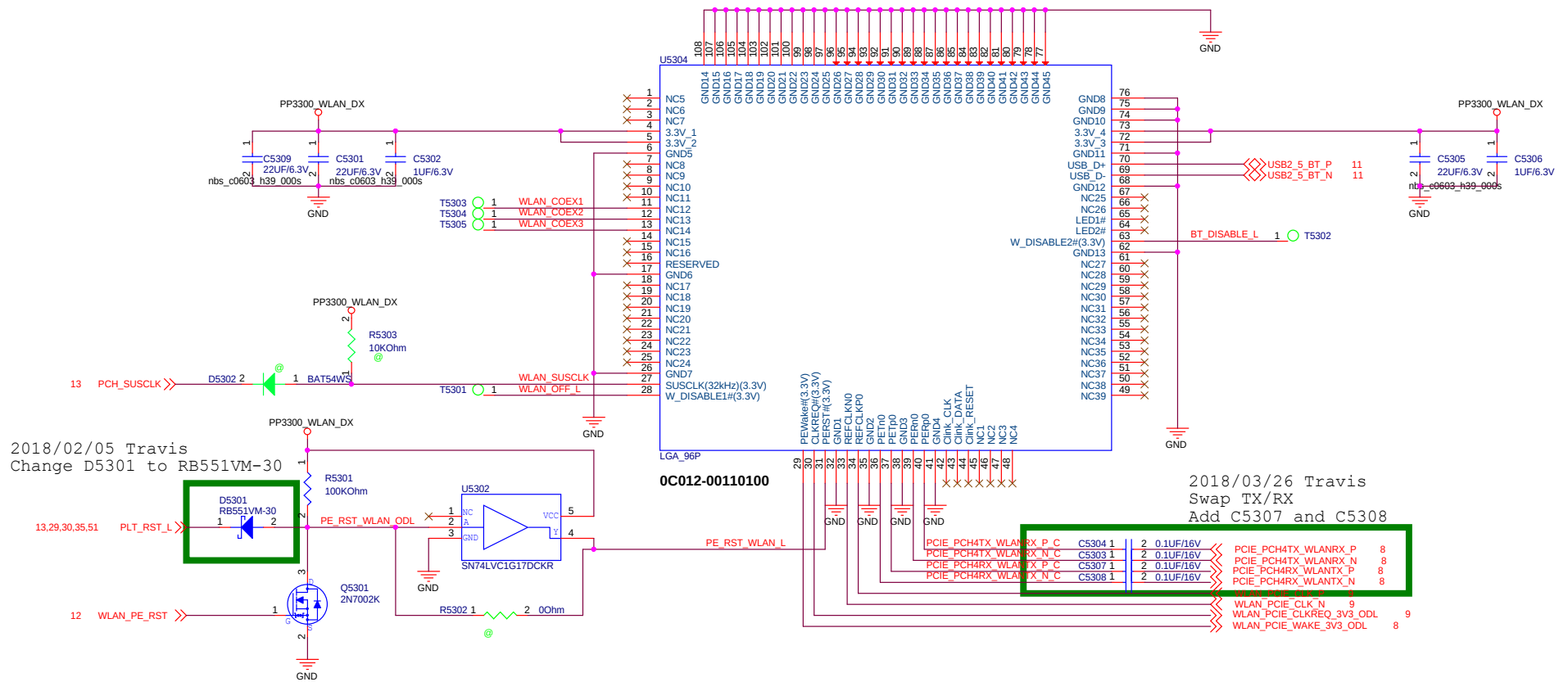
		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan	
B				
Date: Thursday, May 31, 2018			Sheet	50 of 99

eMMC




		Project Name C223NA		Rev 1.0	
Title :					
Size B		Dept.: CCNBJEE2		Engineer: Travis_Chan	
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2018/02/05 Travis Change WIFI to on board module, PN: 0C012-00110100



5					4					3					2					1				
D																								
C																								
B																								
A																								
5					4					3					2					1				


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		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan	
B			Travis_Chan	
Date: Thursday, May 31, 2018				
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Title :					
Size B		Dept.: CCNB/EE2		Engineer: Travis_Chan	
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D																								
C																								
B																								
A																								
5					4					3					2					1				

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		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan	
B			Travis_Chan	
Date: Thursday, May 31, 2018				
		Sheet	56	of 99

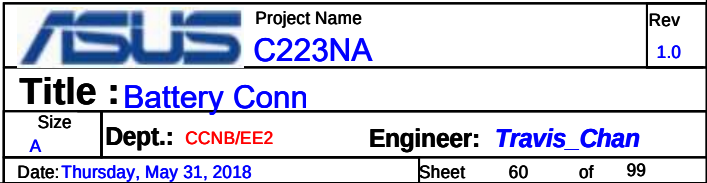
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D																								
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		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan	
B			Travis_Chan	
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D																								
C																								
B																								
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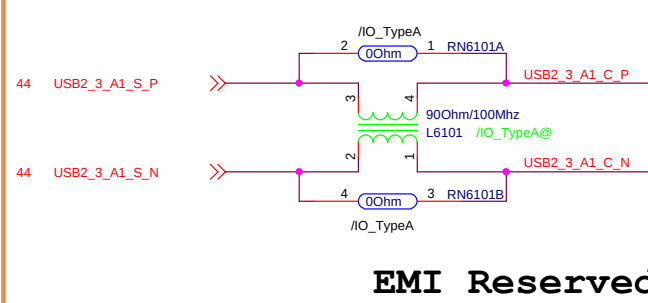
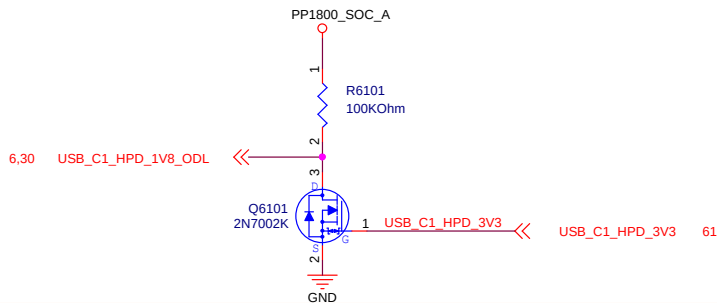
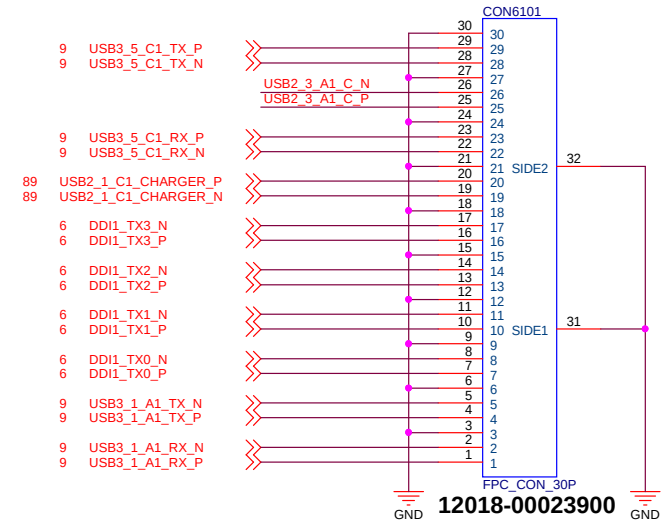
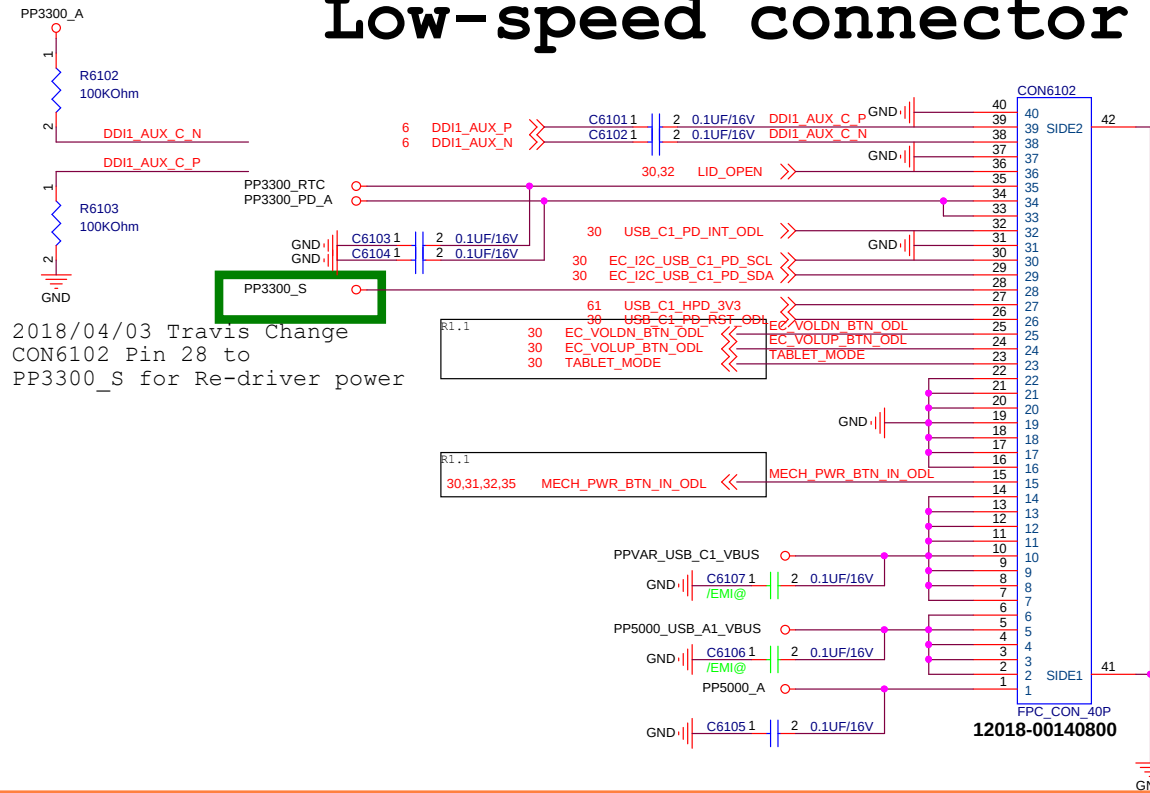
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		Project Name		Rev
		C223NA		1.0
Title :				
Size	Dept.: CCNB/EE2		Engineer: Travis_Chan	
B			Travis_Chan	
Date: Thursday, May 31, 2018				
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Low-speed connector

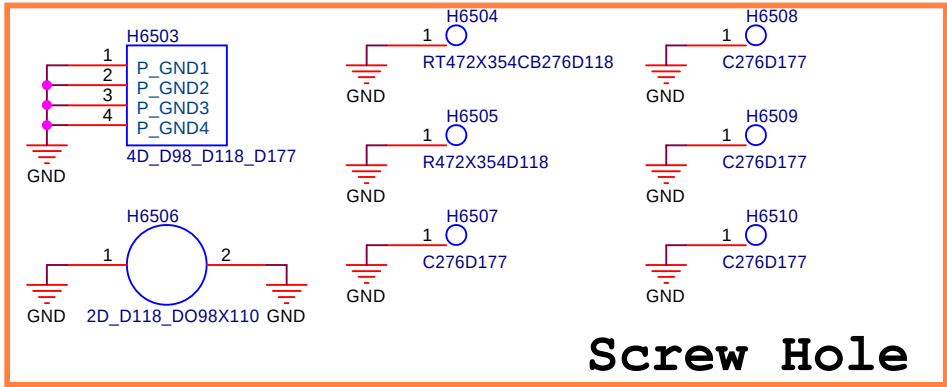
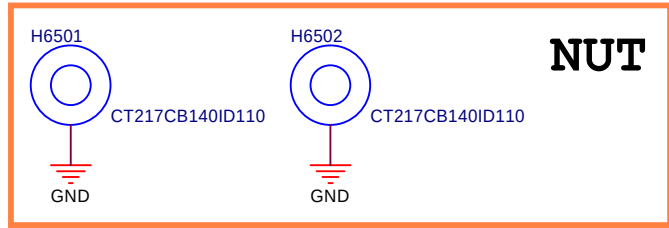
High-speed connector




ASUS		Project Name	Rev
C223NA			1.0
Title : B to B Connector			
Size	Dept.:	Engineer:	
Custom	CCNB/EE2	Travis_Chan	
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		Project Name	Rev
C223NA			1.0
Title :			
Size	Dept.: CCNB/EE2	Engineer: Travis Chan	
B			
Date: Thursday, May 31, 2018		Sheet	62 of 99

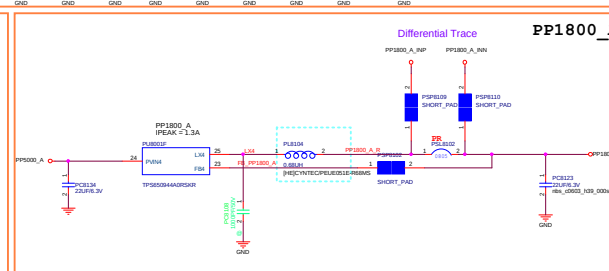
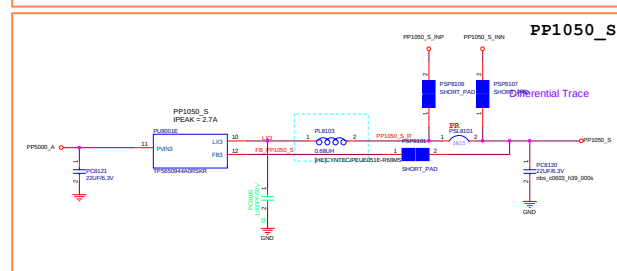
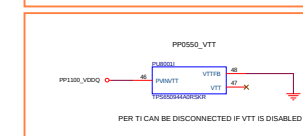
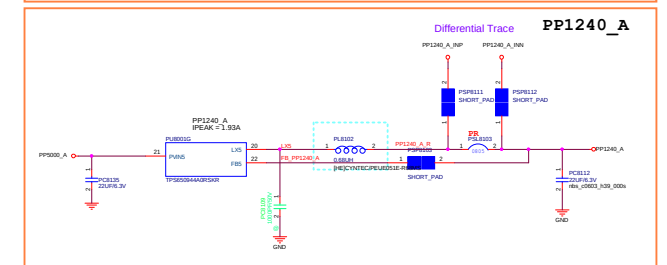
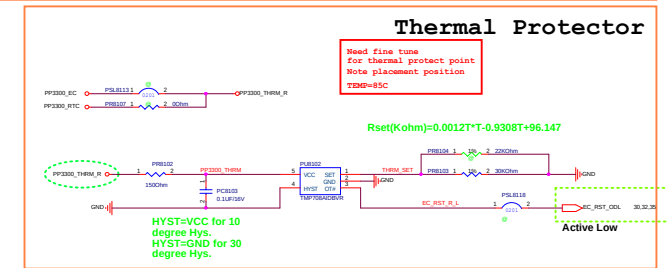
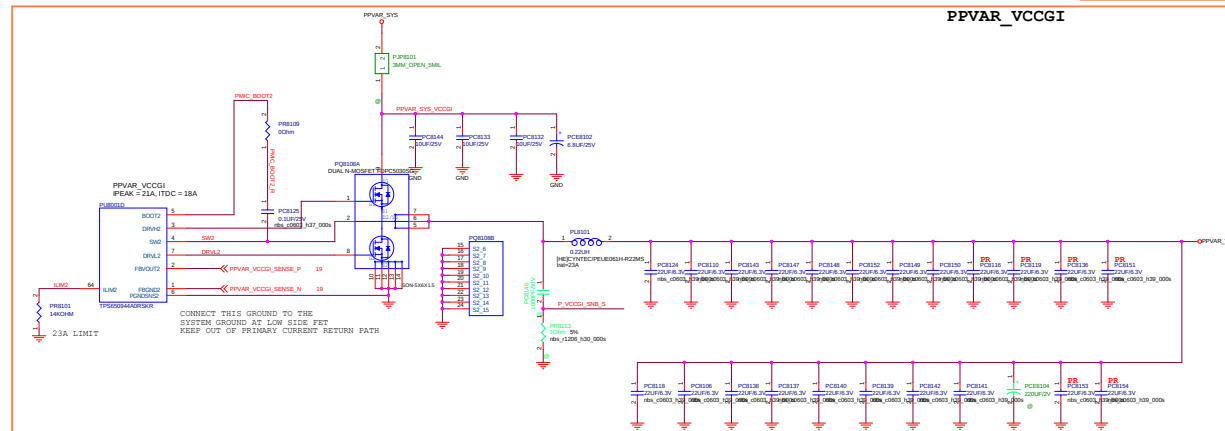
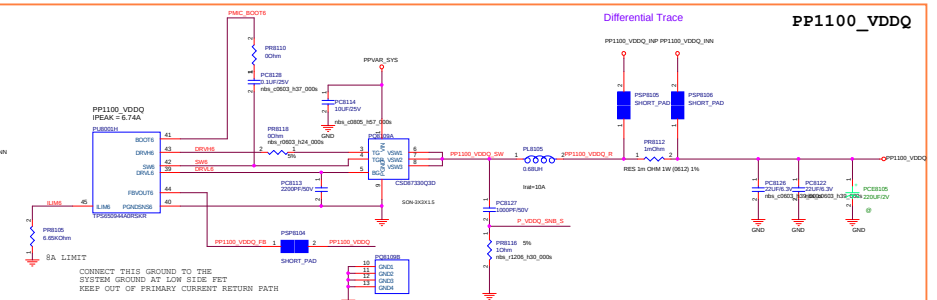
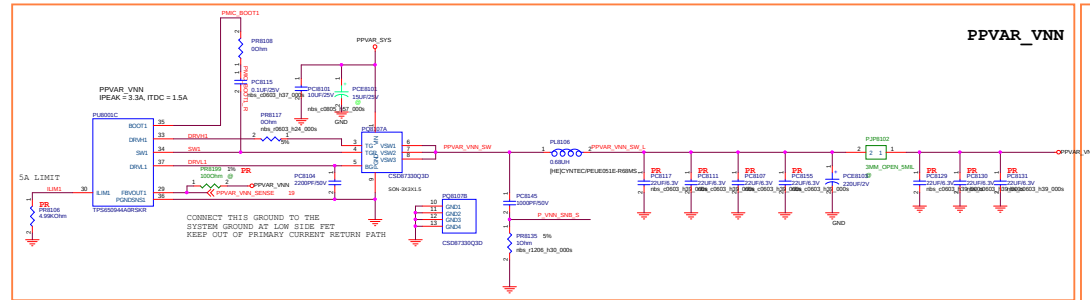
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Title :					
Size B		Dept.: CCN/BEE2		Engineer: Travis_Chan	
Date: Thursday, May 31, 2018		Sheet 63		of 99	



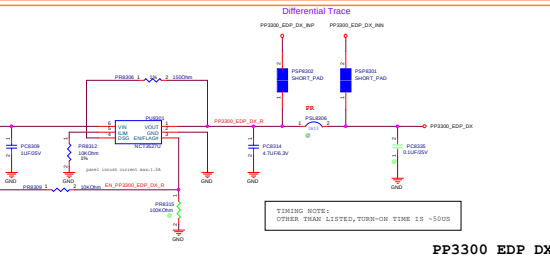
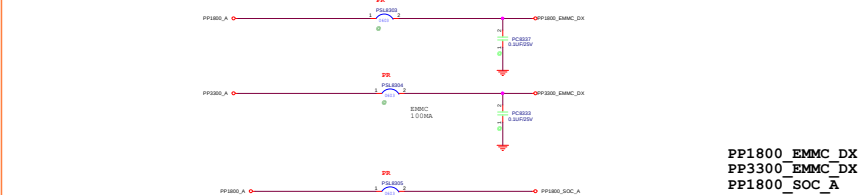
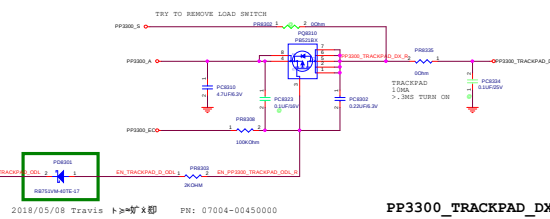
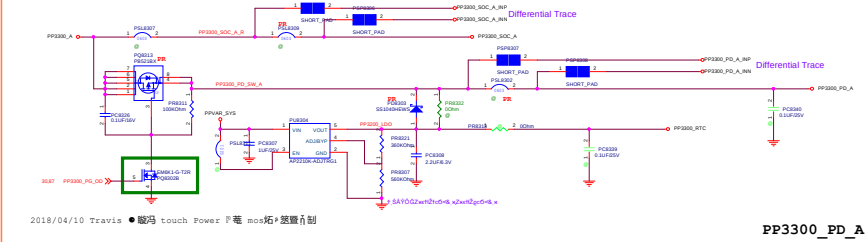
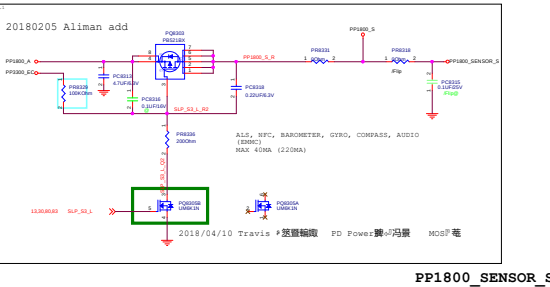
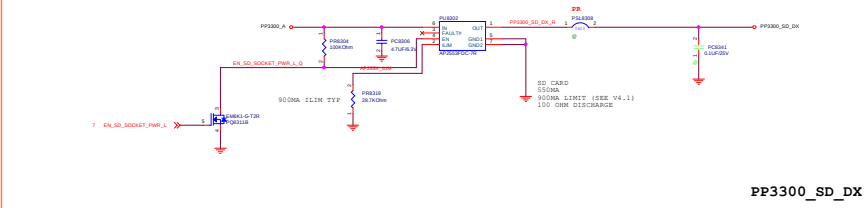
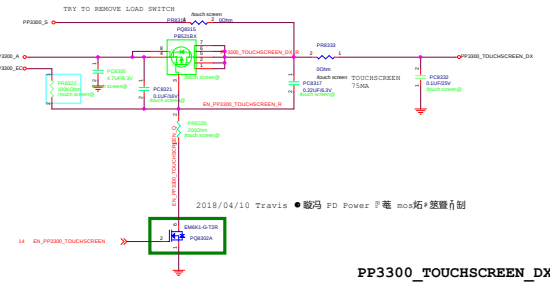
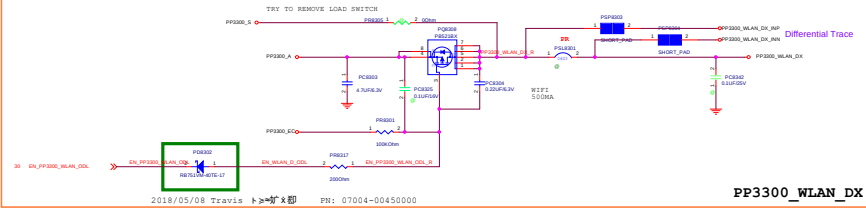
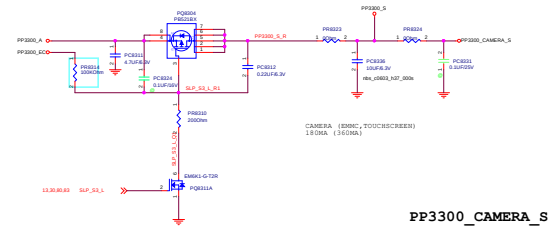
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Project Name		Rev
ASUS C223NA		1.0
Title : SCREW HOLE		
Size	Dept.:	Engineer:
A	CCNB/EE2	Travis_Chan
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		Project Name	Rev
		C223NA	1.0
Title :			
Size	Dept.:	Engineer:	
B	CCNB/EE2	Travis Chan	
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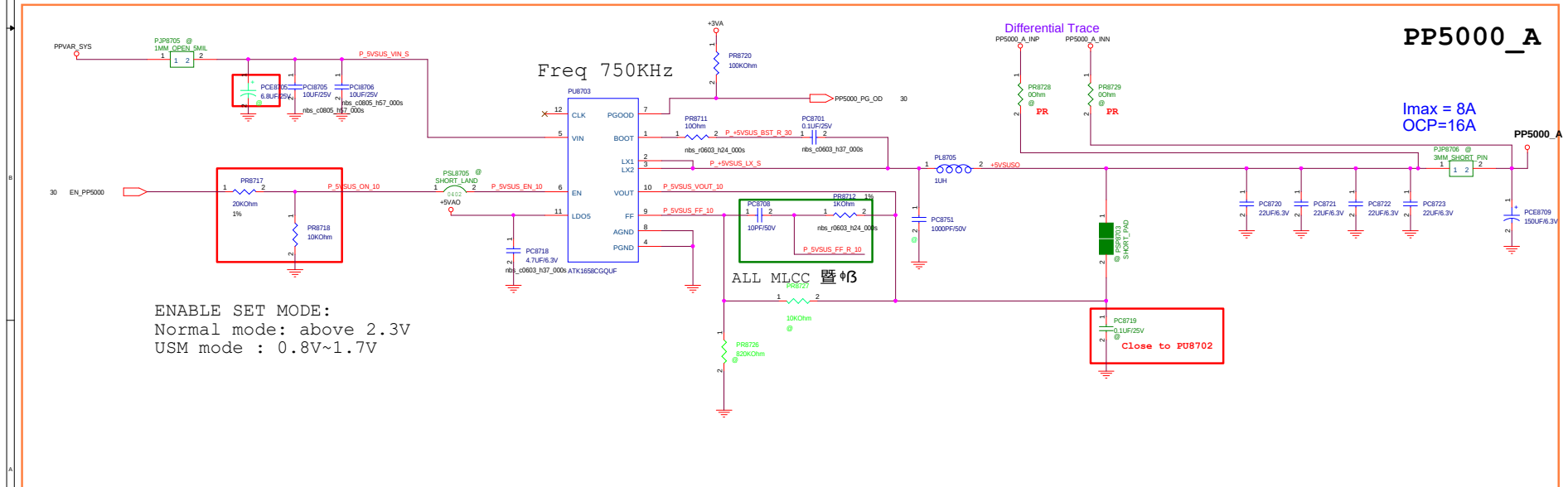
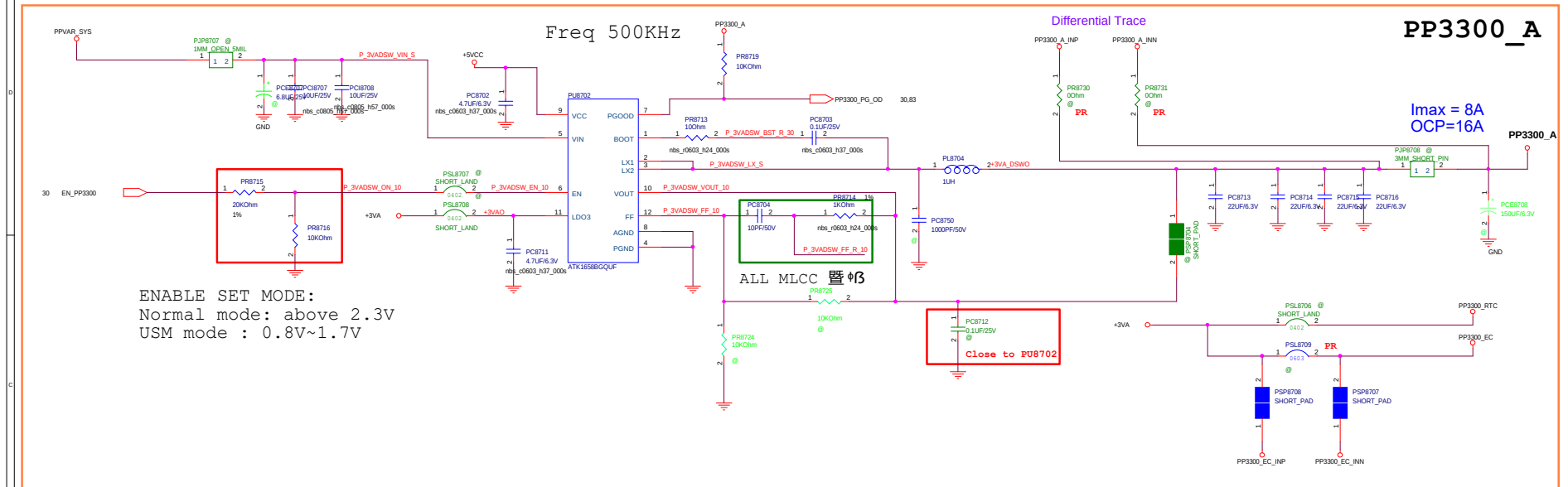
POWER - PMIC RAILS



POWER - LOAD SWITCHES



3VA_DSW/+5VSUS



POWER - BATTERY CHARGER

ROHM BUCK-BOOST CHARGER

