


LCFC Confidential

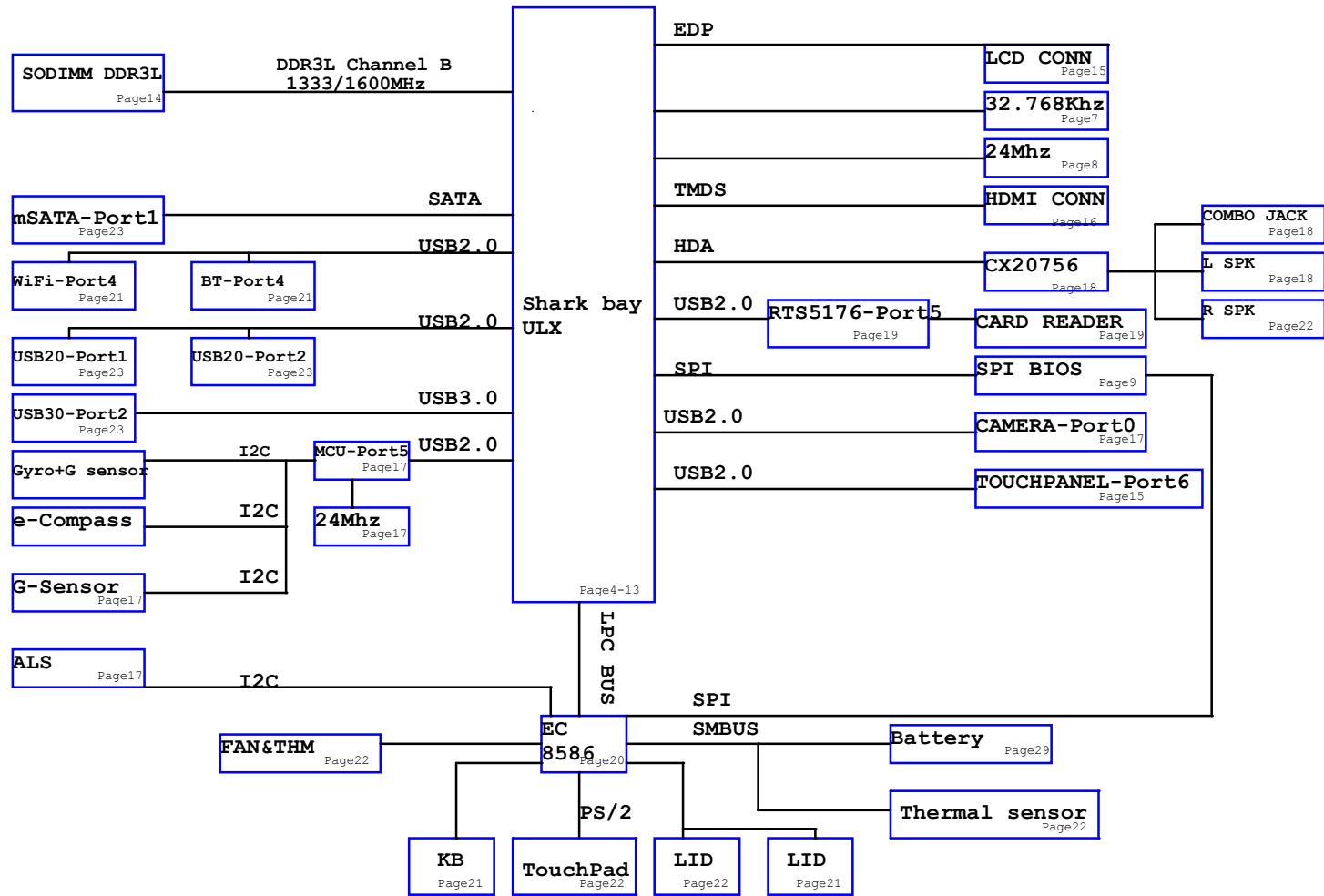
VENUS3 M/B Schematics Document INTEL Haswell Mobile ULT Platform

2013-04-01

REV: 0.1

Security Classification	LC Future Center Secret Data			Title	Cover Page	
Issued Date	2013/03/26	Deciphered Date	2013/02/01	Size	Document Number	Rev
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Voltage Rails (O --> Means ON , X --> Means OFF)

Power Plane / State	B+	+12VSB +3VALW +5VALW	+3VALW_PCH	+1.35V	+5VS +3VS +1.5VS +1.05VS +0.68VS +CPU_CORE +GFX_CORE
S0	O	O	O	O	O
S3	O	O	O	O	X
DS3	O	O	X	O	X
S5 S4/AC Only	O	O	O	X	X
S5 S4 Battery only	O	X	X	X	X
S5 S4 AC & Battery don't exist	X	X	X	X	X

STATE	SIGNAL	SLP_S1#	SLP_S3#	SLP_S4#	+VALW	+VALW_PCH	+V	+VS	Clock
Full ON		HIGH	HIGH	HIGH	ON	ON	ON	ON	ON
S1 (Power On Suspend)		LOW	HIGH	HIGH	ON	ON	ON	ON	LOW
S3 (Suspend to RAM)		LOW	LOW	HIGH	ON	ON	ON	OFF	OFF
DS3 (Suspend to RAM)		LOW	LOW	HIGH	LOW	LOW	ON	OFF	OFF
S4 (Suspend to Disk)		LOW	LOW	LOW	ON	ON	OFF	OFF	OFF
S5 (Soft OFF)		LOW	LOW	LOW	ON	ON	OFF	OFF	OFF

SMBUS Control Table

	SOURCE	Main VGA	ALS	BATT	IT8580#	SODIMM	WLAN WIMAX	Thermal Sensor	PCH	TP Module
EC_SMB_CLK1 EC_SMB_DAT1	IT8586 +3VALW_EC	X	V +3VS	V +3VLP	X	X	X	X	X	X
EC_SMB_CLK3 EC_SMB_DAT3	IT8586 +3VS	X	X	X	X	X	X	V +3VS	V +3VALW_PCH	X
SMB_CLK SMB_DATA	PCH +3VALW_PCH	X	X	X	X	V +3VS	X	X	X	V +3VS

SM Bus address

Device	address
Battery	0001 011X b
Charger	
ALS	
Thermal Sensor	1001_101xb
PCH THM	
DDR DIMM	1001 000Xb
TP	

PCIe PORT LIST

Port	Device
0	X
1	X
2	X
3	X
4	X
5	X

USB Port Table

Port	Device
0	CAMERA
1	Left USB
2	Right USB
3	CARD READER
4	WLAN
5	MCU
6	TOUCH PANEL
7	X

BOM Structure Table

BOM Structure	DA8@	HDMI@	USB30@	RF@	EMC@	45@				
BOM Structure										

Board ID Table

Board ID	Description	PCB Revision

BOM Configuration Table


SKU	Description	BOM Config
SKU1	Intel I3-4010Y 1.3G ULX 6W 2+2 QS	45: HDMI@ 43: DA8@, 4100@, RF@
SKU2	Intel I5-4200Y 1.4G ULX 6W 2+2 QS	45: HDMI@ 43: DA8@, 4200@, RF@

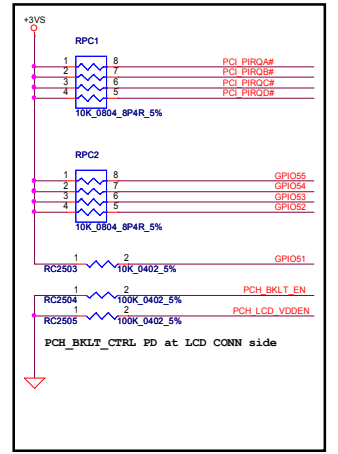
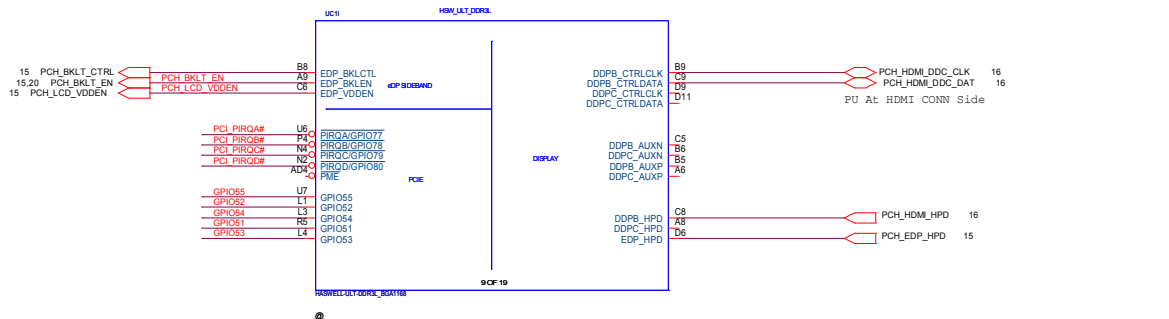
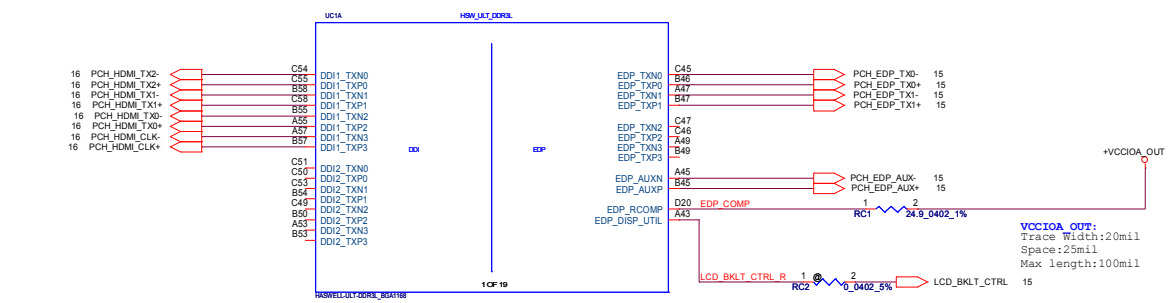
X76&VGA Configuration Table

SKU	Description	BOM Config

PCB And LOGO Config

	CPU	PCB	LOGO
NPI DA8:xxxxx	ZZZ 4010@ CL8064701512503 QEZV C0 1.3G BGA 1168	ZZZ DA8@ Venus3 NMA191 REV0 MB	ZZZ1 HDMI@ Venus3 HDMI LOGO ZZZ2 USB30@ Venus3 USB30 LOGO
MP DA2:xxxxx	ZZZ 4200@ CL8064701557900 QF1C C0 1.4G BGA 1168		

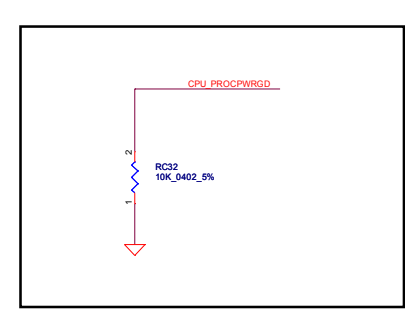
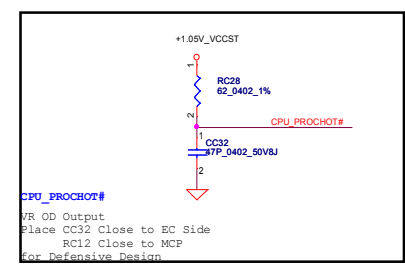
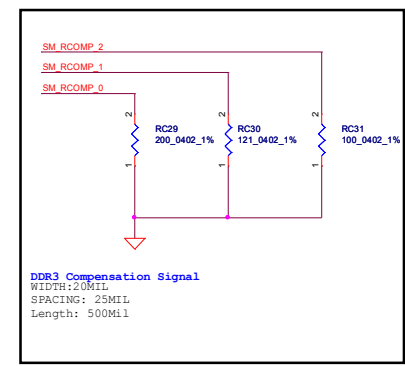
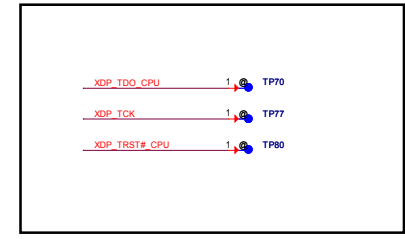
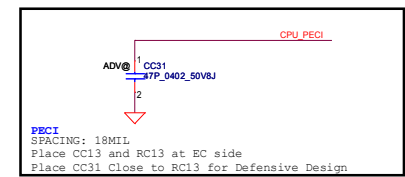
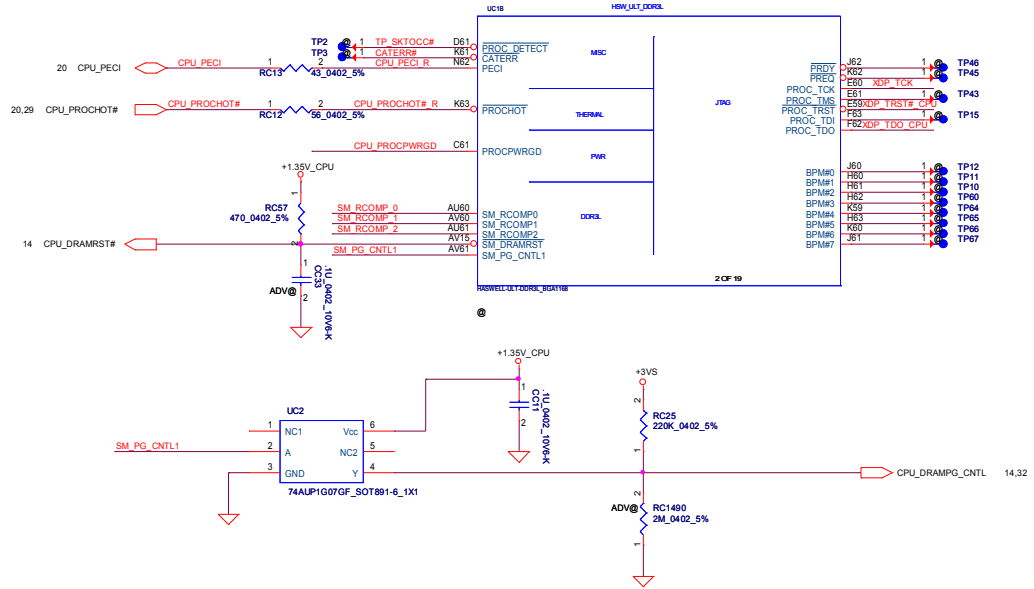
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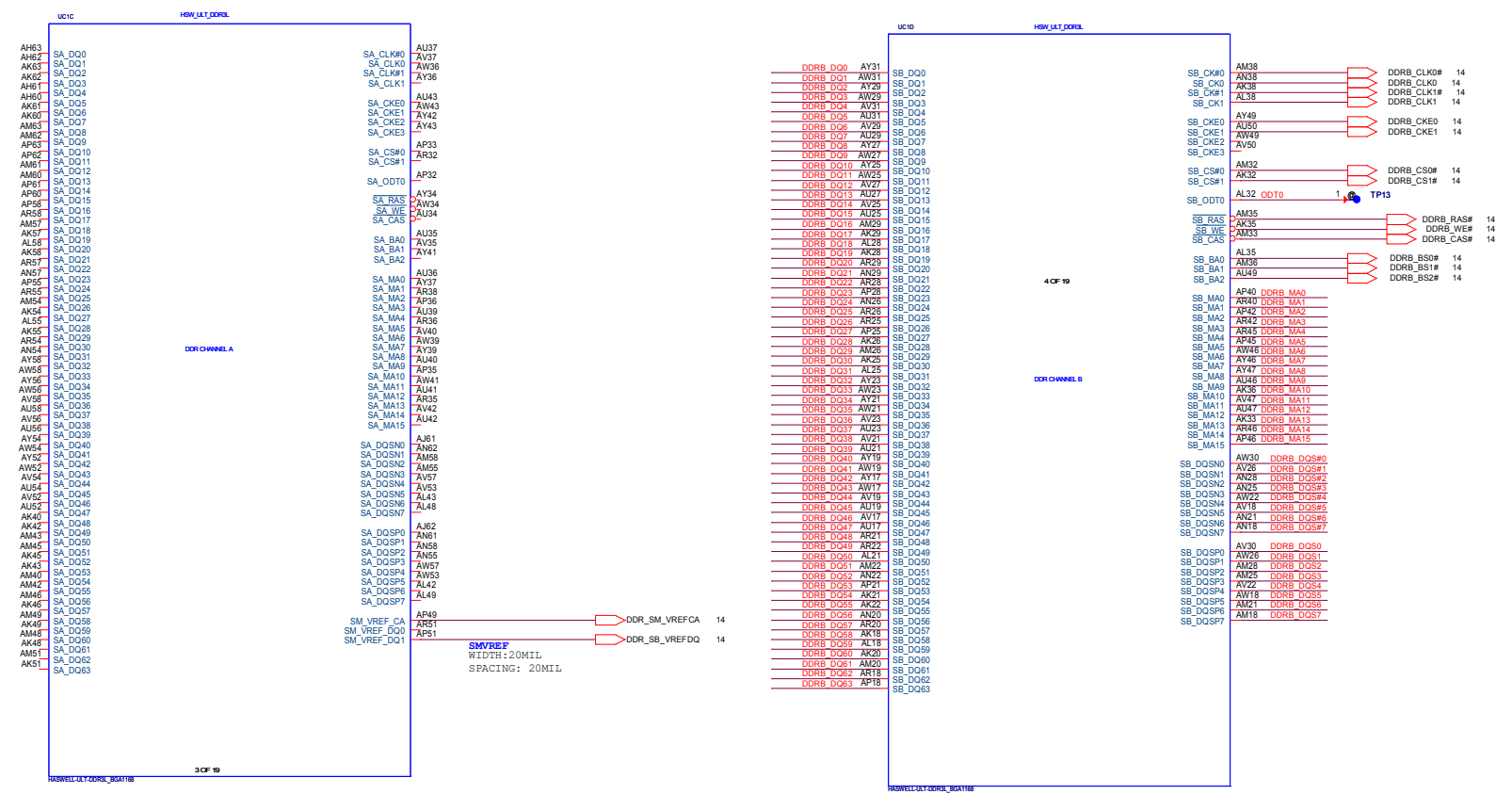
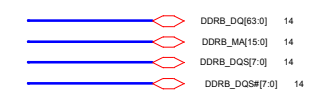


Port	DDI PROCESSOR Pin	Display Mapping
Port 1	DDI1_TXN[0]	HDMIxC_TX2_DN
Port 2	DDI1_TXP[0]	HDMIxC_TX2_DP
Port 3	DDI1_TXN[1]	HDMIxC_TX1_DN
Port 4	DDI1_TXP[1]	HDMIxC_TX1_DP
Port 5	DDI1_TXN[2]	HDMIxC_TX0_DN
Port 6	DDI1_TXP[2]	HDMIxC_TX0_DP
Port 7	DDI1_TXN[3]	HDMIxC_CLK_DN
Port 8	DDI1_TXP[3]	HDMIxC_CLK_DP
Port 9	DDPB_HPD	DDI1_HPD_Q
Port 10	DDPB_CTRLCLK	DDI1_CTRL_CK
Port 11	DDPC_CTRLDATA	DDI1_CTRL_DATA

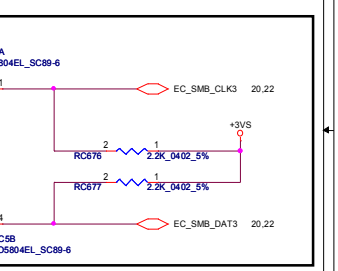
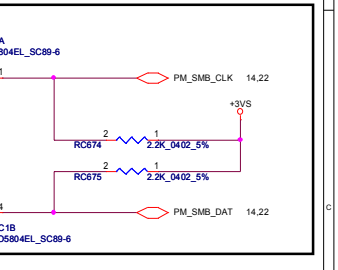
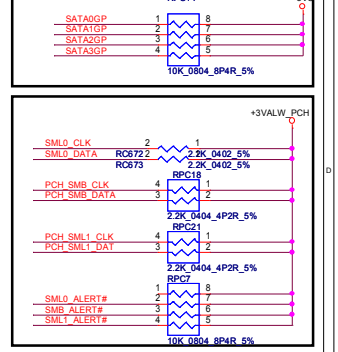
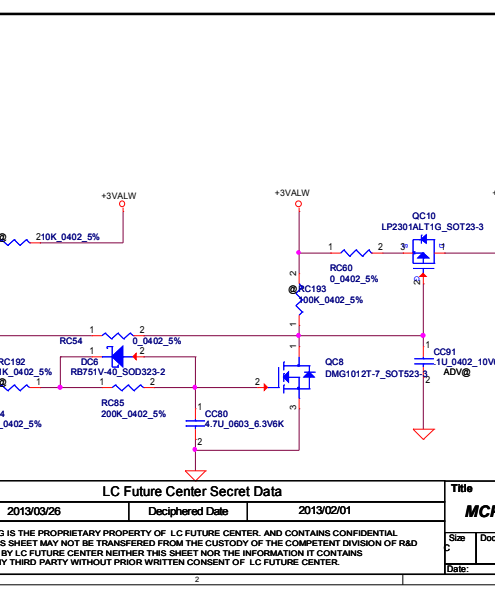
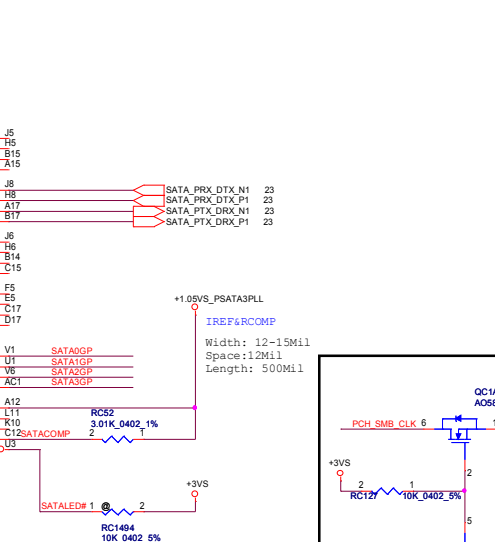
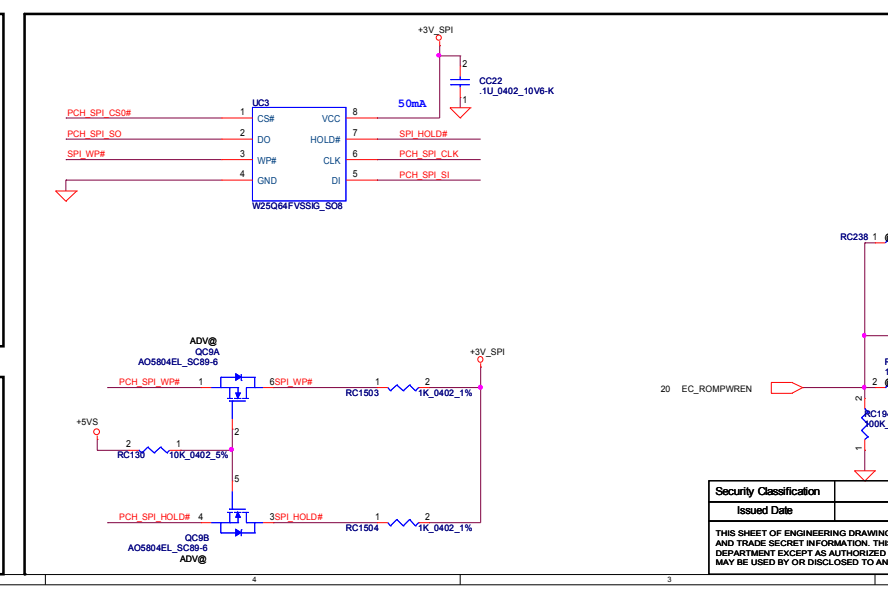
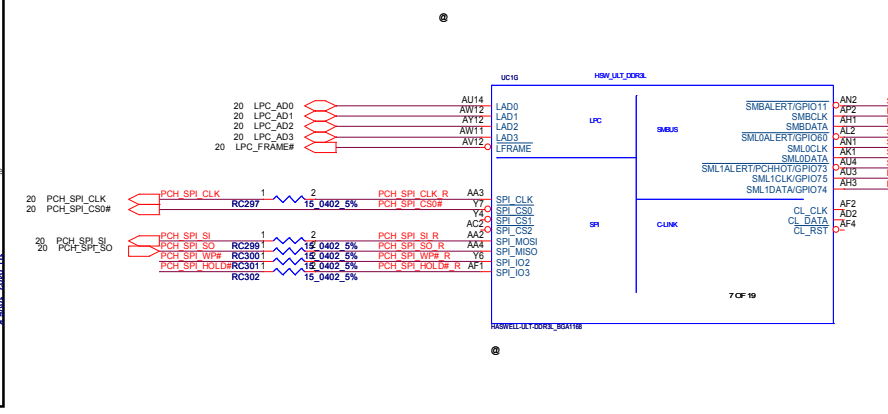
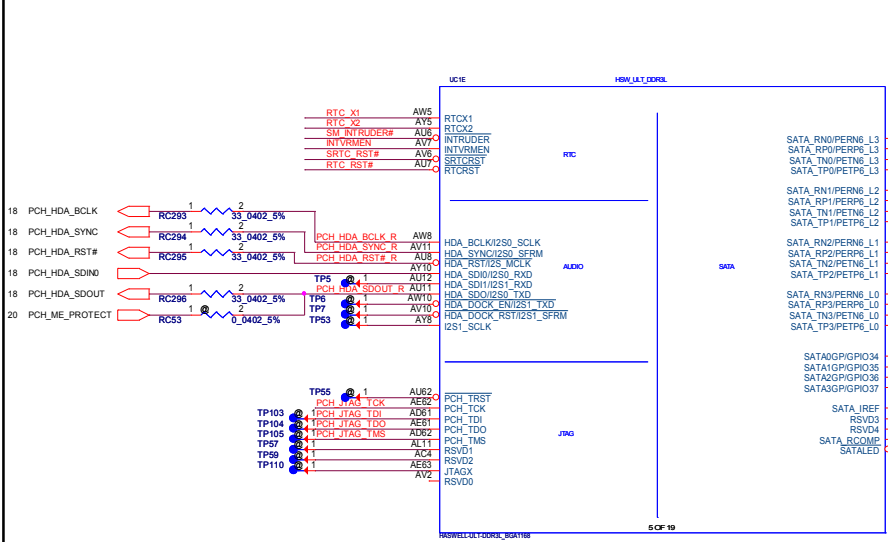
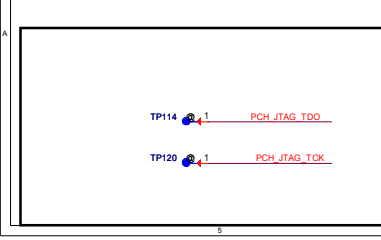
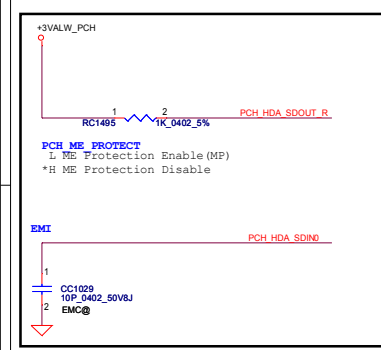
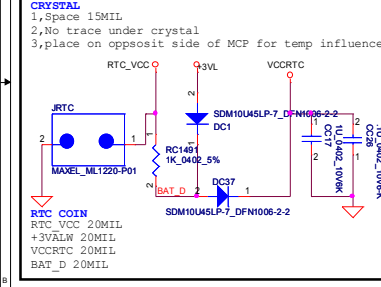
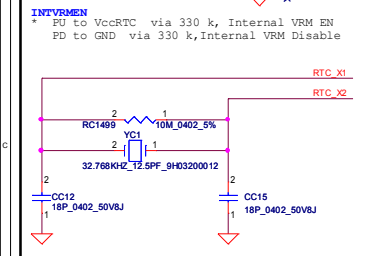
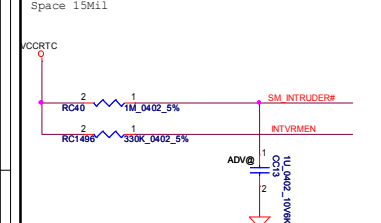
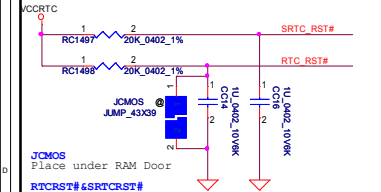
Pin Name	Recommendation
DDPC_AUXP	No Connect
DDPC_AUXN	No Connect
DDPC_HPD	No Connect
DDI2_TXP[3:0]	No Connect
DDI2_TXN[3:0]	No Connect
DDPC_CTRLCLK	No Connect
DDPC_CTRLDATA	No Connect

Haswell MCP (MISC,THERMAL,JATG)



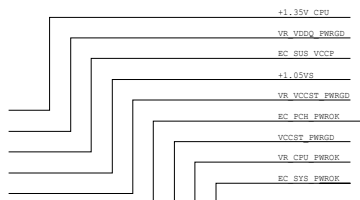
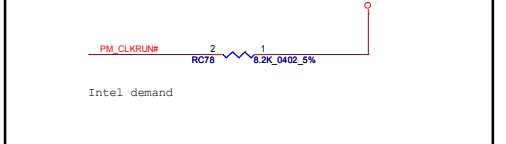
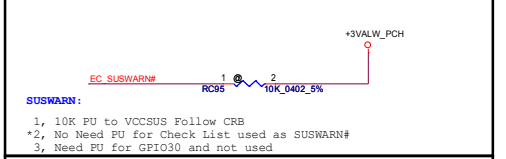
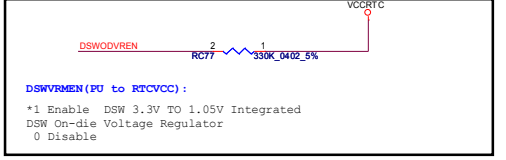
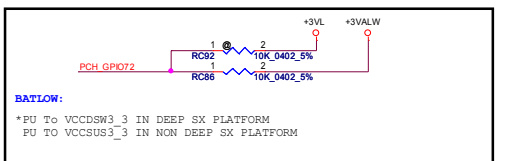
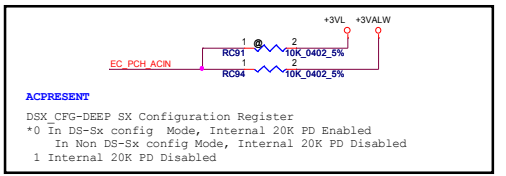
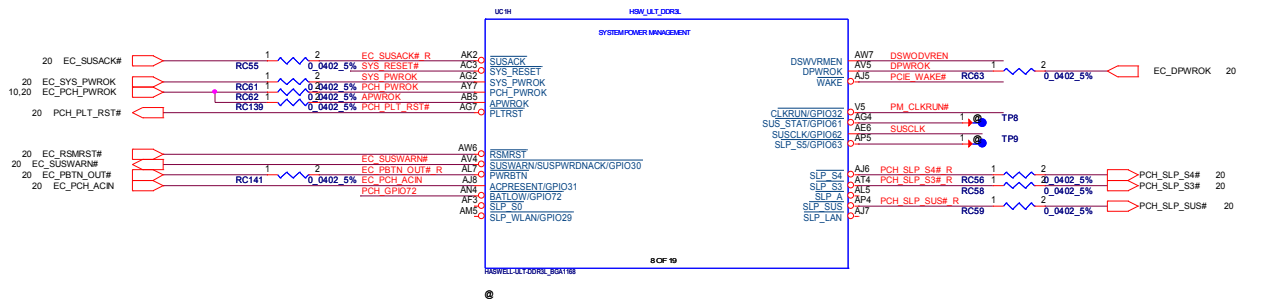
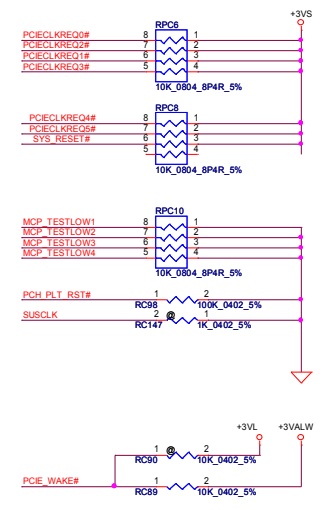
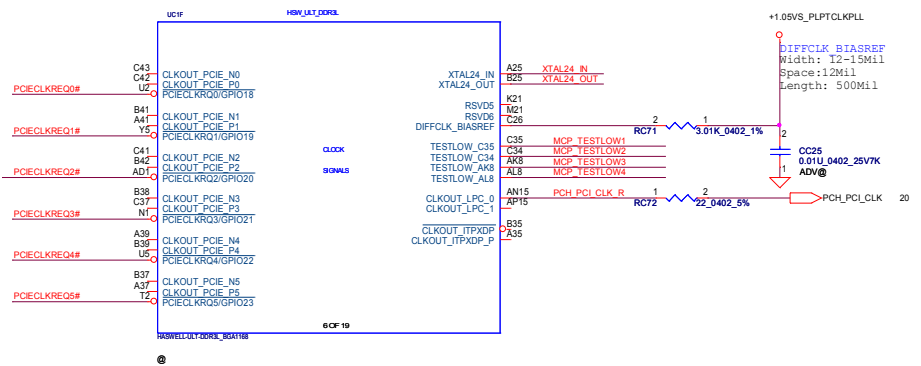
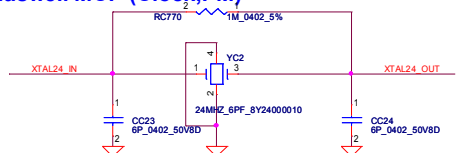


Haswell MCP (RTC,AUDIO,SATA,SATA,LPC,SPI,SMB)



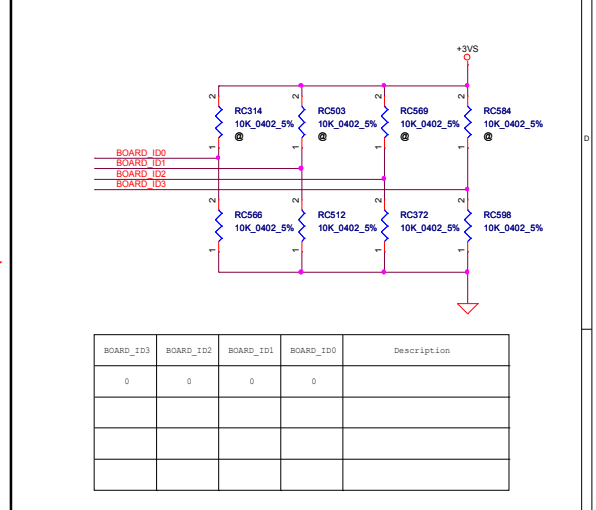
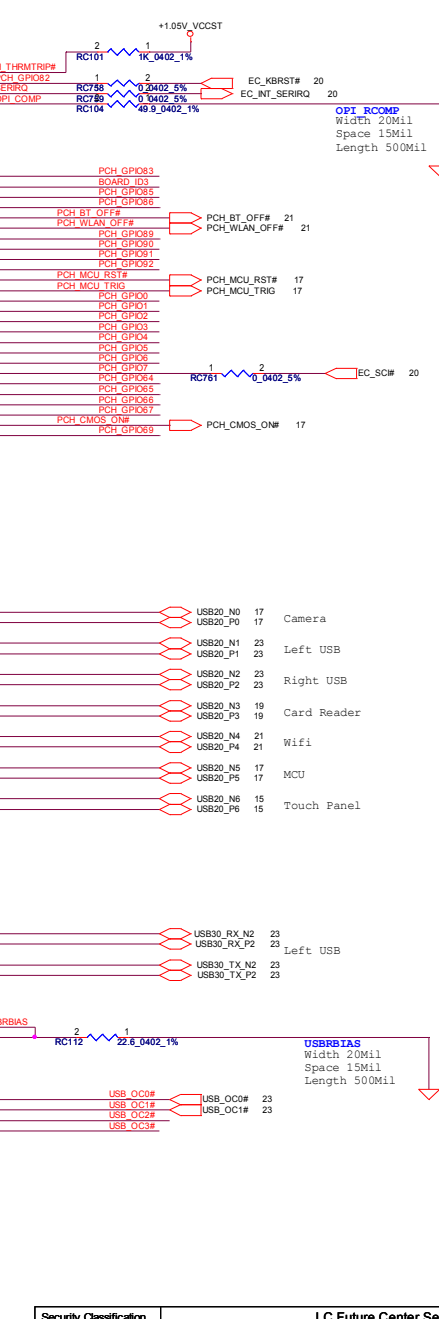
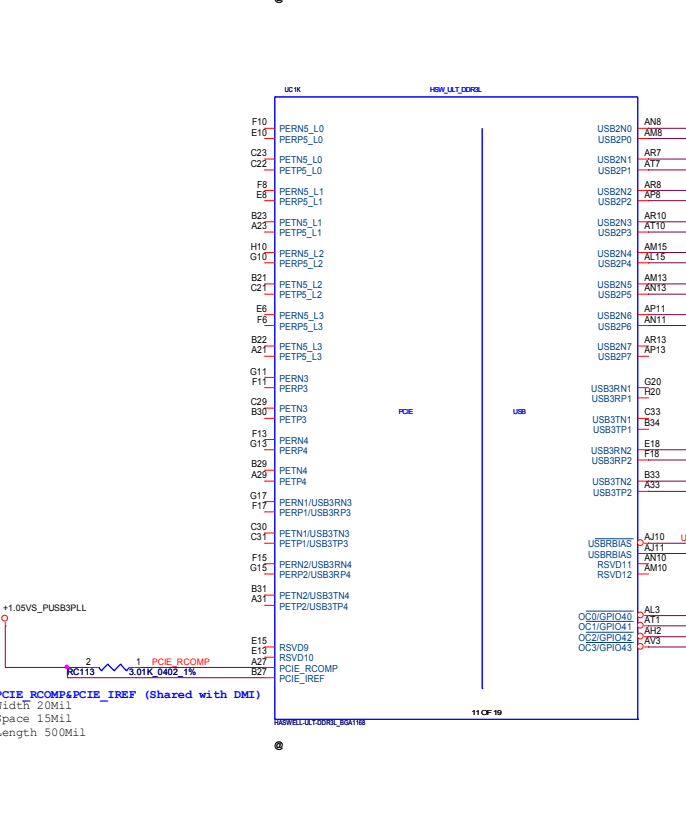
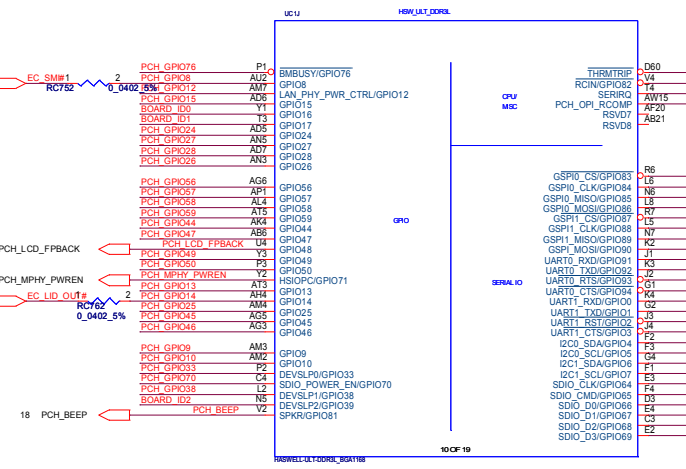
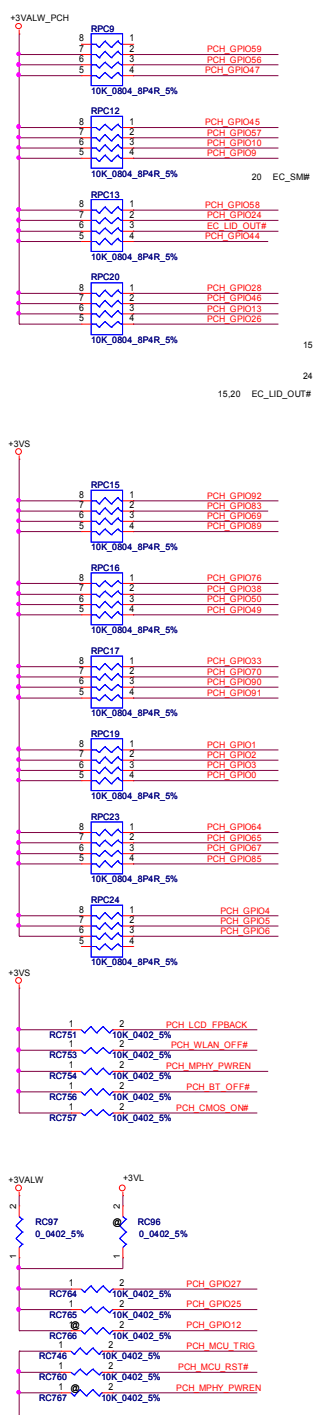
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Haswell MCP (Clock,PM)

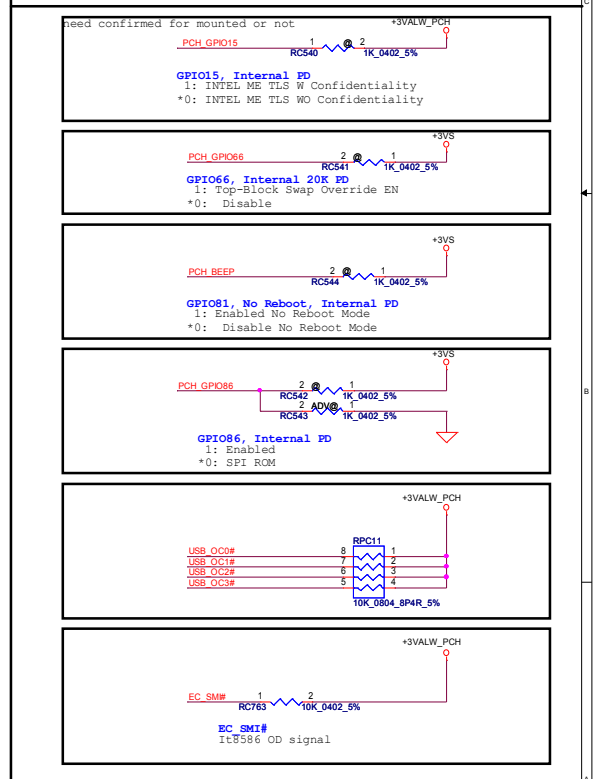


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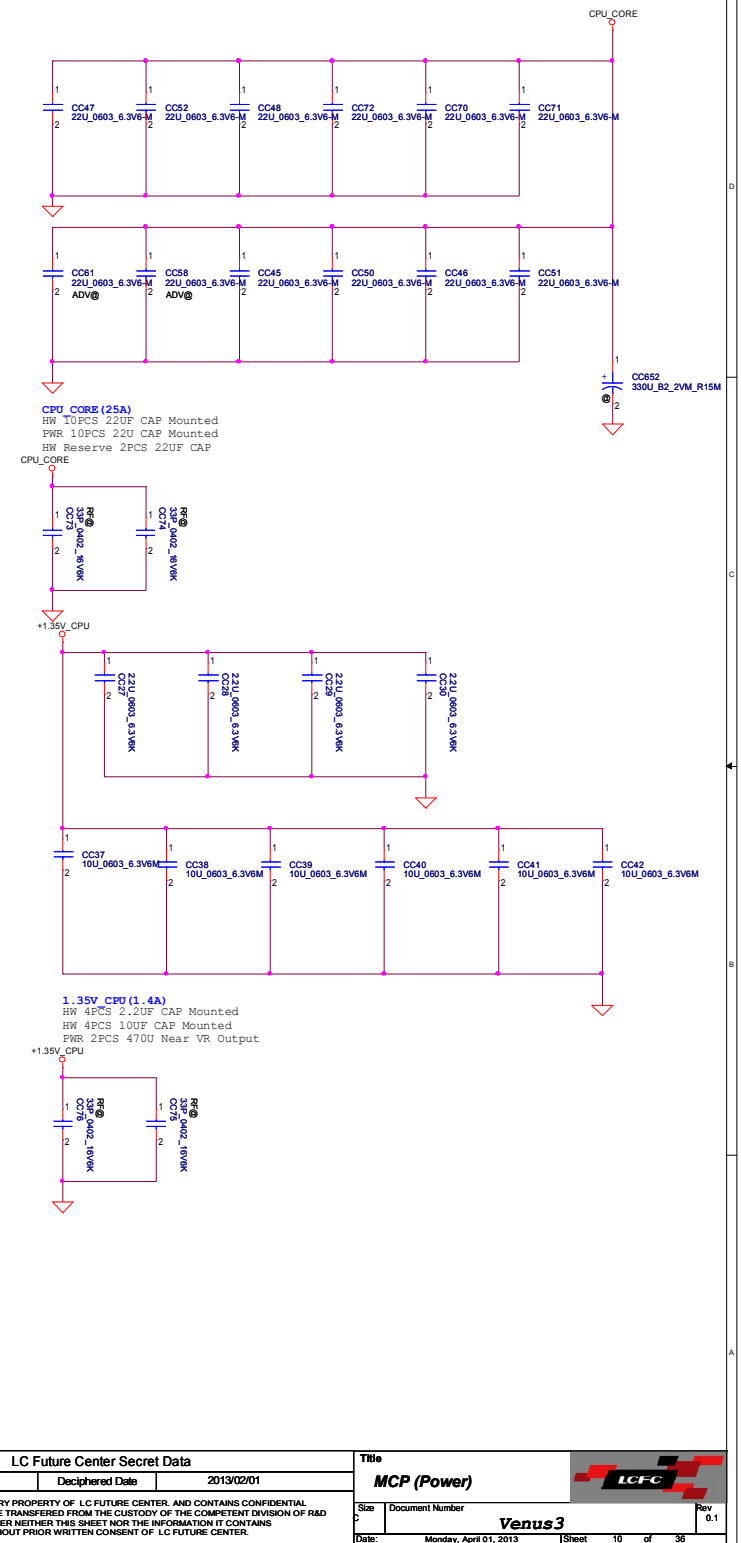
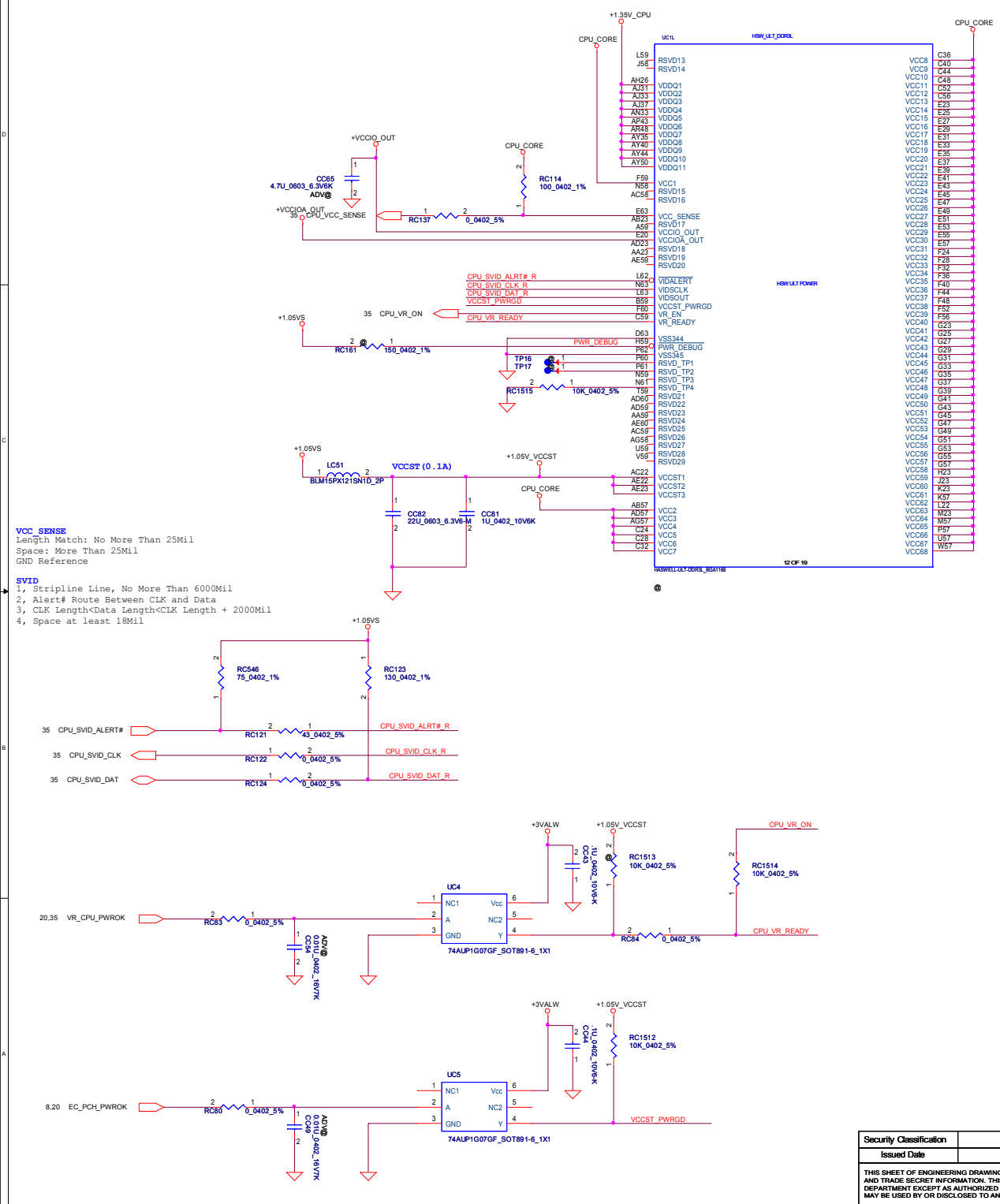
Haswell MCP (GPIO,USB,PCIE)




BOARD_ID0	BOARD_ID1	BOARD_ID2	BOARD_ID3	Description
0	0	0	0	



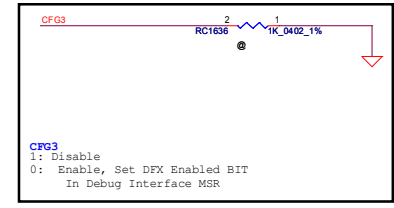
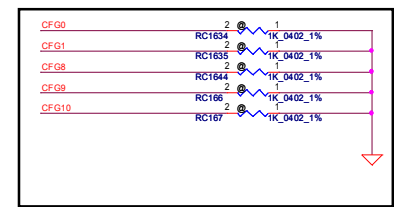
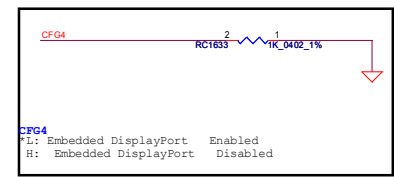
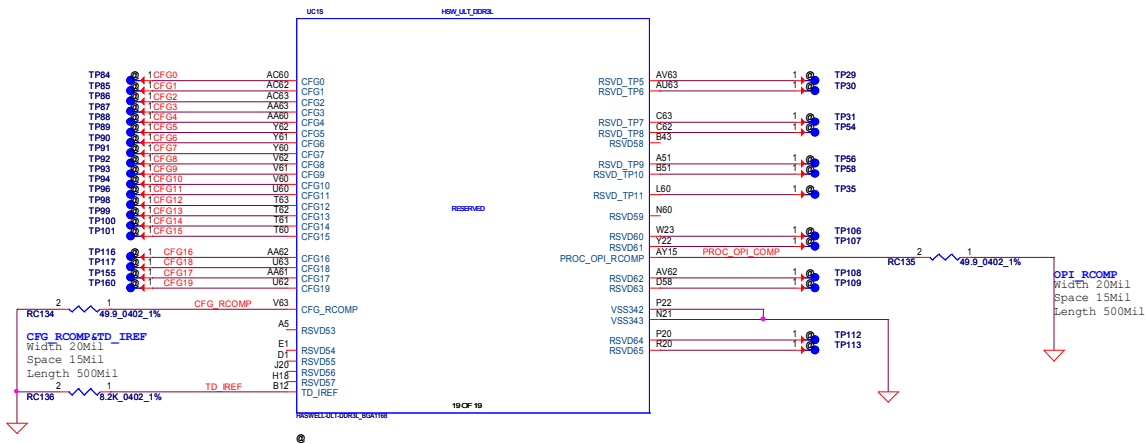
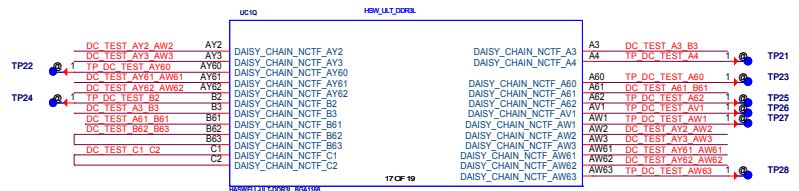
Haswell MCP (Power)

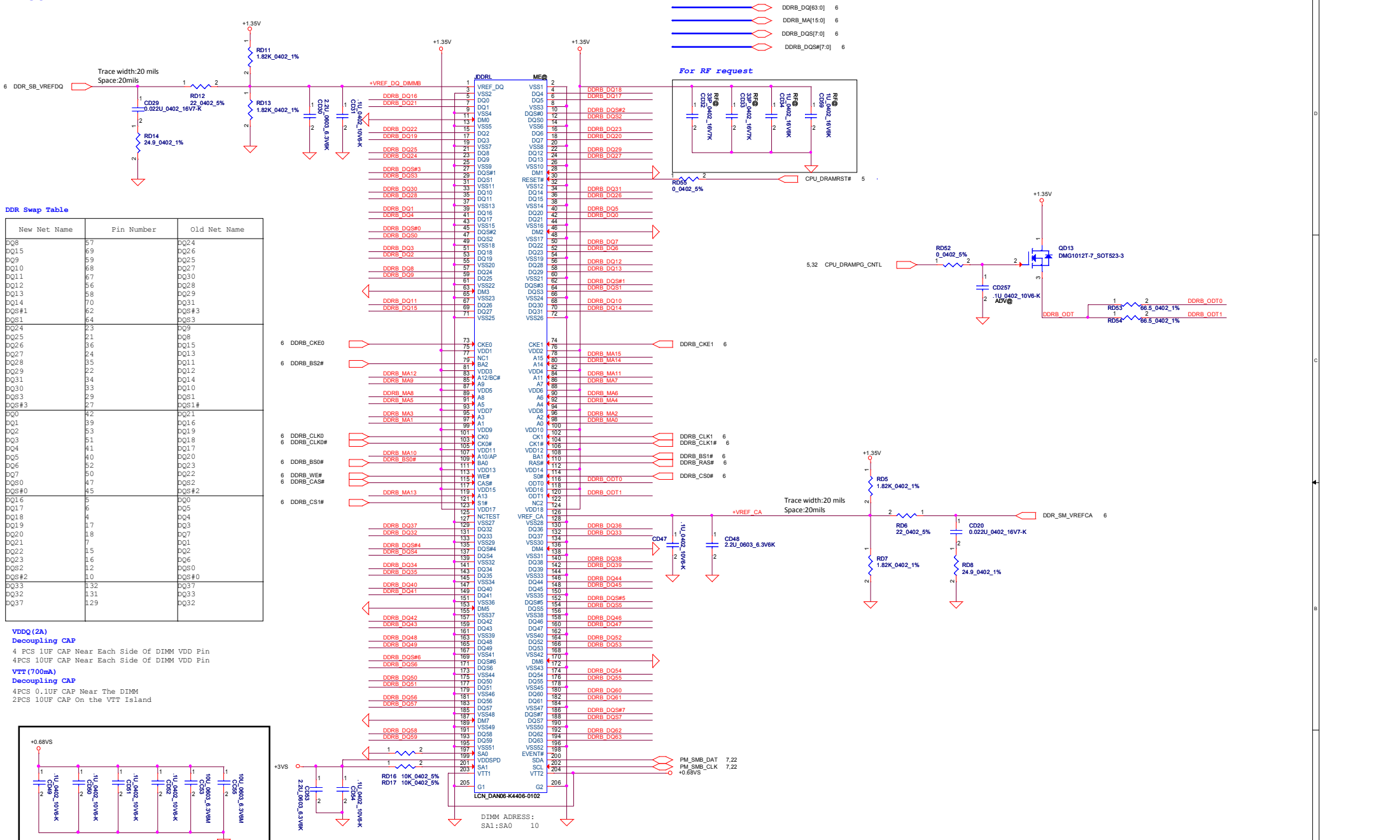


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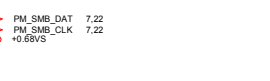
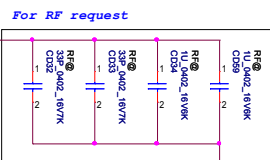


VSS SENSE
 Length Match: No More Than 25Mil
 Space: More Than 25Mil
 GND Reference

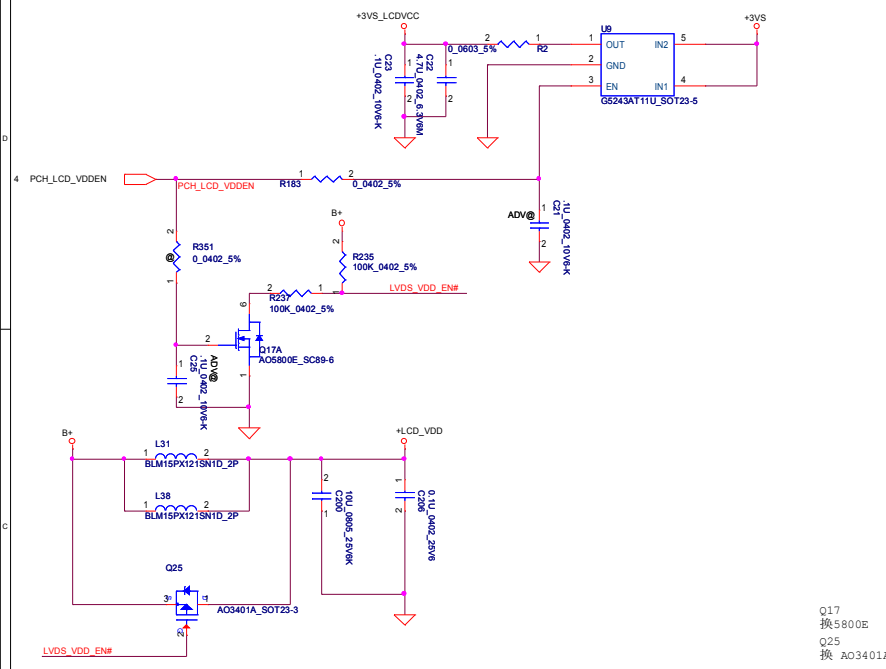




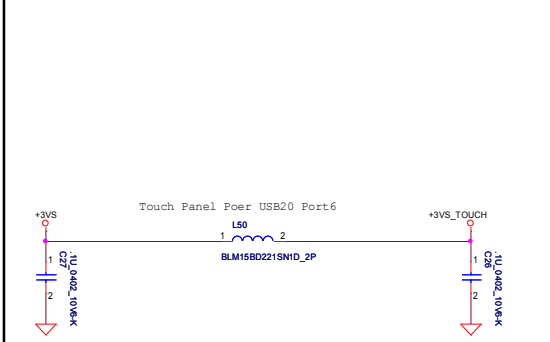
- DDR_B_DQ[63:0] 6
- DDR_B_MA[15:0] 6
- DDR_B_DQS[7:0] 6
- DDR_B_DQS#[7:0] 6



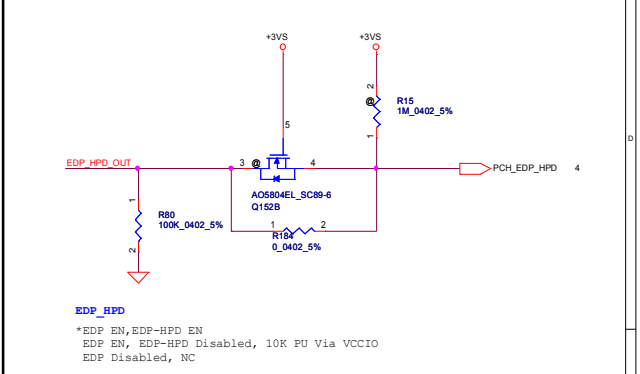
LCD PWR



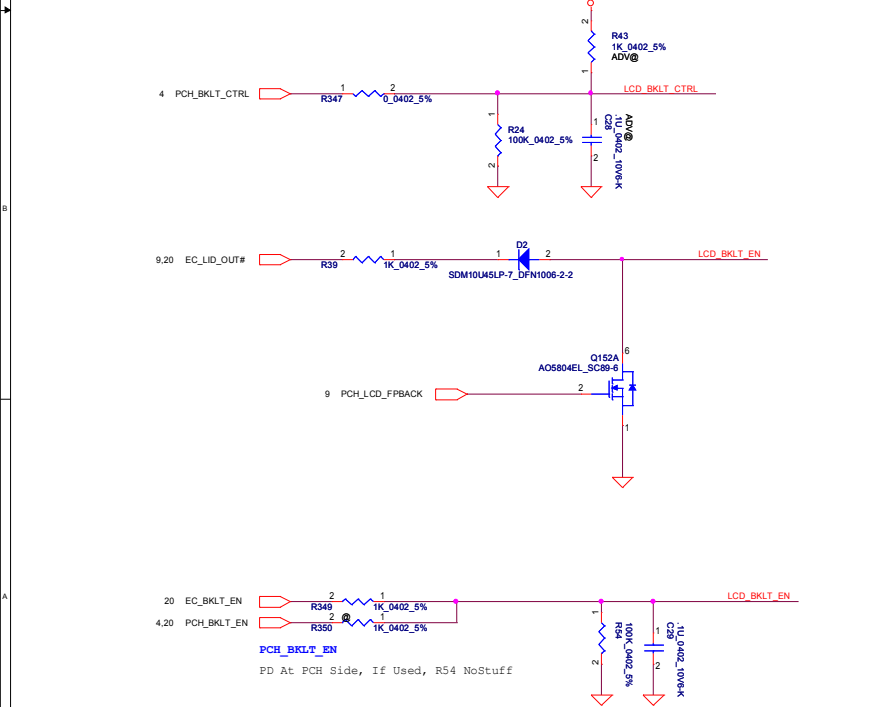
TOUCH PANEL



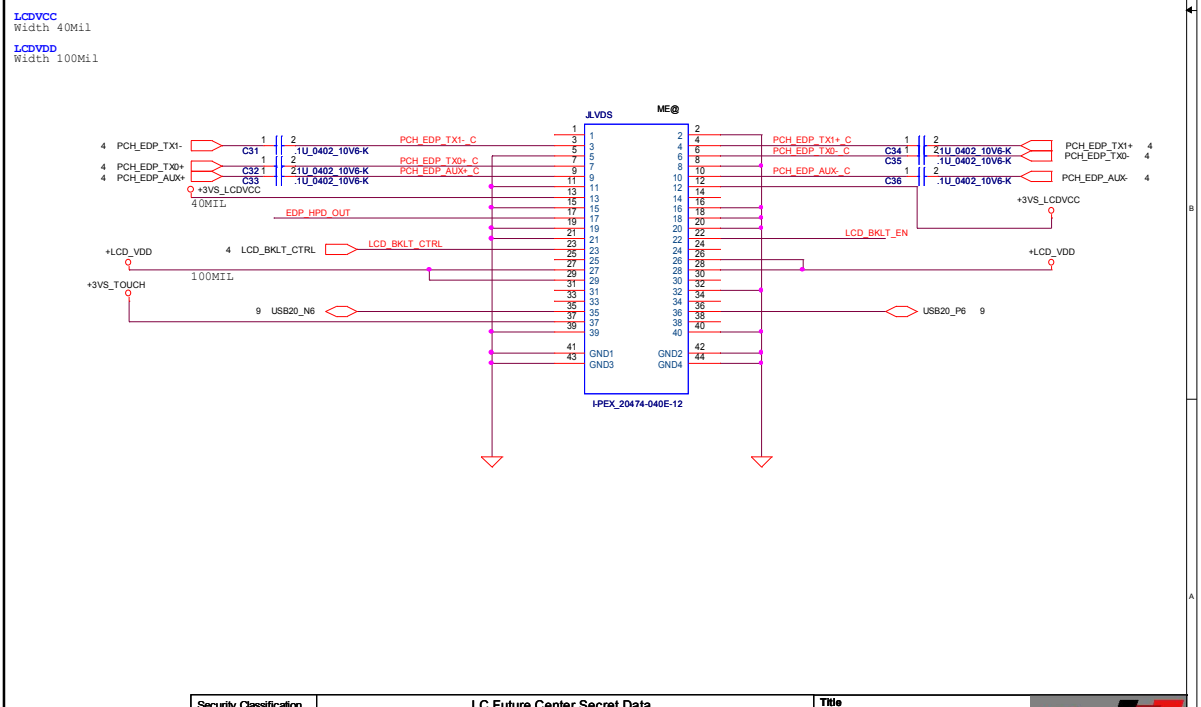
Hot-Plug



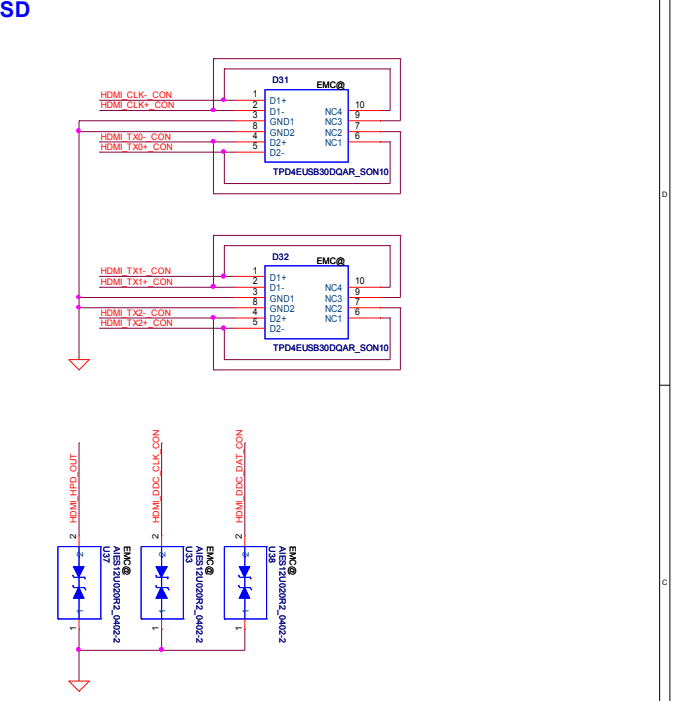
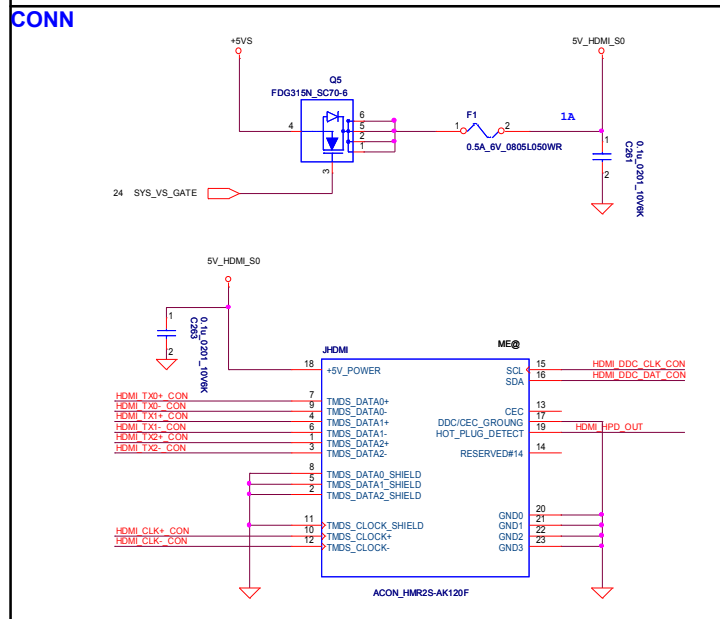
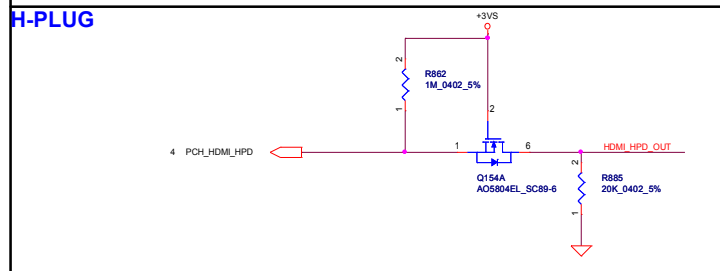
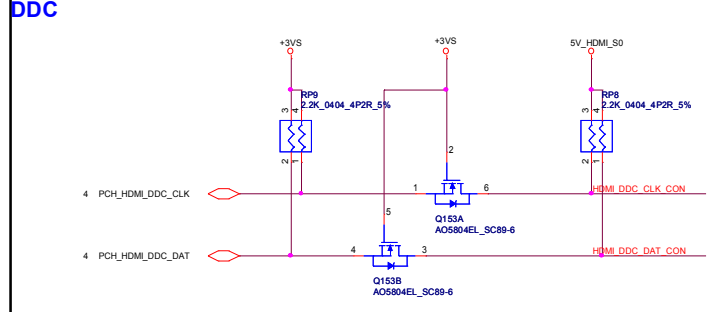
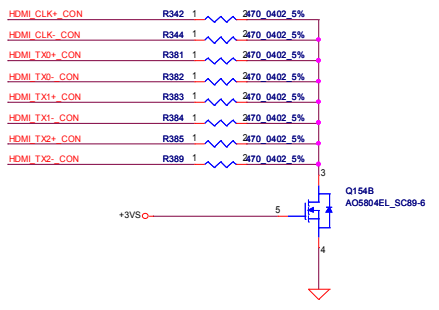
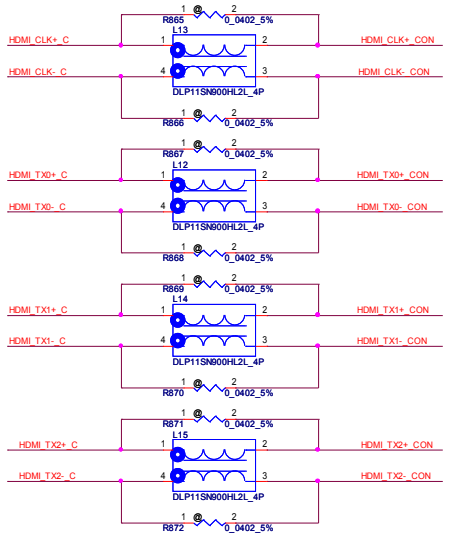
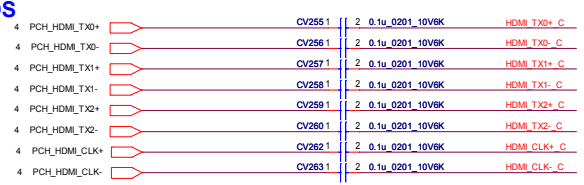
BKLT CNTL



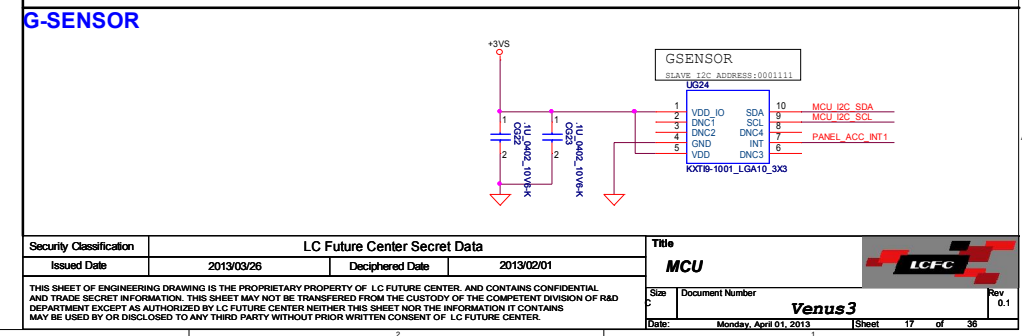
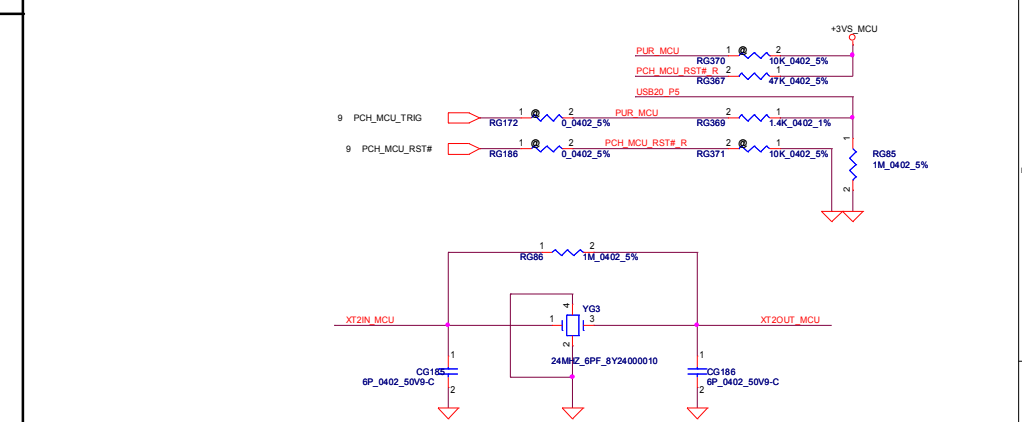
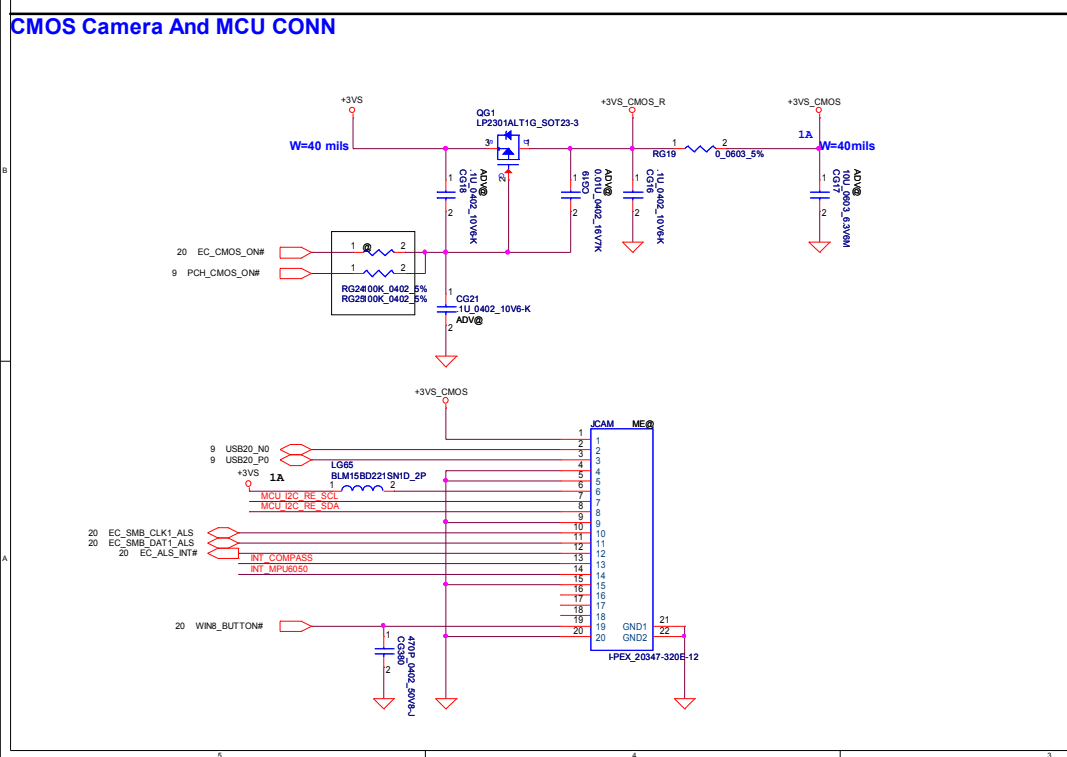
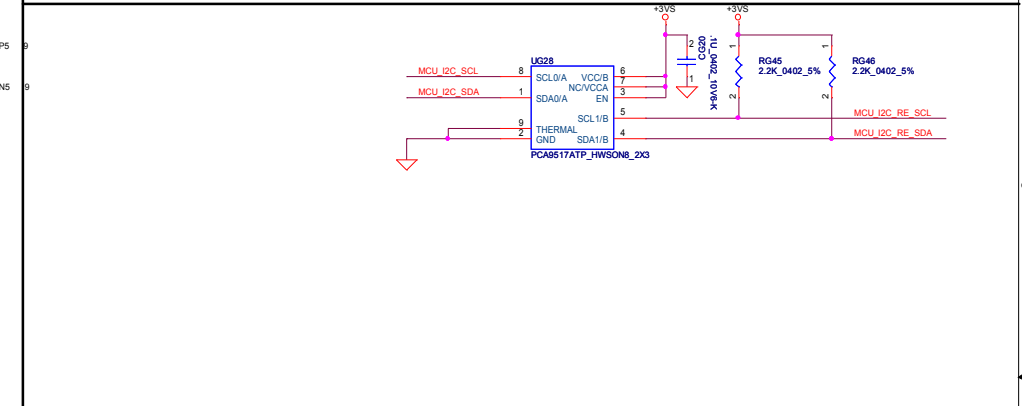
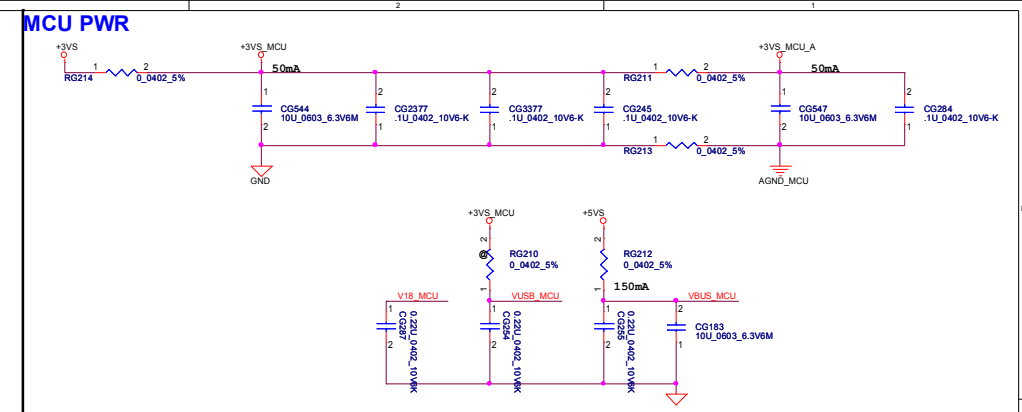
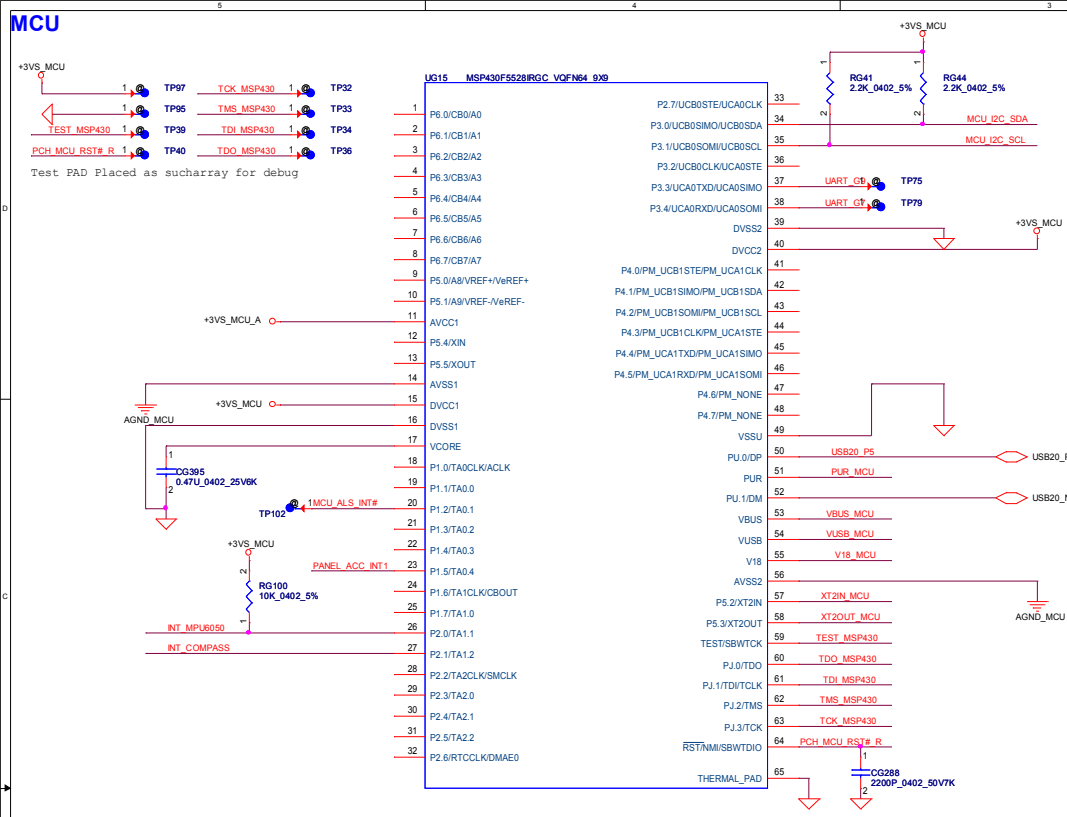
CONN



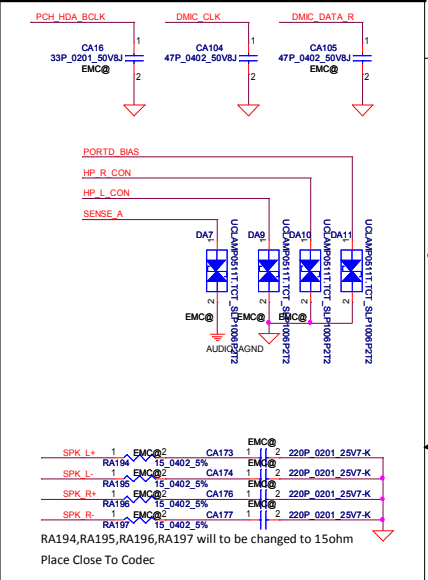
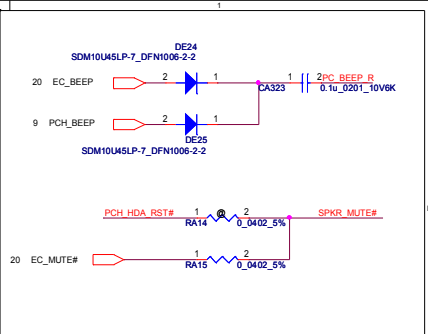
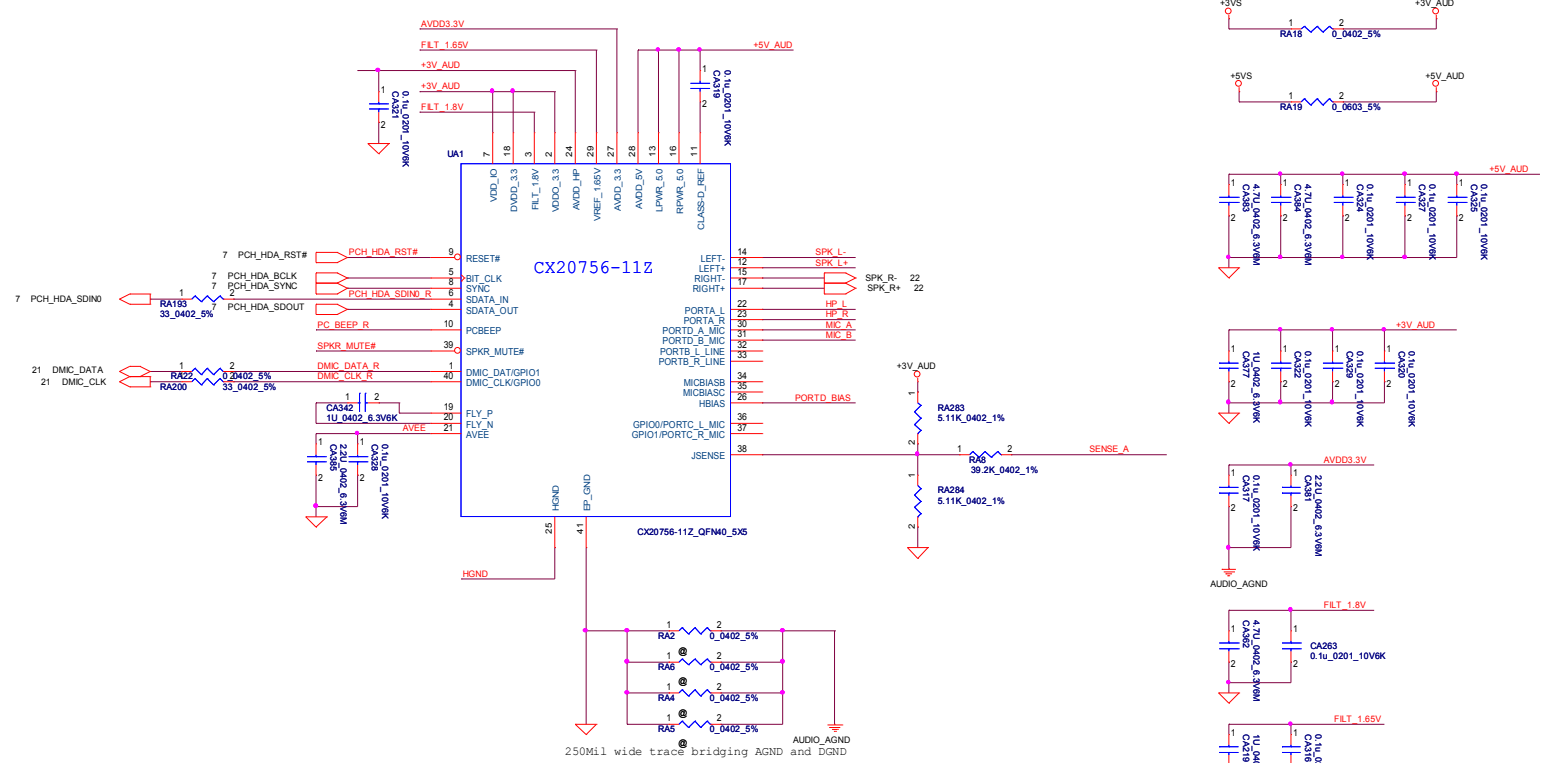
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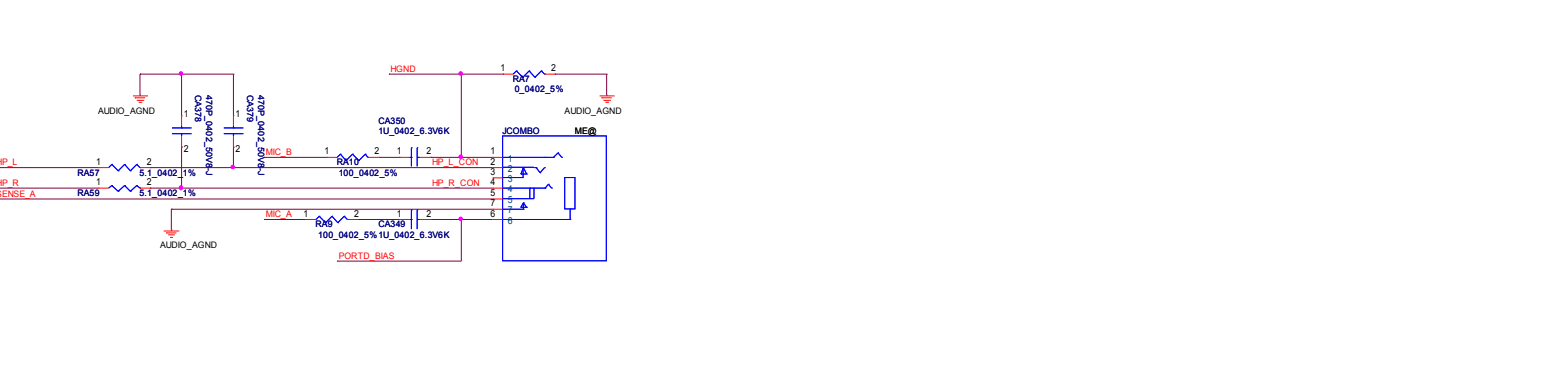
Note
1. Mount 0ohm resistor, Reserve choke



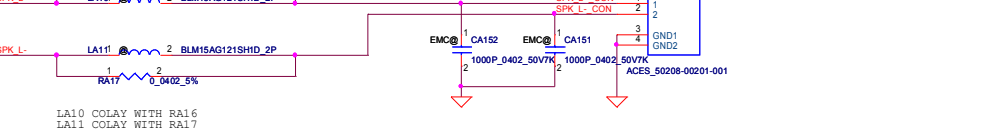
Security Classification	LC Future Center Secret Data		Title	
Issued Date	2013/03/26	Deciphered Date	2013/02/01	
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COMBO Jack

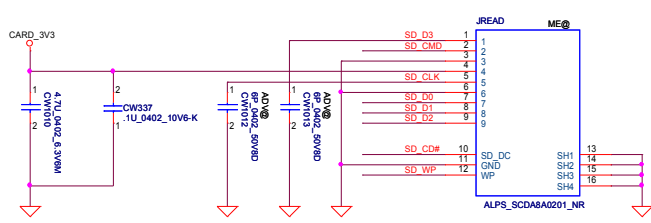
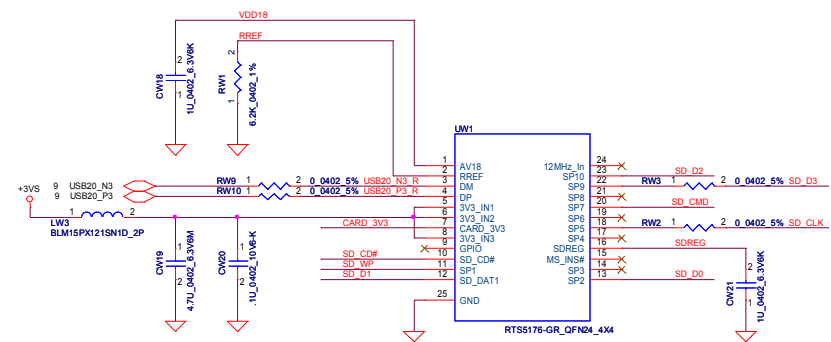


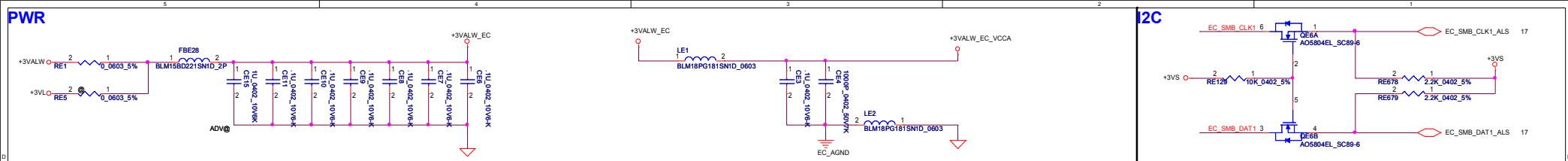
Left SPK



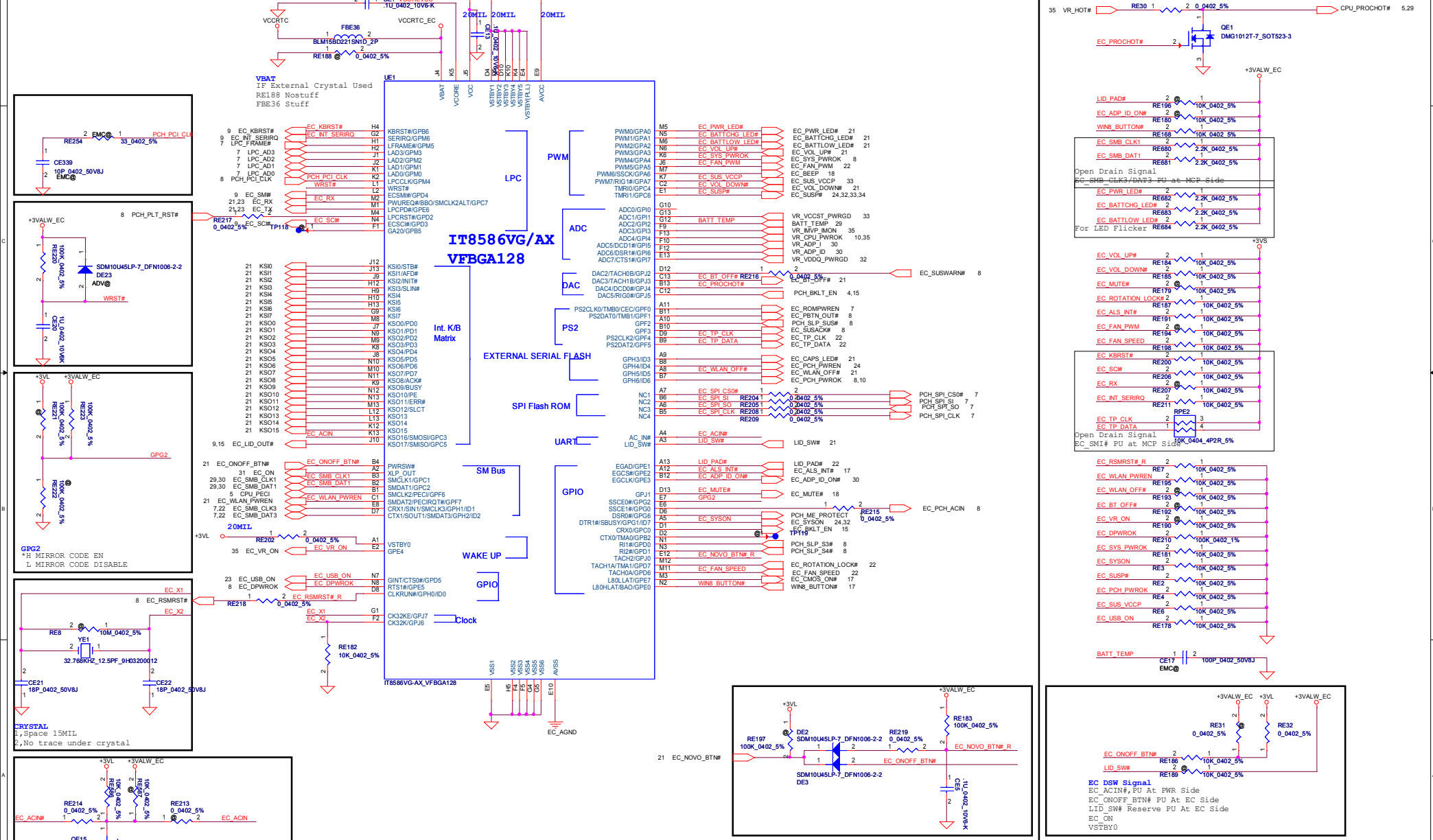
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Issued Date	2013/03/26	Deciphered Date	2013/02/01		
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CARD READER

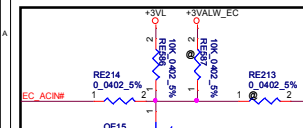




8586

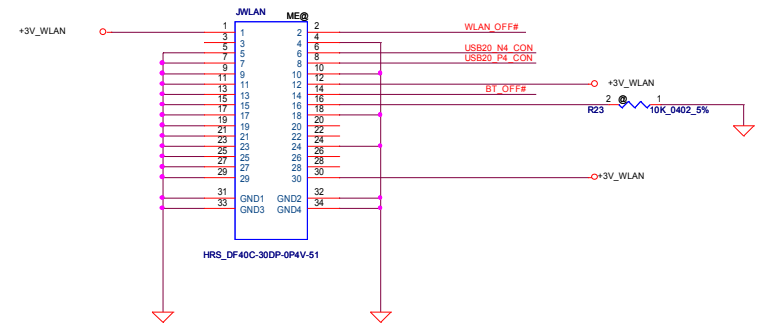
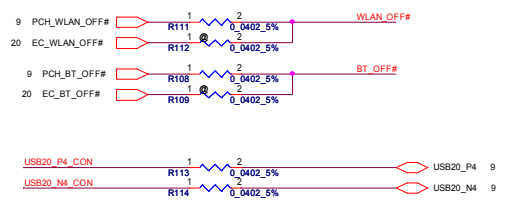
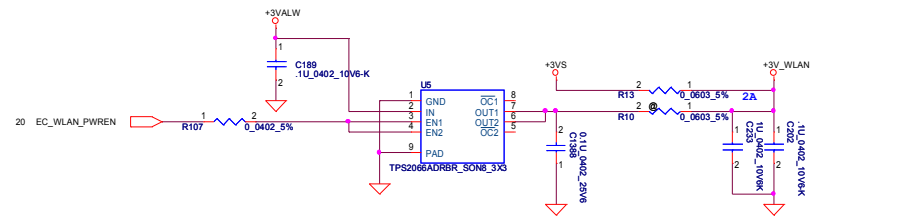


CRYSTAL
1, Space 15MIL
2, No trace under crystal

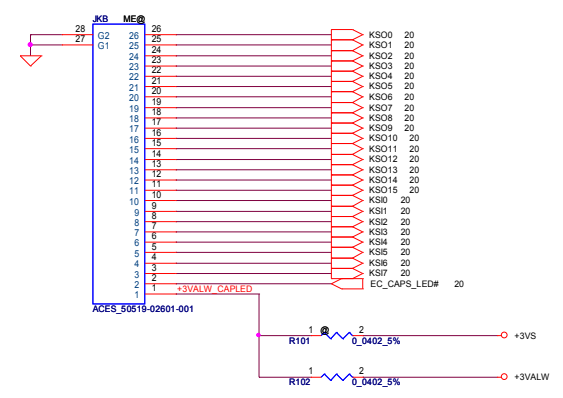


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2013/02/01		2013/02/01		01	
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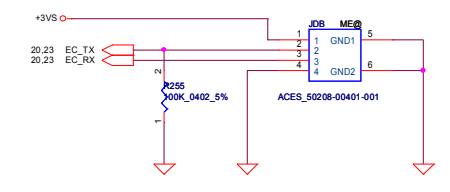
WiFi&BT Board Connector



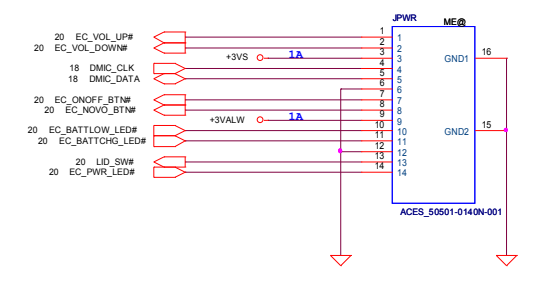
Keyboard Connector



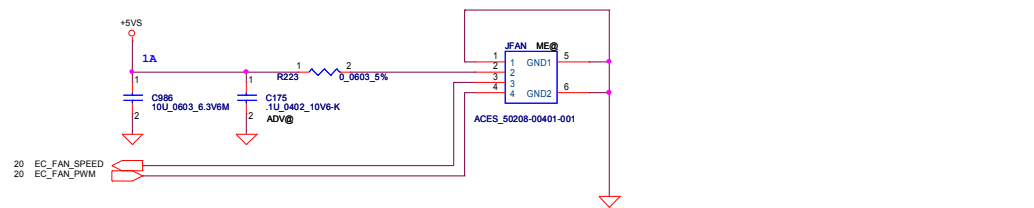
UART Debug Connector



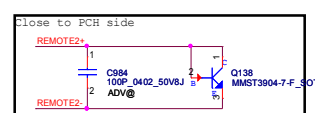
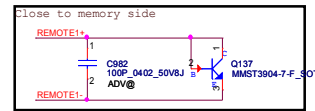
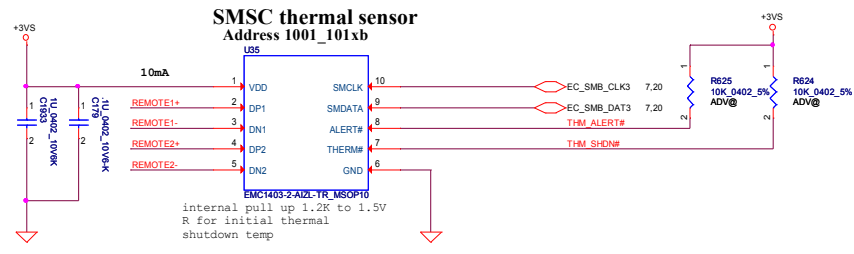
Power&Volume Board Connector



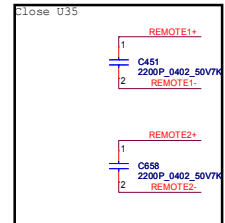
THERMAL SENSOR AND FAN



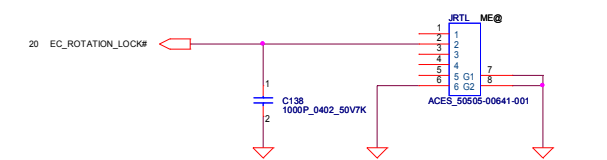
SMSC thermal sensor
Address 1001_101xb



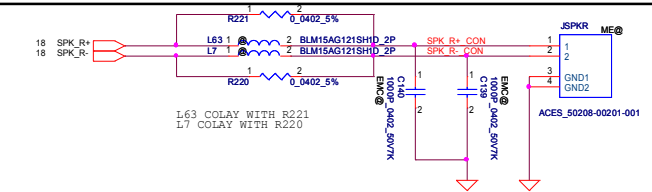
REMOTE2+/-:
Trace width/space:10/10 mil
Trace length:<8"



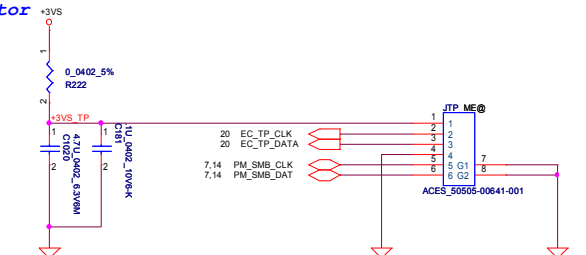
Rotation Lock Connector



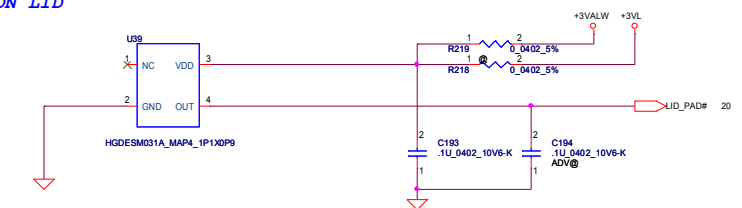
RIGHT SPK



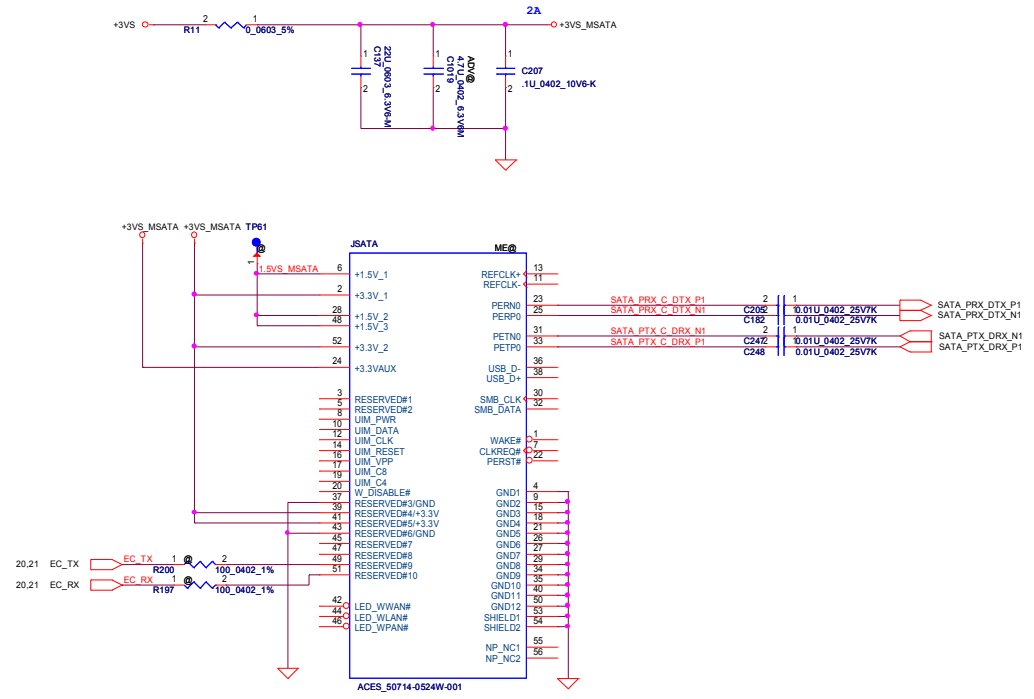
Touch Pad Connector



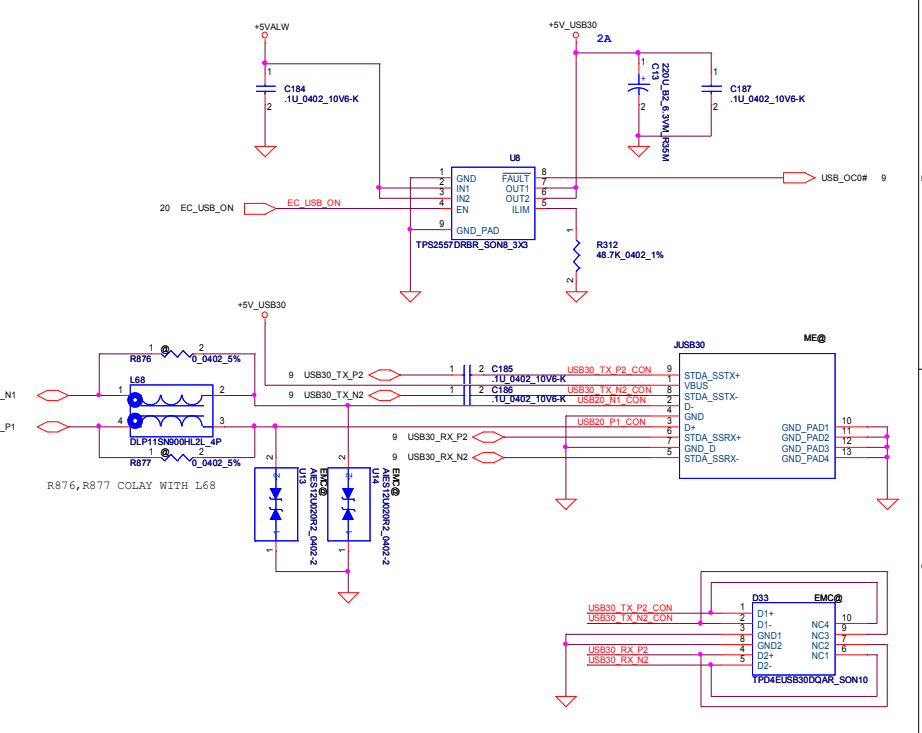
LCD ROTATION LID



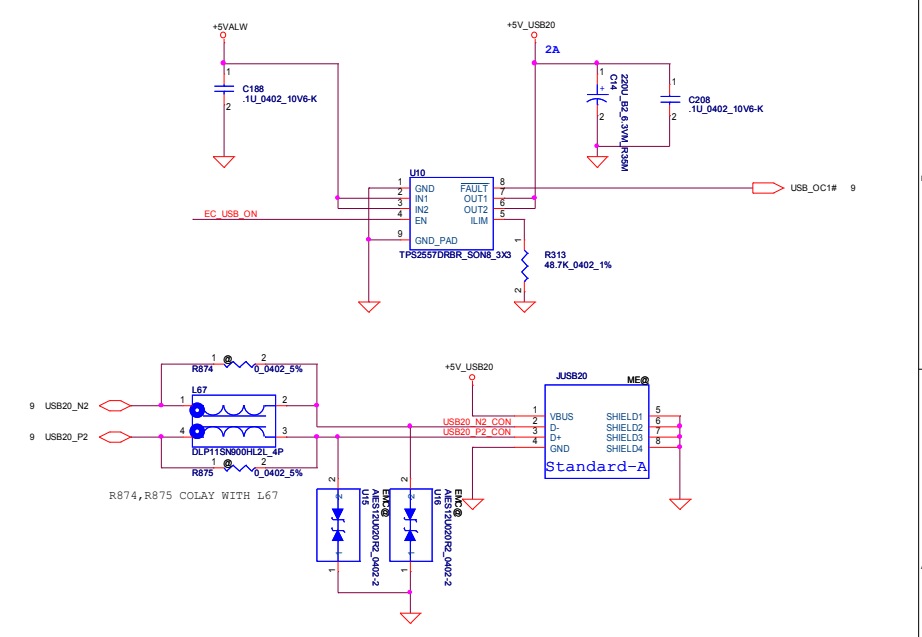
MSATA (Full Card)



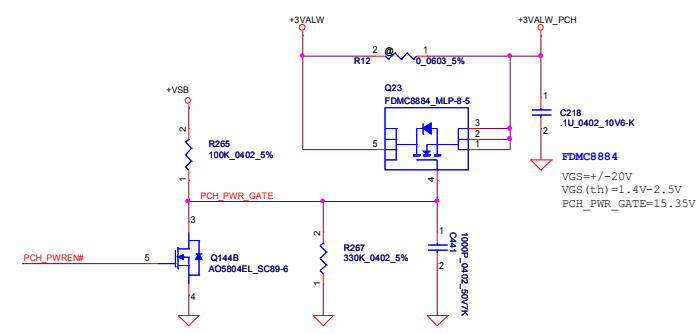
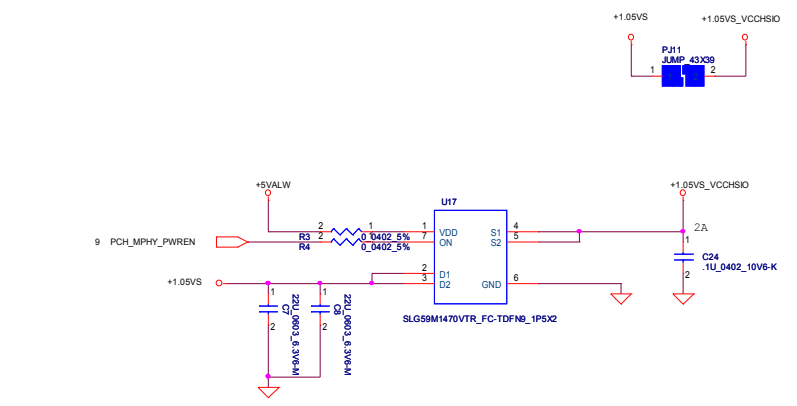
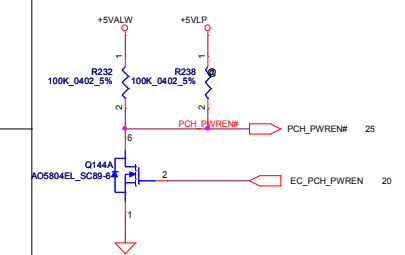
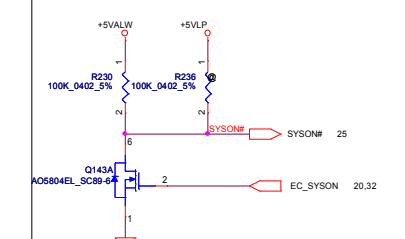
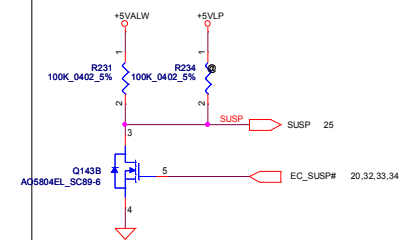
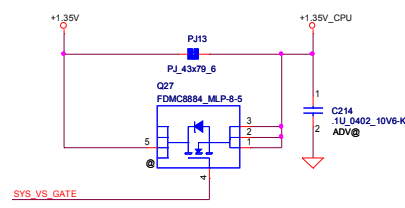
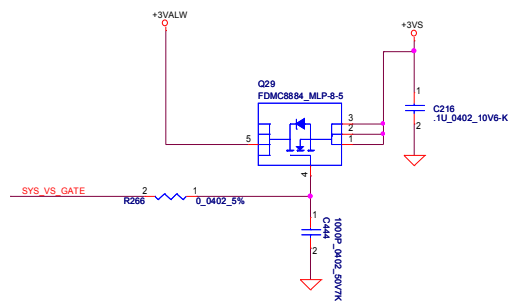
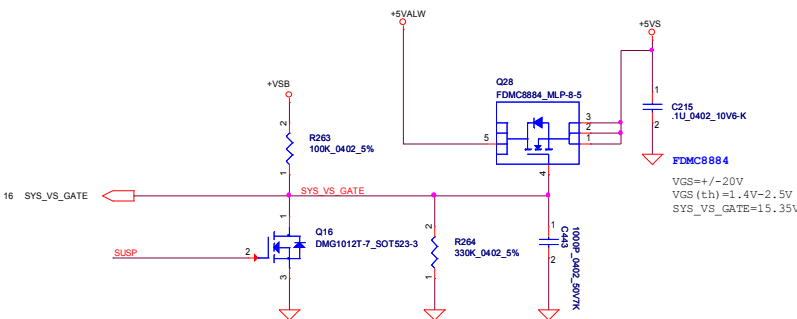
USB30



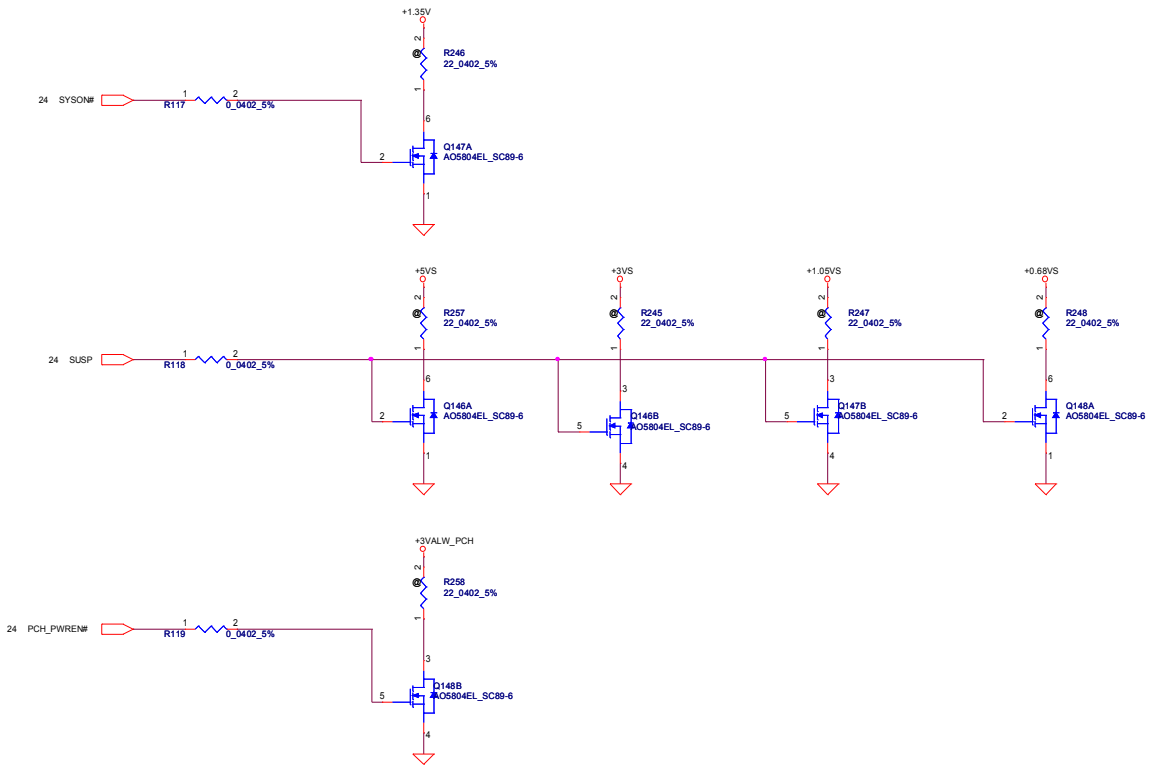
USB20




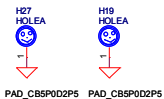
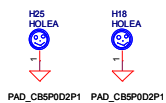
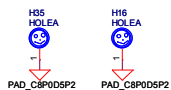
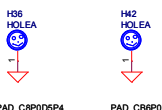
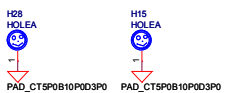
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5

4

3

2

1

D

D

C


C

B

B

A

A

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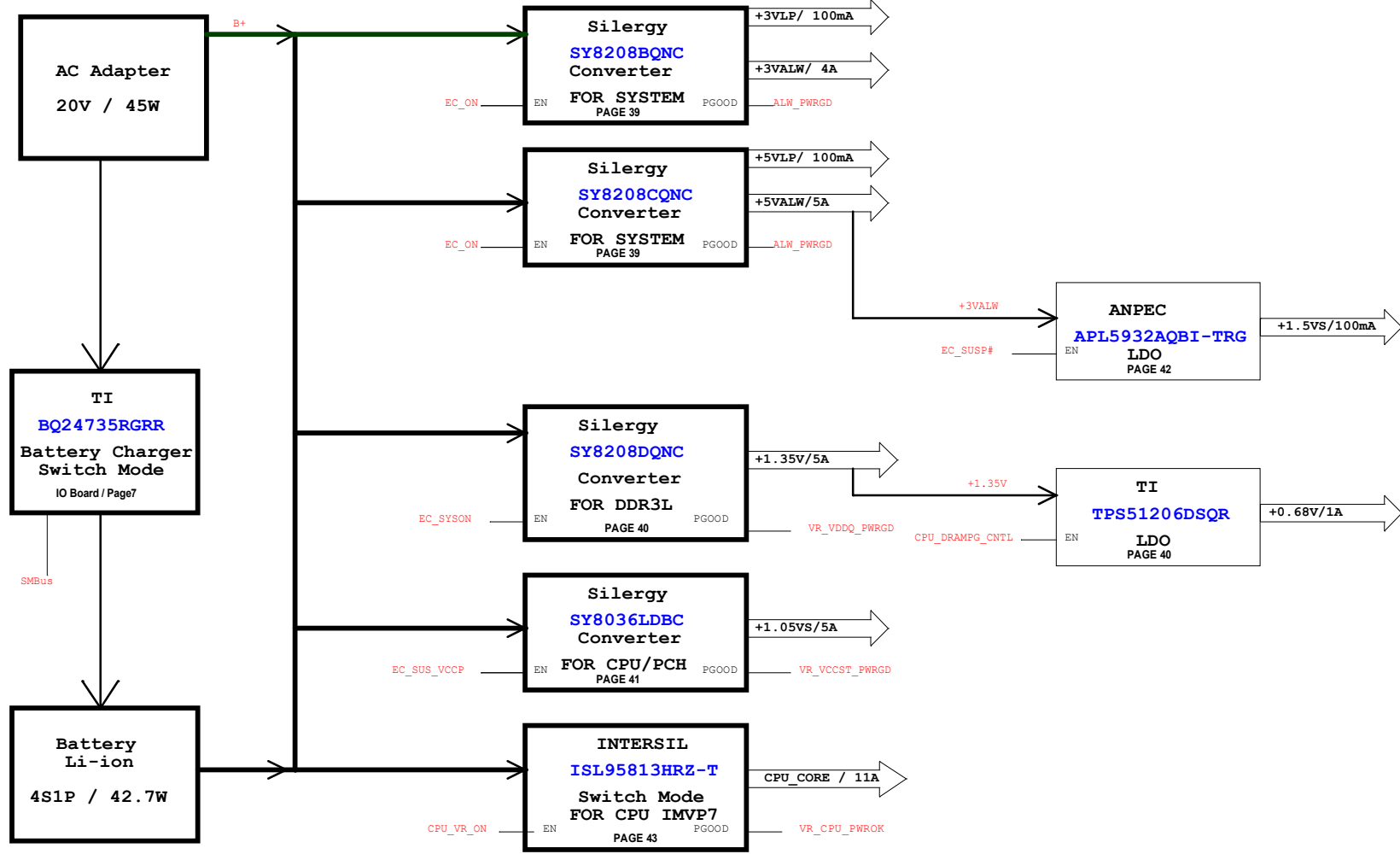
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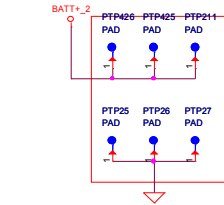
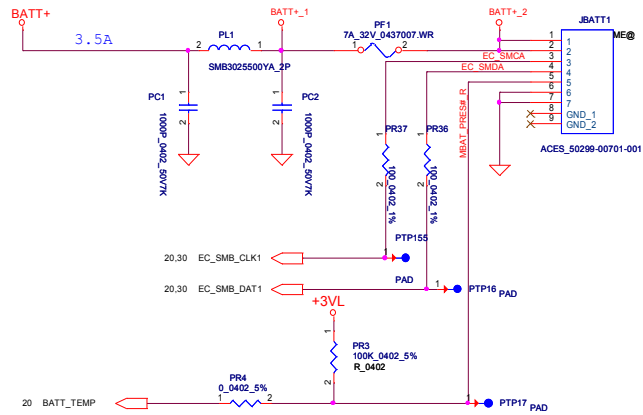
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3

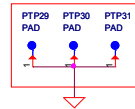
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1

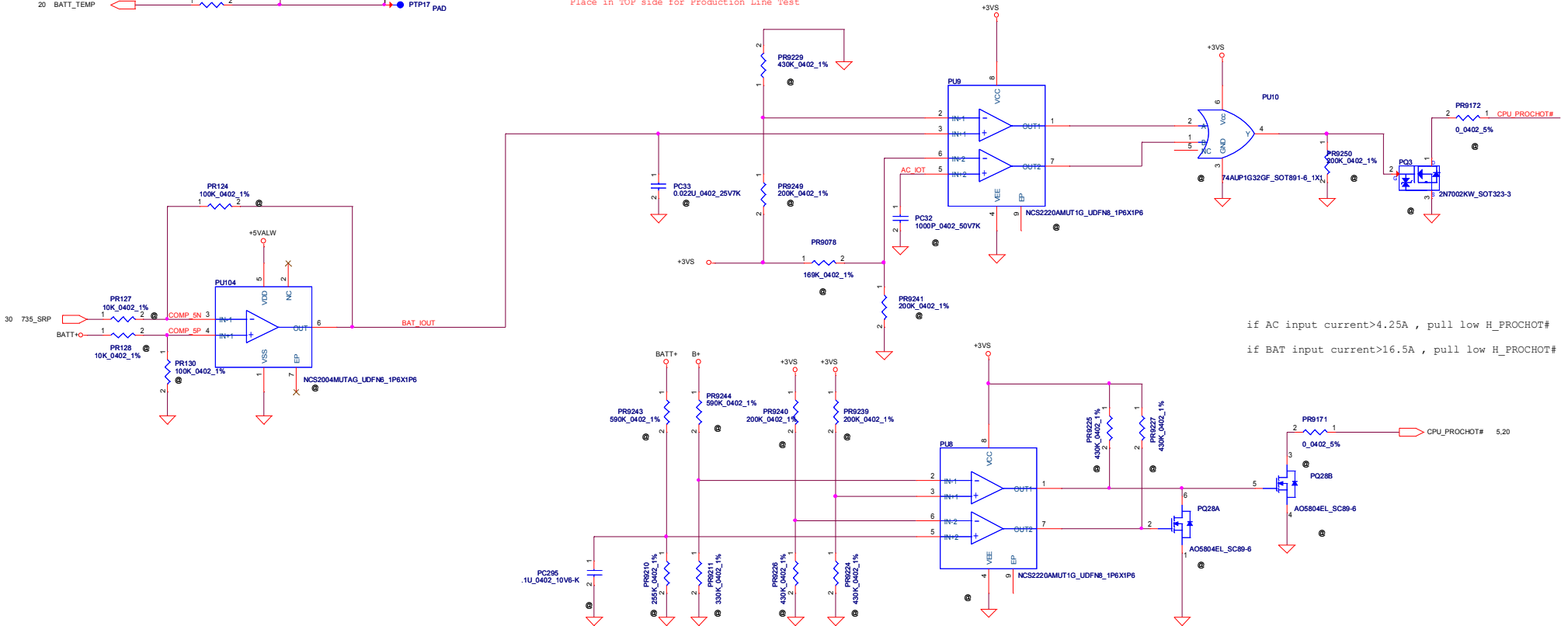
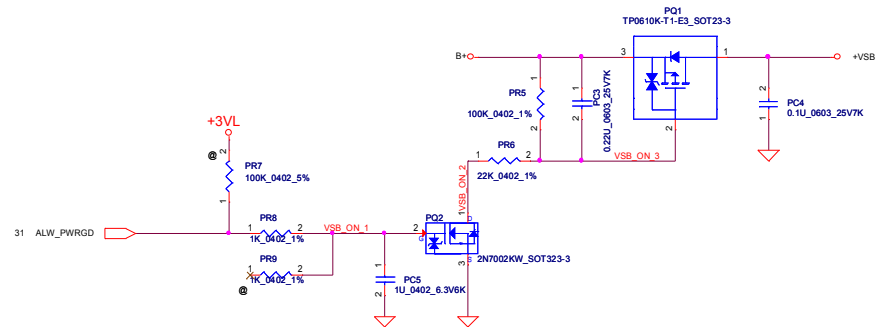




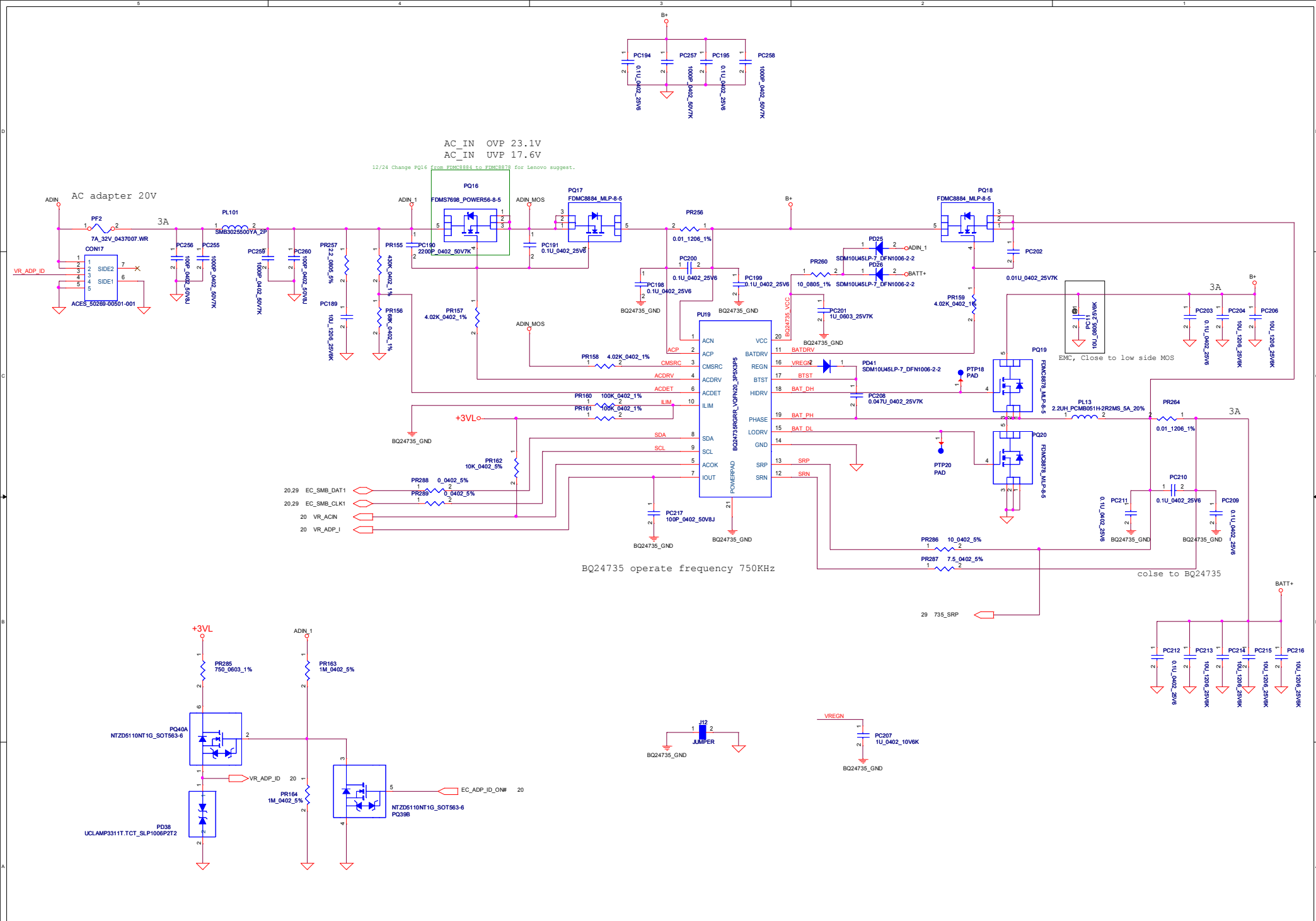
Place in BOT side for Production Line Test

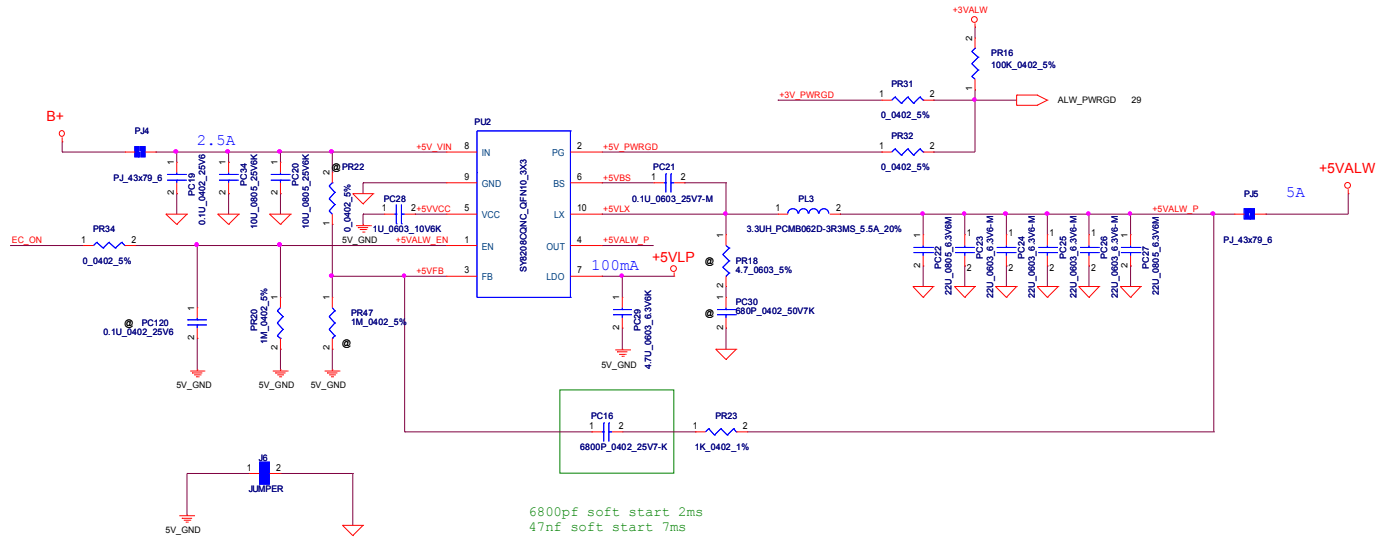
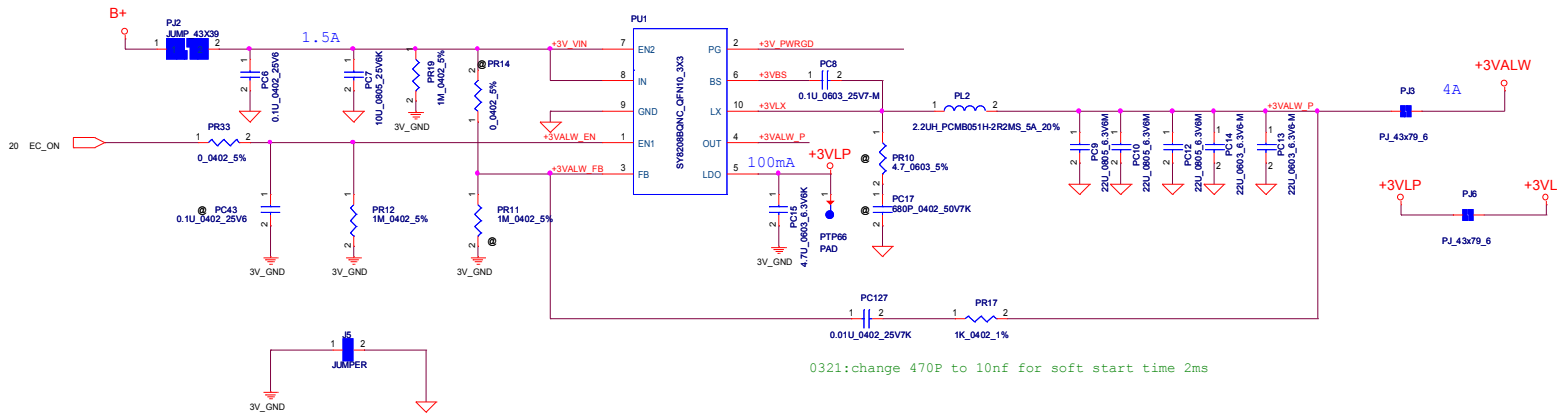


Place in TOP side for Production Line Test

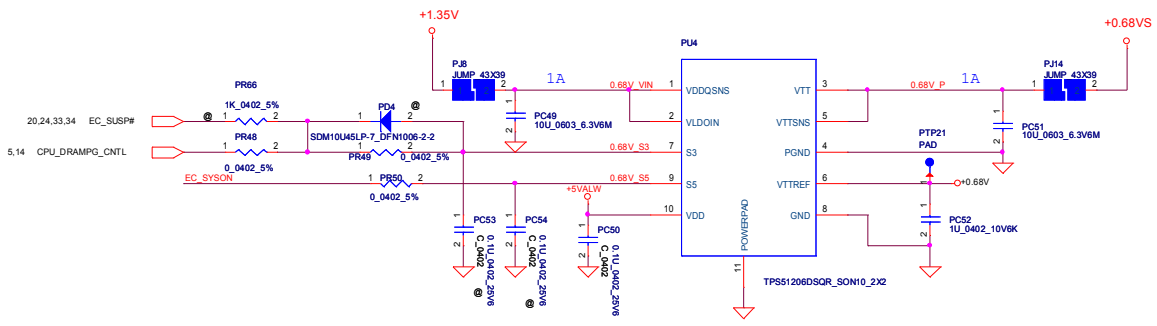
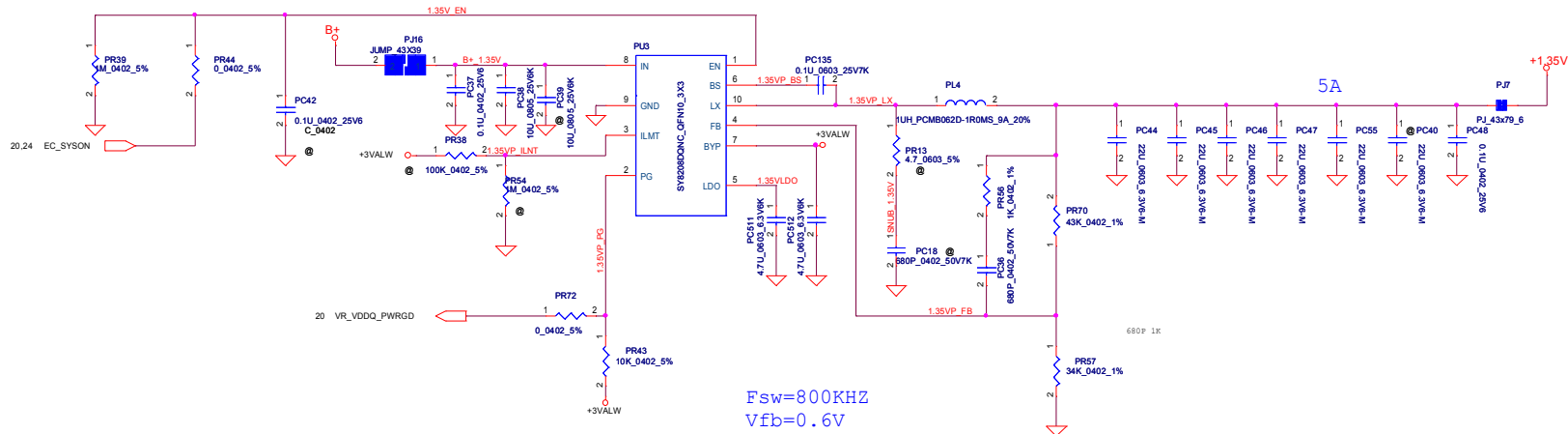


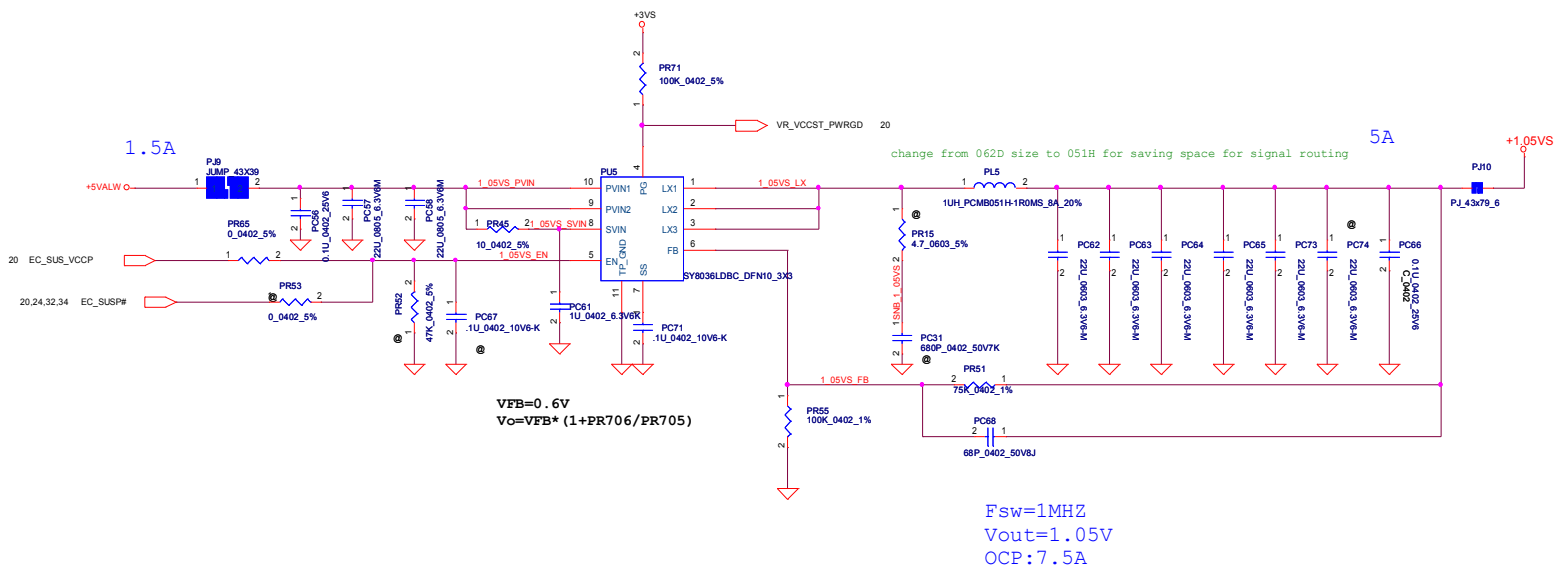
if AC input current > 4.25A, pull low H_PROCHOT#
 if BAT input current > 16.5A, pull low H_PROCHOT#






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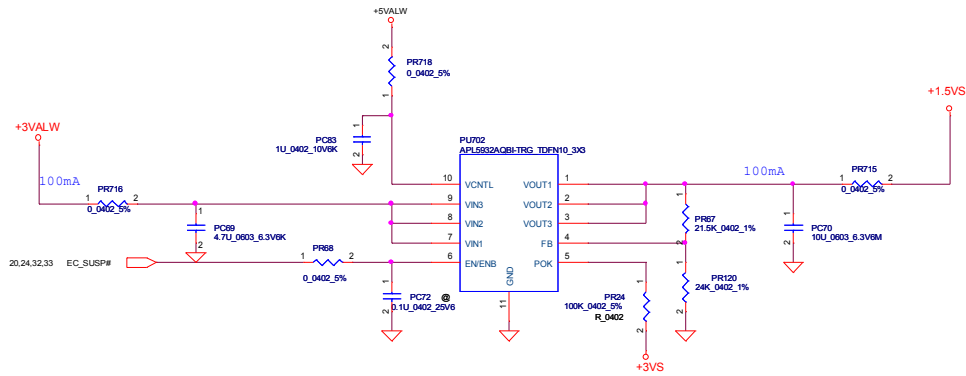



$V_{FB} = 0.6V$
 $V_o = V_{FB} * (1 + PR706 / PR705)$

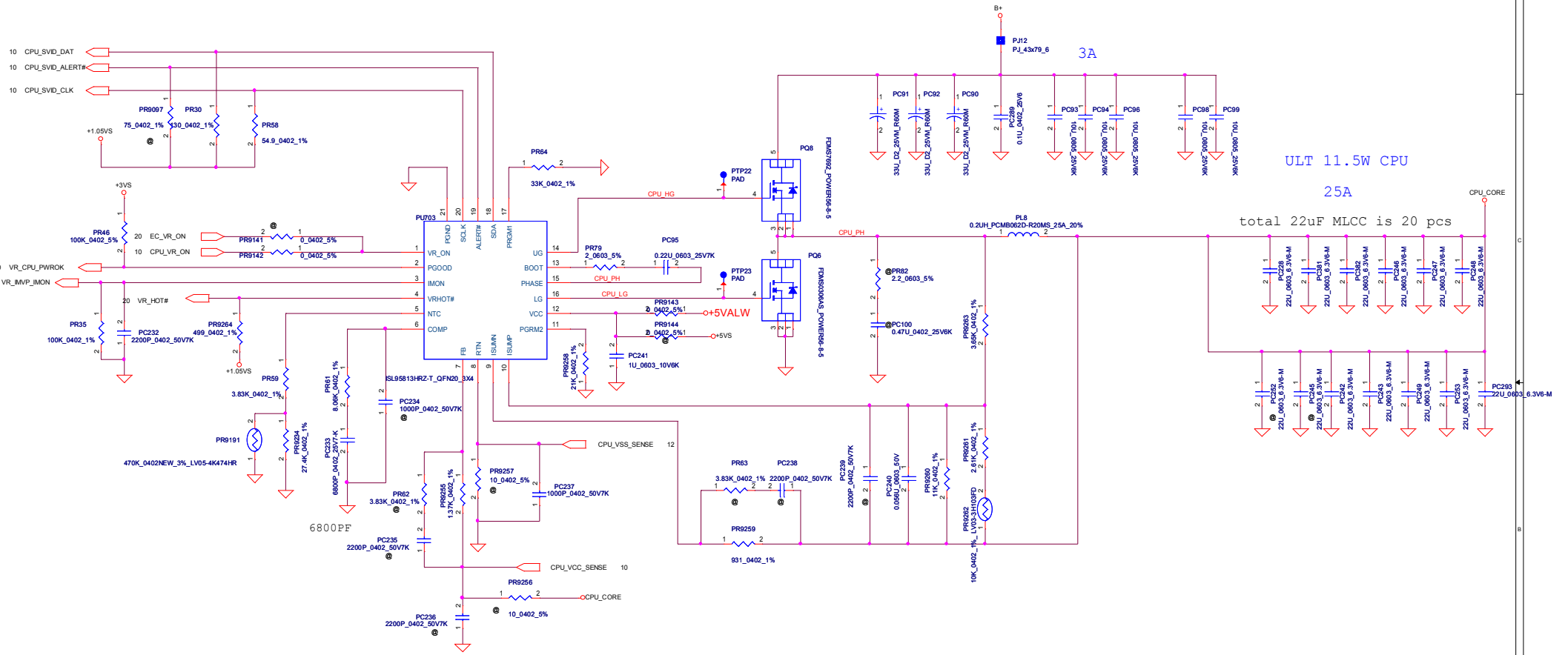
Fsw=1MHZ
 Vout=1.05V
 OCP:7.5A

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Delete 1.8V



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