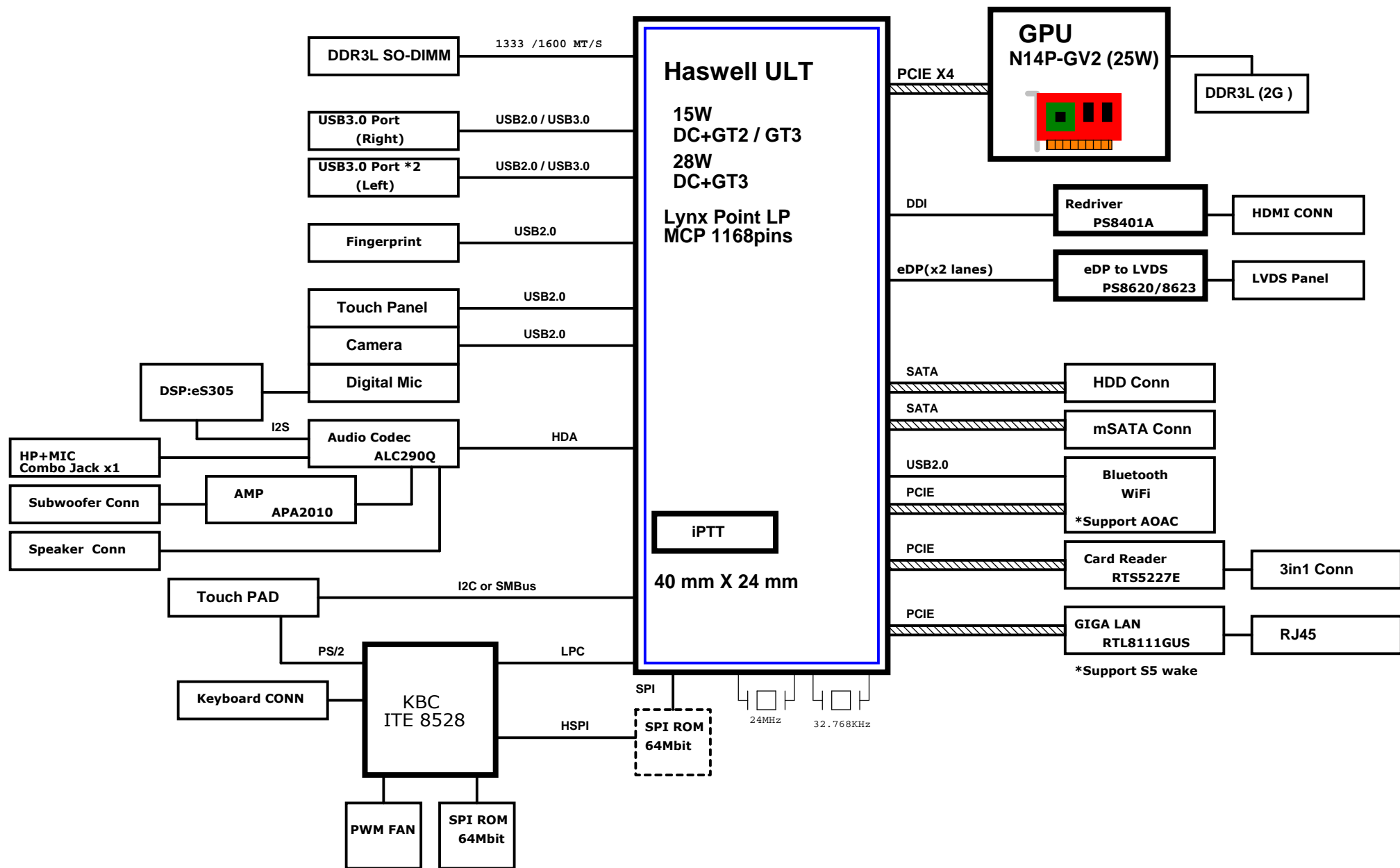


JW8B/C BLOCK DIAGRAM



HSIO Port	USB3.0	PCIE	SATA
1	USB3.0_1 CN6		
2	USB3.0_2 CN4		
3	USB3.0_3 CN5	PCIE1 X	
4	USB3.0_4 X	PCIE2 Card Reader	
5		PCIE3 GIGA LAN	
6		PCIE4 WIFI	
7		PCIE5 GPU 4X	
8		PCIE5 GPU 4X	
9		PCIE5 GPU 4X	
10		PCIE5 GPU 4X	
11		PCIE6 X	SATA3 X
12		PCIE6 X	SATA2 mSATA
13		PCIE6 X	SATA1 HDD
14		PCIE6 X	SATA0 X

PCIE CLK
CLK0 X
CLK1 Card Reader
CLK2 GIGA LAN
CLK3 WIFI
CLK4 GPU 4X
CLK5 X

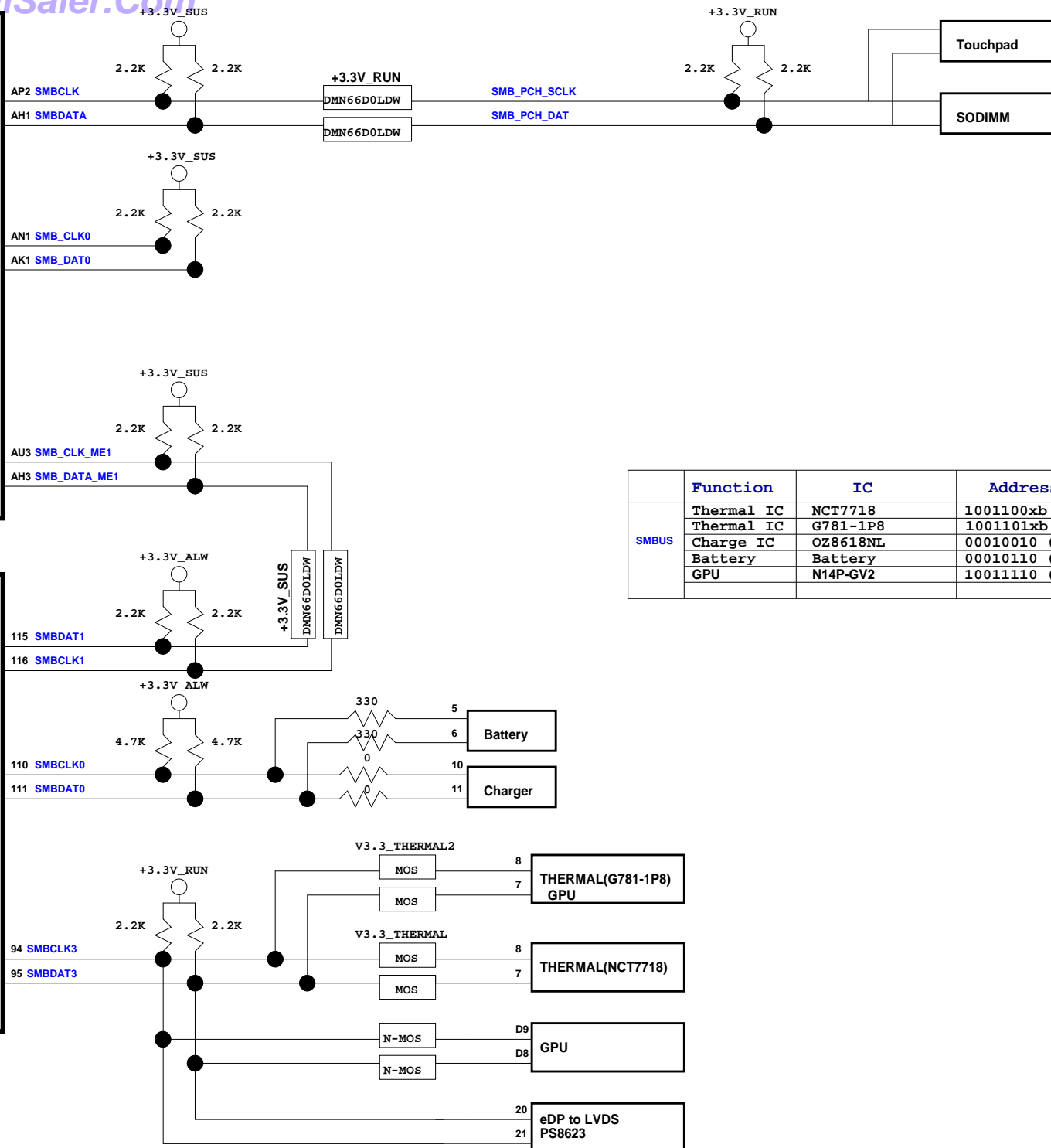
USB2.0
USB2.0_0 CN4
USB2.0_1 CN6
USB2.0_2 CN5
USB2.0_3 Finger Print
USB2.0_4 Camera
USB2.0_5 eTP
USB2.0_6 Blue Tooth
USB2.0_7 Touch Screen

MB

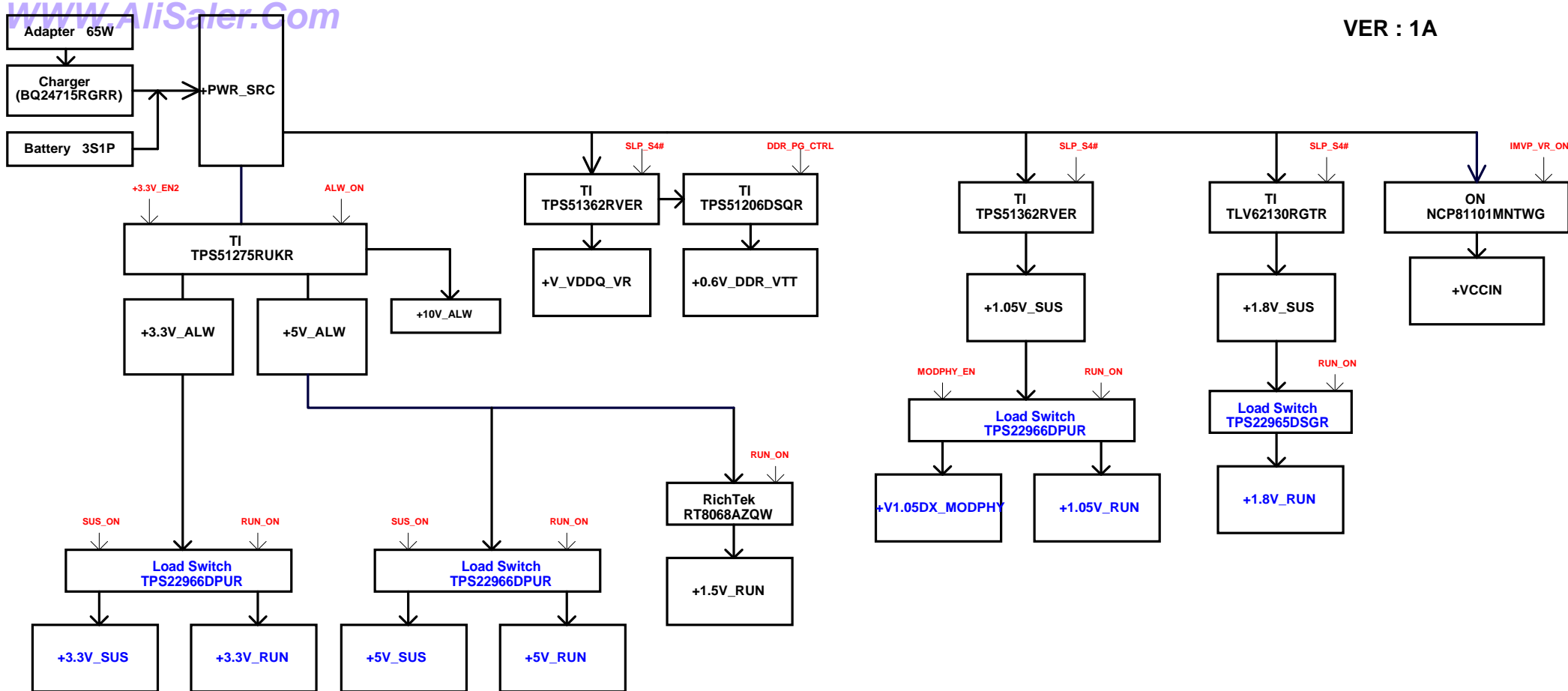
Haswell ULT

MB

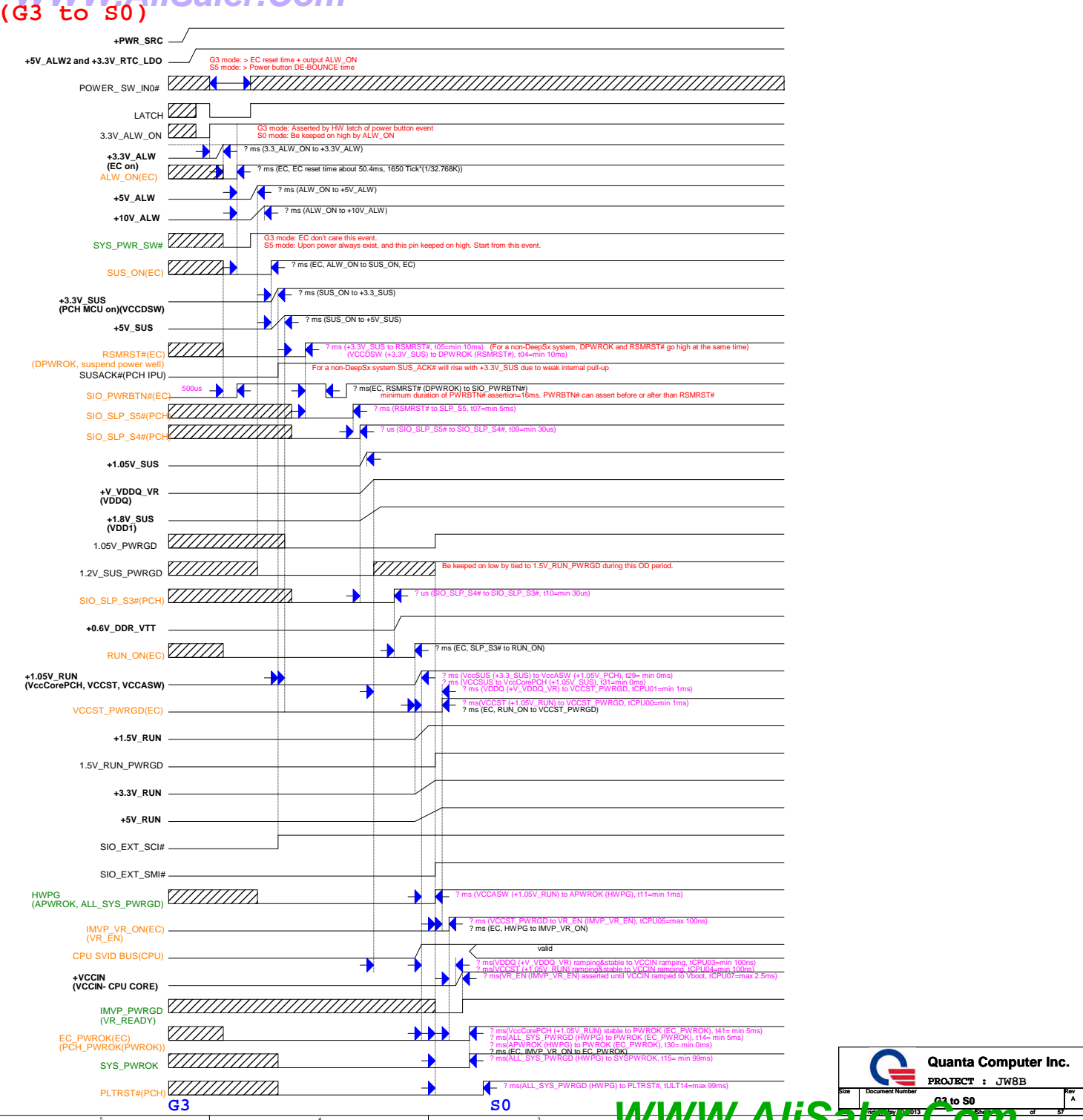
SIO
ITE8528E



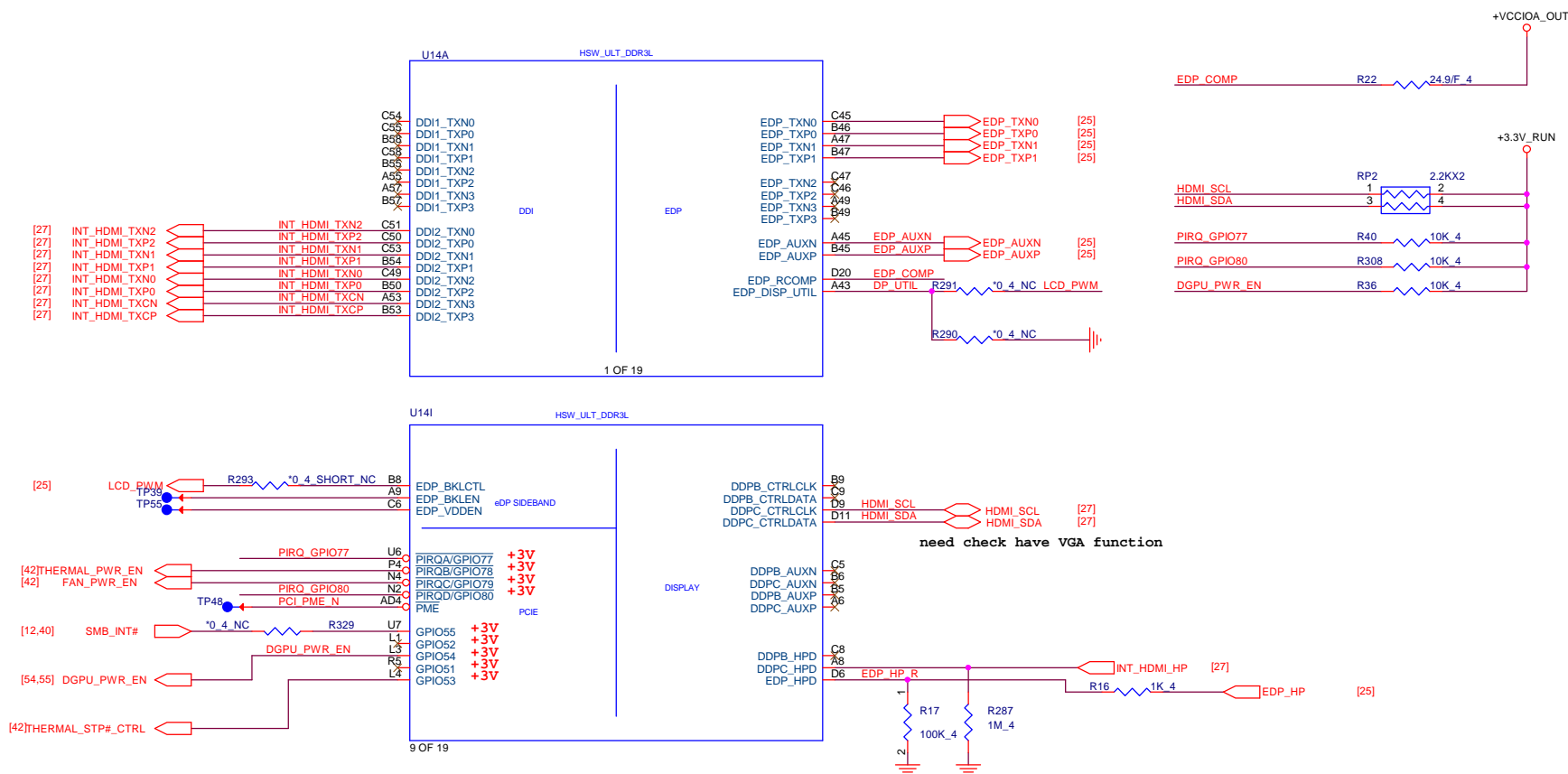
	Function	IC	Address
SMBUS	Thermal IC	NCT7718	1001100xb (98h)
	Thermal IC	G781-1P8	1001101xb (9Ah)
	Charge IC	OZ8618NL	00010010 (0x12h)
	Battery	Battery	00010110 (0X16h)
	GPU	N14P-GV2	10011110 (0X9Eh)







Haswell ULT (DISPLAY)



Quanta Computer Inc.

PROJECT : JW8B

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Haswell ULT 1/12		
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U14C

HSW_ULT_DDR3L

AH63	SA_DQ0	AU37
AH62	SA_DQ1	AW37
AK63	SA_CLK#0	AW36
AK62	SA_CLK#1	AY36
AH61	SA_CLK1	
AH60	SA_DQ4	AU43
SA_DQ5	SA_CKE0	AW43
AK61	SA_CKE1	AY42
AK60	SA_DQ7	AY43
AM63	SA_DQ8	
AM62	SA_CKE2	AP33
AP63	SA_CKE3	AR32
AP62	SA_CS#0	
AM61	SA_CS#1	AP32
AP61	SA_ODT0	AY34
AP60	SA_DQ13	AW34
AP59	SA_DQ14	AY34
AP58	SA_DQ15	SA_RAS
AR58	SA_DQ16	SA_WE
SA_DQ17	SA_CAS	AU34
AM57	SA_DQ18	
AK57	SA_DQ19	SA_BA0
AL58	SA_DQ20	AY35
AK58	SA_DQ21	AY41
AR57	SA_DQ22	
AN57	SA_DQ23	AU36
AP56	SA_DQ24	AY37
AR56	SA_DQ25	AR38
AM54	SA_DQ26	AP36
AK54	SA_DQ27	AU39
AL55	SA_DQ28	AR36
AK55	SA_DQ29	AY40
AR54	SA_DQ30	SA_MA6
AN54	SA_DQ31	AW39
AY58	SA_DQ32	SA_MA7
AW58	SA_DQ33	AY39
AY59	SA_DQ34	SA_MA8
AW59	SA_DQ35	AU40
AV58	SA_DQ36	AP35
AU58	SA_DQ37	AW41
AV56	SA_DQ38	SA_MA11
AU56	SA_DQ39	AU41
AY54	SA_DQ40	SA_MA12
AW54	SA_DQ41	AR35
AW52	SA_DQ42	AY42
AV54	SA_DQ43	AU42
AU54	SA_DQ44	SA_MA15
AV52	SA_DQ45	
AU52	SA_DQ46	AJ61
AK49	SA_DQ47	SA_DQSN0
AK42	SA_DQ48	AN62
AM43	SA_DQ49	SA_DQSN1
AM45	SA_DQ50	AN68
AK45	SA_DQ51	SA_DQSN2
AK43	SA_DQ52	AM55
AM40	SA_DQ53	SA_DQSN3
AM42	SA_DQ54	AV57
AM46	SA_DQ55	SA_DQSN4
AK46	SA_DQ56	AV53
AM49	SA_DQ57	SA_DQSN5
AK49	SA_DQ58	AL43
AM48	SA_DQ59	SA_DQSN6
AK48	SA_DQ60	AL48
AM51	SA_DQ61	SA_DQSN7
AK51	SA_DQ62	
	SA_DQ63	AJ62

SM_VREF_CA [19]
SM_VREF_DQ0 [19]
SM_VREF_DQ1 [19]
Check if not used. NC ?
12/25 Del SM_VREF_DQ0

3 OF 19

[19] M_B_DQ[63..0]

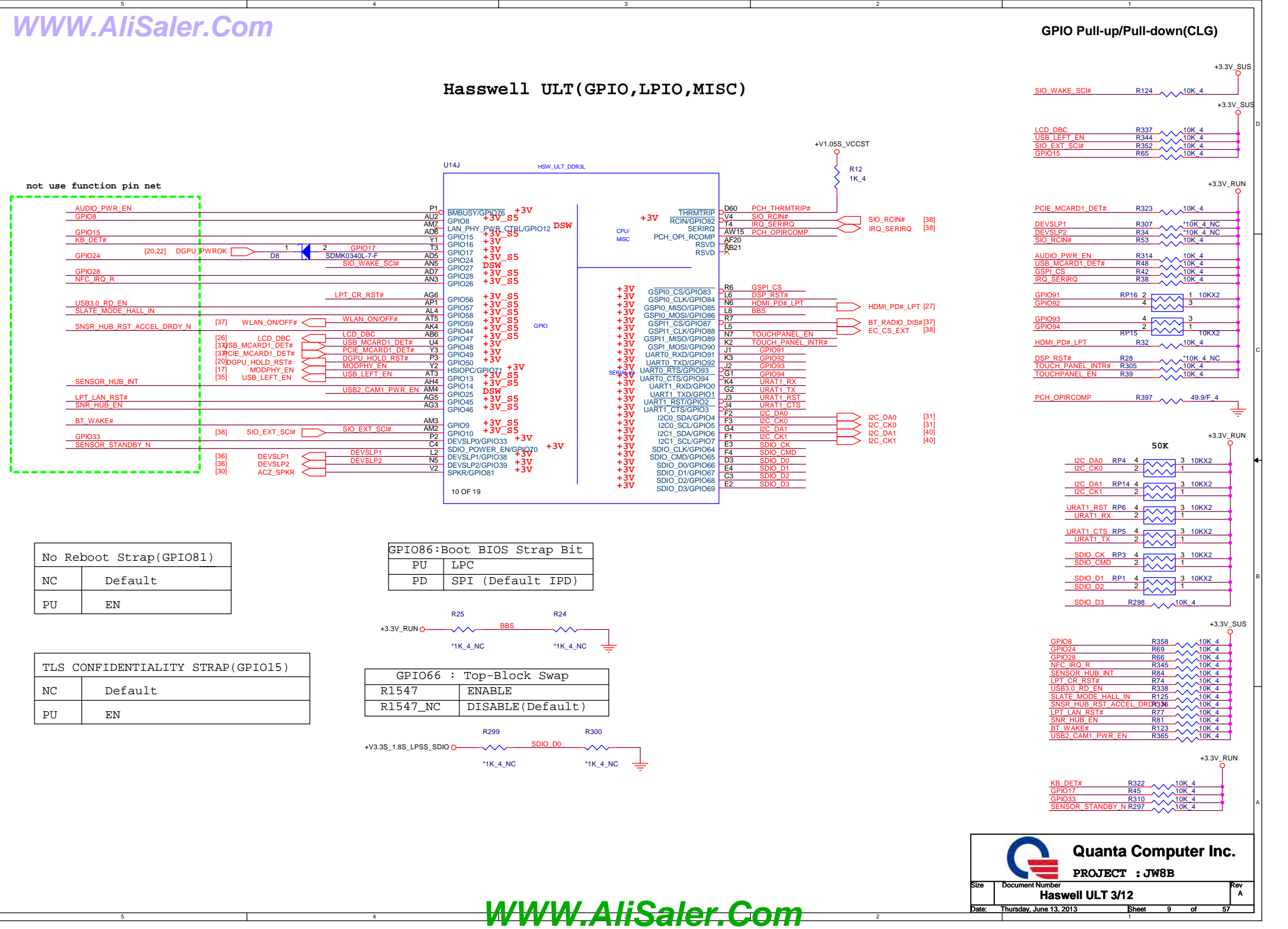
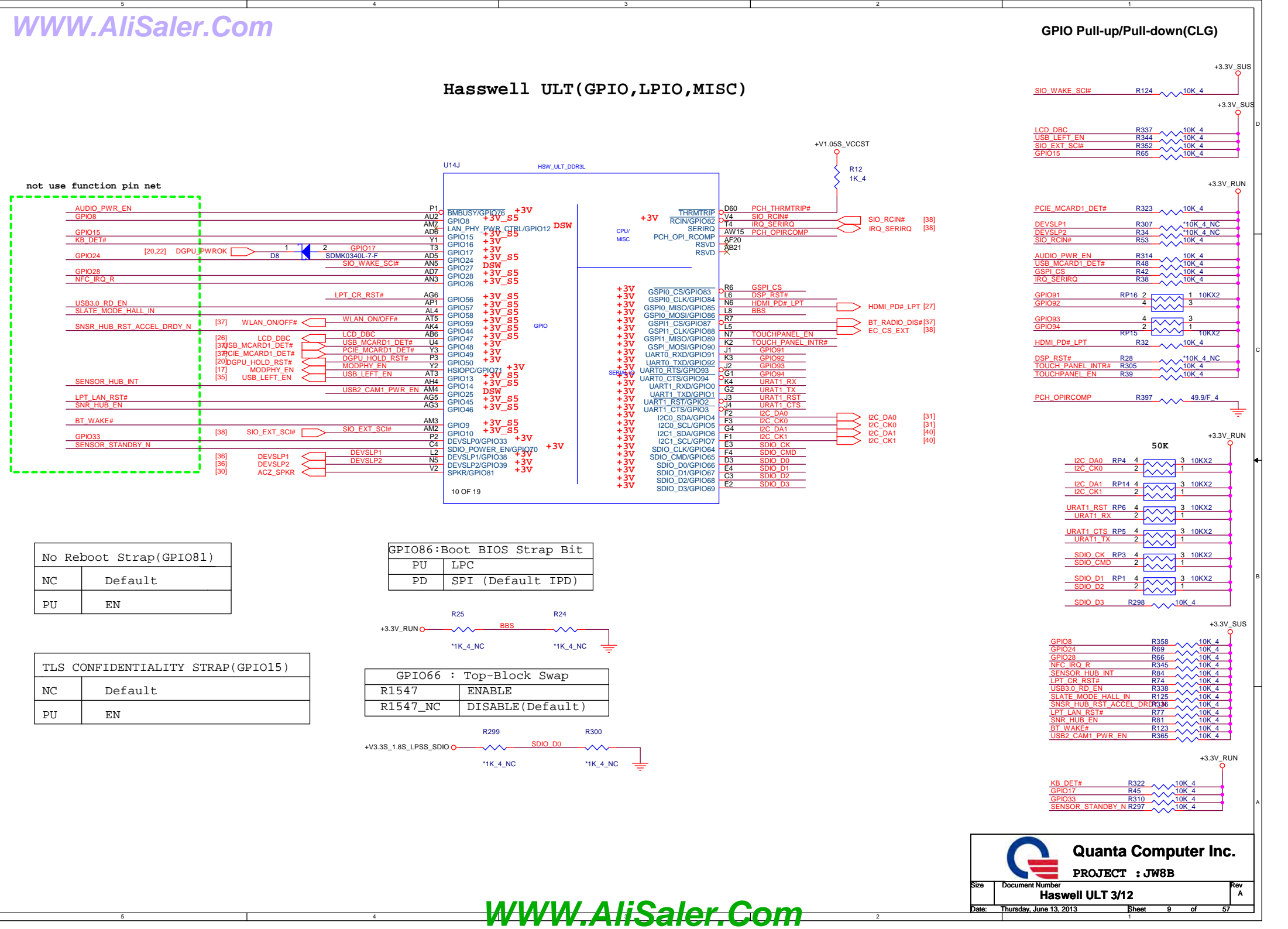
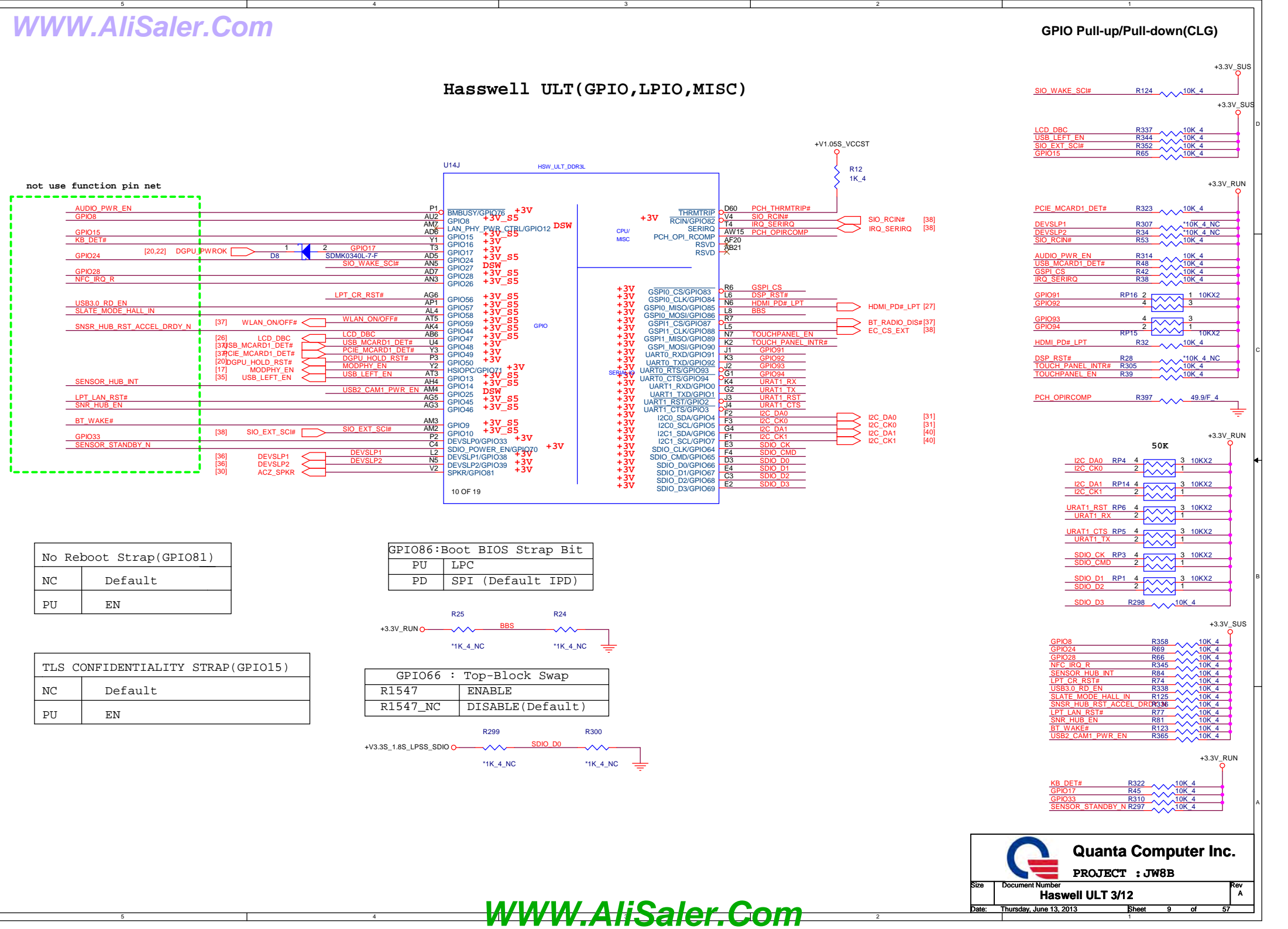
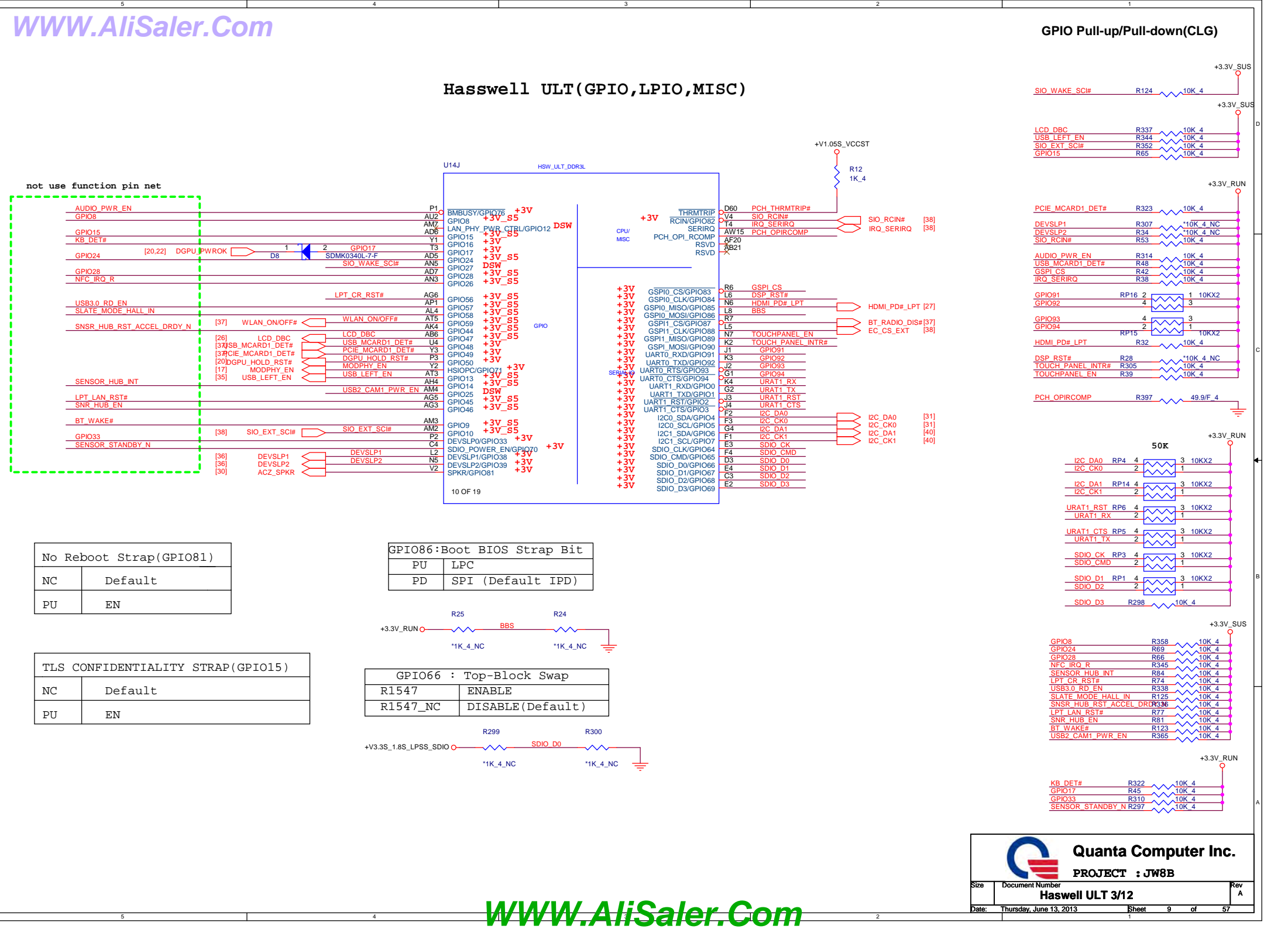
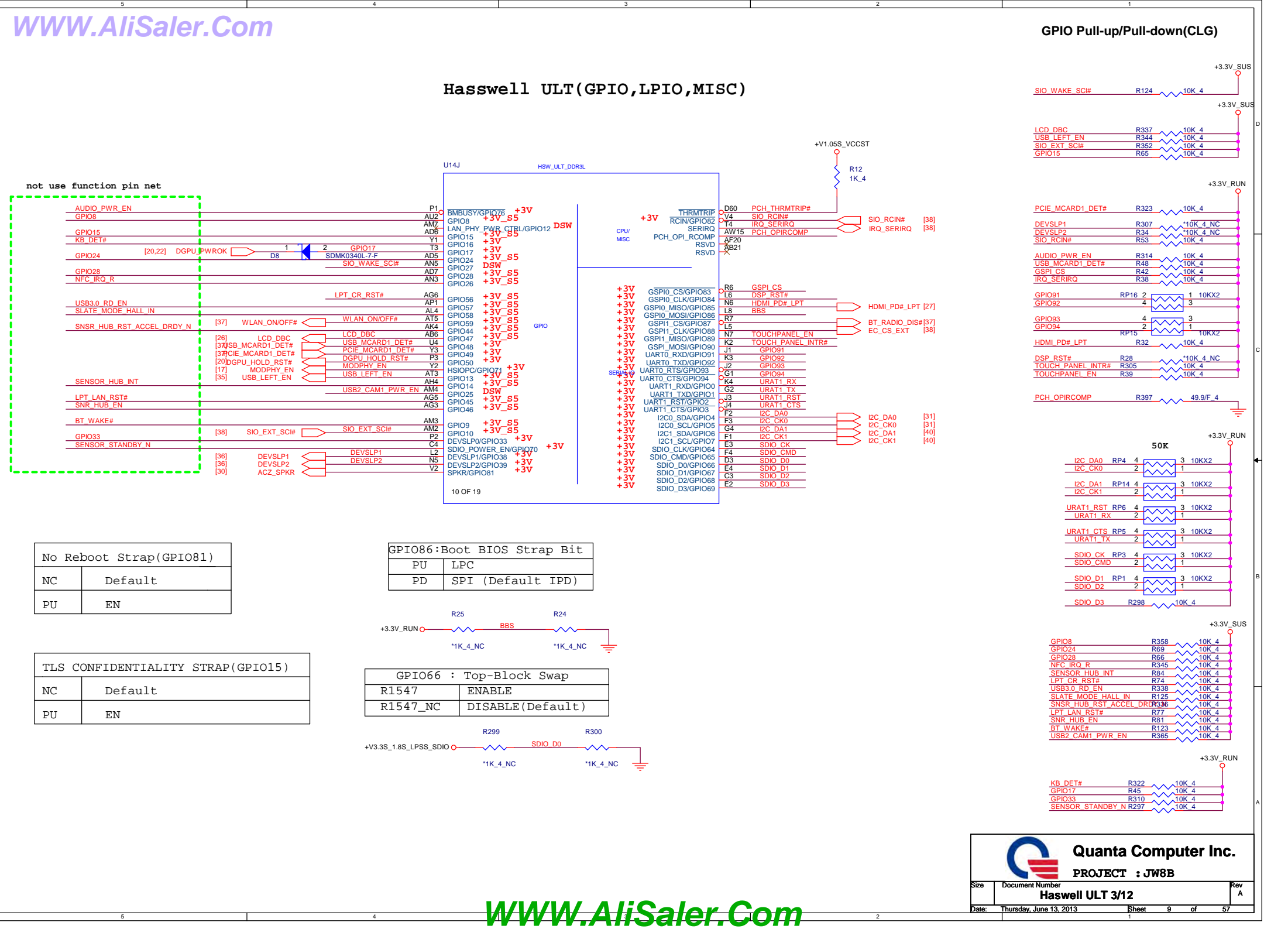
U14D

HSW_ULT_DDR3L

M_B_DQ0	AY31
M_B_DQ1	AW31
M_B_DQ2	AY29
M_B_DQ3	AW29
M_B_DQ4	AY31
M_B_DQ5	AU31
M_B_DQ6	AV29
M_B_DQ7	AU29
M_B_DQ8	AY27
M_B_DQ9	AW27
M_B_DQ10	AY25
M_B_DQ11	AW25
M_B_DQ12	AV27
M_B_DQ13	AU27
M_B_DQ14	AV25
M_B_DQ15	AU25
M_B_DQ16	AM29
M_B_DQ17	AK29
M_B_DQ18	AL28
M_B_DQ19	AK28
M_B_DQ20	AR29
M_B_DQ21	AN29
M_B_DQ22	AR28
M_B_DQ23	AP28
M_B_DQ24	AN26
M_B_DQ25	AR26
M_B_DQ26	AR25
M_B_DQ27	AP25
M_B_DQ28	AK26
M_B_DQ29	AM26
M_B_DQ30	AK25
M_B_DQ31	AL25
M_B_DQ32	AY23
M_B_DQ33	AW23
M_B_DQ34	AY21
M_B_DQ35	AW21
M_B_DQ36	AV23
M_B_DQ37	AU23
M_B_DQ38	AV21
M_B_DQ39	AU21
M_B_DQ40	AY19
M_B_DQ41	AW19
M_B_DQ42	AY17
M_B_DQ43	AW17
M_B_DQ44	AV19
M_B_DQ45	AU19
M_B_DQ46	AV17
M_B_DQ47	AU17
M_B_DQ48	AR21
M_B_DQ49	AR22
M_B_DQ50	AL21
M_B_DQ51	AM22
M_B_DQ52	AN22
M_B_DQ53	AP21
M_B_DQ54	AK21
M_B_DQ55	AK22
M_B_DQ56	AN20
M_B_DQ57	AR20
M_B_DQ58	AK18
M_B_DQ59	AL18
M_B_DQ60	AK20
M_B_DQ61	AM20
M_B_DQ62	AR18
M_B_DQ63	AP18

DDR CHANNEL B

4 OF 19

[illegible][illegible]

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not use function pin net

No Reboot Strap(GPIO81)	
NC	Default
PU	EN

TLS CONFIDENTIALITY STRAP(GPIO15)	
NC	Default
PU	EN

GPIO86:Boot BIOS Strap Bit	
PU	LPC
PD	SPI (Default IPD)

GPIO66 : Top-Block Swap	
R1547	ENABLE
R1547_NC	DISABLE(Default)



Quanta Computer Inc.
PROJECT : JW8B

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Date:	Thursday, June 13, 2013	Sheet 9 of 57

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not use function pin net

No Reboot Strap(GPIO81)	
NC	Default
PU	EN

TLS CONFIDENTIALITY STRAP(GPIO15)	
NC	Default
PU	EN

GPIO86:Boot BIOS Strap Bit	
PU	LPC
PD	SPI (Default IPD)

GPIO66 : Top-Block Swap	
R1547	ENABLE
R1547_NC	DISABLE(Default)



Quanta Computer Inc.
PROJECT : JW8B

Size	Document Number	Rev
	Haswell ULT 3/12	A
Date:	Thursday, June 13, 2013	Sheet 9 of 57


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No Reboot Strap(GPIO81)	
NC	Default
PU	EN

TLS CONFIDENTIALITY STRAP(GPIO15)	
NC	Default
PU	EN

GPIO86:Boot BIOS Strap Bit	
PU	LPC
PD	SPI (Default IPD)

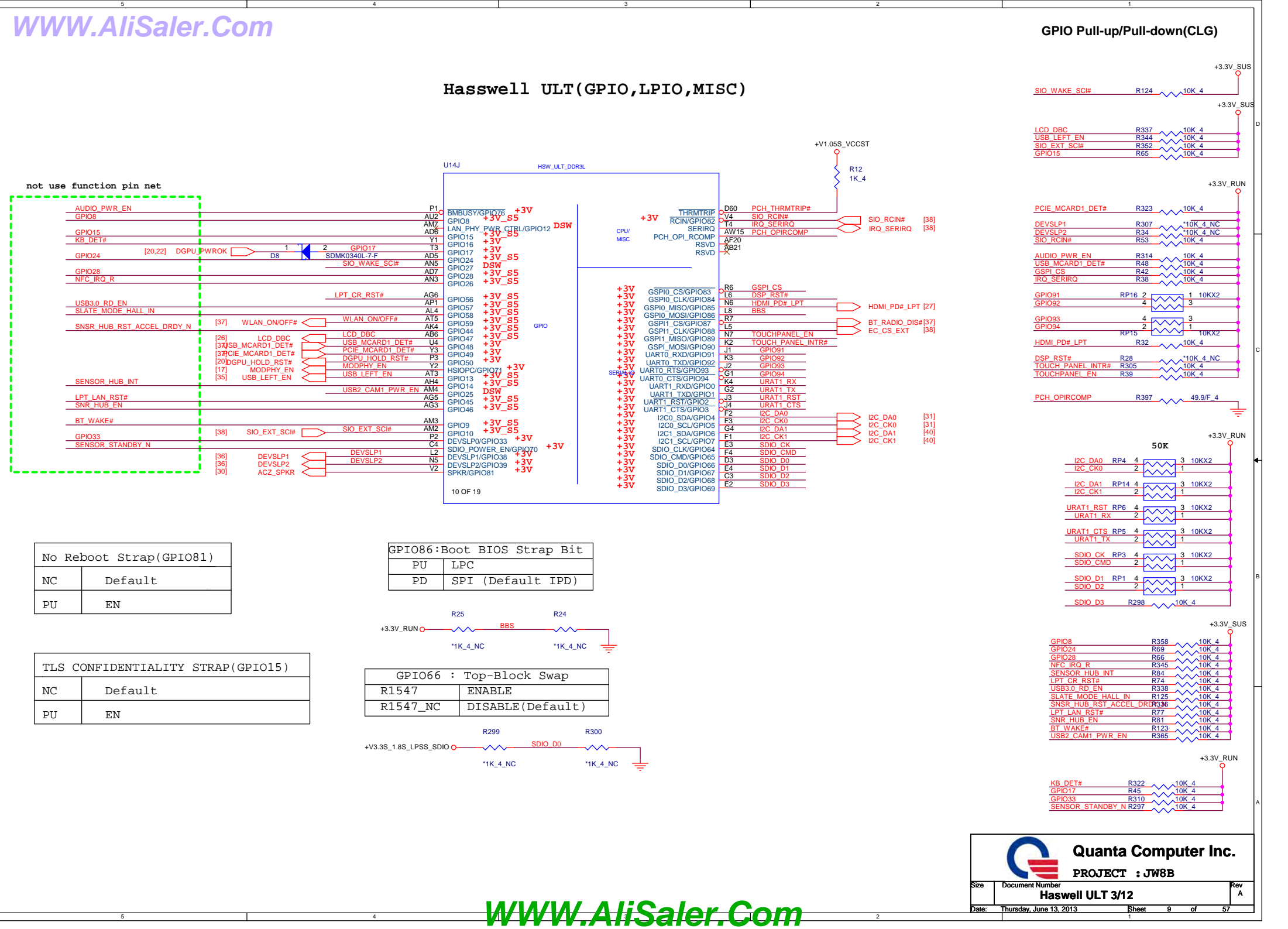
GPIO66 : Top-Block Swap	
R1547	ENABLE
R1547_NC	DISABLE(Default)



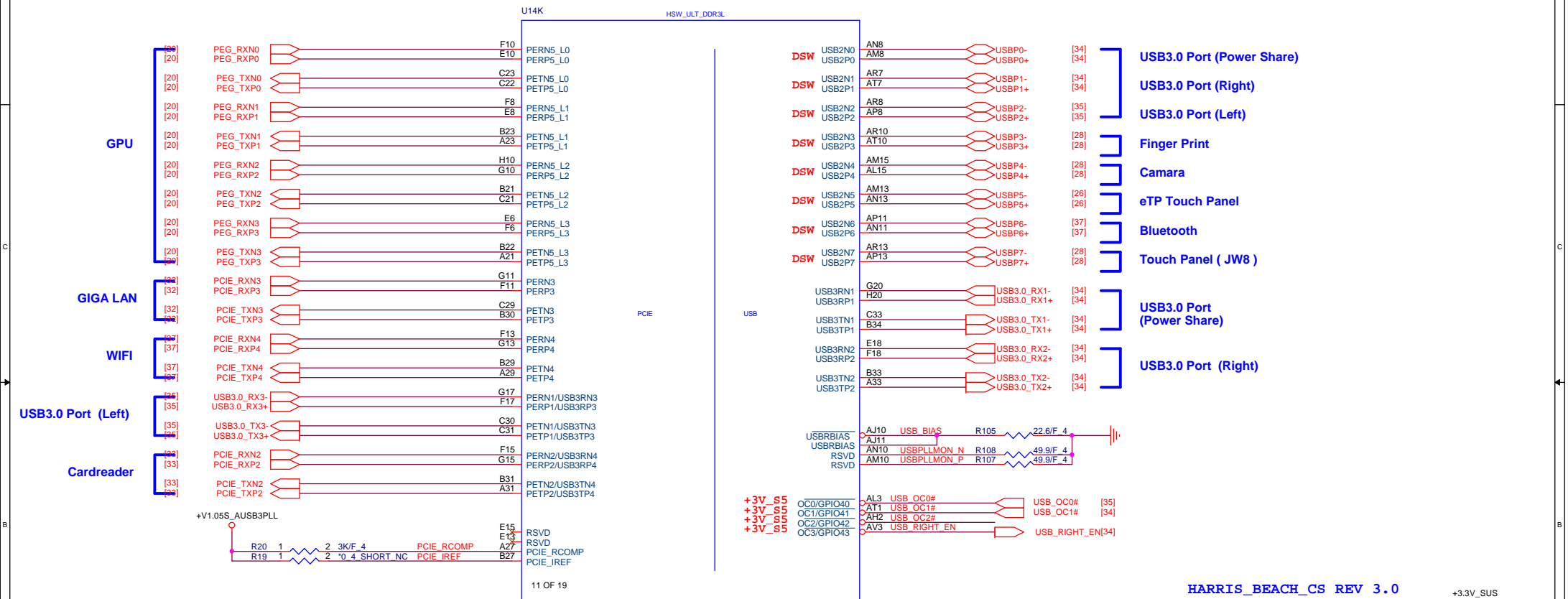
Quanta Computer Inc.
PROJECT : JW8B

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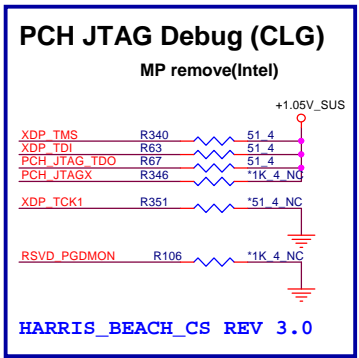
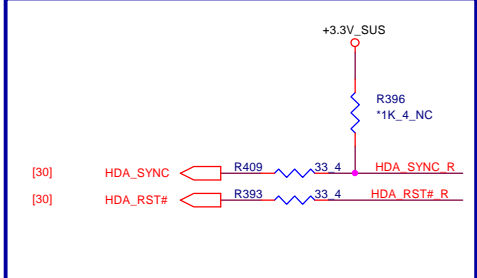
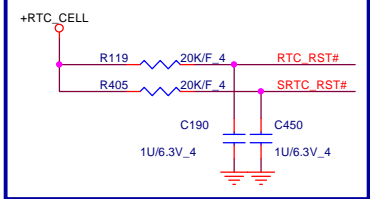
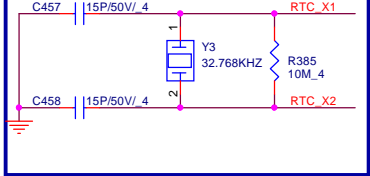
Haswell ULT (PCIE,USB)



Quanta Computer Inc.

PROJECT : JW8B

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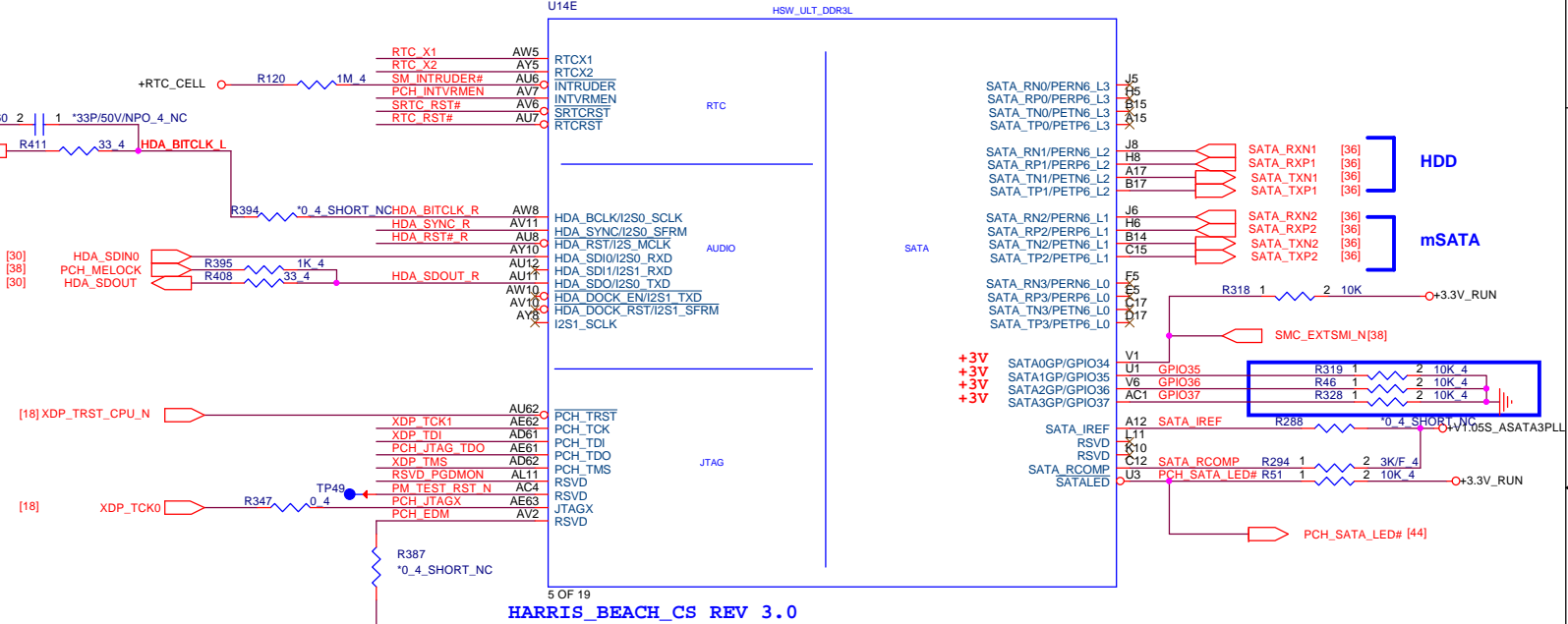


DFXTESTMODE
HIGH - DFXTESTMODE DISABLED(DEFAULT)
LOW - DFXTESTMODE ENABLED

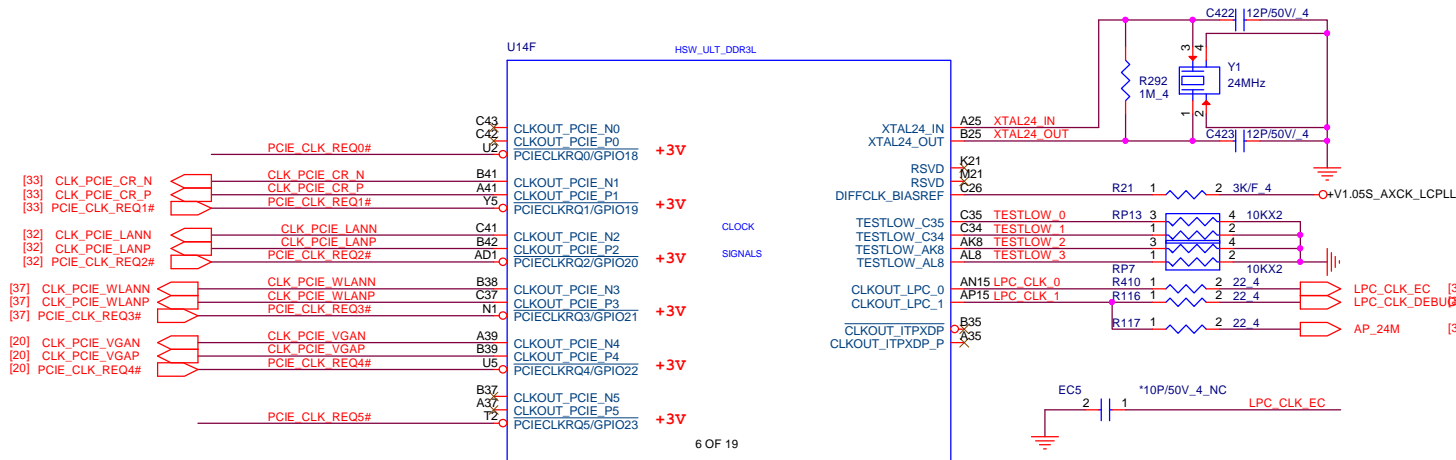
PCH Strap Table

Pin Name	Strap description	Sampled	Configuration	note
SPKR	No reboot mode setting	PWROK	0 = Default (weak pull-down 20K) 1 = Setting to No-Reboot mode	
HDA_SDO	Flash Descriptor Security Override / Intel ME Debug Mode	PWROK	0 = Security Effect (Int PD) 1 = Can be Override	
INTVRMEN	Integrated 1.05V VRM enable	ALWAYS	Should be always pull-up	+RTC_CELL - R407 - *330K 4 NC - PCH_INTVRMEN - R392 - 330K 4

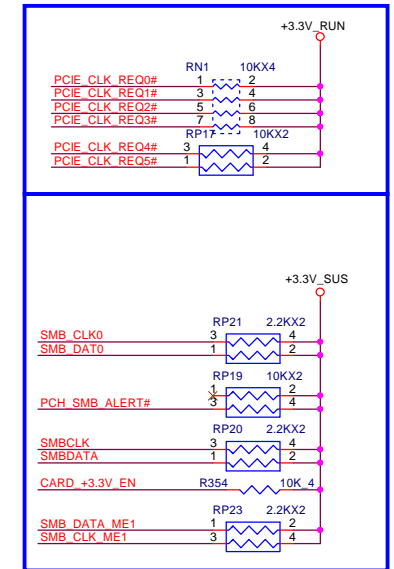
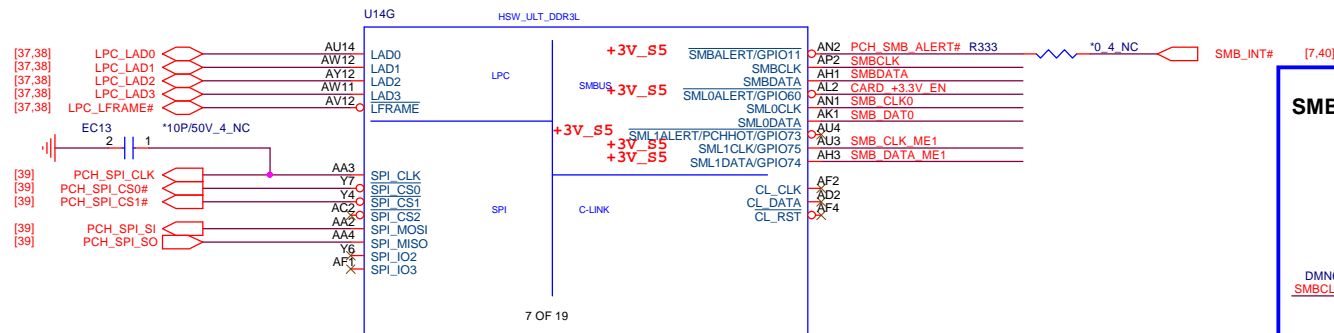
Haswell ULT (RTC, HDA, JTAG, SATA)



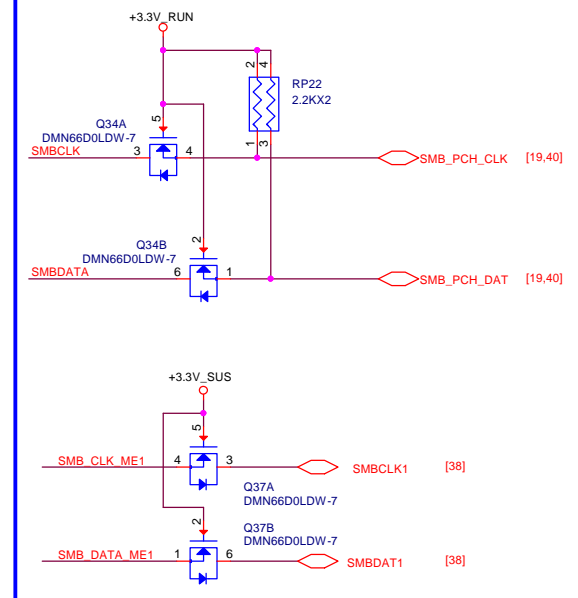
Haswell ULT (CLK)



Haswell ULT (LPC/SPI/SMB/CLINK)



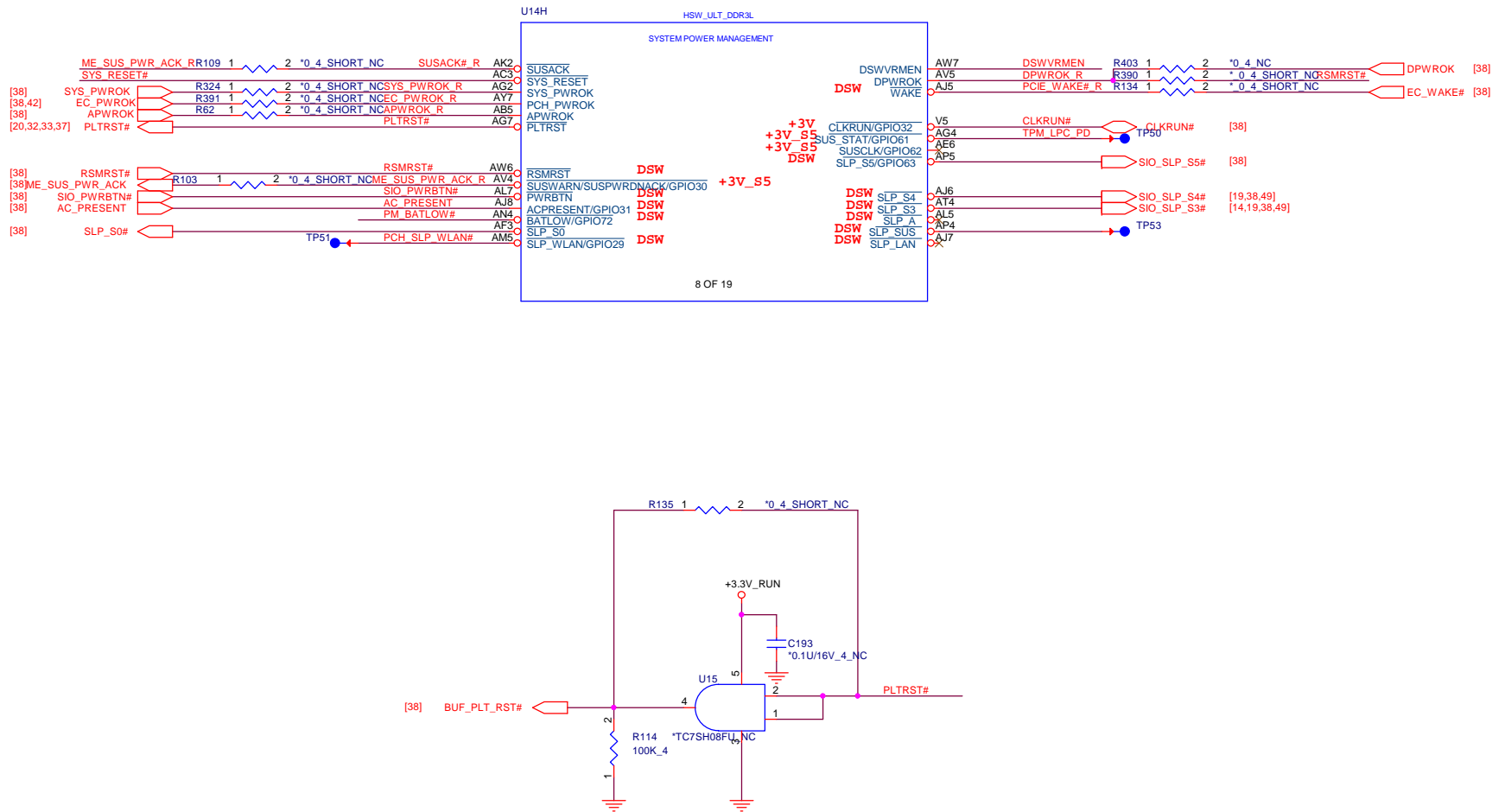
SMBus/Pull-up(CLG)



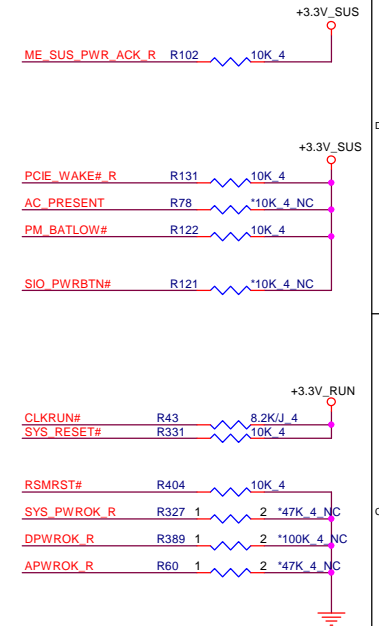
Quanta Computer Inc.

PROJECT : JW8B

Haswell ULT (SYSTEM POWER MANAGEMENT)



PCH Pull-high/low(CLG)



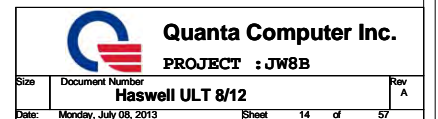
On Die DSW VR Enable
High = Enable (Default)
Low = Disable

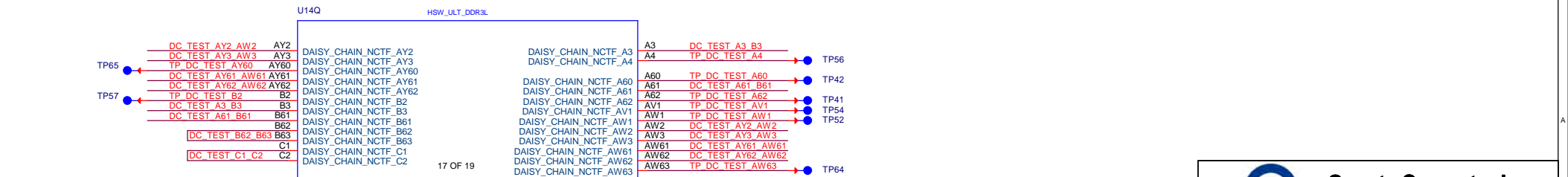
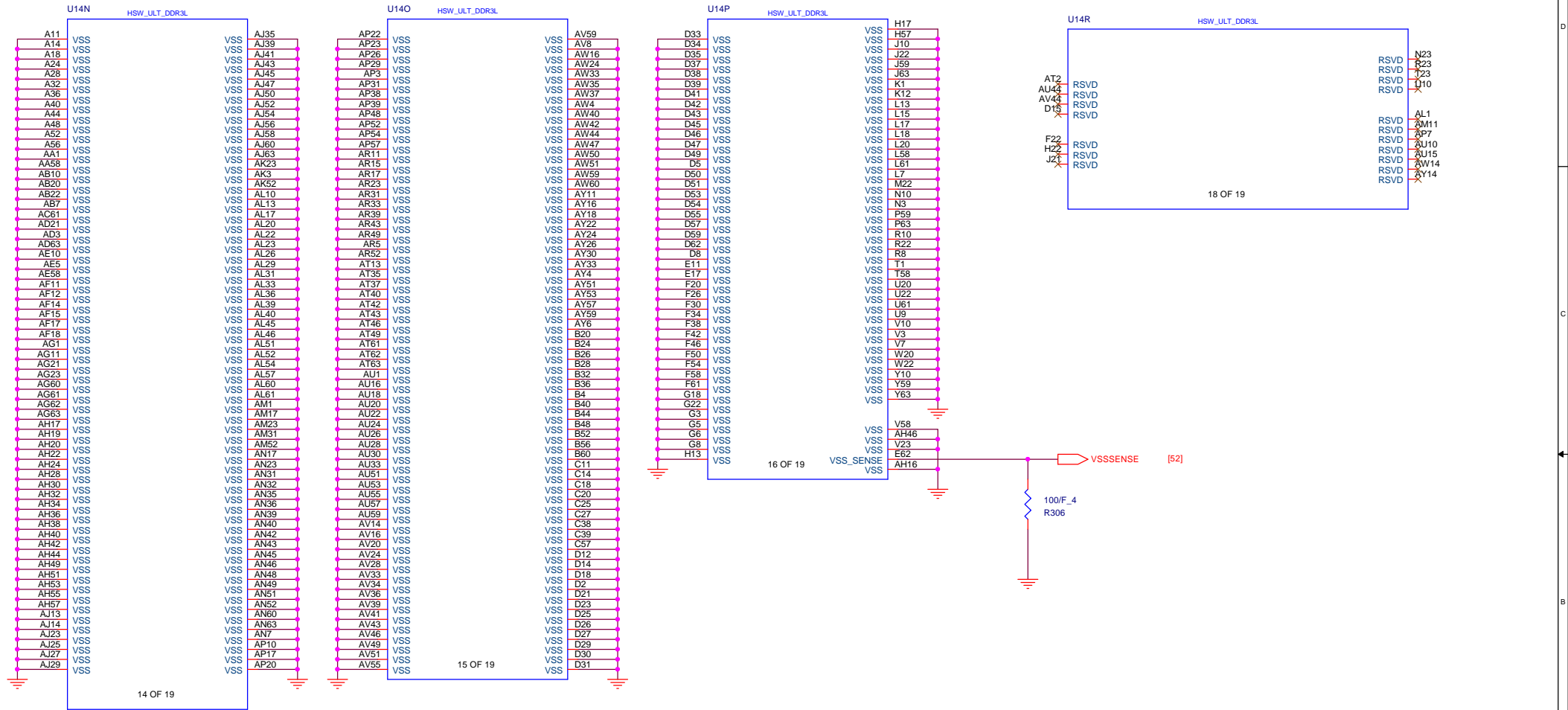


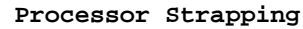
Quanta Computer Inc.
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SVID ALERT

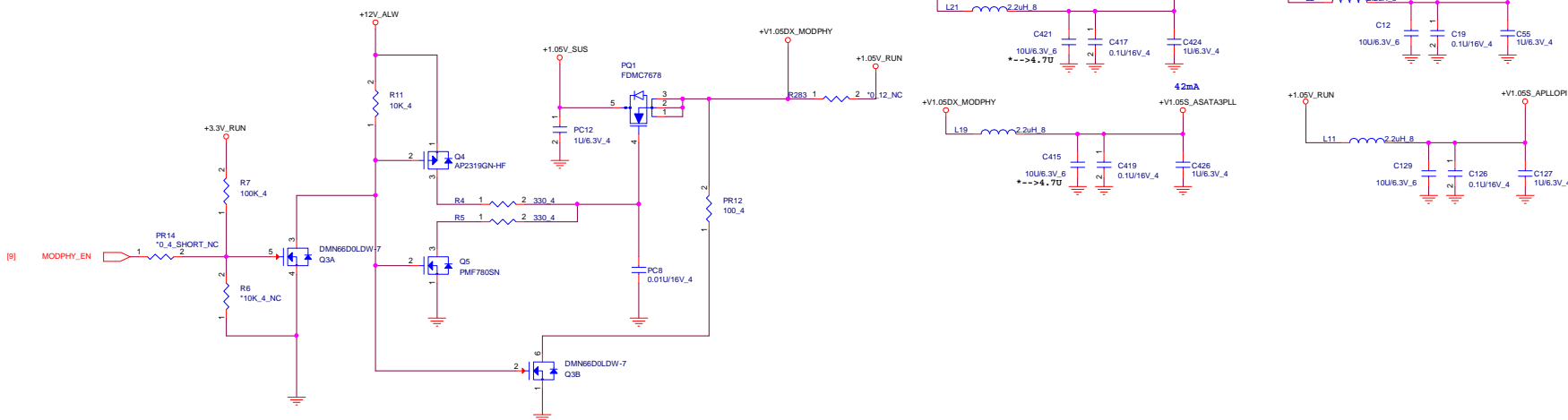
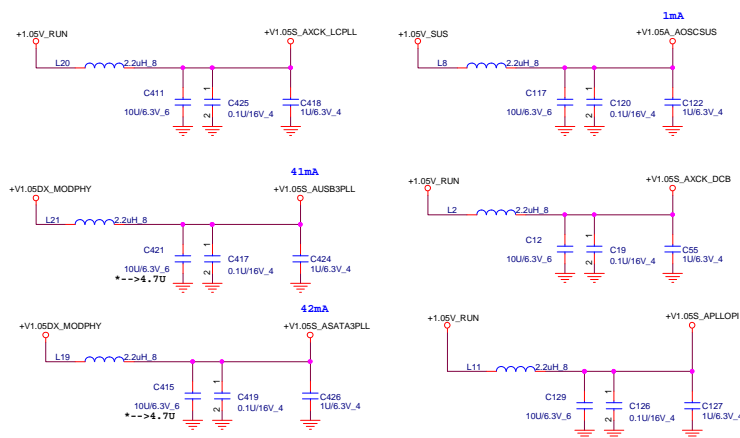
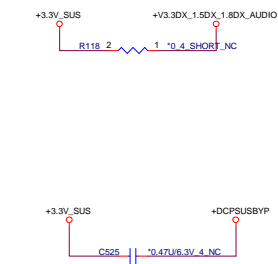
SVID DATA

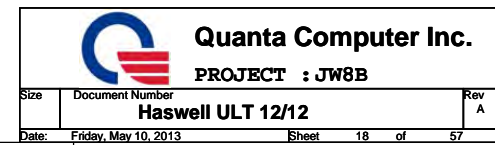






	1	0	
CFG0 EAR-STALL/NOT STALL RESET SEQUENCE AFTER PCU PLL IS LOCKED	(DEFAULT) NORMAL OPERATION; NO STALL	STALL	
CFG1 PCH/ PCH LESS MODE SELECTION	(DEFAULT) NORMAL OPERATION	PCH-LESS MODE	
CFG3 PHYSICAL_DEBUG_ENABLED (DFX PRIVACY)	DISABLED NO PHYSICAL DISPLAY PORT ATTACHED TO EMBEDDED DISPLAY PORT	ENABLED AN EXTERNAL DISPLAY PORT DEVICE IS CONNECTED TO THE EMBEDDED DISPLAY PORT	
CFG4 DISPLAY PORT PRESENCE STRAP	DISABLED NO PHYSICAL DISPLAY PORT ATTACHED TO EMBEDDED DISPLAY PORT	ENABLED AN EXTERNAL DISPLAY PORT DEVICE IS CONNECTED TO THE EMBEDDED DISPLAY PORT	
CFG8 ALLOW THE USE OF NOA ON LOCKED UNITS	DISABLED(DEFAULT); IN THIS CASE, NOA WILL BE DISABLED IN LOCKED UNITS AND ENABLED IN UN-LOCKED UNITS	ENABLED; NOA WILL BE AVAILABLE REGARDLESS OF THE LOCKING OF THE UNIT	
CFG9 NO SVID PROTOCOL CAPABLE VR CONNECTED	VRS SUPPORTING SVID PROTOCOL ARE PRESENT	NO VR SUPPORTING SVID IS PRESENT. THE CHIP WILL NOT GENERATE (OR RESPOND TO) SVID ACTIVITY	
CFG10 SAFE MODE BOOT	POWER FEATURES ACTIVATED DURING RESET	POWER FEATURES (ESPECIALLY CLOCK GATINE ARE NOT ACTIVATED	





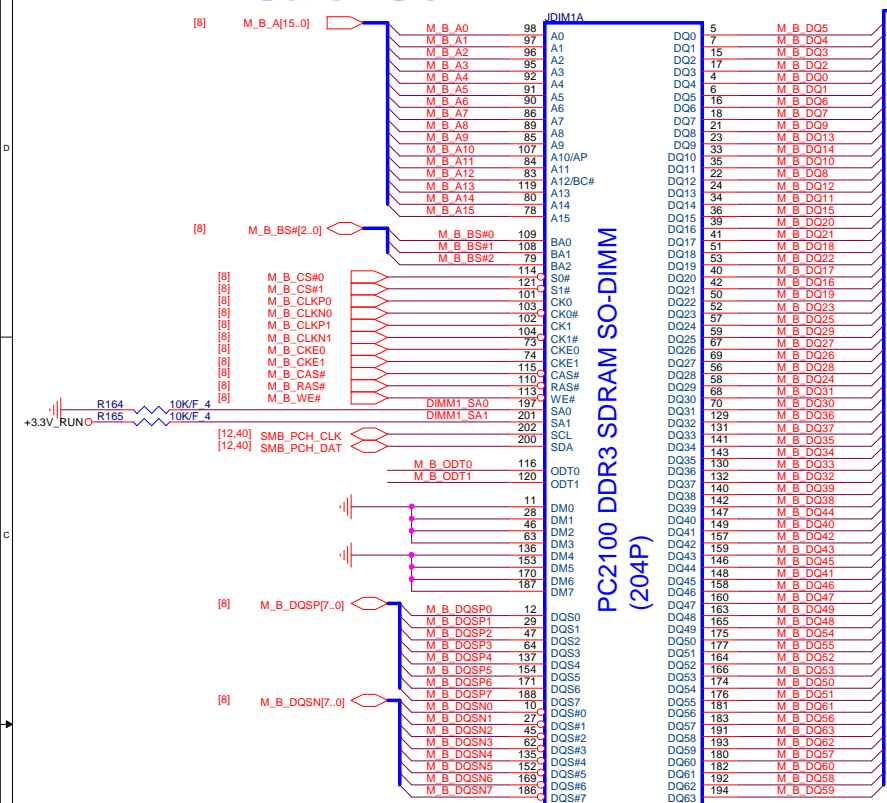
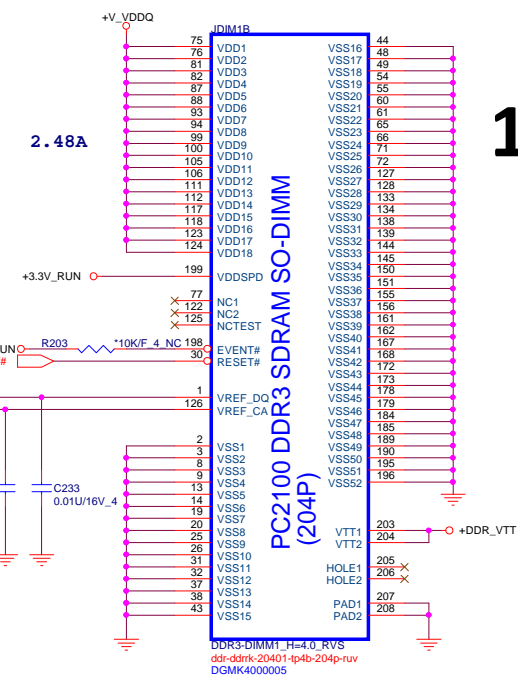
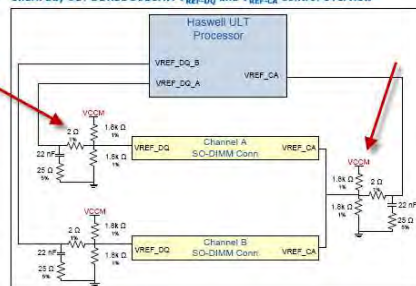
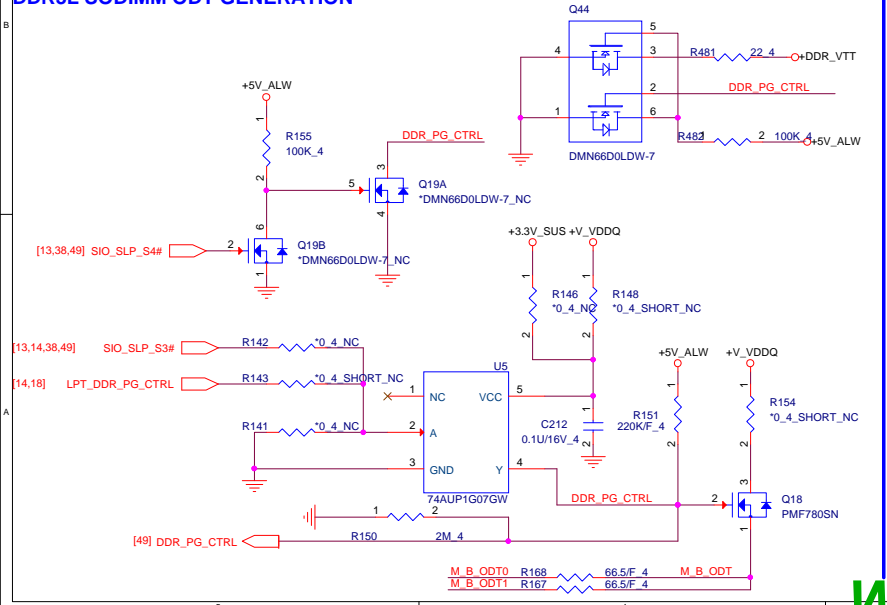


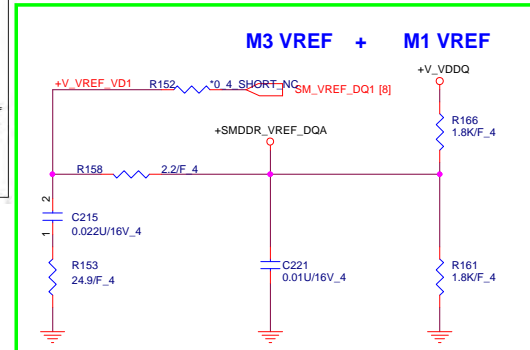
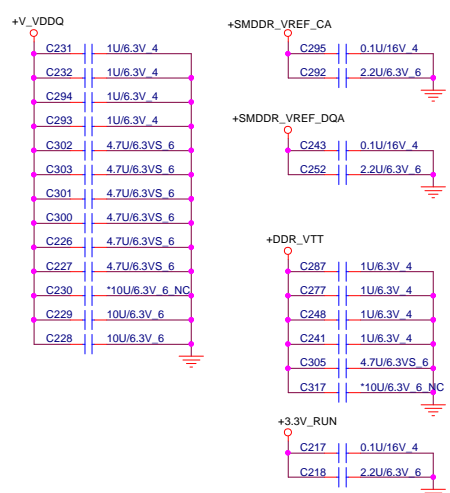
Figure 91. Shink Bay ULT DDR3L SODIMM VREF-DQ and VREF-CA Control Overview

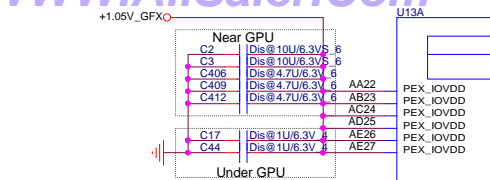


DDR3L SODIMM ODT GENERATION

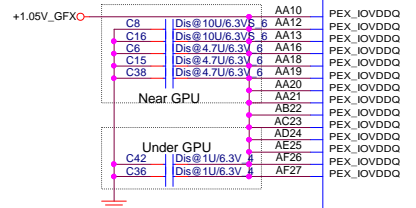


Place these Caps near So-Dimm1.

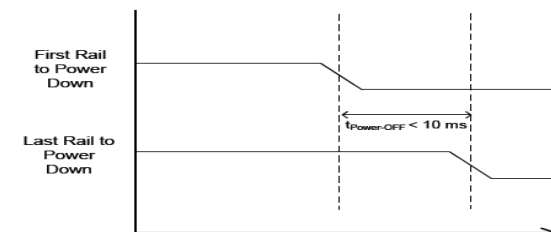
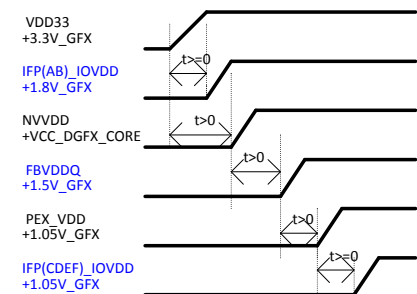
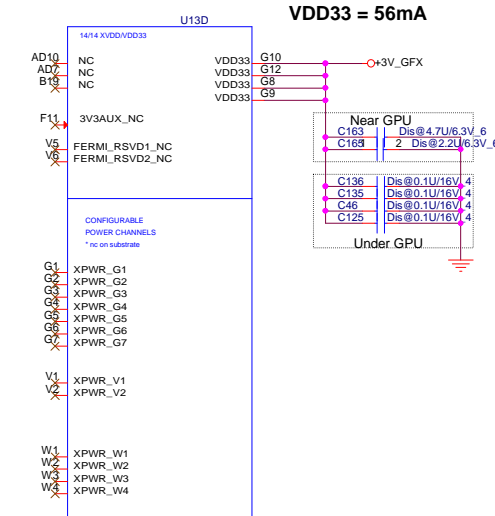
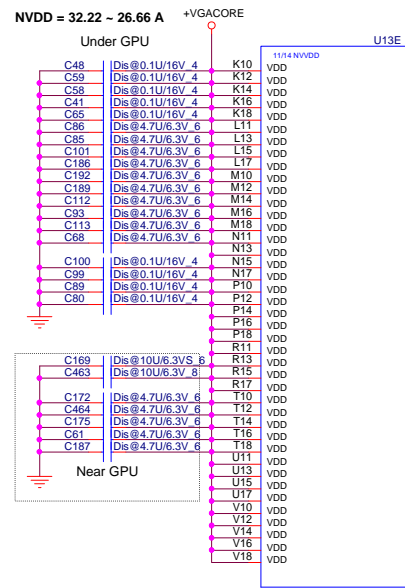
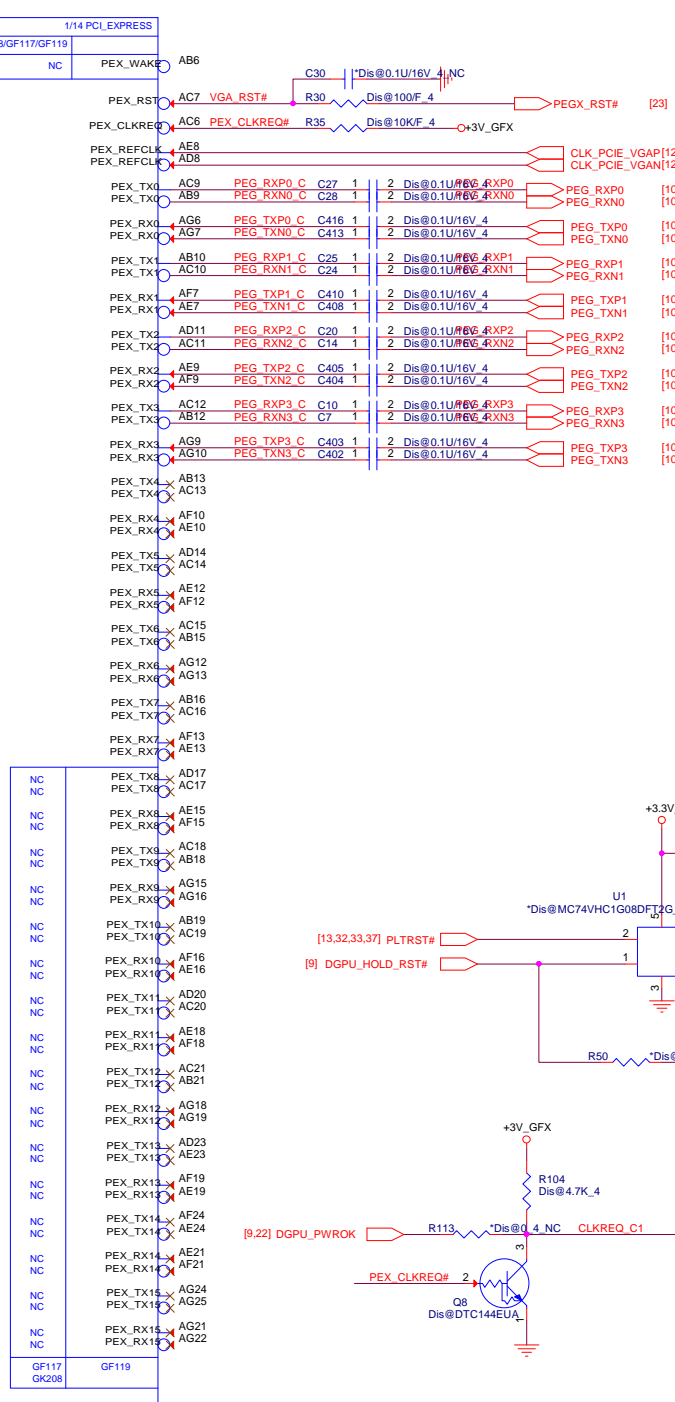
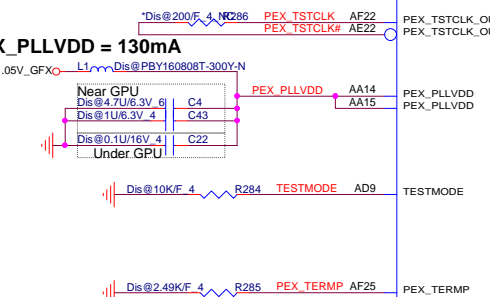
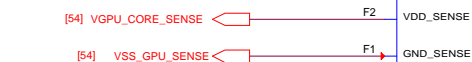
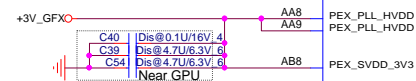





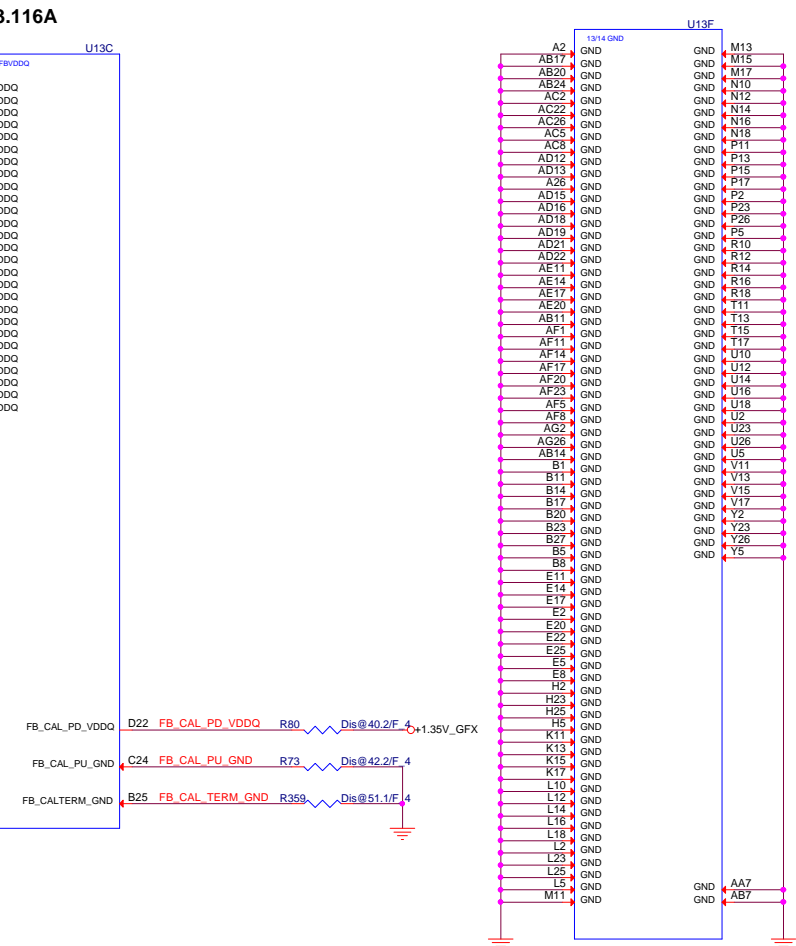
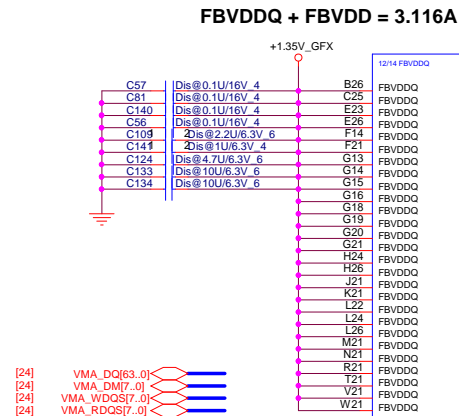
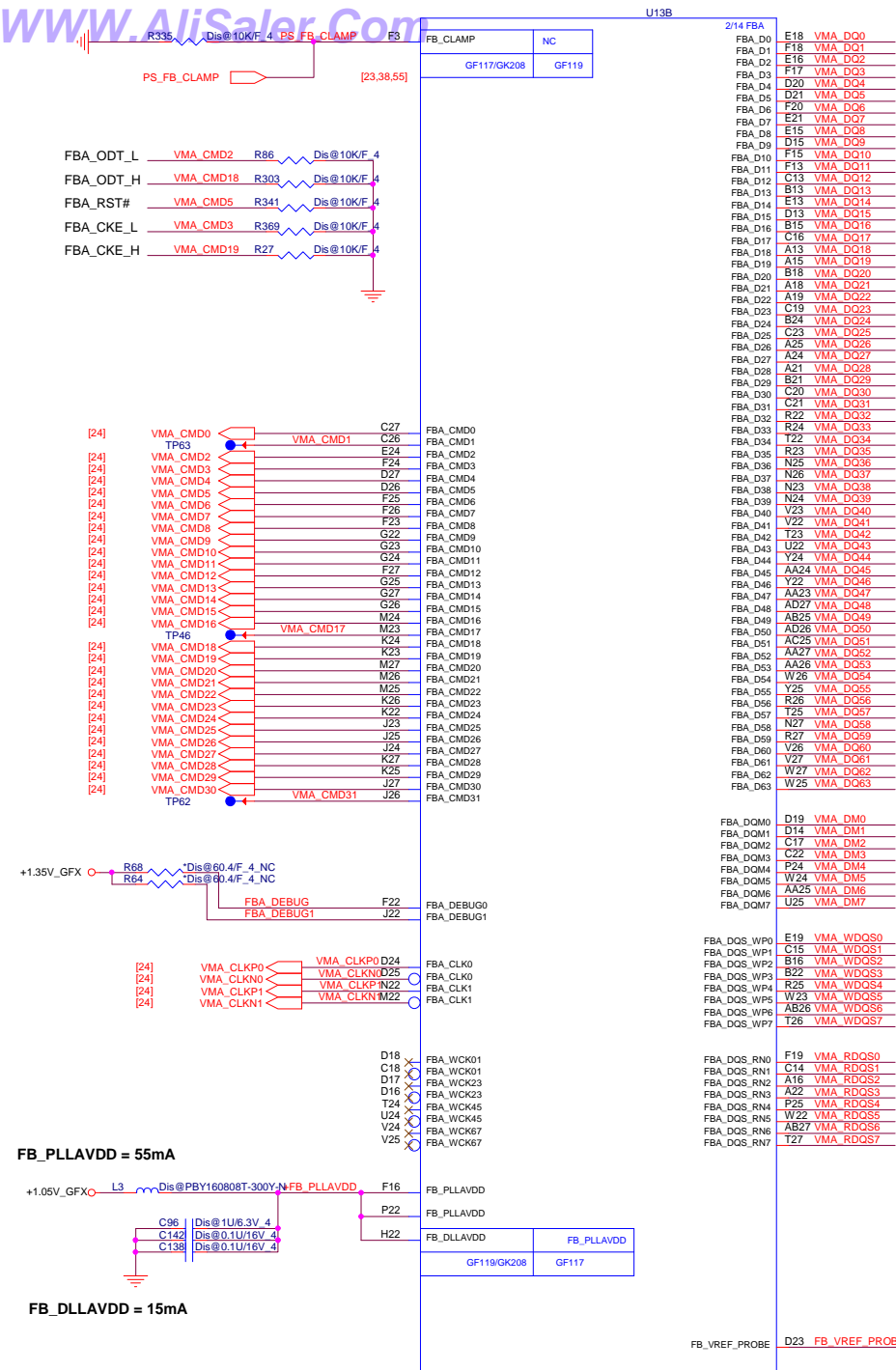
PEX IOVDD + PEX IOVDDQ = 1.042A

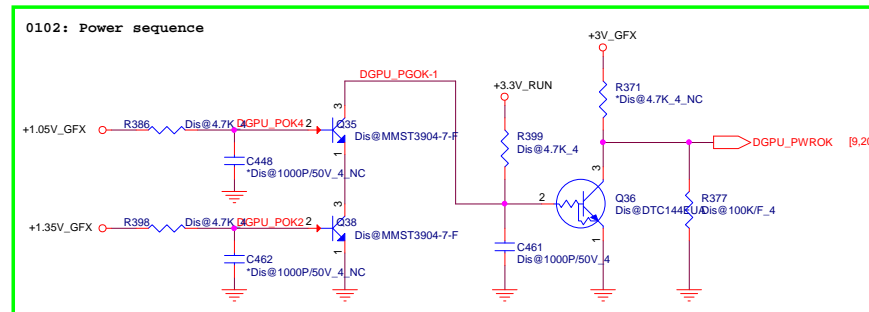
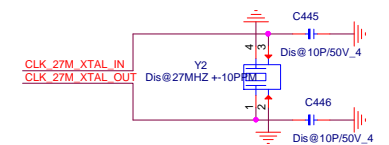
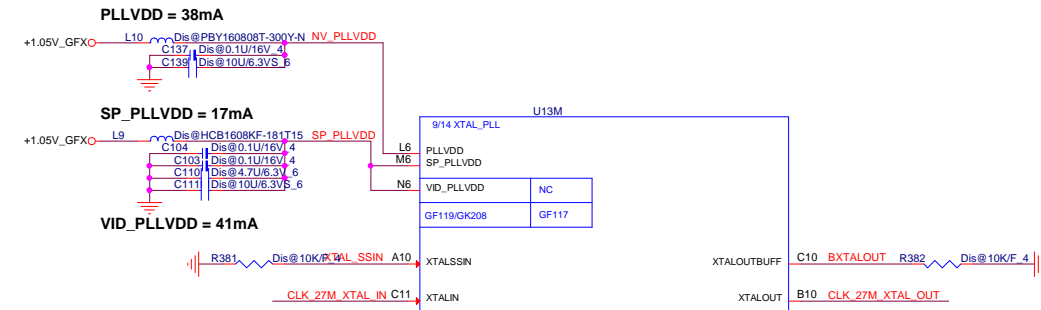
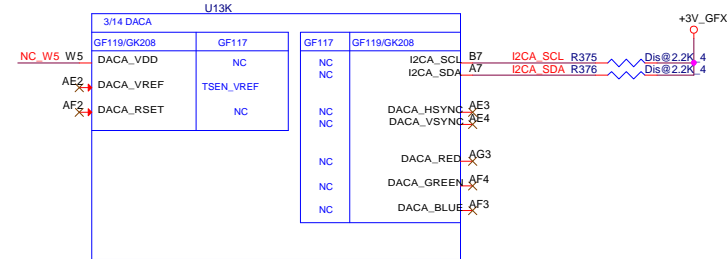
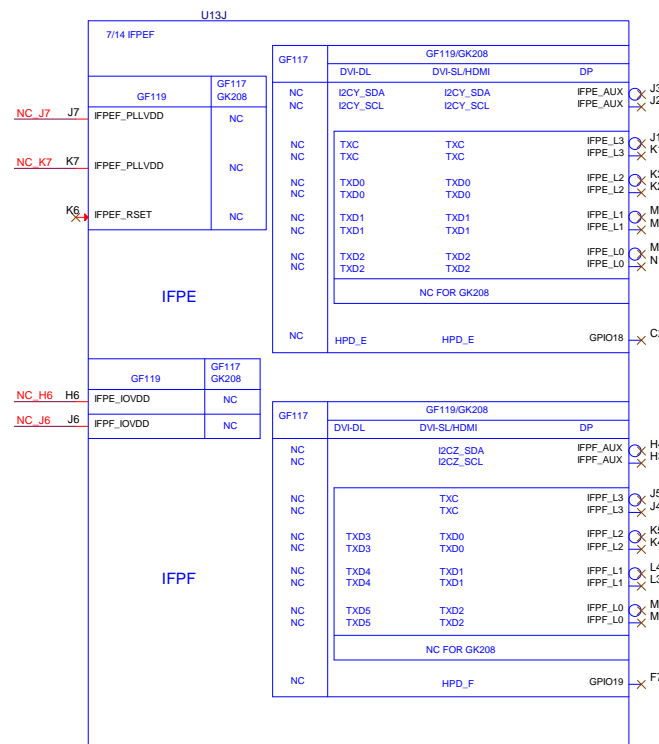
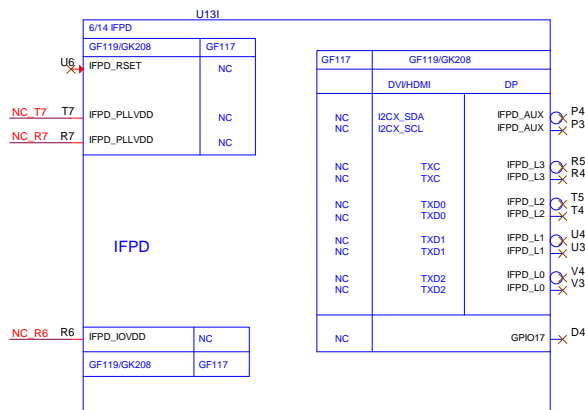
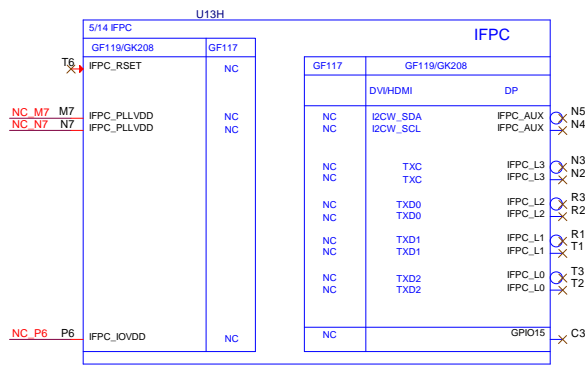
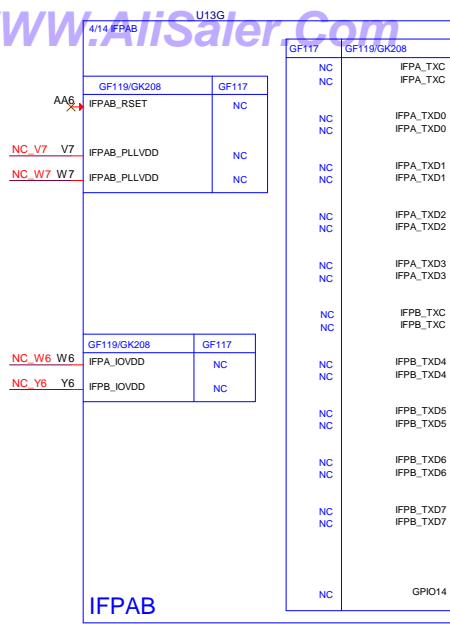


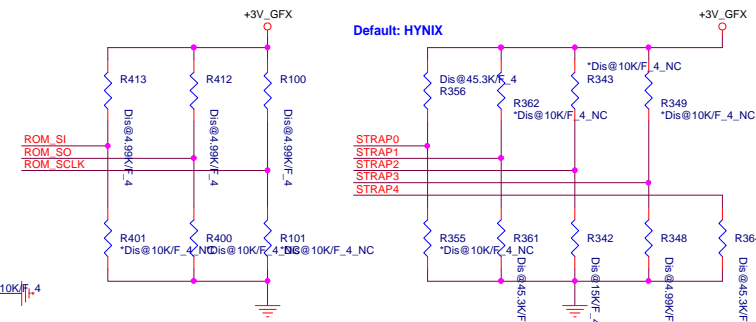
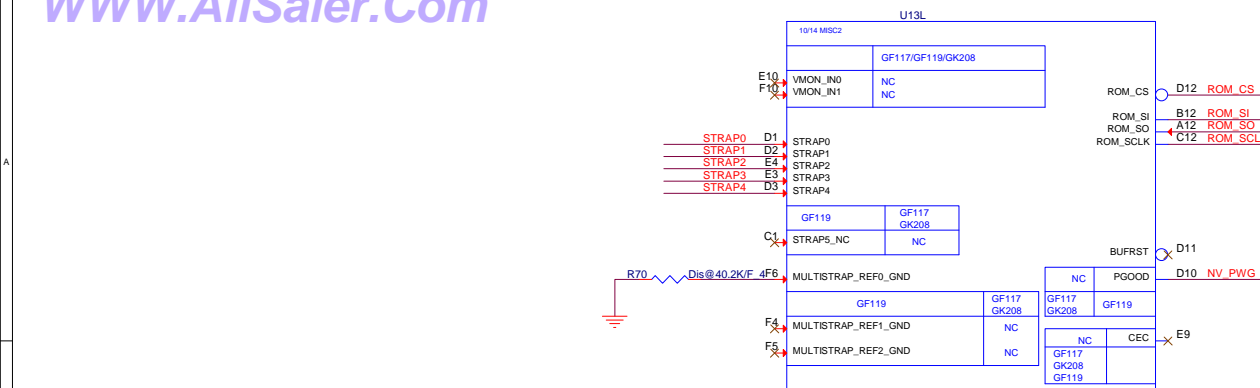
**PEX_PLL_HVDD +
PEX_SVDD 3V3 = 143mA**



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DGPU 1/5 (PEG)		
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4.99K: CS24992FB00 RES CHIP 4.99K 1/16W +1% (0402)
 45K: CS34502FB00 RES CHIP 45K 1/16W +1% (0402)
 15K: CS31502FB24 RES CHIP 15K 1/16W +1% (0402)
 30.1K: CS33012FB18 RES CHIP 30.1K 1/16W +1% (0402)
 34.8K: CS33482FB22 RES CHIP 34.8K 1/16W +1% (0402)

Binary Strap Mode Mapping

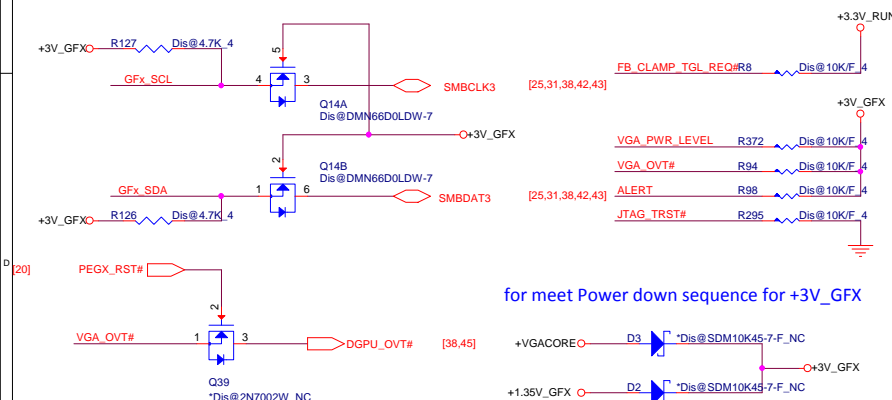
Strap Pin name	Strap Mapping	Resistance	Note
ROM_SCLK	PCI_DEVID[4] SUB_VEN00R PCI_DEVID[5] PEX_PLL_EN	5Kohm , H	1000 , SUB: no Video BIOS
ROM_SI	RAM_CFG[2] RAM_CFG[1] RAM_CFG[0]	5Kohm , H	4.99K 1000 --> Micron MT41K128M16JT-107G:K (Default) 30.1K 1101 --> Micron MT41K256M16HA-107G:E 34.8K 1110 --> Hynix H5TC4G63AFR-11C
ROM_SO	FB[1] FB[0] SMB_ALT_ADDR VGA_DEVICE	5Kohm , H	1000 , FB: 256 MB (Default) SMB:0x9E
STRAP0	User strap [3:0]	45Kohm , H	1111 , EDID is used
STRAP1	3GIO_CFG[3:0]	45Kohm , D	1111 , USER defined
STRAP2	PCI_DEVID[3:0]	15Kohm , D	010010 , N14P-GV2
STRAP3	SOR[3:0]_EXPOSED	5Kohm , D	0000 , IFPx port not use
STRAP4	RESERVED PCIE_SPEED_GEN3 PCIE_MAX_SPEED DP_PLL_VDD33V	45Kohm , D	0111 , PCIE GEN3 setting

GPIO ASSIGNMENTS (GB2-64)

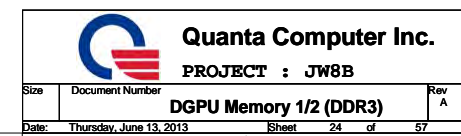
GPIO	I/O	PIN	USAGE
0	IN	FB_CLAMP_MON	FB Clamp monitor
1	OUT	MEM_VDD_CTL	MEMORY VDD ID
2	OUT	LCD_BL_PWM	LCD BACKLIGHT PWM
3	OUT	LCD_VCC	PANEL POWER ENABLE
4	OUT	LCD_BLEN	PANEL BACKLIGHT ENABLE
5		RESERVE	
6	OUT	FB_CLAMP_TGL_REQ#	# --> FB Clamp toggle request
7	OUT	3DVision	3D VISION LEFT/RIGHT VISION
8	I/O	OVERT	ACTIVE LOW THERMAL OVER TEMP
9	I/O	ALERT	ACTIVE LOW THERMAL ALERT
10	OUT	MEM_VREF_CTL	MEMORY VREF CONTROL
11	OUT	PWM_VID	GPU Core VDD PWM control
12	IN	PWR_LEVEL	Power Detect ,HIGH=AC, LOW=DC
13	OUT	PSI	Phase Shedding
14	IN	HPD_A	HOT PLUG DETECT FOR IFPAB
15	IN	HPD_C	HOT PLUG DETECT FOR IFPC
16	OUT	FRM_LCK	MEMMORY VDD CONTROL
17	IN	HPD_D	HOT PLUG DETECT FOR IFPD
18	IN	HPD_E	HOT PLUG DETECT FOR IFPE
19	IN	HPD_F or HPD_B	HOT PLUG DETECT FOR IFPF
20/21		RESERVE	

VRAM Configuration Table

RAMCFG [3:0]	DESCRIPTION	Vendor	DELL P/N	QC1 P/N
0000				
1000 0x8	MT41K128M16JT-107G:K (FCBGA)(96P)	Micron	NA	AKD5DGSTL00
1101 0xD	MT41K256M16HA-107G:E	Micron	NA	AKD5PGSTL00
1110 0xE	H5TC4G63AFR-11C	Hynix	NA	AKD5PGWTW05



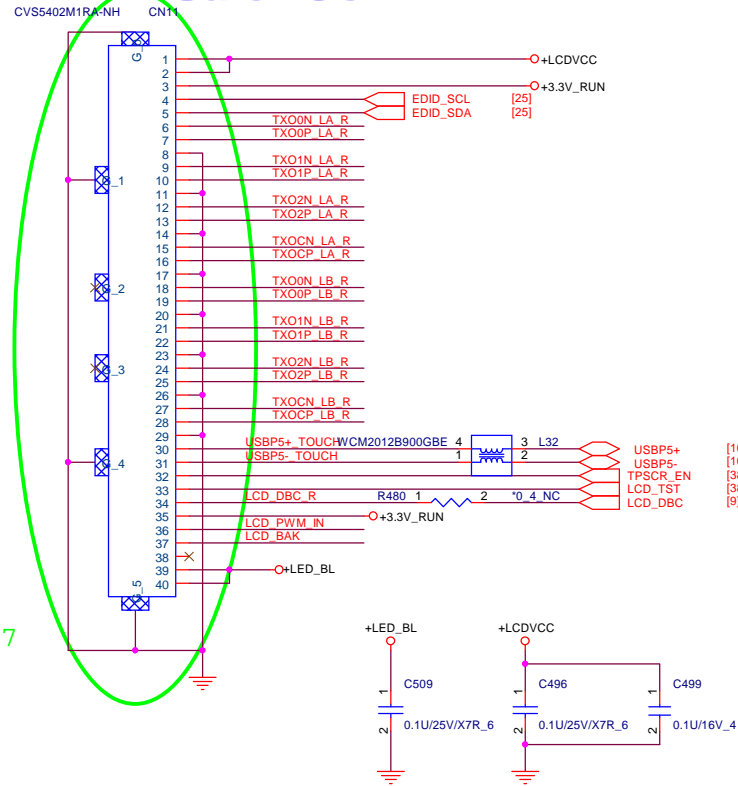
for meet Power down sequence for +3V_GFX



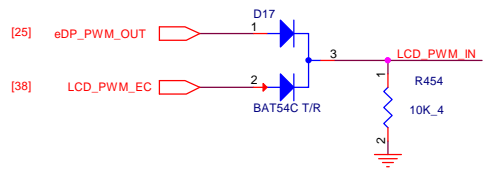


A

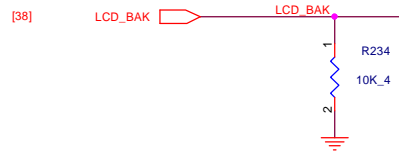
[illegible]



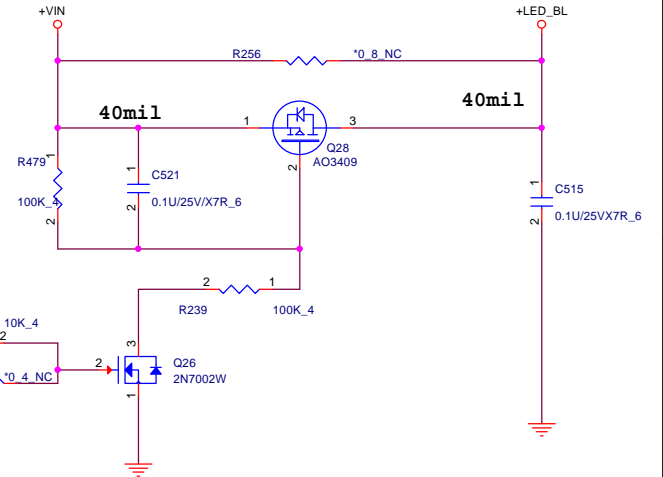
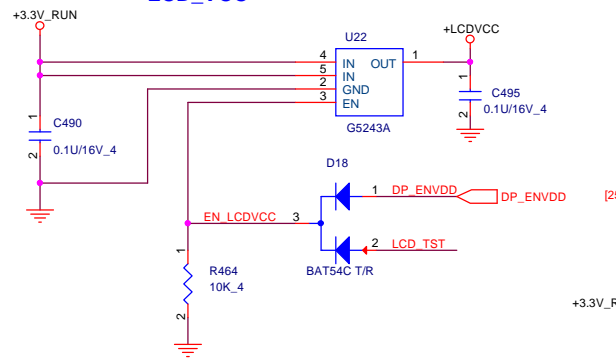
Brightness Control



BAK_EN

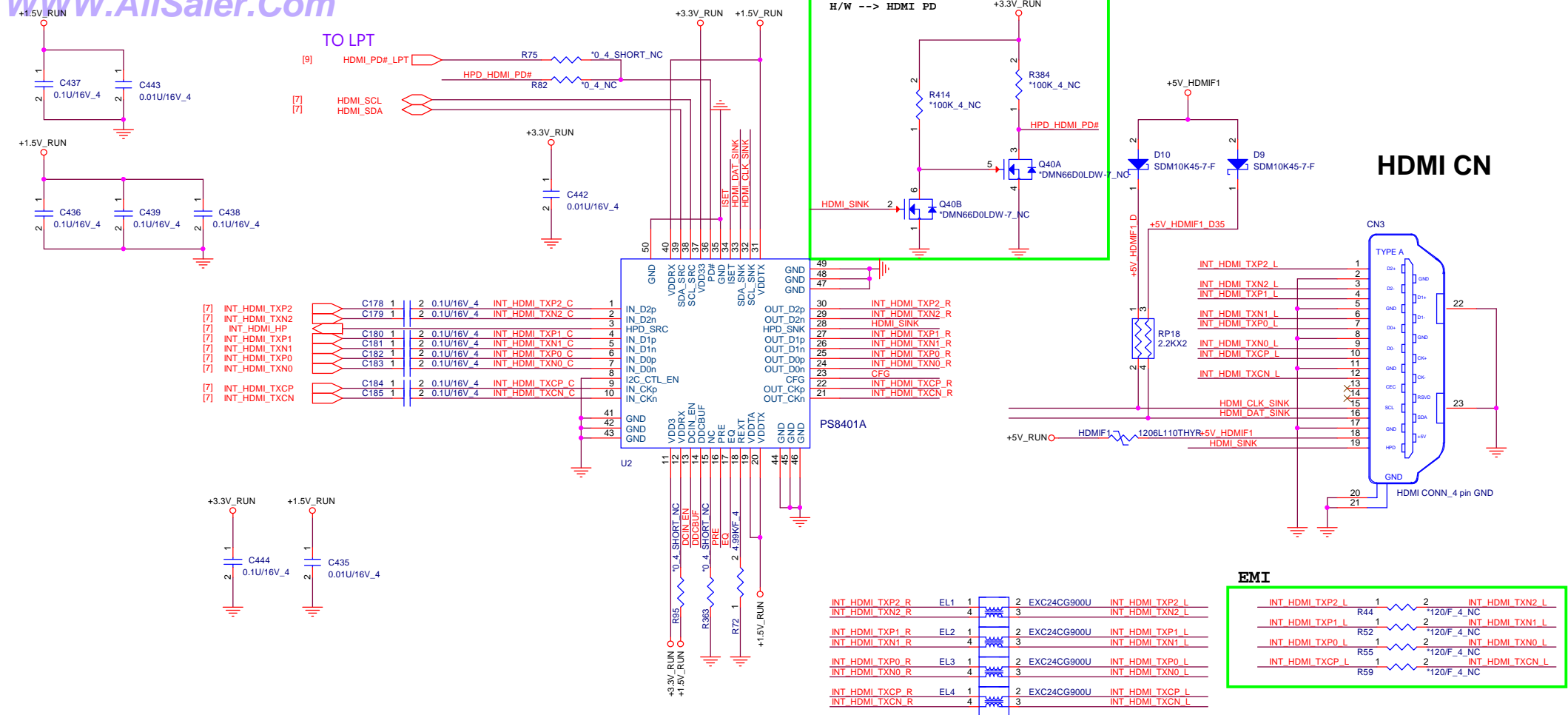


LCD_VCC

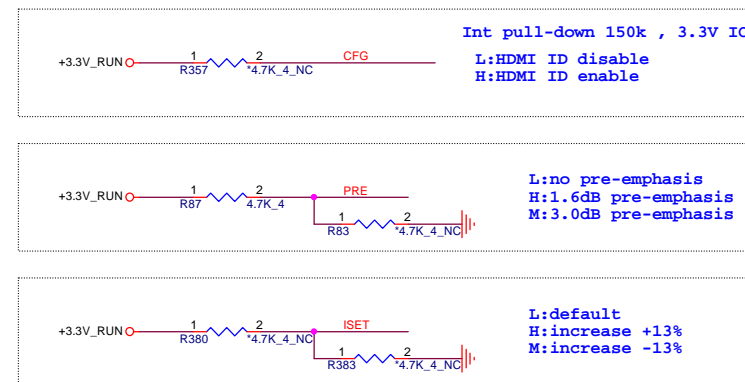
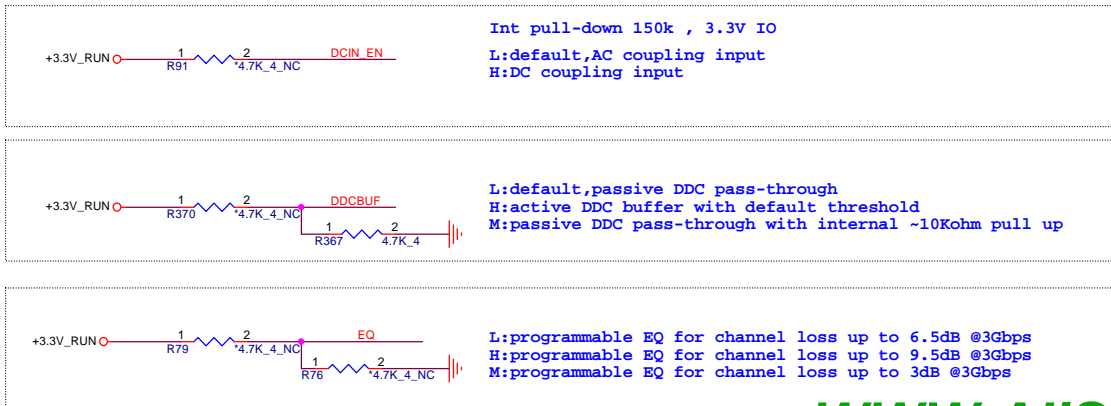


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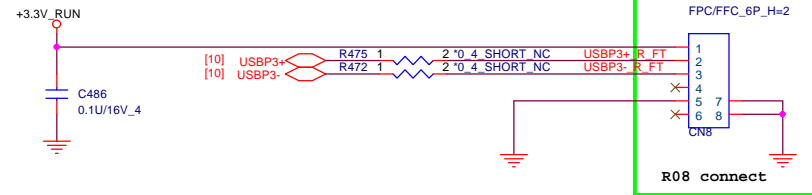
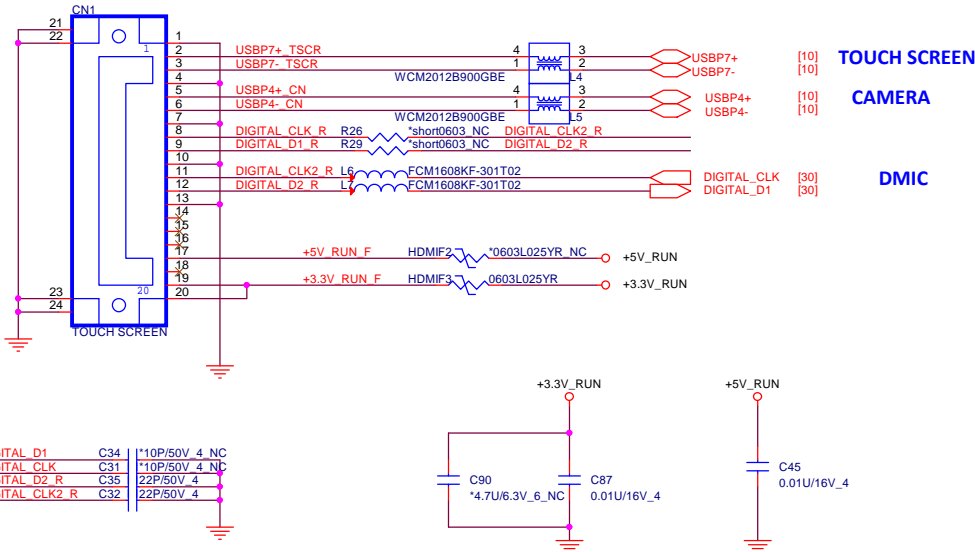
3 Level Input:
 L:LOW,internal pull down
 H:HIGH, external pull up
 M:VDD3/2, both external pill-up and pull-down



CAMERA / DMIC

Fingerprint

Conn P/N, Footprint OK. Luke 12/18

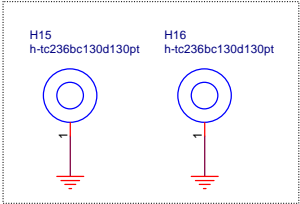


Quanta Computer Inc.

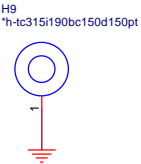
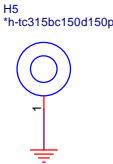
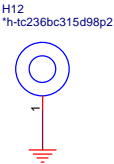
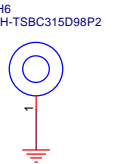
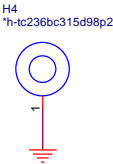
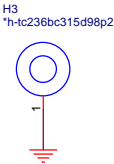
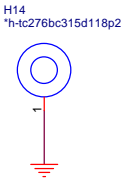
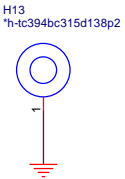
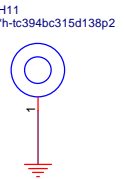
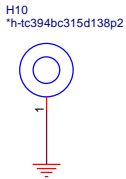
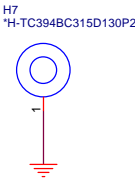
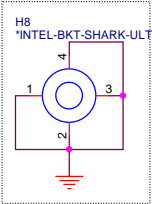
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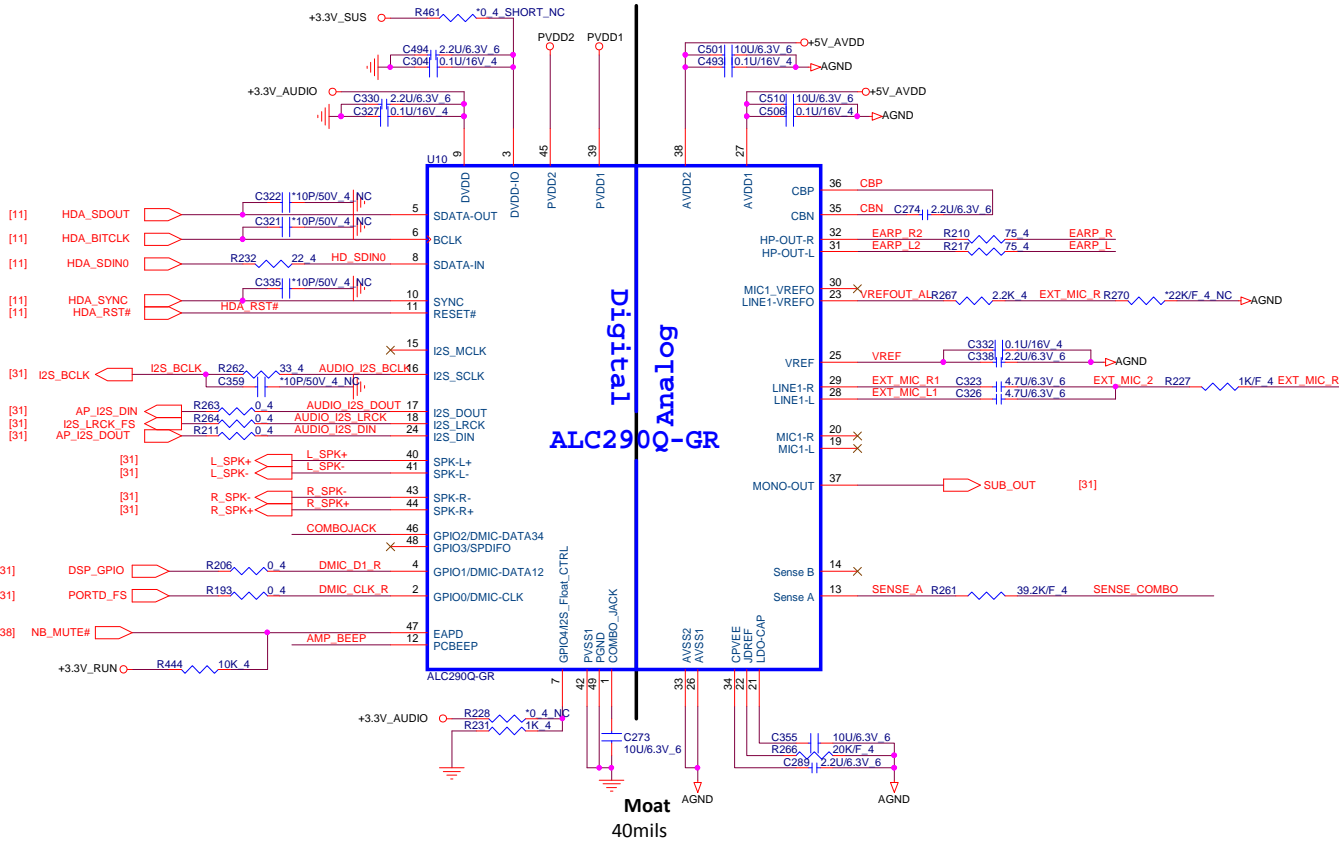
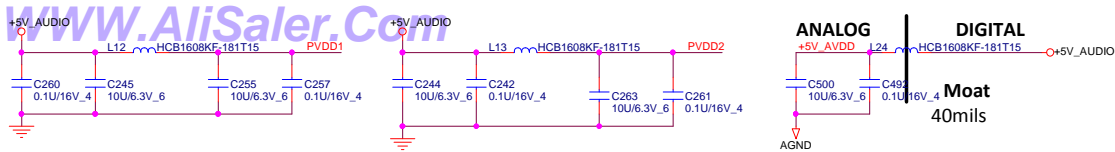
Mini-PCIE



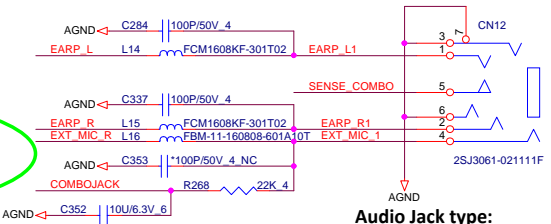
CPU BKT



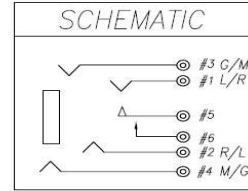
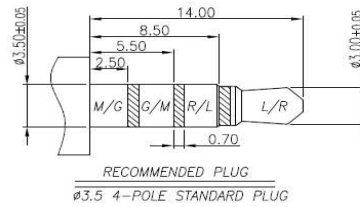
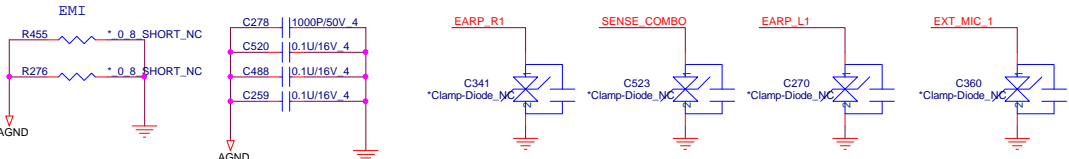
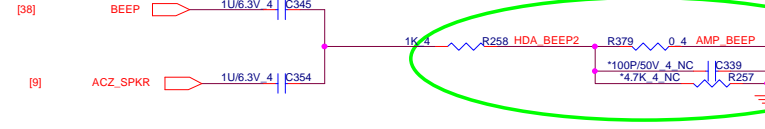
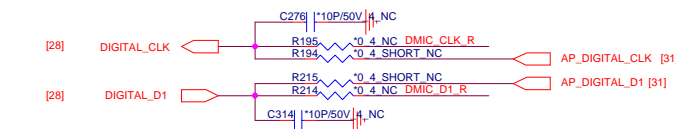
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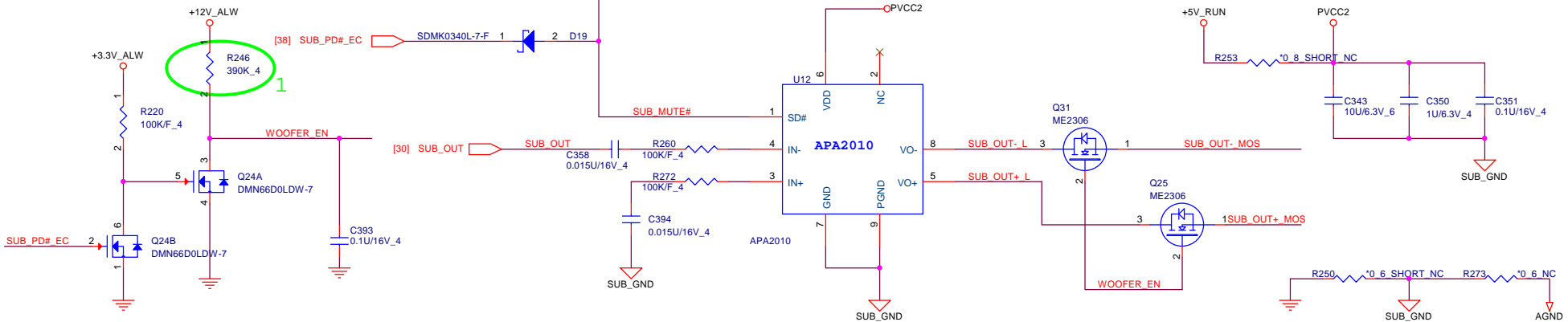
Audio Combo Jack



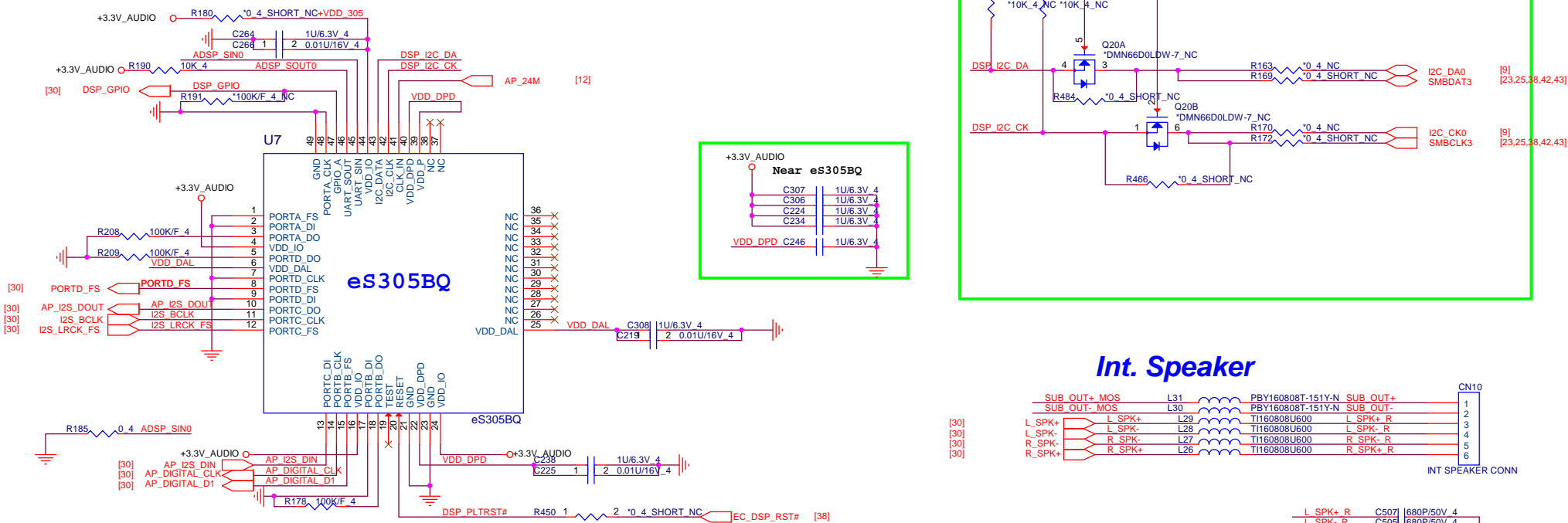
Audio Jack type:
Normal Open
Combo Jack(IPHONE)



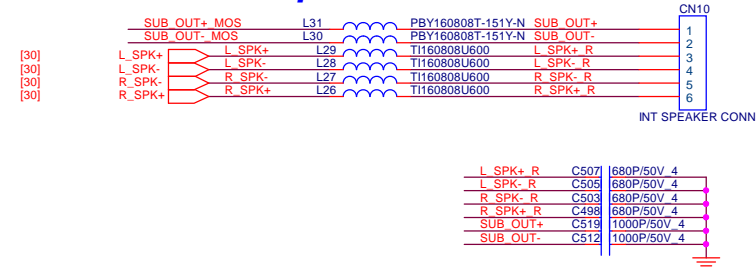
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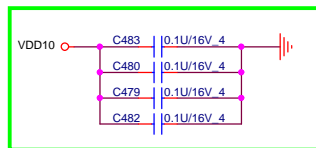


Audio Processor

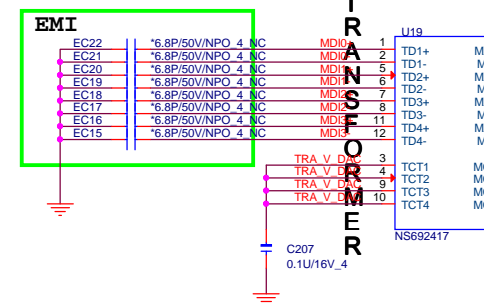
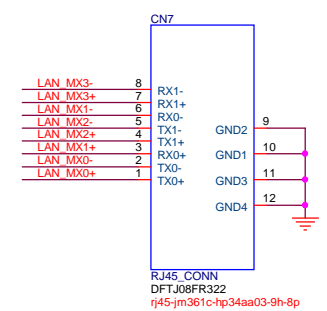
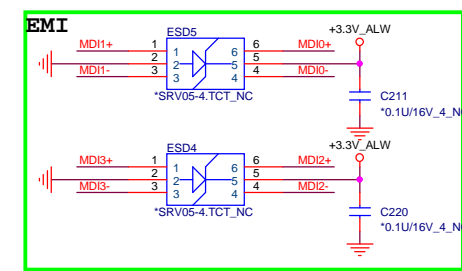
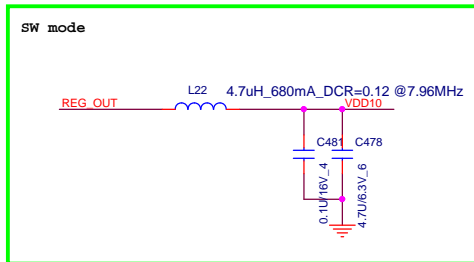
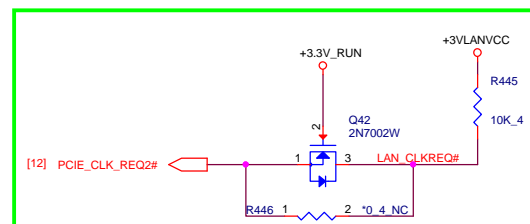
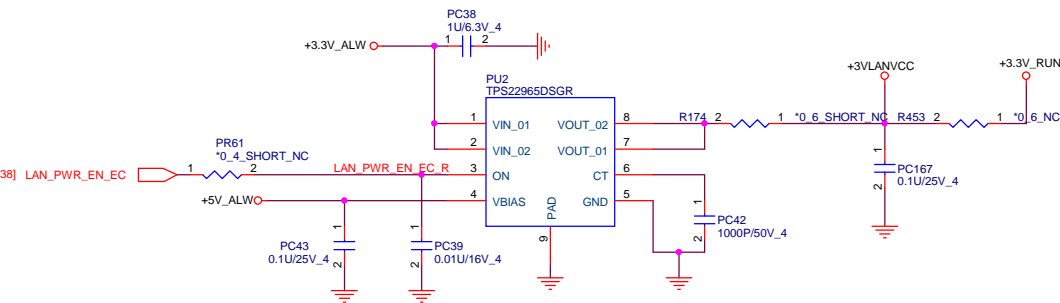
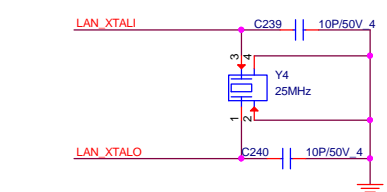
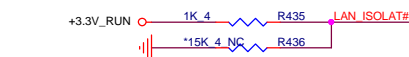
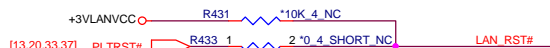
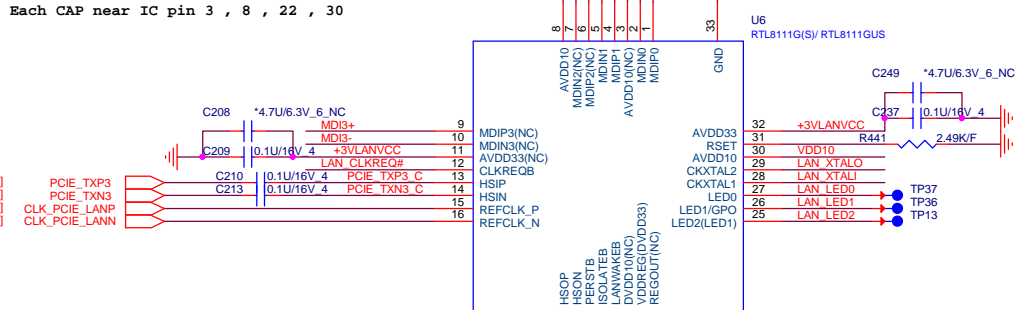


Int. Speaker





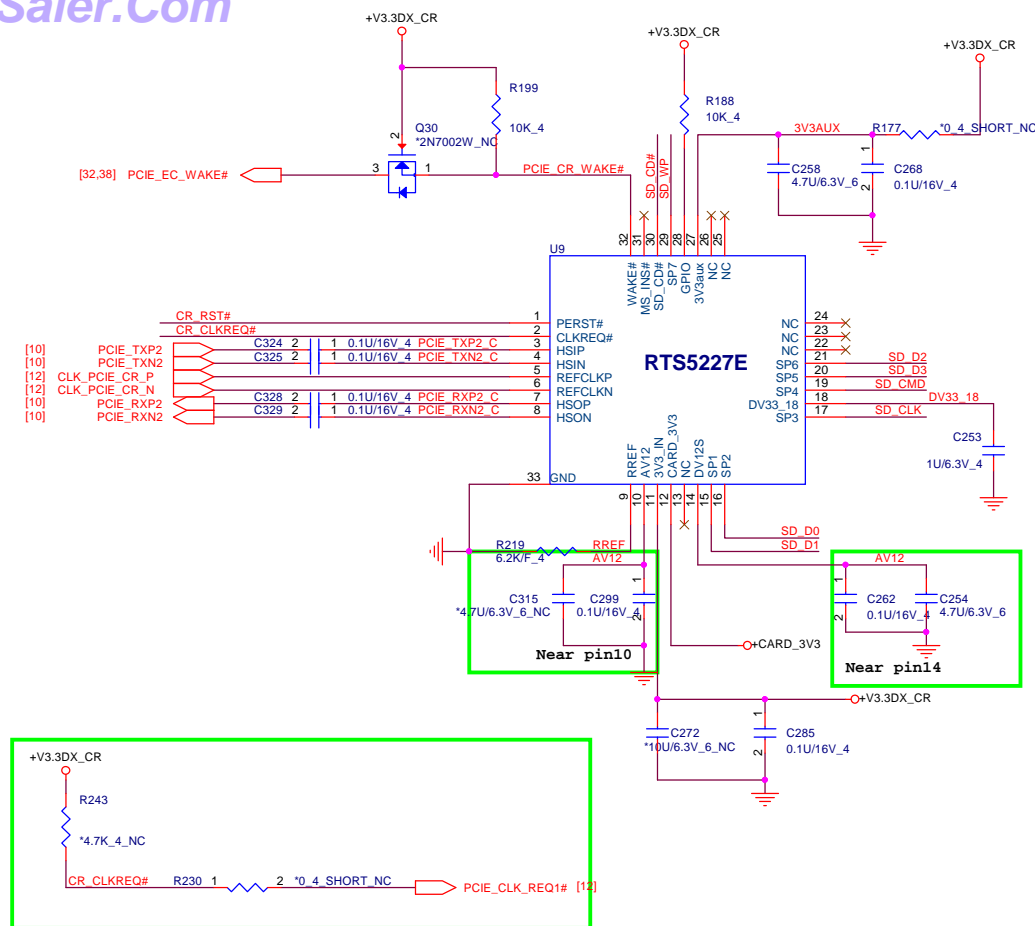
Each CAP near IC pin 3 , 8 , 22 , 30



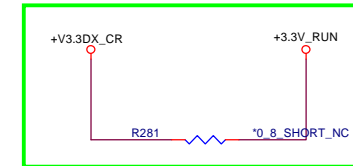
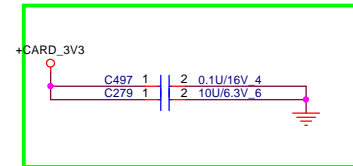
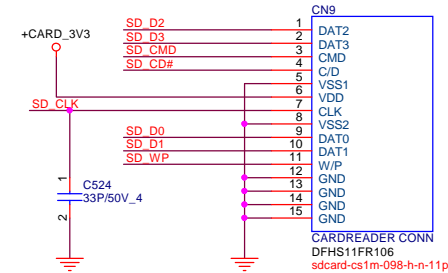
FCE: NS692417, DBOKL3LAN02
BOT: NA0069R LF, DBOKL3LAN01

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SD / MMC CARD READER



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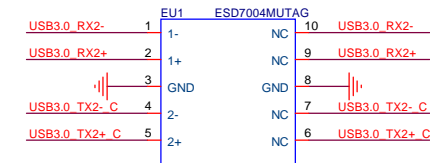
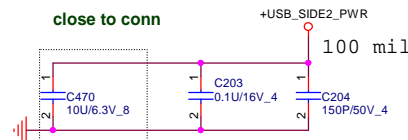
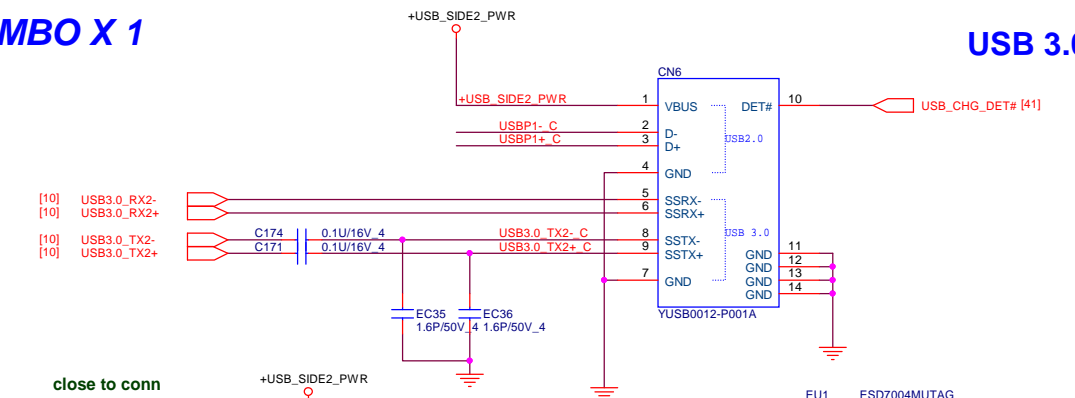
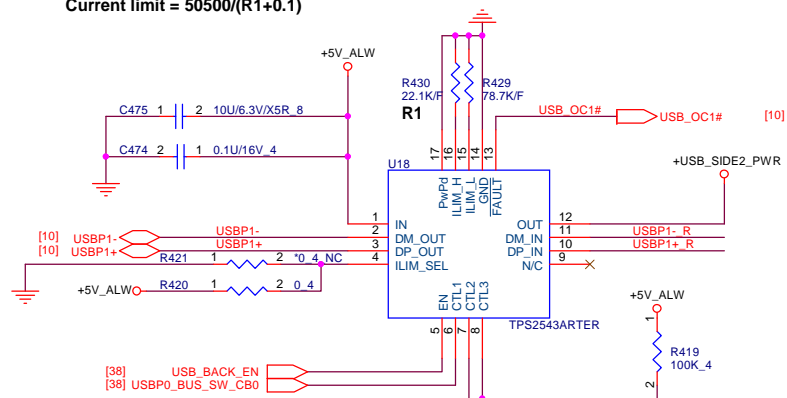
Card Reader RTSS5179

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USB 3.0

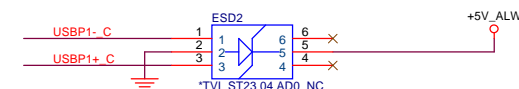
	R1	mA
OC limitation	100k ohm	504
	22.1k ohm	2274

Applied Now

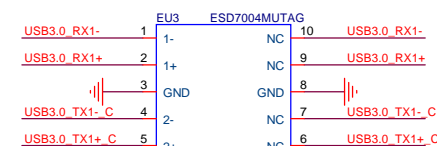
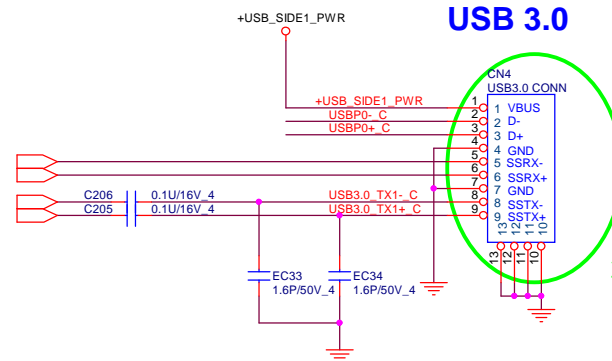
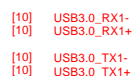
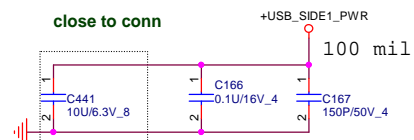
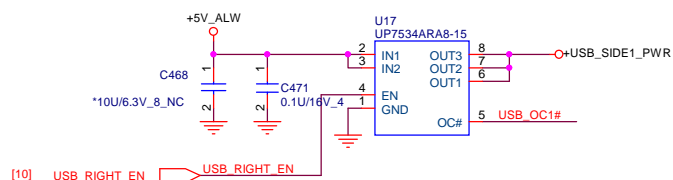


ESD Function

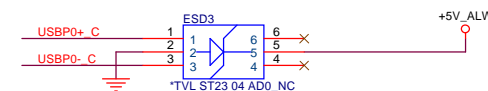
Place ESD diodes as close as USB connector.

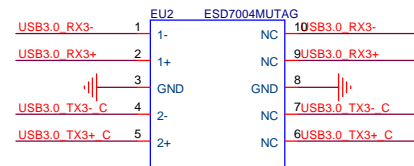
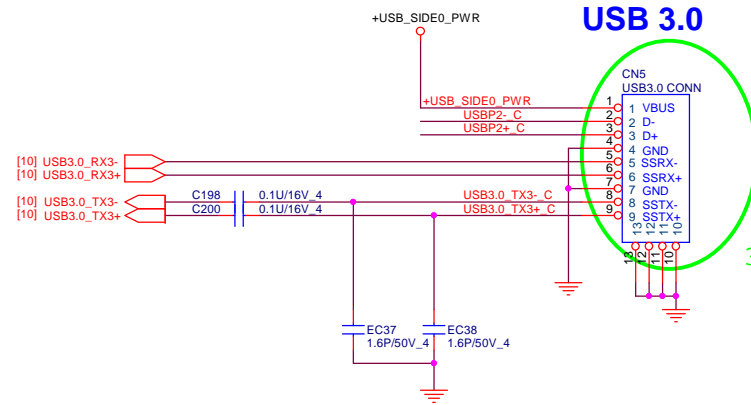
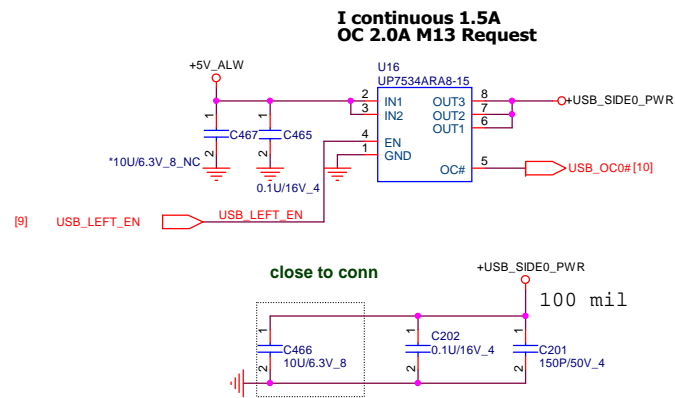


**I continuous 1.5A
OC 2.0A M13 Request**



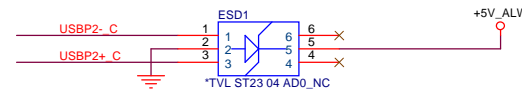
Place ESD diodes as close as USB connector.





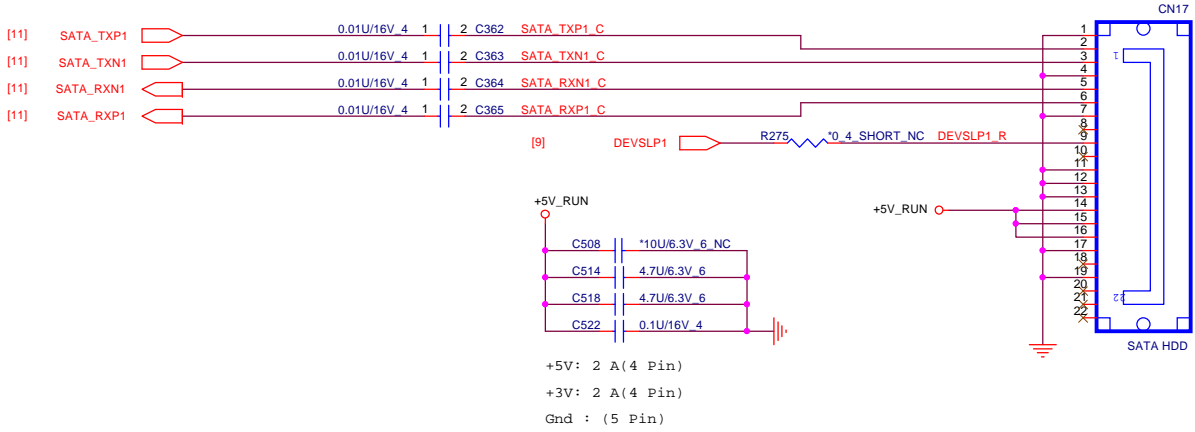
ESD Function

Place ESD diodes as close as USB connector.

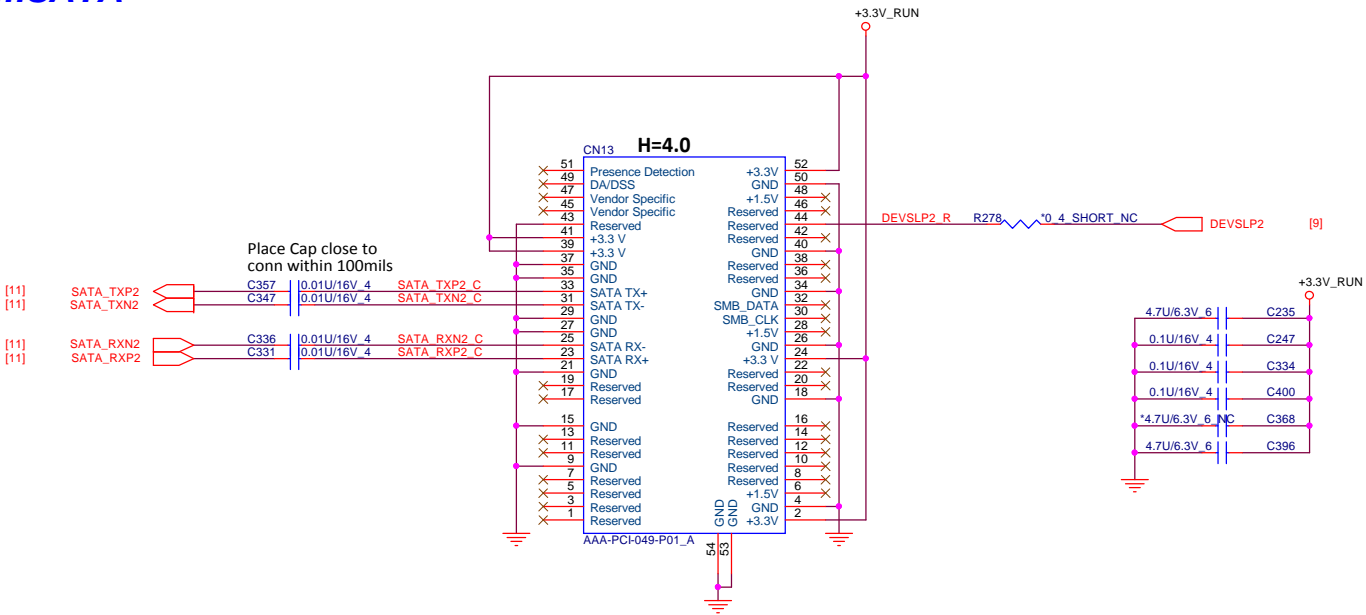


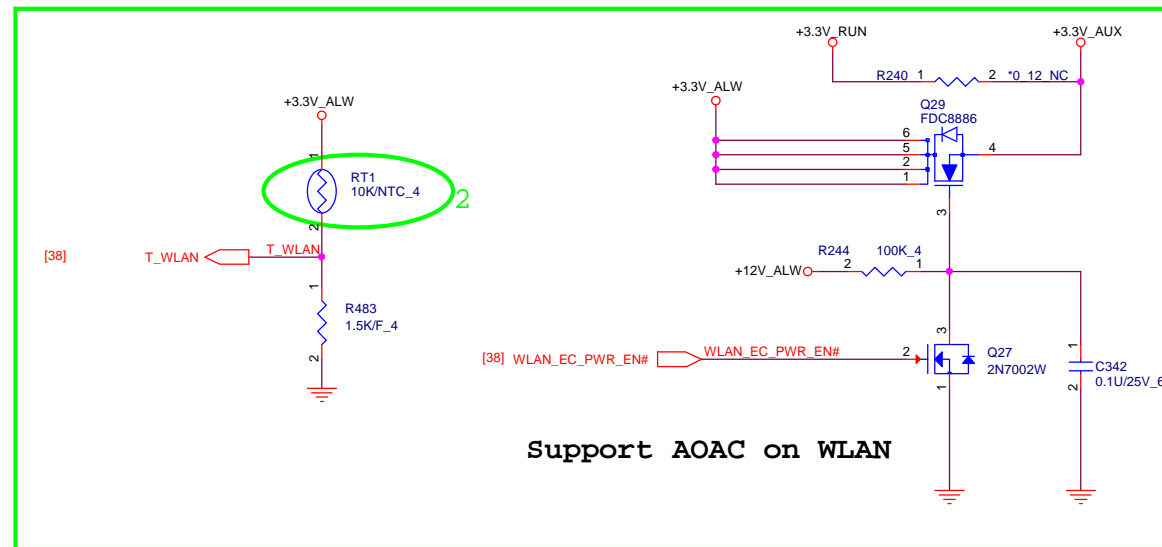
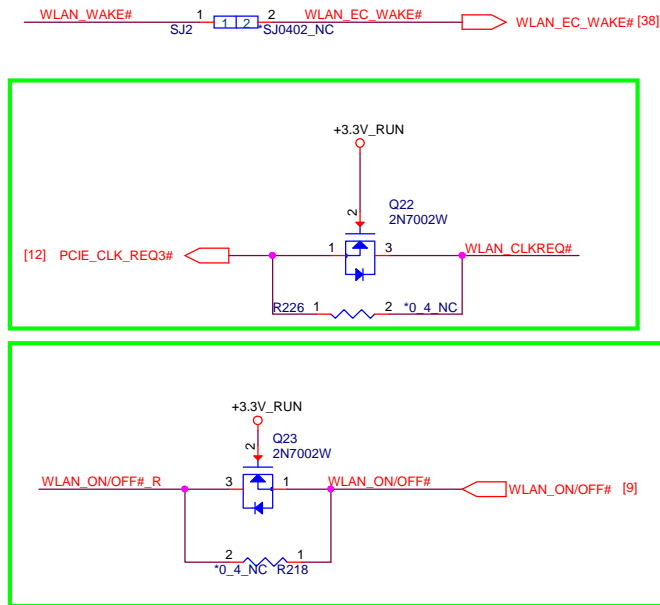
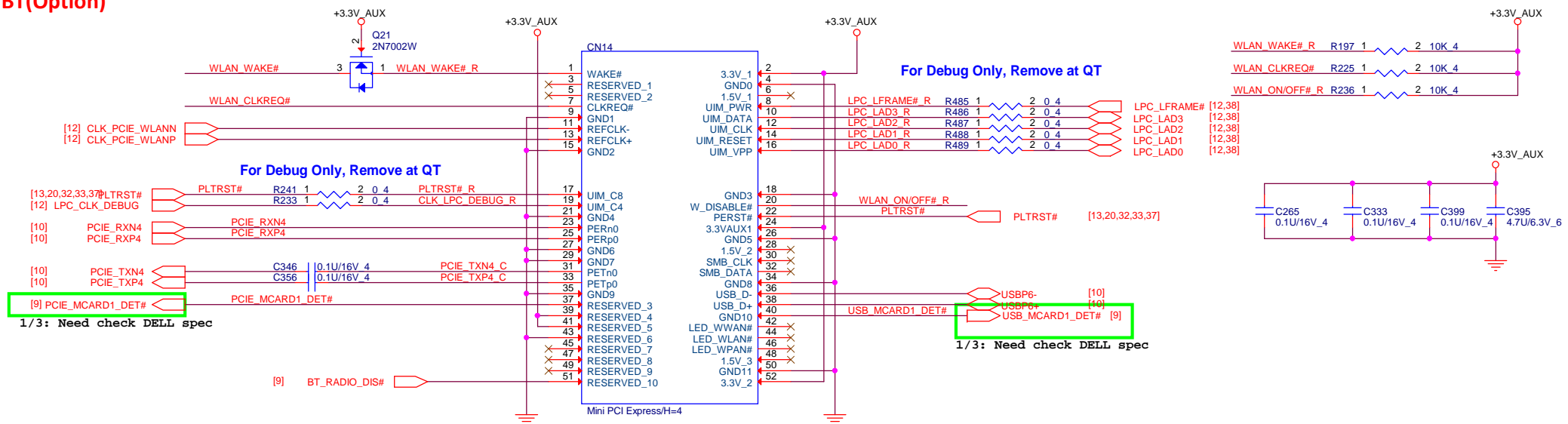
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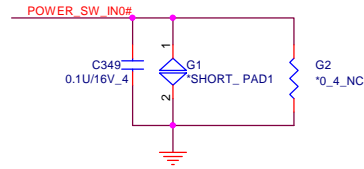
mSATA





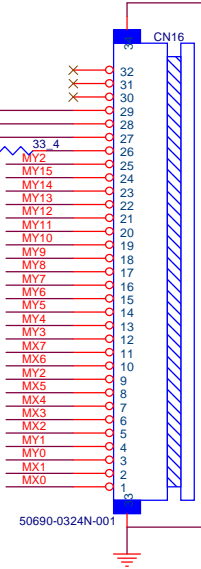


[38] MY[0..15] MY[0..15]
[38] MX[0..7] MX[0..7]



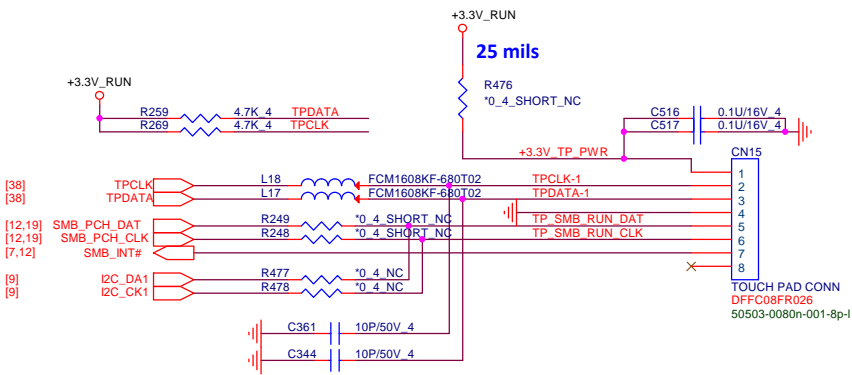
[41,45] POWER_SW_IN0#

+3.3V_RUN



MY1	C389	220P/50V_4
MY2	C384	220P/50V_4
MY4	C380	220P/50V_4
MY0	C390	220P/50V_4
MX4	C386	220P/50V_4
MX6	C383	220P/50V_4
MX3	C387	220P/50V_4
MX2	C388	220P/50V_4
MY5	C379	220P/50V_4
MY6	C378	220P/50V_4
MY3	C381	220P/50V_4
MY7	C377	220P/50V_4
MY8	C376	220P/50V_4
MY9	C375	220P/50V_4
MY10	C374	220P/50V_4
MY11	C373	220P/50V_4
MX7	C382	220P/50V_4
MX0	C392	220P/50V_4
MX5	C385	220P/50V_4
MX1	C391	220P/50V_4
MY12	C372	220P/50V_4
MY13	C371	220P/50V_4
MY14	C370	220P/50V_4
MY15	C369	220P/50V_4

Touch Pad Connector

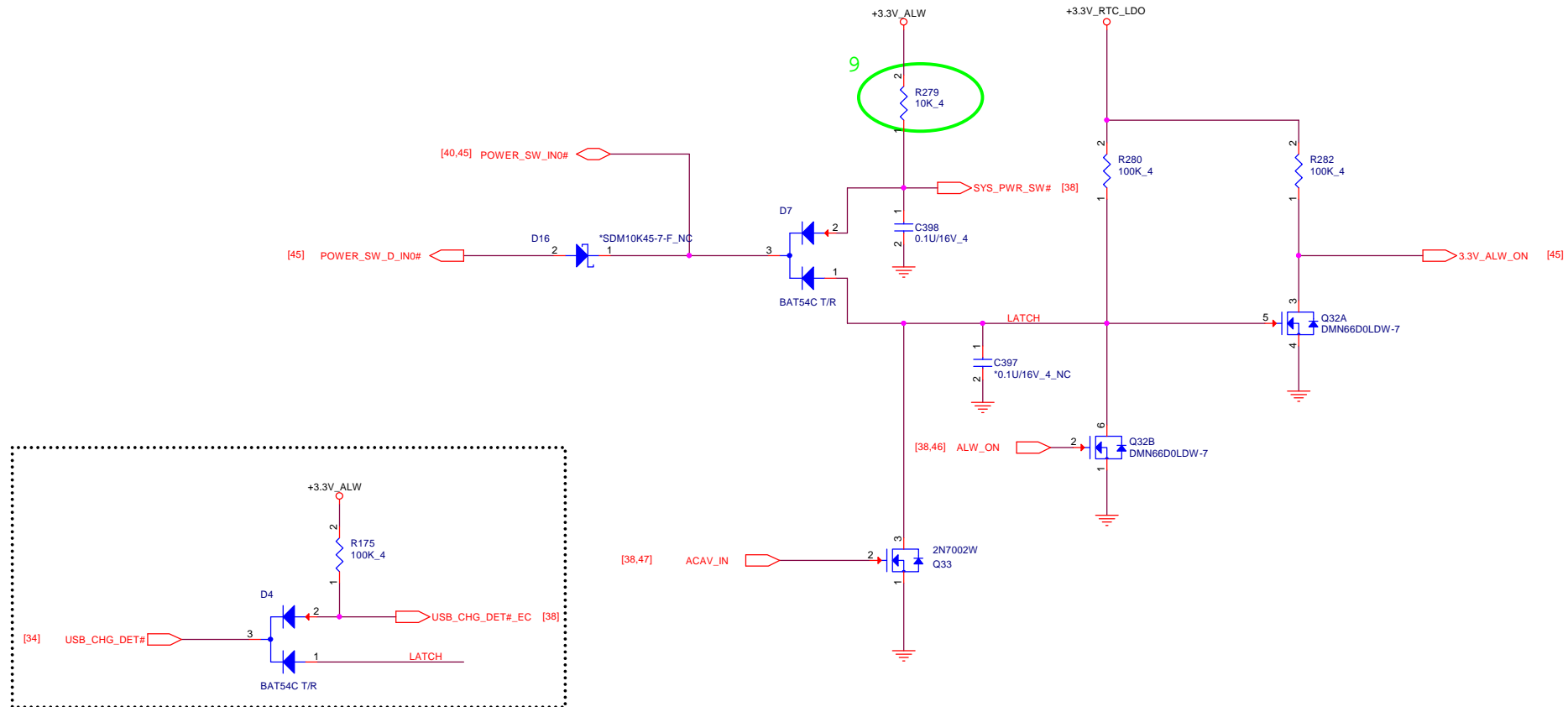


Quanta Computer Inc.

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	KB/CLK Gen/FAN/TP	A
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3VALW ON POWER LOGIC



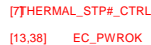
Quanta Computer Inc.

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	3VALW ON POWER LOGIC	A
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Need closed to CPU



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Size

Document Number	
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FAN & THERMAL

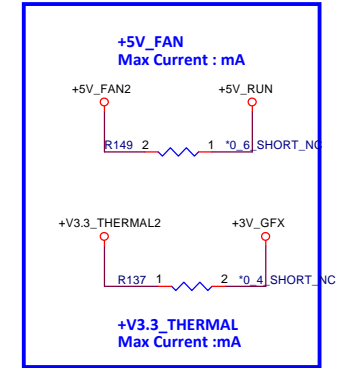
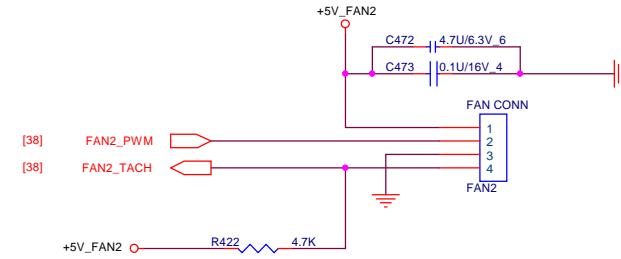
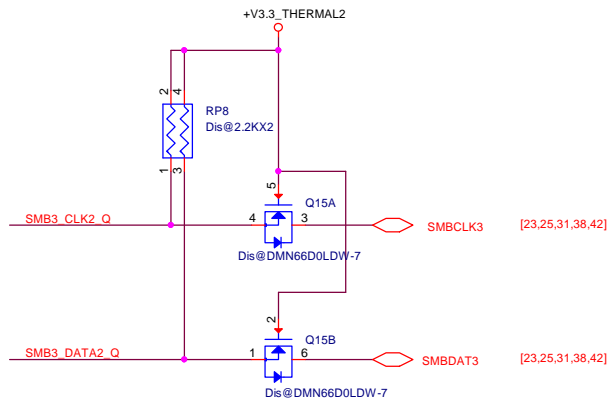
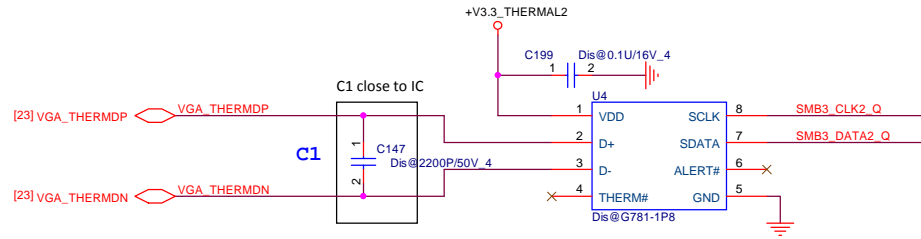
Date: Wednesday, July 17, 2013

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For GPU use

FAN CONN

G781-1P8
SMBus address is 1001101xb (9Ah) (x is R/W bit).



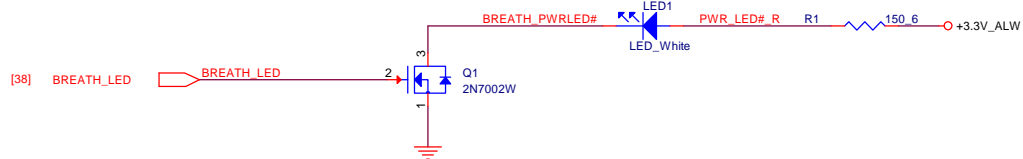
Quanta Computer Inc.

PROJECT : JW8B

Thermal GPU

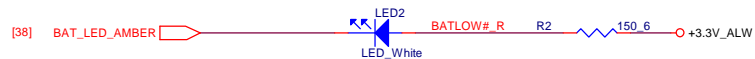
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		A
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LED Status

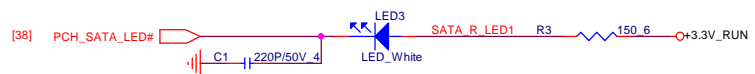


System status LED

Battrey charger LED



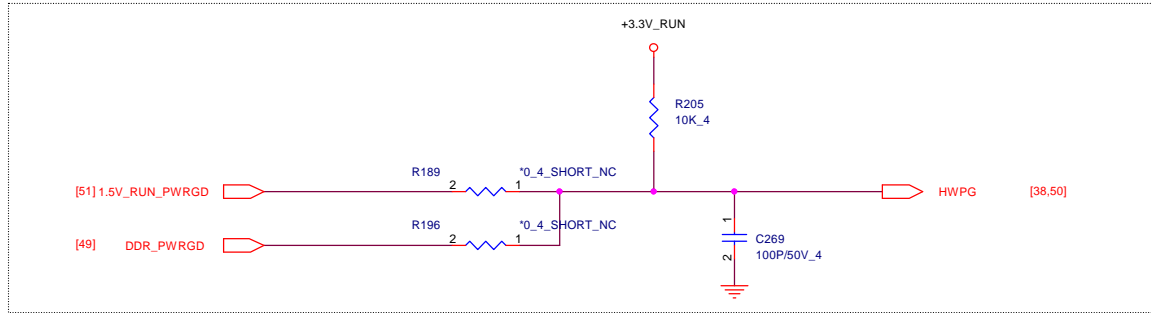
HDD access LED



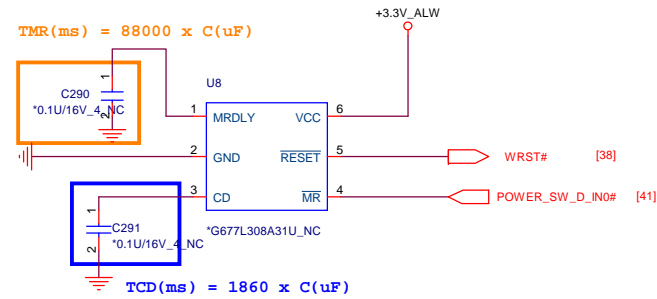
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	LED	A
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HW reset IC



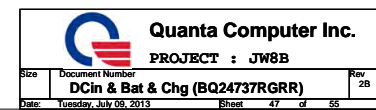
Quanta Computer Inc.


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System Reset Circuit

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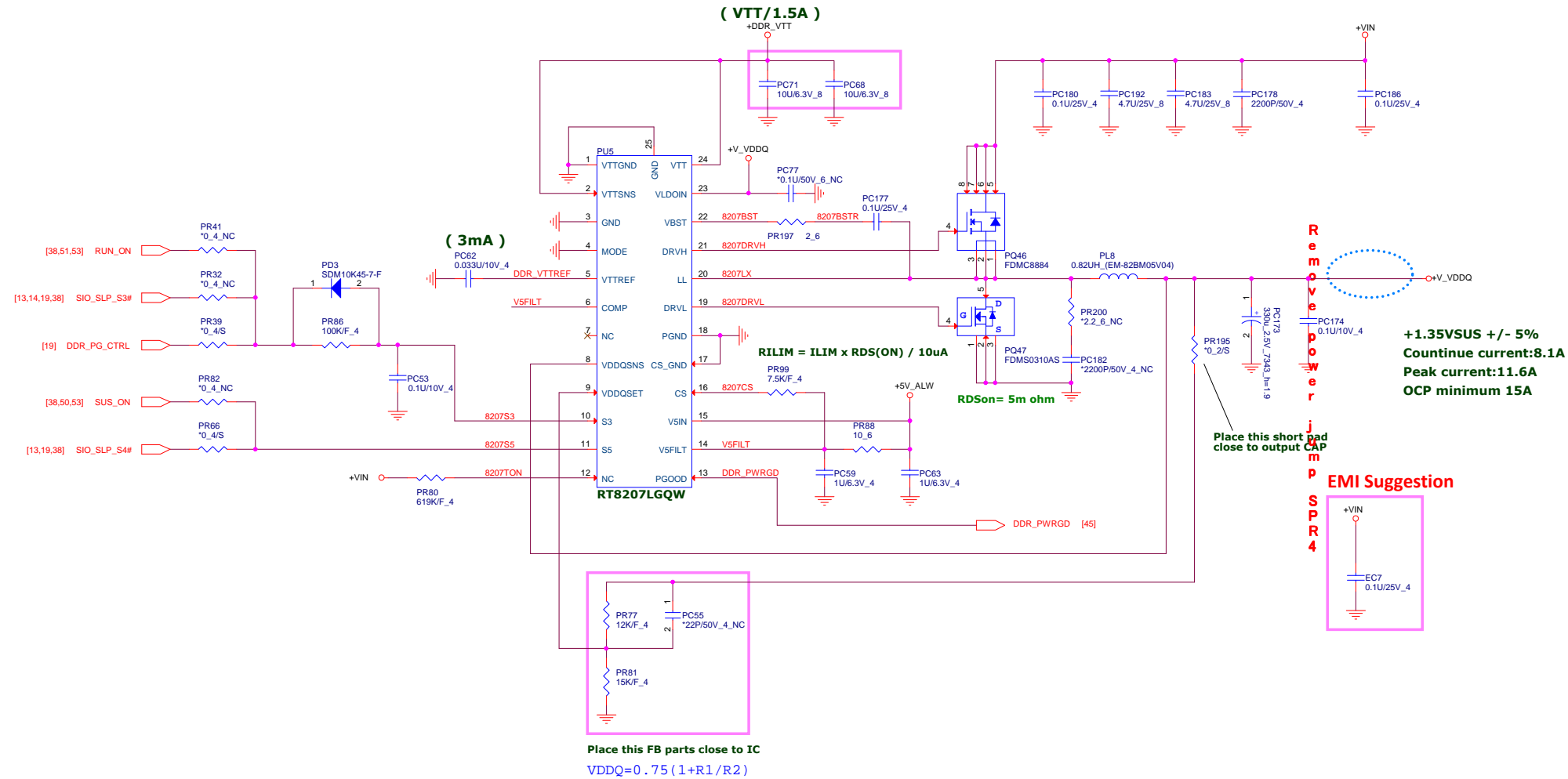


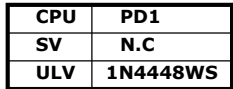


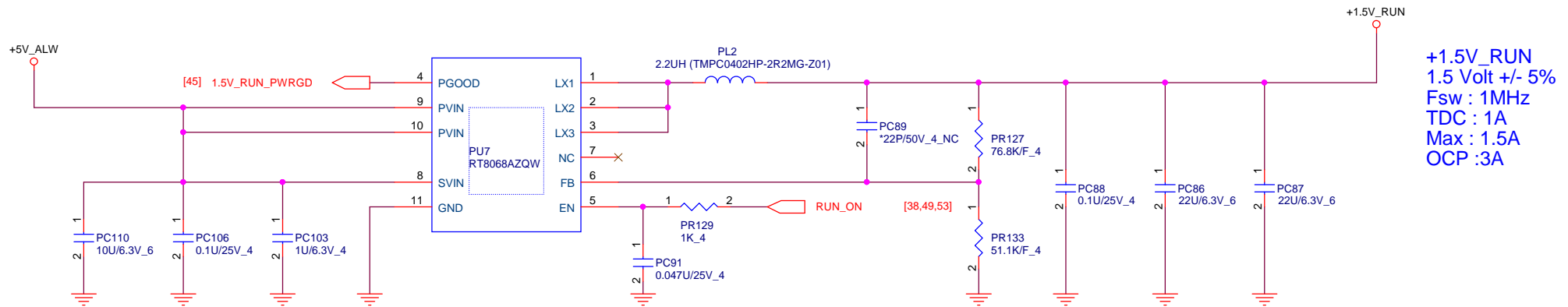
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	NC	A
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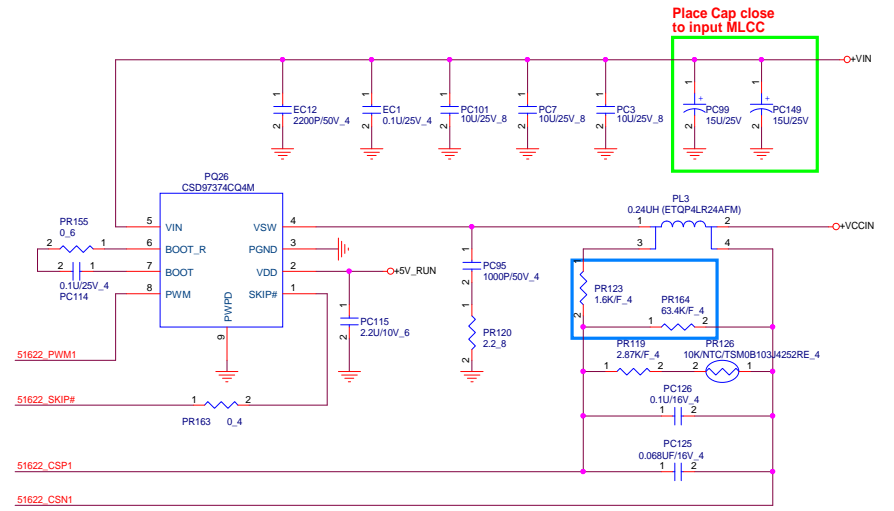
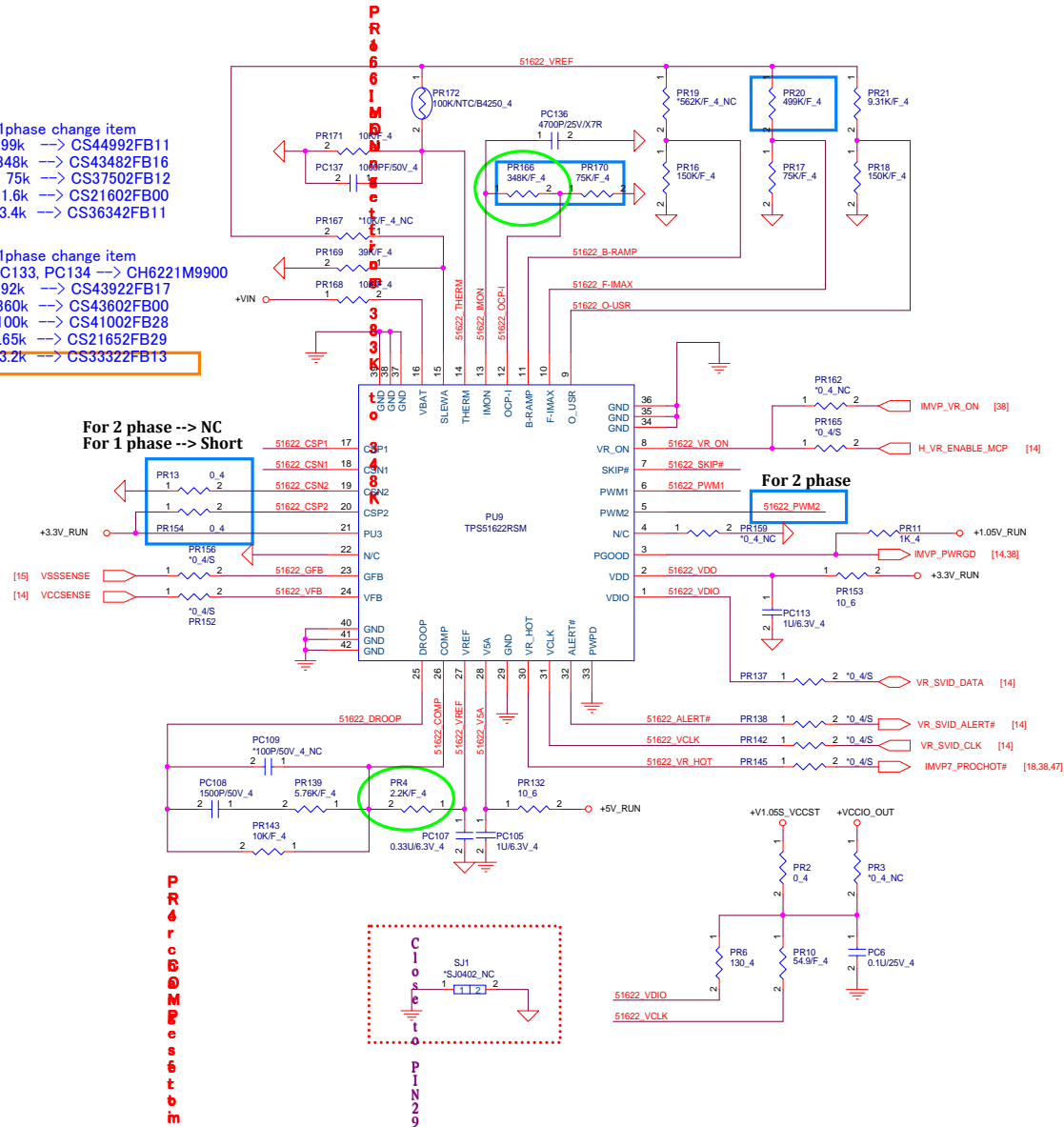




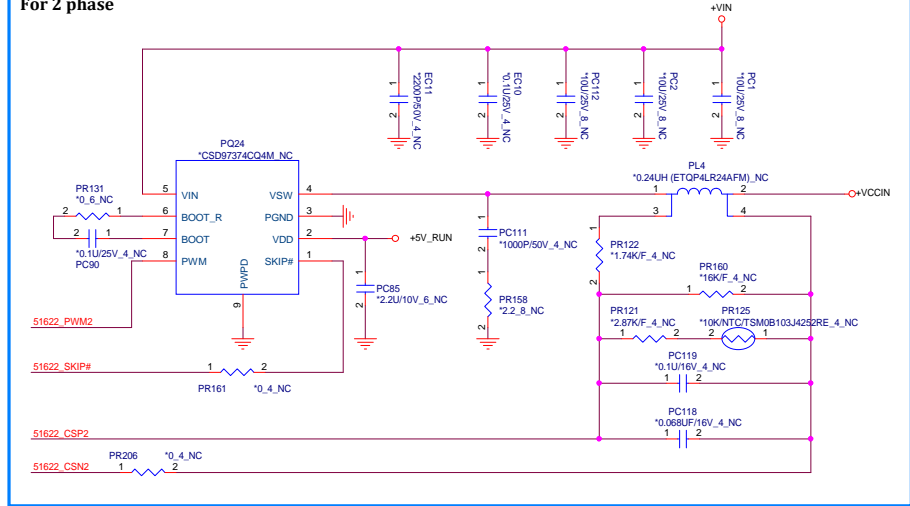
For 15W 1phase change item
 PR20 499k → CS44992FB11
 PR166 348k → CS43482FB16
 PR170 75k → CS37502FB12
 PR123 1.6k → CS21602FB00
 PR164 63.4k → CS36342FB11

For 28W 1phase change item
 PC132, PC133, PC134 → CH6221M9900
 PR20 392k → CS43922FB17
 PR166 360k → CS43602FB00
 PR170 100k → CS41002FB28
 PR123 1.65k → CS21652FB29
 PR164 33.2k → CS33322FB13

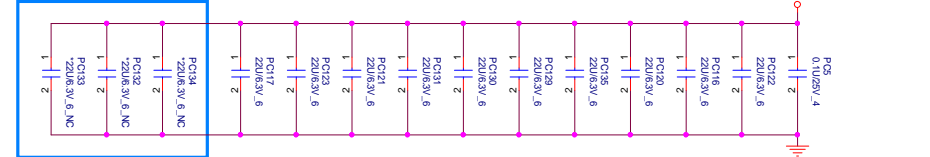
For 2 phase → NC
 For 1 phase → Short

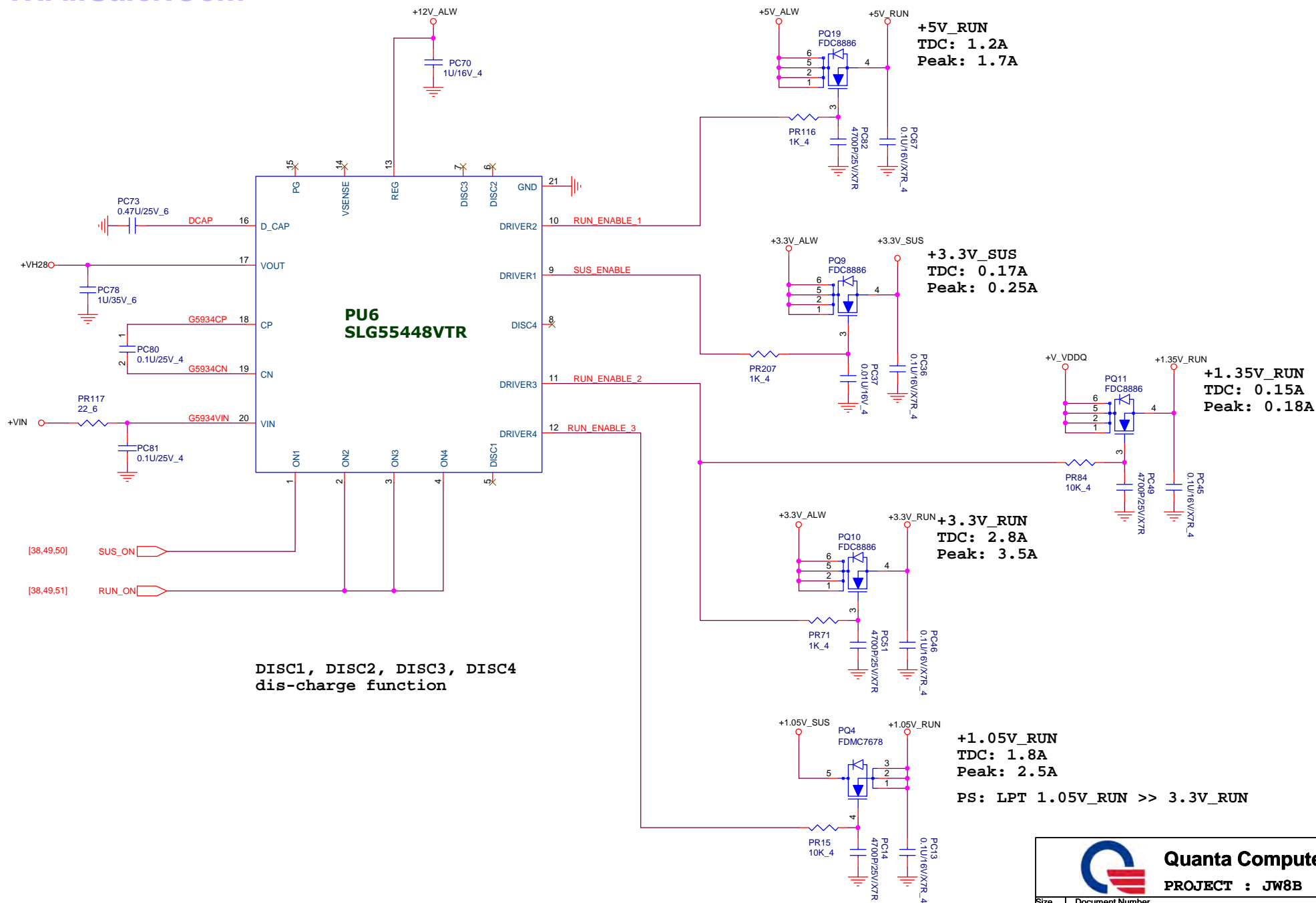


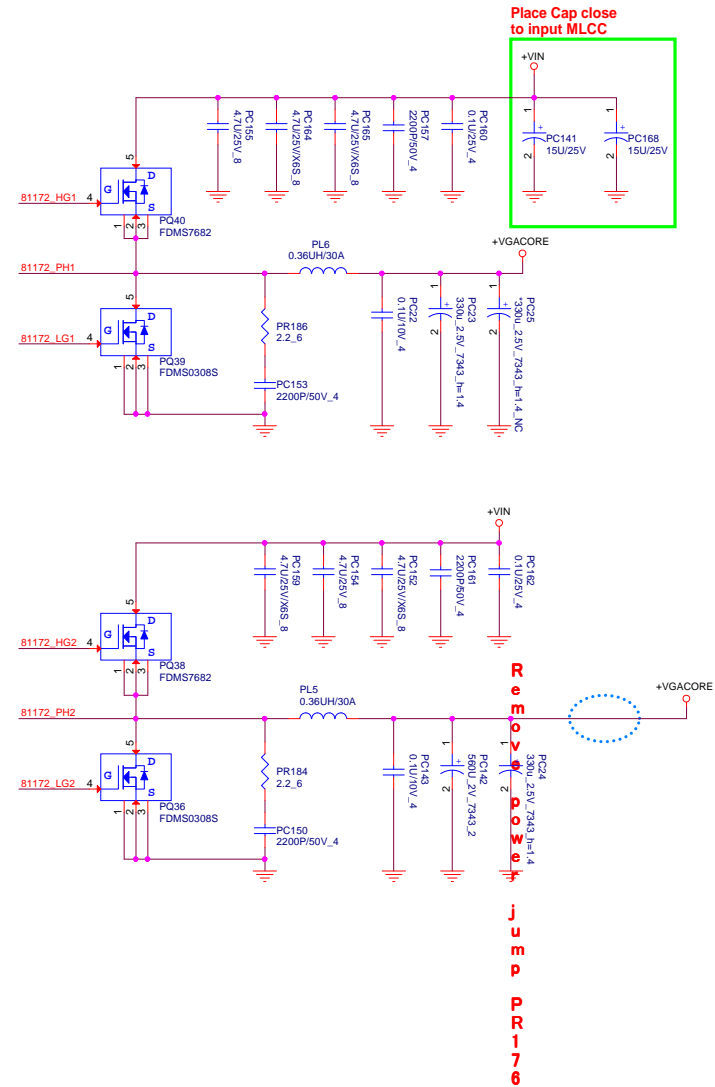
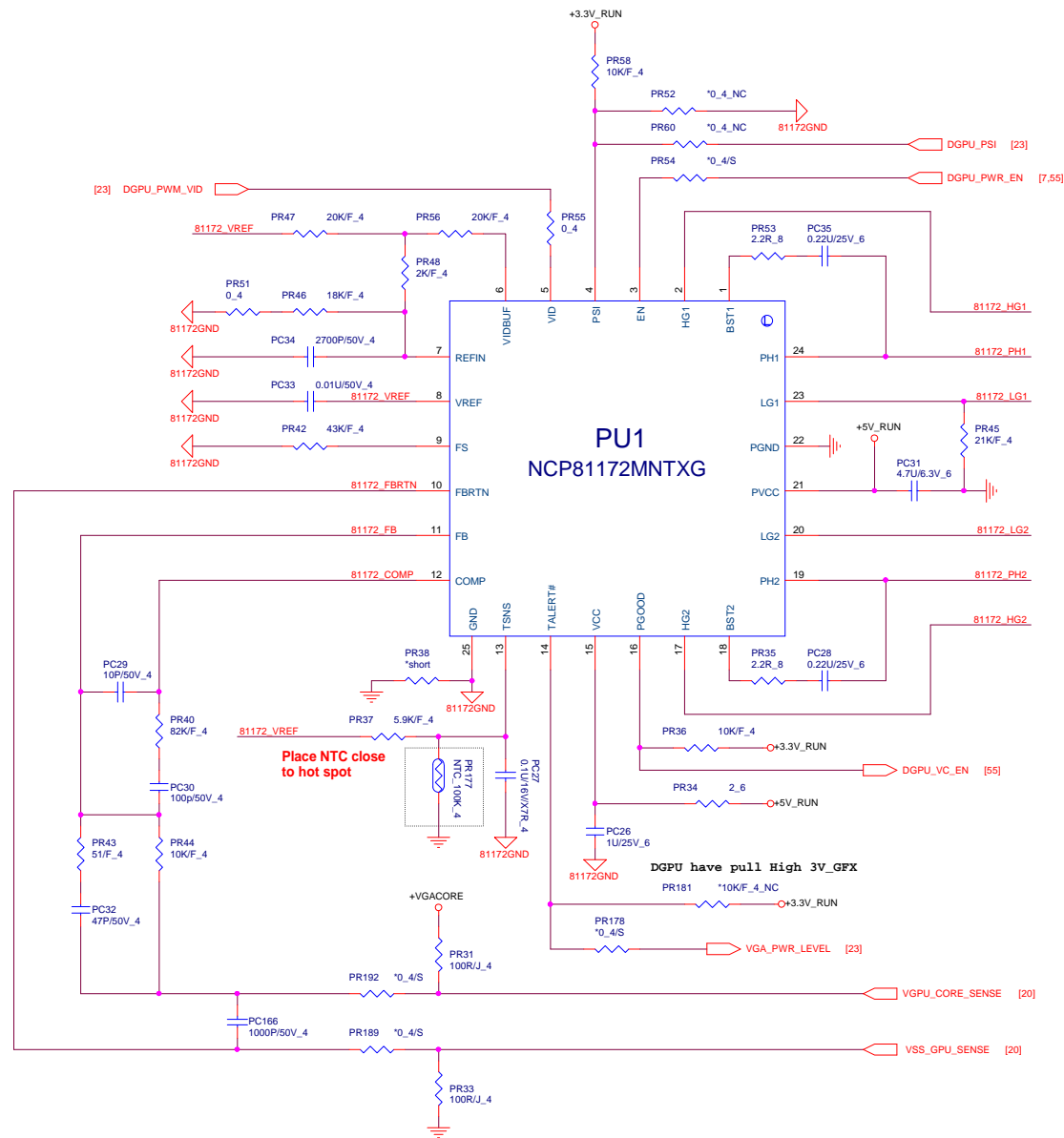
For 2 phase



For ULT 28W







+1.05V +/- 3%
Countinue current:1.4A
Peak current:2A

