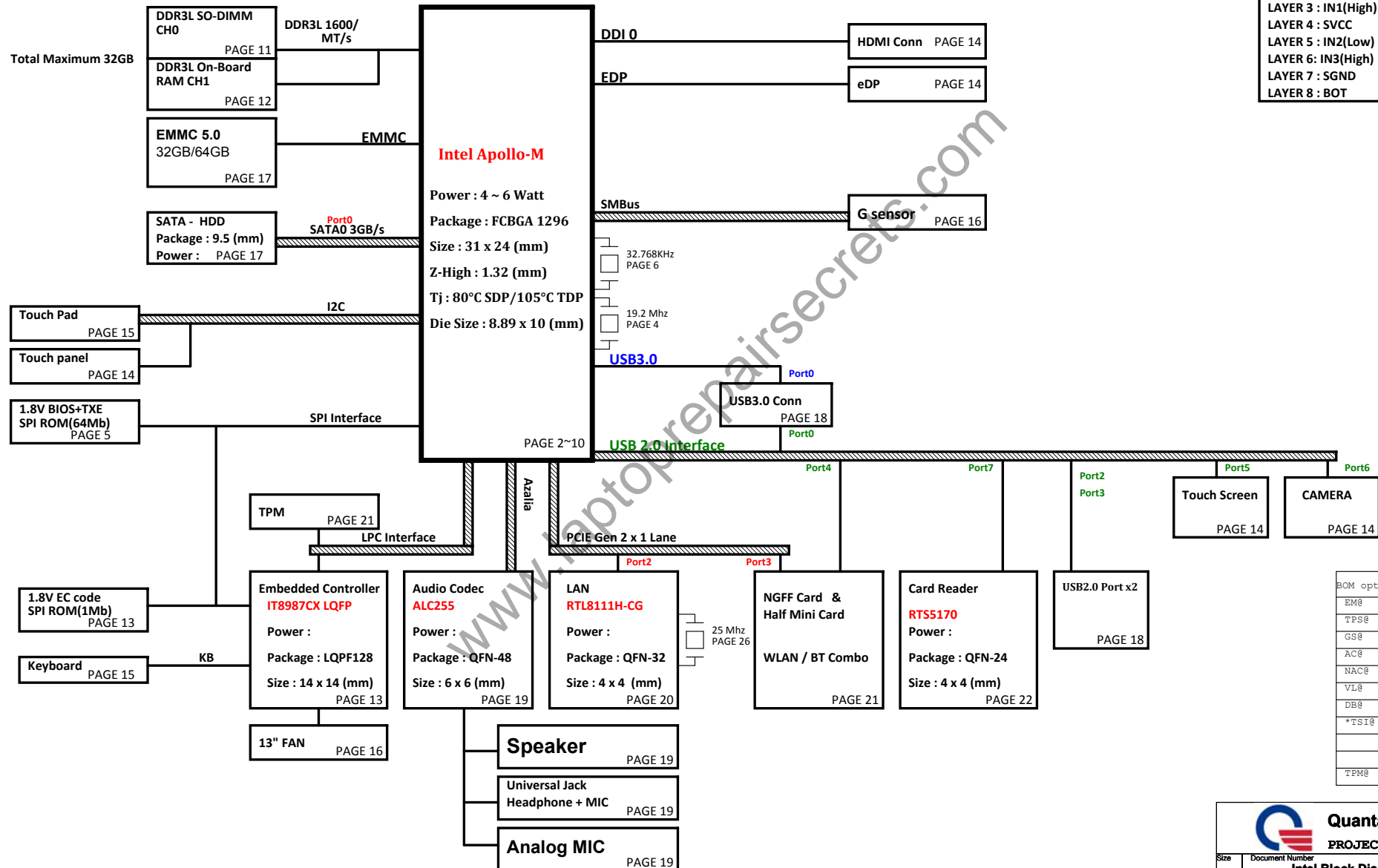


Intel Apollo Platform Block Diagram

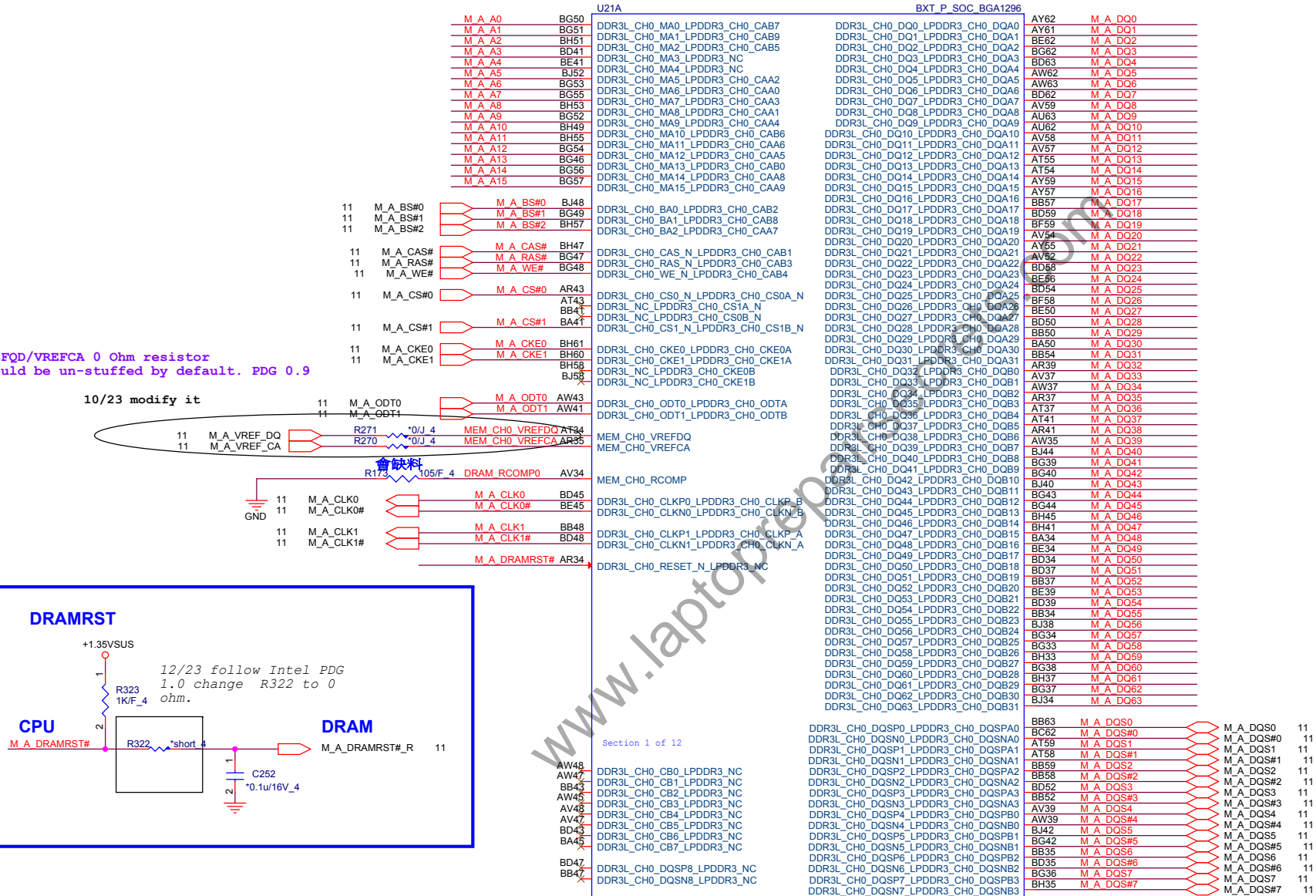
PCB 8L STACK UP

LAYER 1 : TOP
LAYER 2 : SGND
LAYER 3 : IN1(High)
LAYER 4 : SVCC
LAYER 5 : IN2(Low)
LAYER 6: IN3(High)
LAYER 7 : SGND
LAYER 8 : BOT



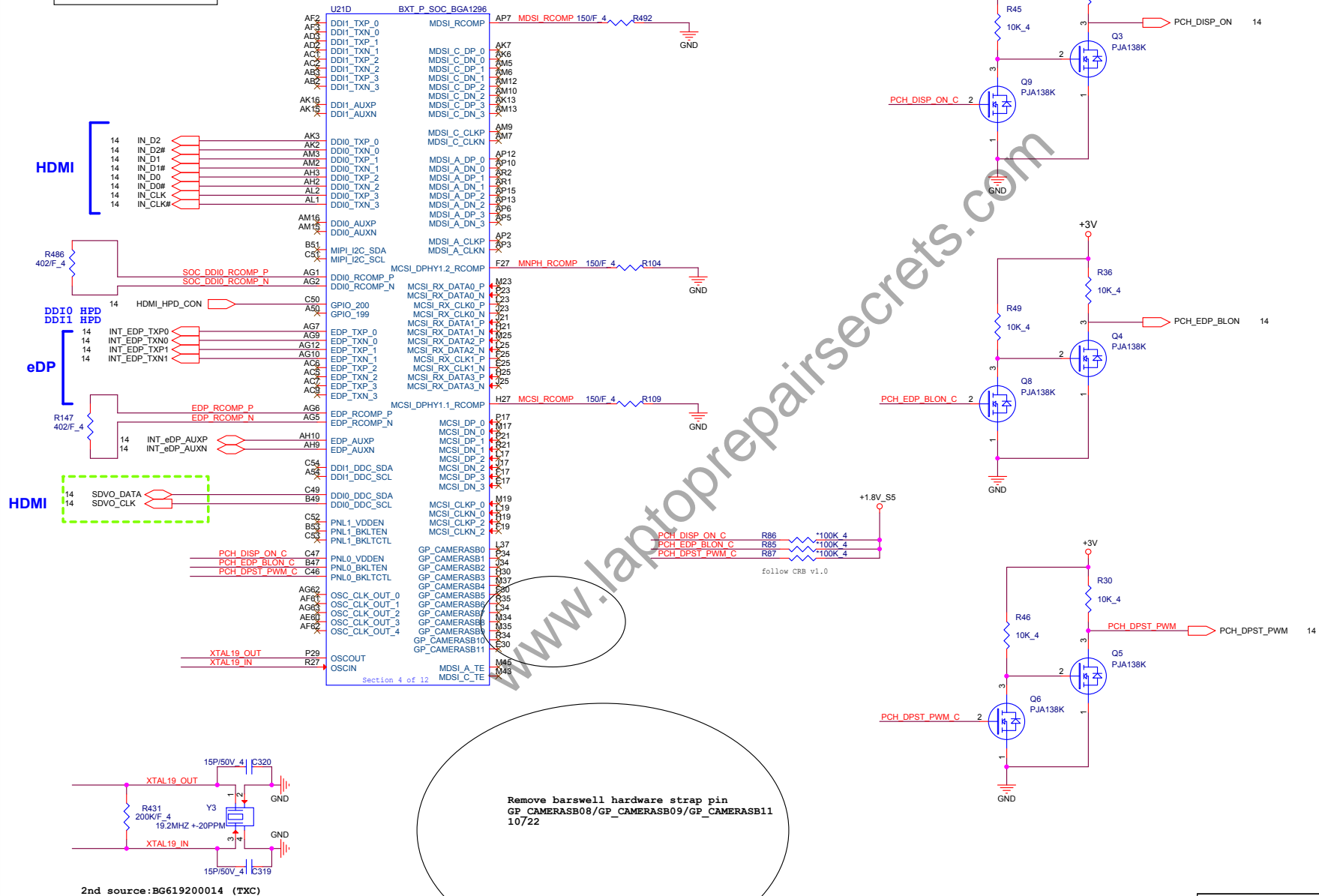
+1.35VSUS 3,9,11,12,28

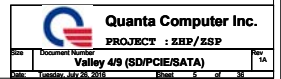
M_A_A[15:0] M_A_A[15:0] 11
M_A_DQ[63:0] M_A_DQ[63:0] 11



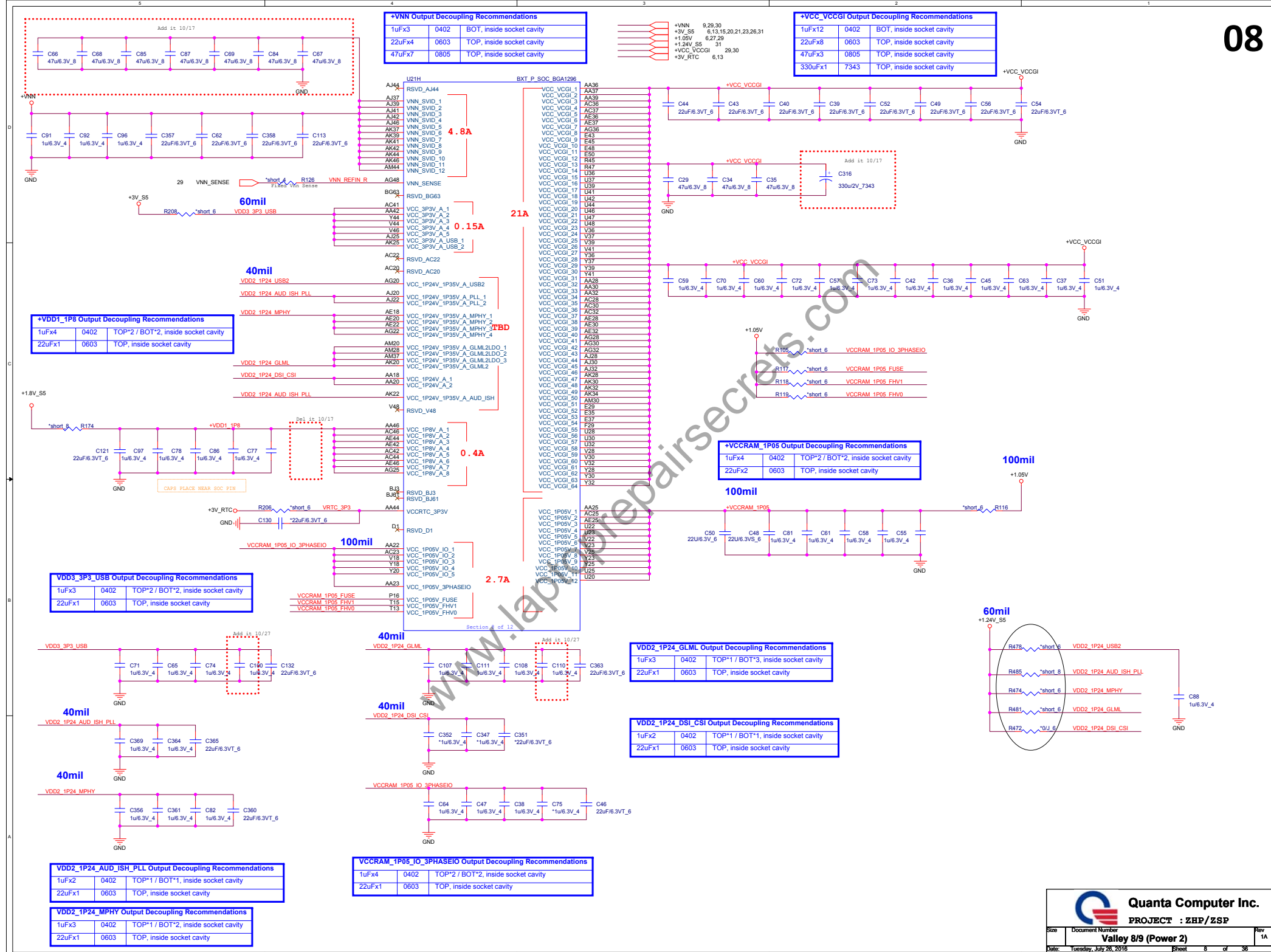
Configuration	Speed (MT/s)	Channels	Raw Card	Maximum Total Capacity (GB)
SODIMM	3333/1600/1867	2	A (2Rx16) C (1Rx16) B (1Rx8) F (2Rx8)	32

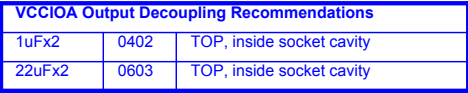
ZHP CPU P/N A-stage
AJ0QKG2VT00 defalut
AJ0QKG3VT00
AJ0QKG4VT00







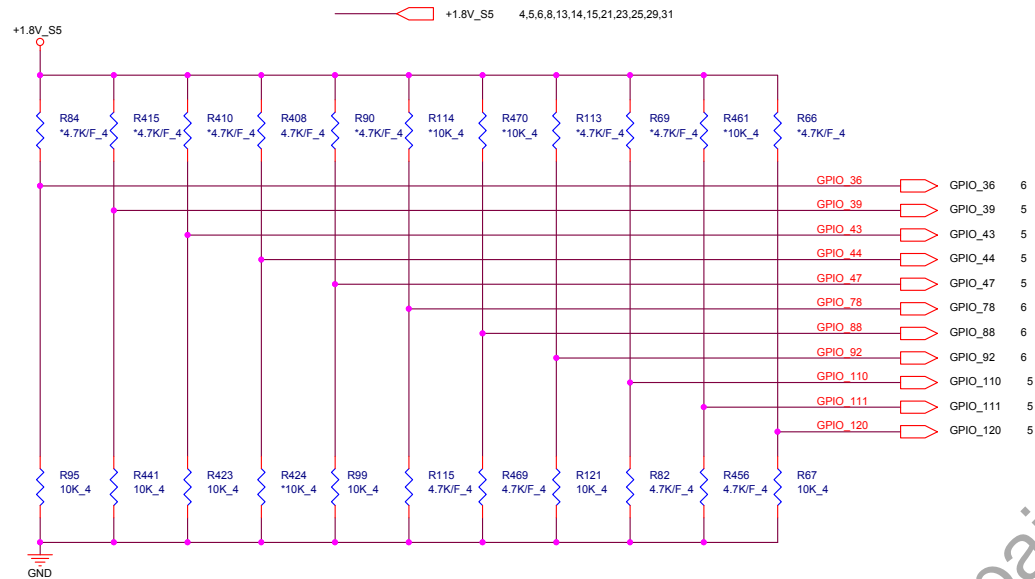




+VCCDDQ Output Decoupling Recommendations		
1uFx2	0402	BOT, inside socket cavity
22uFx8	0603	TOP, inside socket cavity

VCCIOA Output Decoupling Recommendations		
1uFx2	0402	TOP, inside socket cavity
22uFx2	0603	TOP, inside socket cavity

	U21G	BXT P SOC BGA1296	
B13			M12
C13	NCTF_B13	NCTF_M12	C15
L16	NCTF_C13	NCTF_C15	C16
M16	NCTF_L16	NCTF_F16	J16
E23	NCTF_M16	NCTF_J16	D16
F23	NCTF_E23	NCTF_D8	E16
R26	NCTF_F23	NCTF_E8	H16
AB49	NCTF_R26	NCTF_H16	C9
AC13	NCTF_AB49	NCTF_C9	F9
AB13	NCTF_AC13	NCTF_F9	E10
AM59	NCTF_AB13	NCTF_E10	E10
AM58	NCTF_AM59	NCTF_E16	F14
	NCTF_AM58	NCTF_F14	F14
		NCTF_F12	F12
T51	NCTF_T51	NCTF_H10	H10
L14	NCTF_L14	NCTF_H14	H14
R19	NCTF_R19	NCTF_H12	H12
E6	NCTF_E6	NCTF_A14	A14
R17	NCTF_R17	NCTF_A14	C14
E3	NCTF_E3	NCTF_C14	C14
D4	NCTF_D4	NCTF_M39	M39
A60	NCTF_A60	NCTF_P39	P39
A61	NCTF_A60	NCTF_R39	R39
B12	NCTF_A61	NCTF_R37	R37
B61	NCTF_B12	NCTF_C2	C2
P27	NCTF_B61	NCTF_J29	J29
A3	NCTF_P27	NCTF_P25	P25
M10	NCTF_A3	NCTF_R30	R30
B15	NCTF_M10	NCTF_C63	C63
	NCTF_B15	NCTF_E63	E63
		NCTF_D2	D2
		NCTF_D2	AP57
		NCTF_AP57	

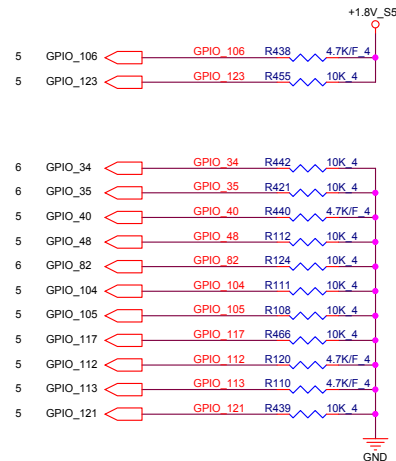


Hardware Strap	Strap Description
GPIO_36	VCC_1P24V_1P35V_A voltage select 0 = 1.24V 1 = 1.35V
GPIO_39	Enable CSE (TXE3.0) ROM Bypass 0 = Disable bypass 1 = Enable Bypass
GPIO_43	Allow eMMC as a boot source 0 = Disable 1 = Enable
GPIO_44	Allow SPI as a boot source 0 = Disable 1 = Enable
GPIO_47	Force DNX FW Load 0 = Do not force 1 = Force
GPIO_78	SMBus 1.8V/3.3V mode select 0=buffers set to 3.3V 1=buffers set to 1.8V
GPIO_88	PMU 1.8V/3.3V mode select 0=buffers set to 3.3V mode 1=buffers set to 1.8V mode
GPIO_92	SMBus No Re-Boot 0 = Disable (default) 1 = Enable
GPIO_110	LPC 1.8V/3.3V mode select 0=buffers set to 3.3V mode 1=buffers set to 1.8V mode
GPIO_111	Boot BIOS Strap 0 = Boot from SPI 1 = Do not boot from SPI
GPIO_120	Top swap override 0 = Disable 1 = Enable

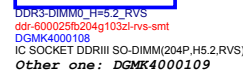
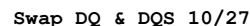
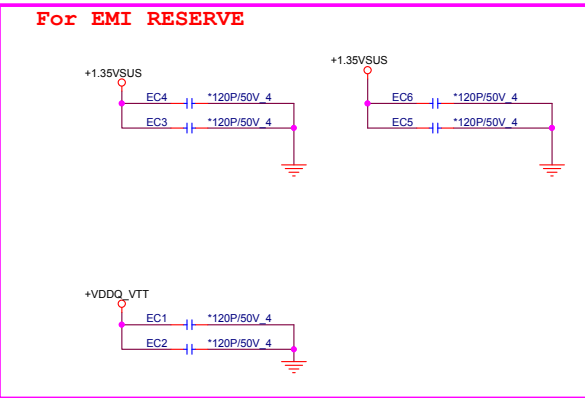
Note: This strap will only be used for B-step.
For A-step this rails should only be set at 1.24V

B Stage change to 3.3V

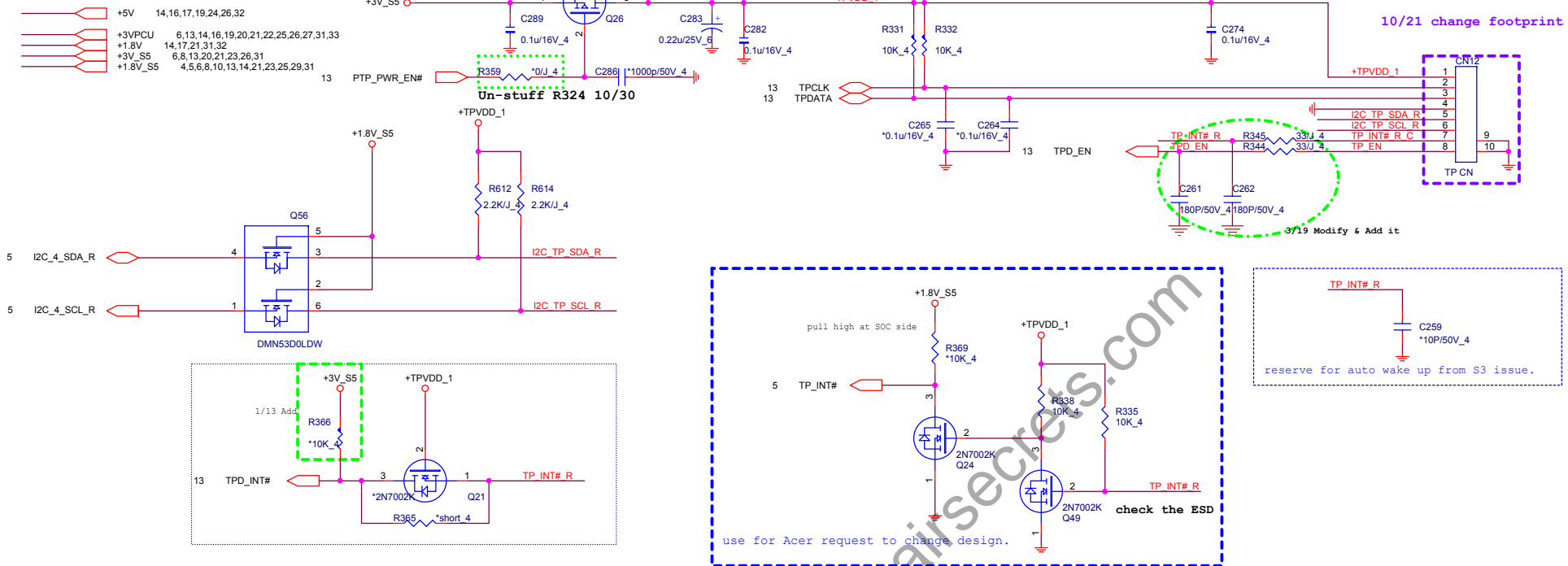
Hardware Strap to enable boot from SPI
If the platform design wants to have BIOS Boot form SPI then please ensure you have the following setting for hardware strap:
GPIO_43 = 0 [Disable eMMC boot]
GPIO_44 = 1 [Enable SPI Boot]
MoW_WW36



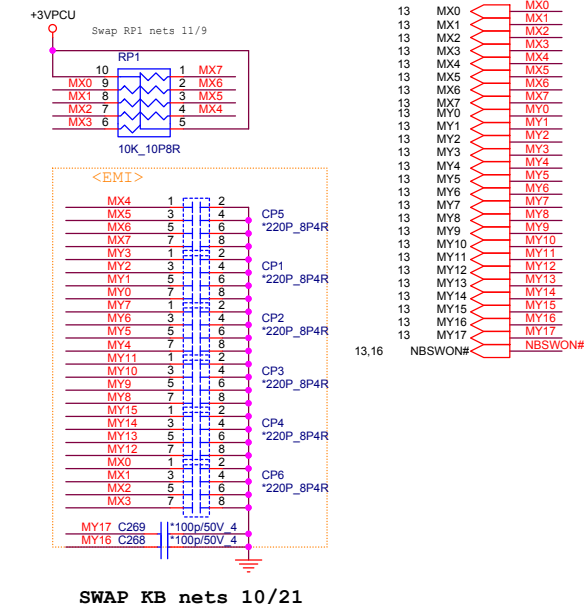
Please ensure that this strap is pulled LOW when RSM_RST_N de-asserts for normal platform operation.
GPIO_40/GPIO_48/GPIO_104/GPIO_105/GPIO_112/GPIO_113/GPIO_117/GPIO_121 PD
GPIO_106/GPIO_123 PU



TOUCHPAD BOARD CONN (TPD I2C/PS2 co-lay)



KEYBOARD (KBC)



Swap MX pin 10/19

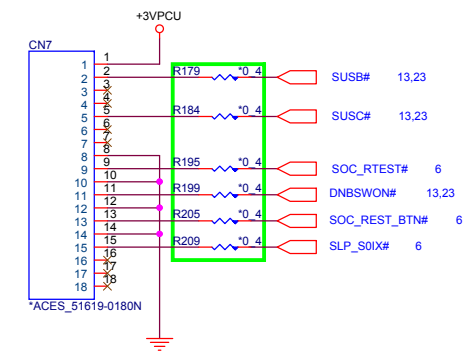
11&13"

10/13 change KB connector

KB_BL LED (KBC)

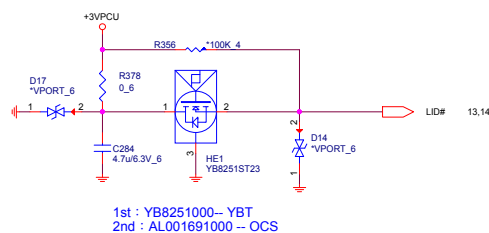
Del KB LED 10/19

Intel APS Fixture use



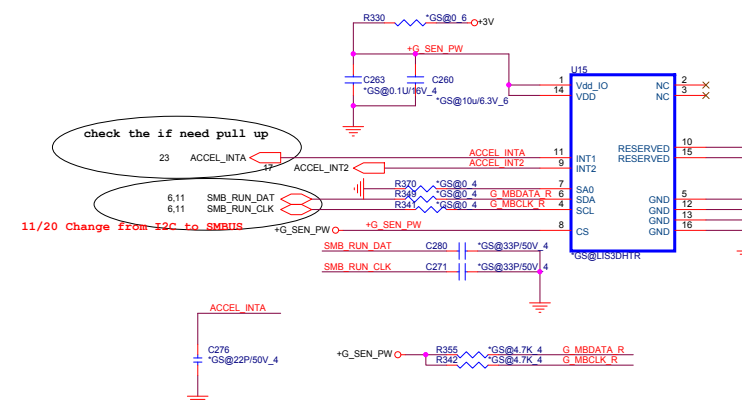
Quanta Computer Inc.

PROJECT : ZHP/ZSP

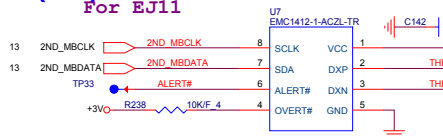


Modify 10/31

G-sensor(GRS)

CPU Thermal sensor(THS) / MB Local
TEMP (THM)

For EJ11

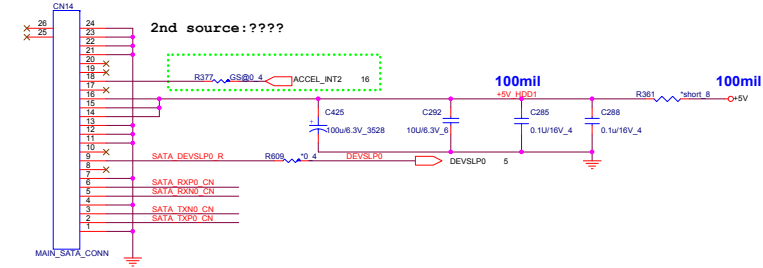


Main:AL001412003 EMC1412-1-ACZL-TR(98h)
2nd:AL000431014 TMP431ADGKR(98h)

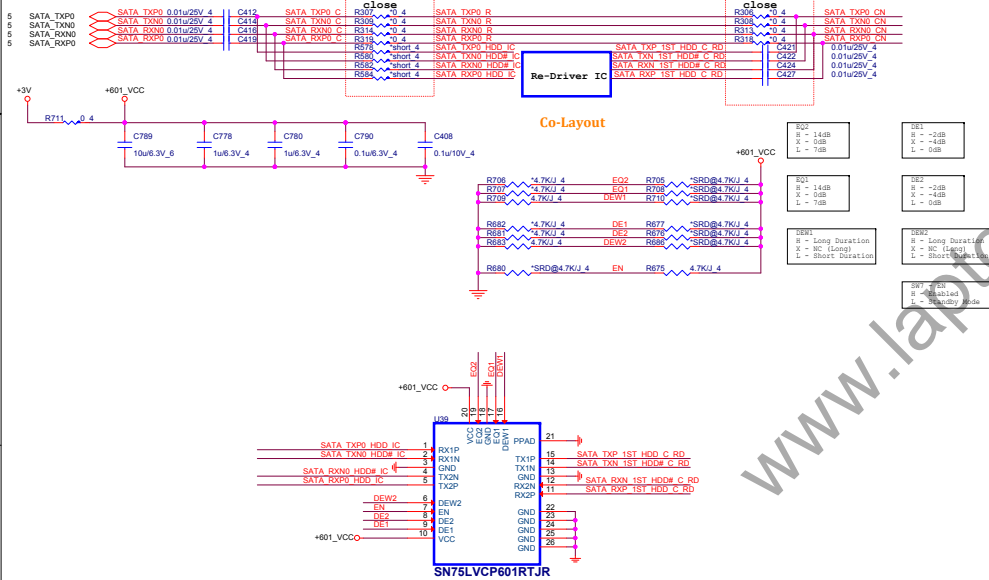
SATA HDD

Cable Type MAIN SATA HDD

10/19 change CN27 Pin define following ZHA/Z09



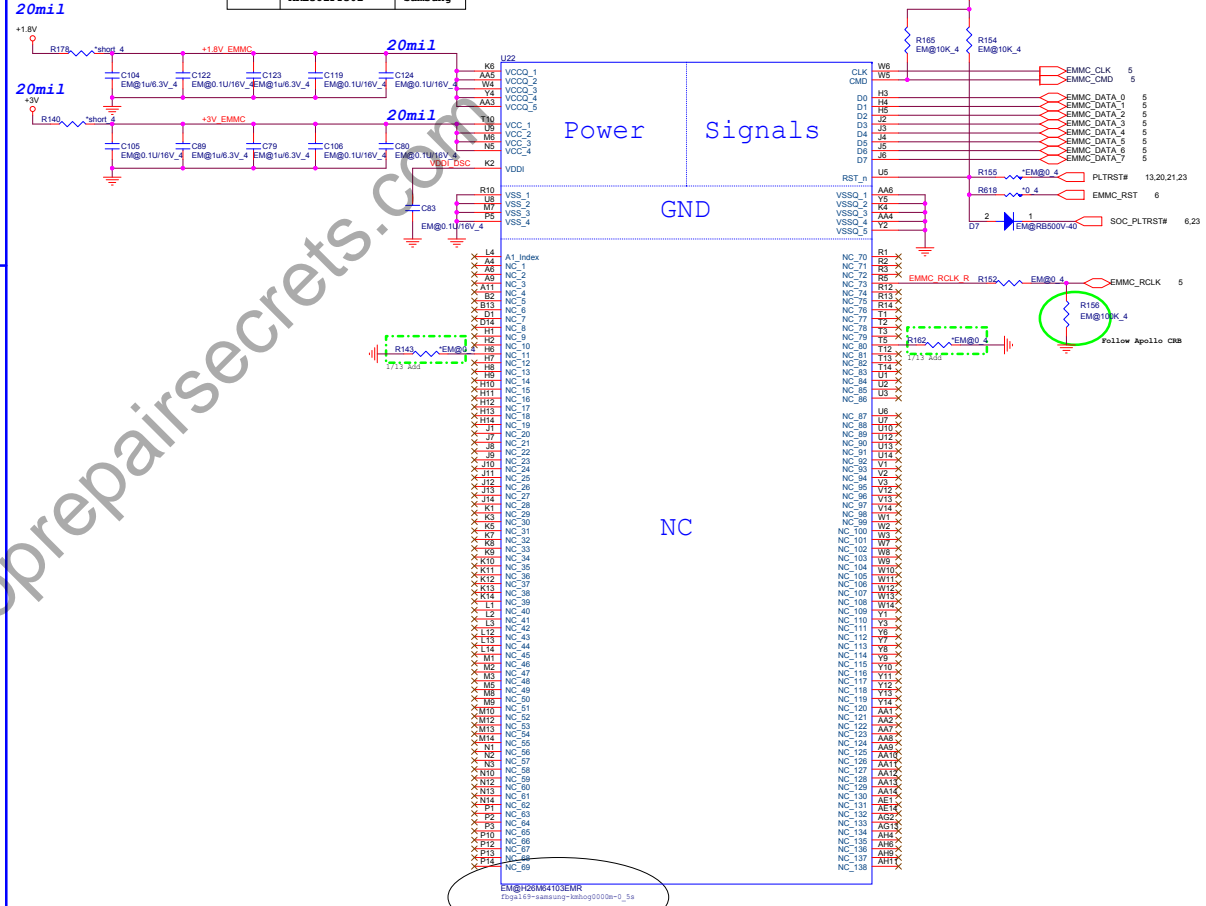
HDD1 SATA Re-driver

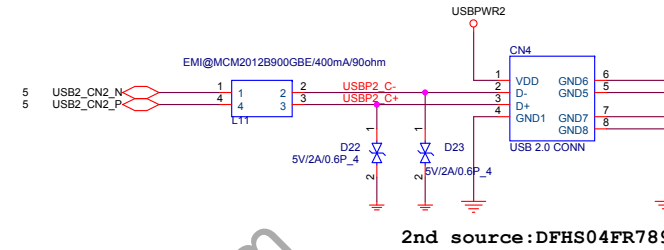


eMMC

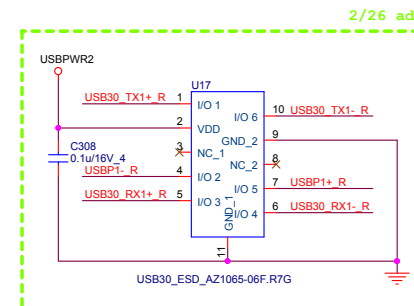
Density	eMMC P/N	Vender
32GB	AKE3S2-TW09	Hynix
	Kingston	
64GB	AKE3T2-TW00	Hynix
	AKE3U2FT502	Samsung


10 ohm to improve SI
Point to point connection to the corresponding pin at eMMC device: D0-D7/CMD/CLK



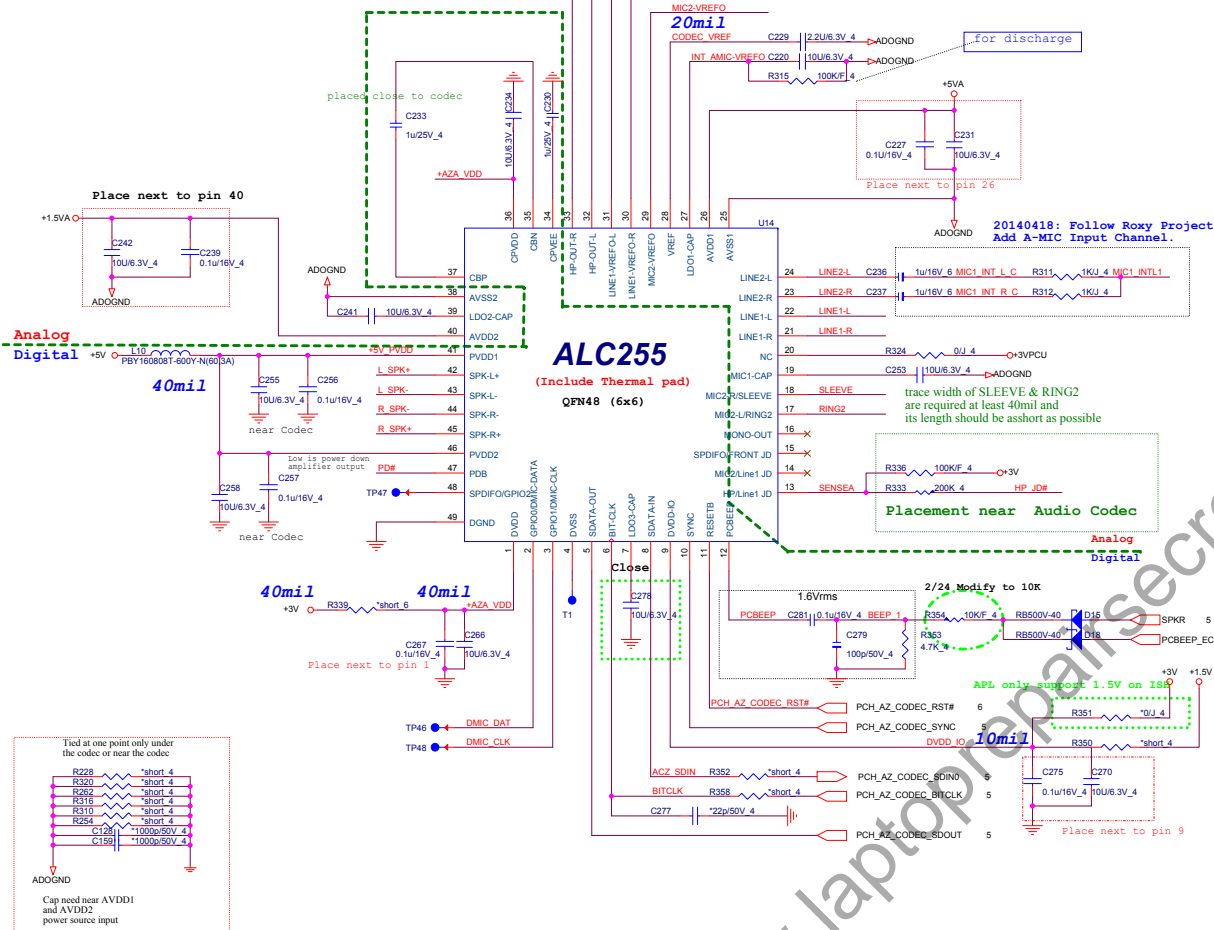


change footprint 10/16



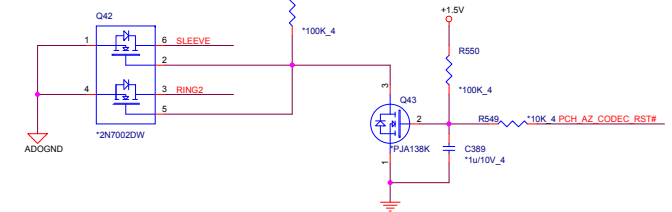
 Quanta Computer Inc. PROJECT : ZHP /ZSP		
Size	Document Number	Rev
	USB CONN/USB HUB	1A
Date:	Tuesday, July 26, 2016	Sheet 18 of 36

Codec(ADO)



Grounding circuit(ADO)

PIN1, PIN4, PIN3, PIN6 are ANALOG



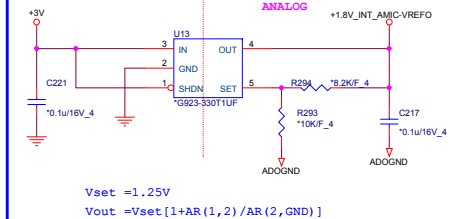
Mute(ADO)

Stuff R384 for AMP_MUTE#



Power (ADO)

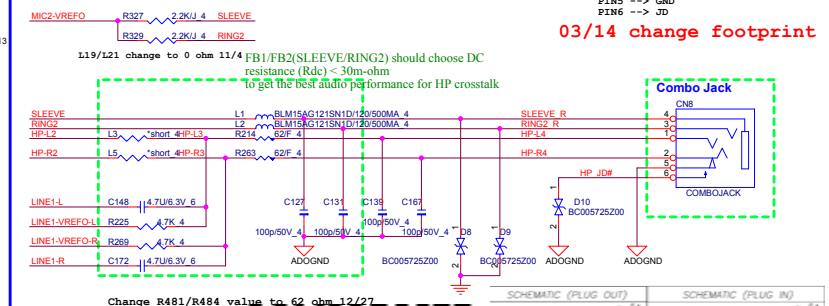
Demodulation Filter



HEADPHONE/MIC/LINE combo (ADO)

```
Normal Open
PIN1 --> L
PIN2 --> R
PIN3 --> GND/MIC (Nokia/iPhone)
PIN4 --> MIC/GND (iPhone/Nokia)
PIN5 --> GND
PIN6 --> JD
```

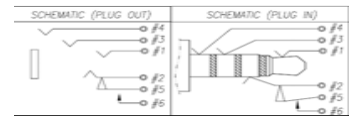
03/14 change footprint



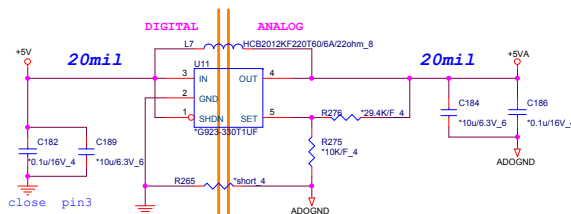
Change R481/R484 value to 62 ohm 12/27

value to 62 ohm 12/27

COMPRESSED
IMAGE



Codec PWR 5V(ADO)

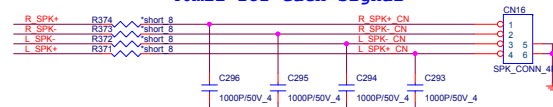


Codec PWR 1.5V(ADO)



Internal Speaker

PE Request CN16 12/25 change footprint
each signal

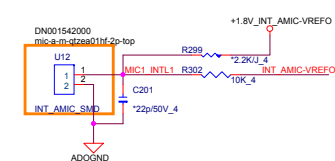


Place these EMI components next to codec 2016/01/19

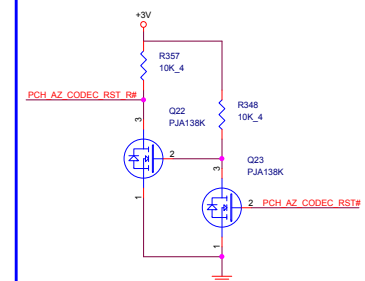
A-Mic

Analog-MIC

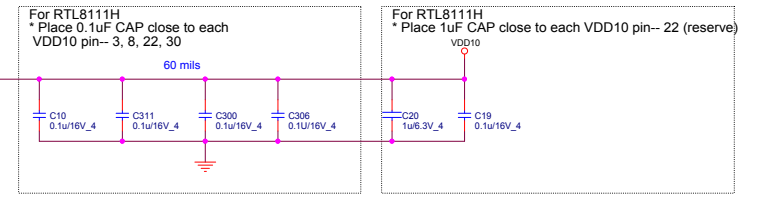
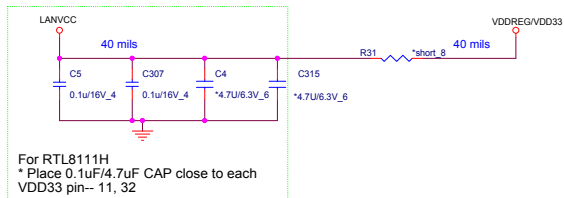
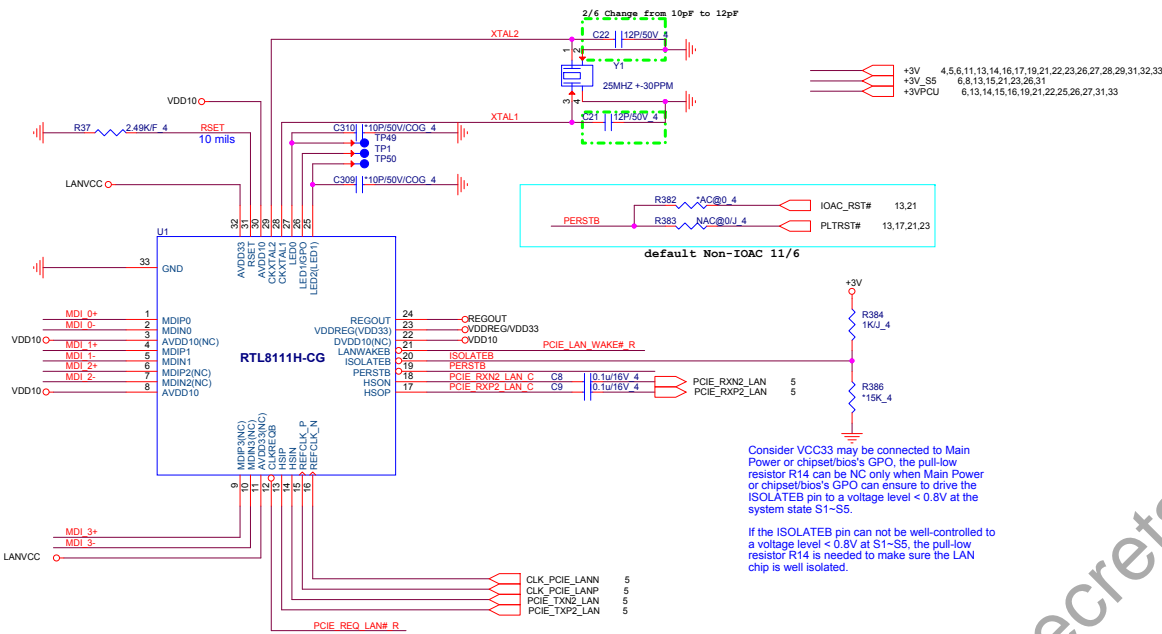
8/1 Change CN1 footprint to mic-a-m-gtzea01hf-2p-top



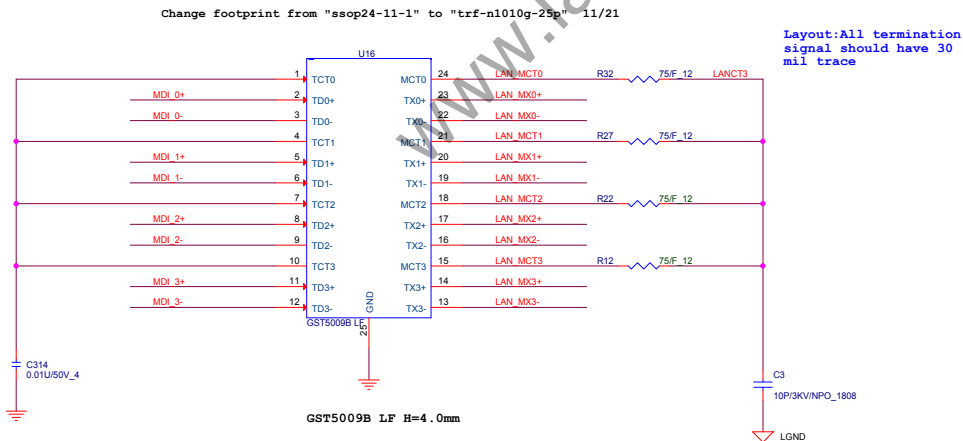
Level shift



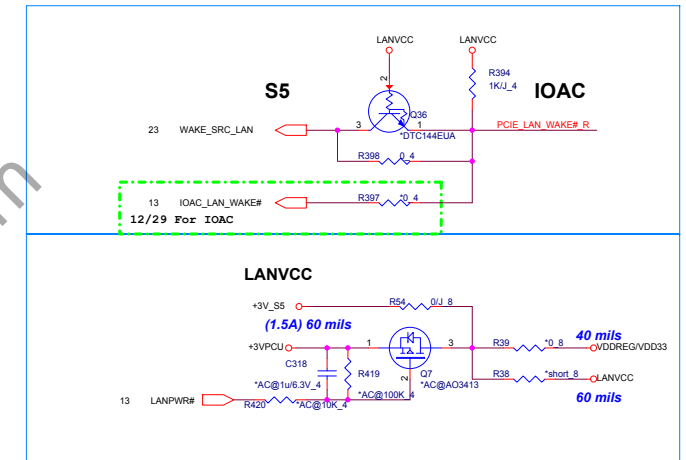
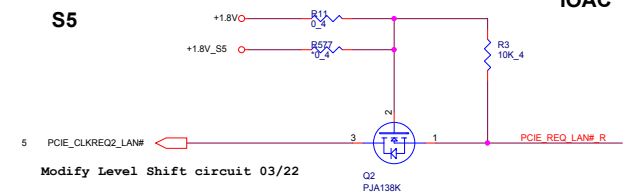
LAN



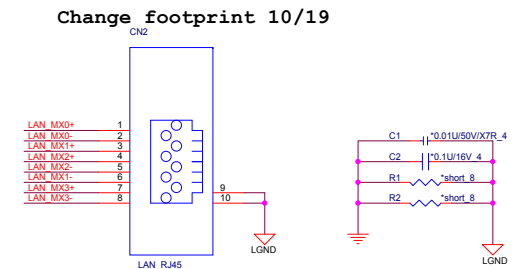
Transformer



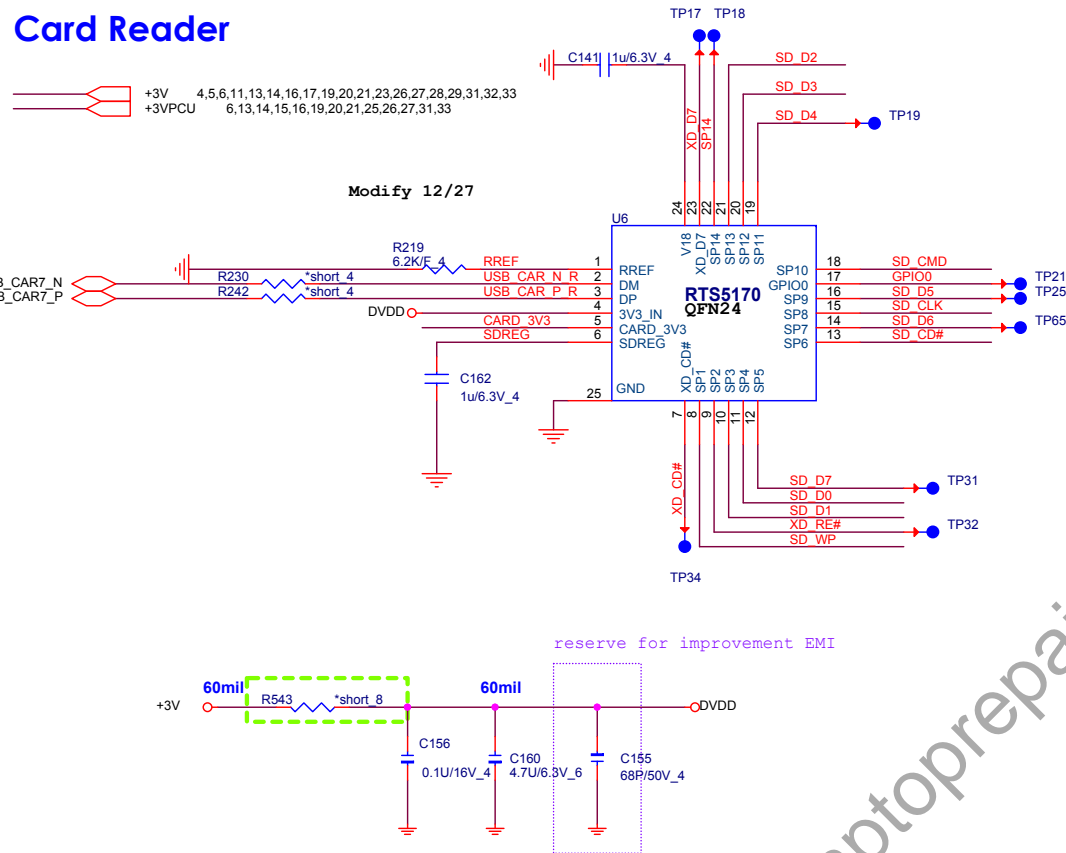
S5



RJ45 Connector

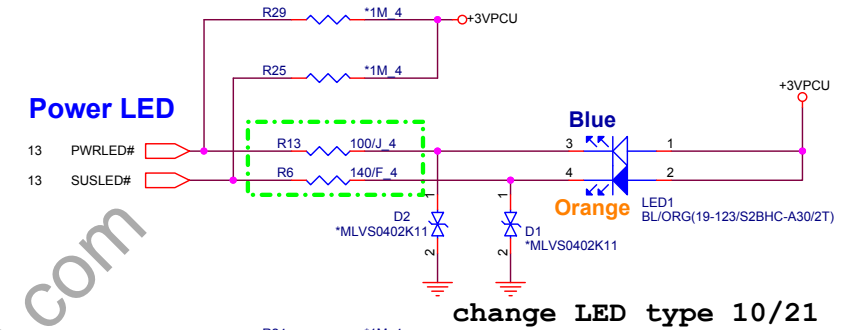


Card Reader

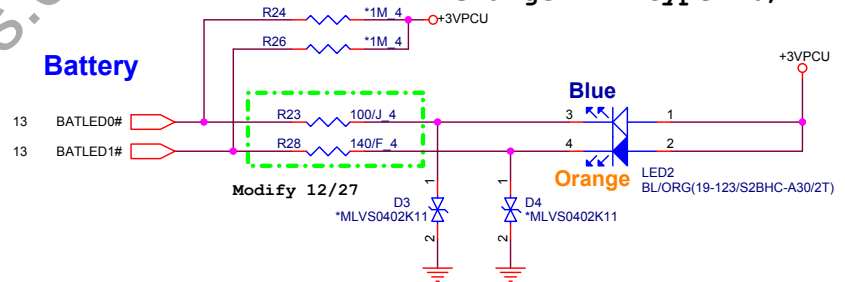


LED(UIF)

Power LED

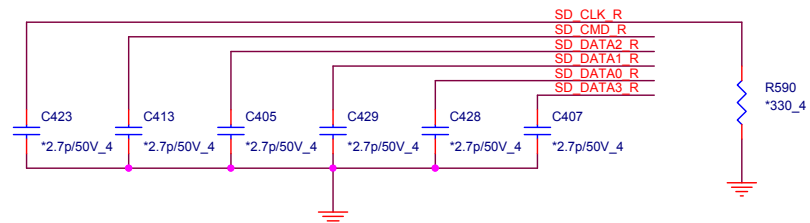
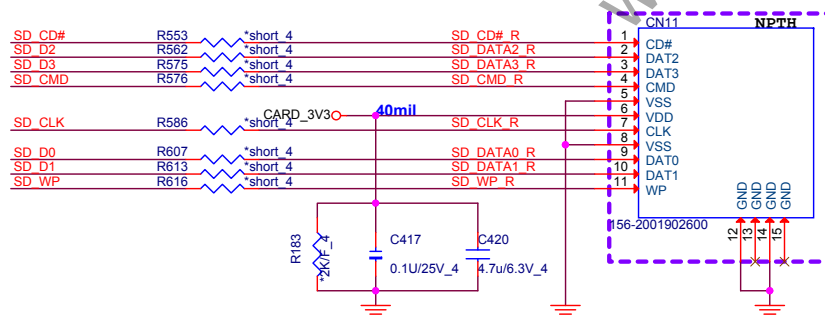


Battery



SD/MMC CARD READER (MMC)

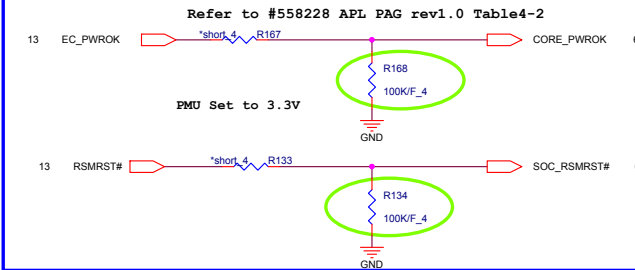
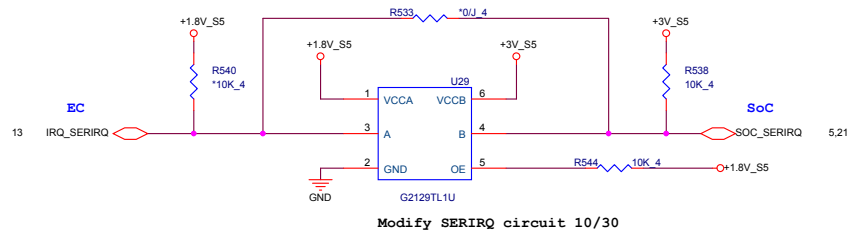
10/19 change footprint
11/5 change CR connector symbol



Quanta Computer Inc.

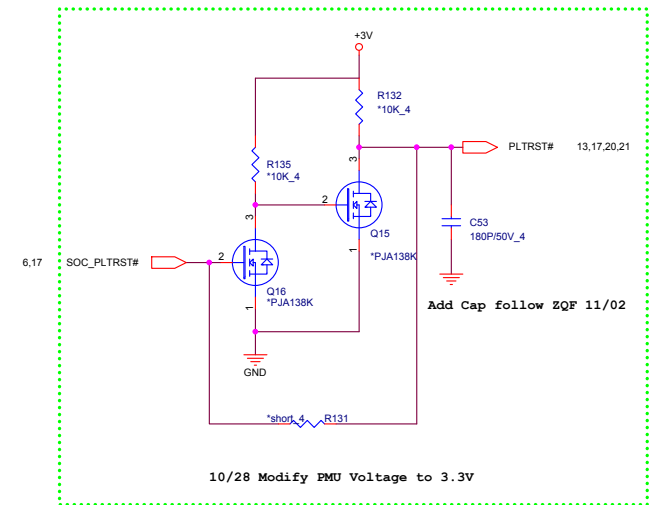
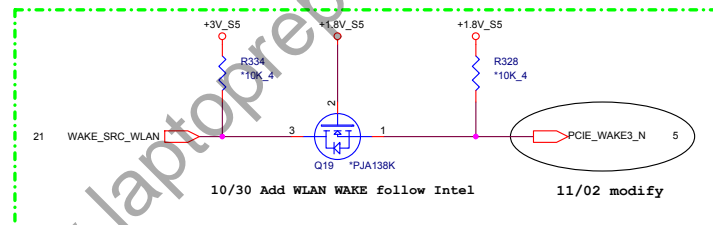
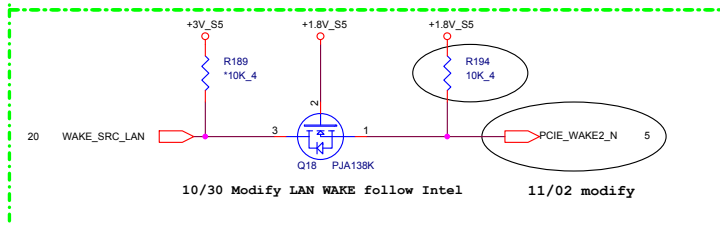
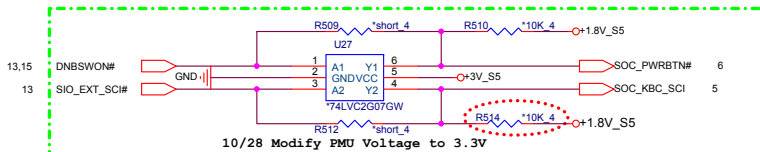
PROJECT : ZHP/ZSP

Size	Document Number	Rev
	D/B Board Connector	1A
Date:	Tuesday, July 26, 2016	Sheet 22 of 36



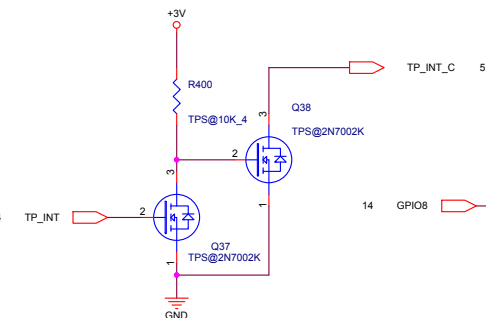
+3V_S5 6,8,13,15,20,21,26,31
 +3V 4,5,6,11,13,14,16,17,19,20,21,22,26,27,28,29,31,32,33
 +1.8V_S5 4,5,6,8,10,13,14,15,21,25,29,31

Del PCH_SUS_STAT# level shift to EC 10/28

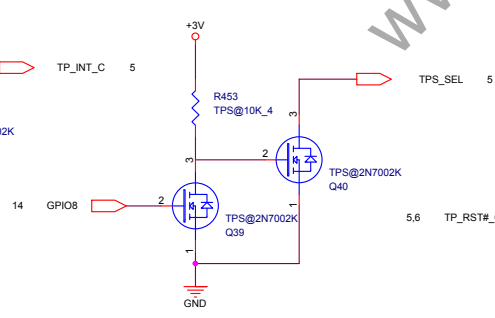


Touch screen INT

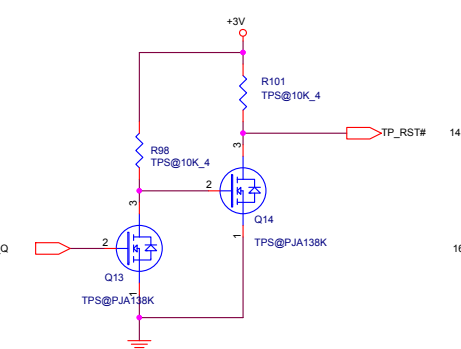
Touch Panel interrupt



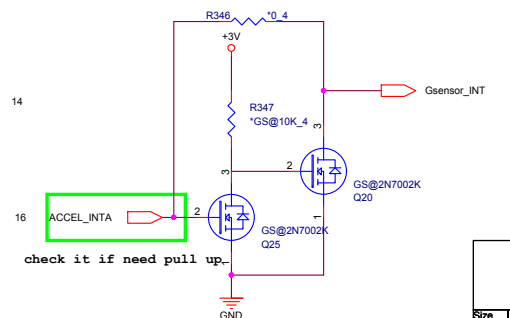
Touch screen detected



Touch screen reset



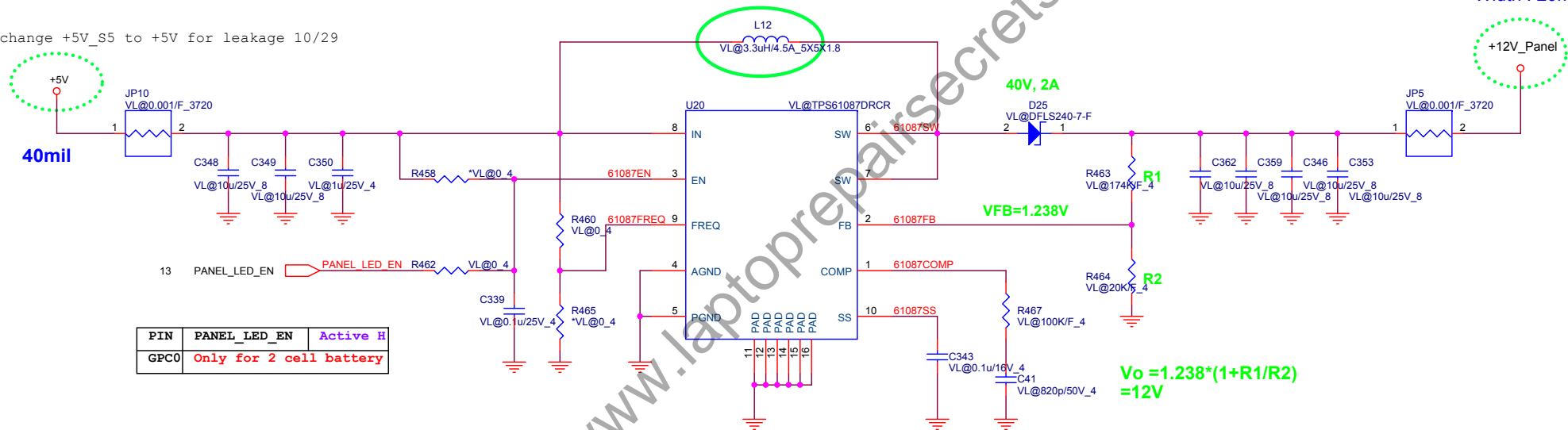
G Sensor INT



Panel Spec (TFT-LCD 14")
VLED : 6V~21V (Typ:12V)
Power Consumption : 3W (MAX)

+12V_Panel
12 Volt +/- 5%
PEAK : 0.35A
Width : 20mil

change +5V_S5 to +5V for leakage 10/29



Quanta Computer Inc.

PROJECT :

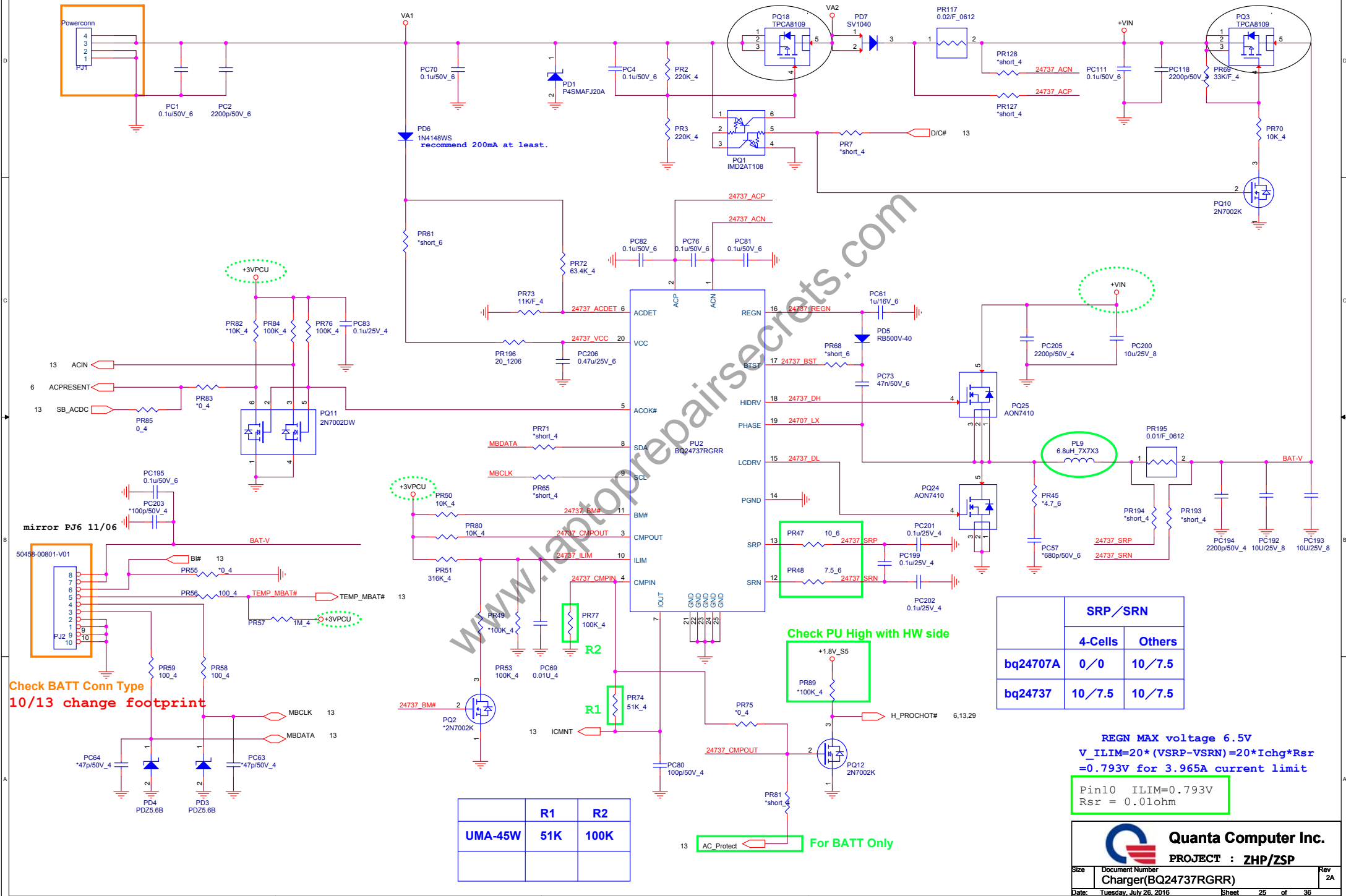
DC-DC

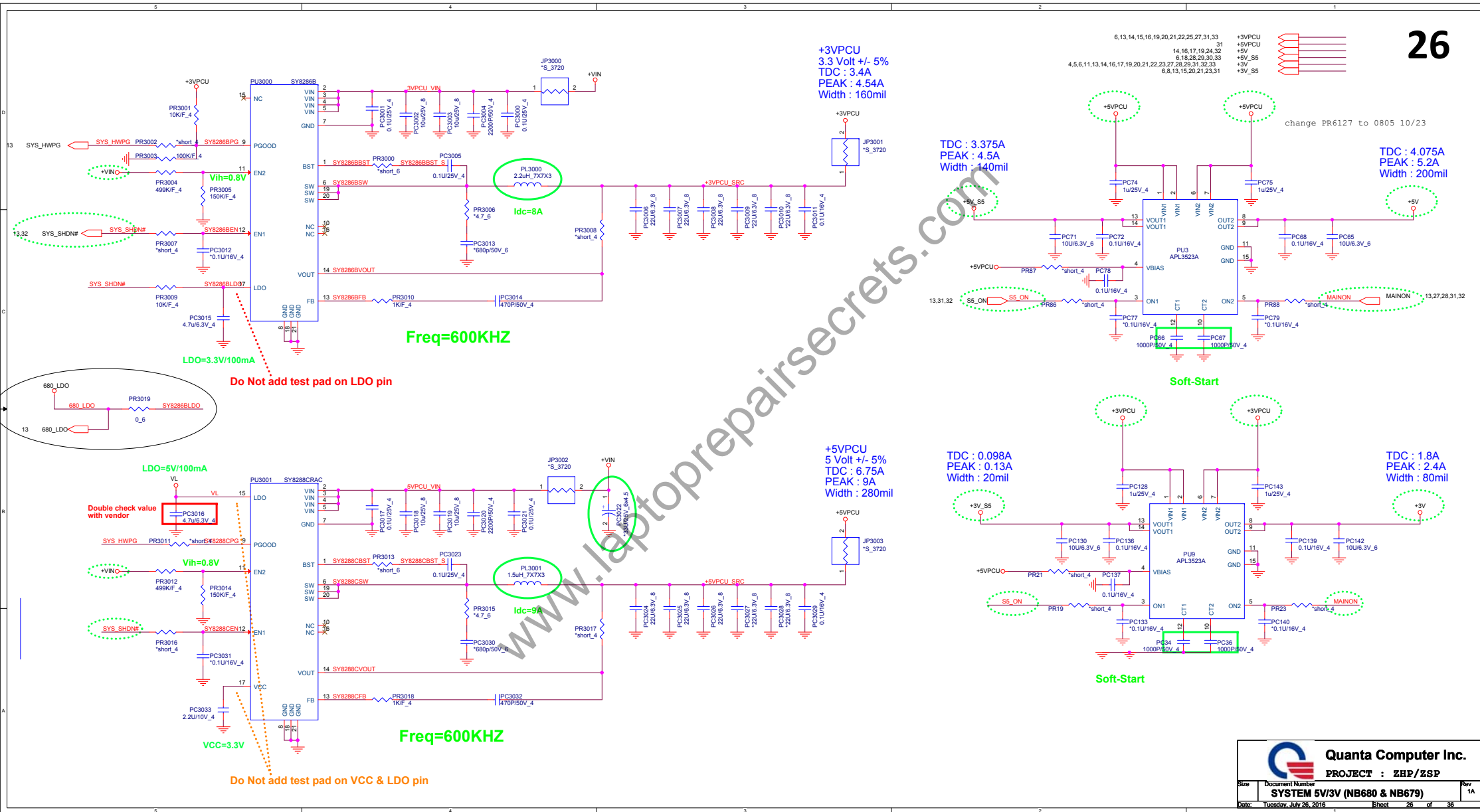
Size	Document Number	Rev
		1A

Date: Tuesday, July 26, 2016 Sheet 24 of 36

Change ADP-IN Pin define 2016/01/11 by SMT Request.

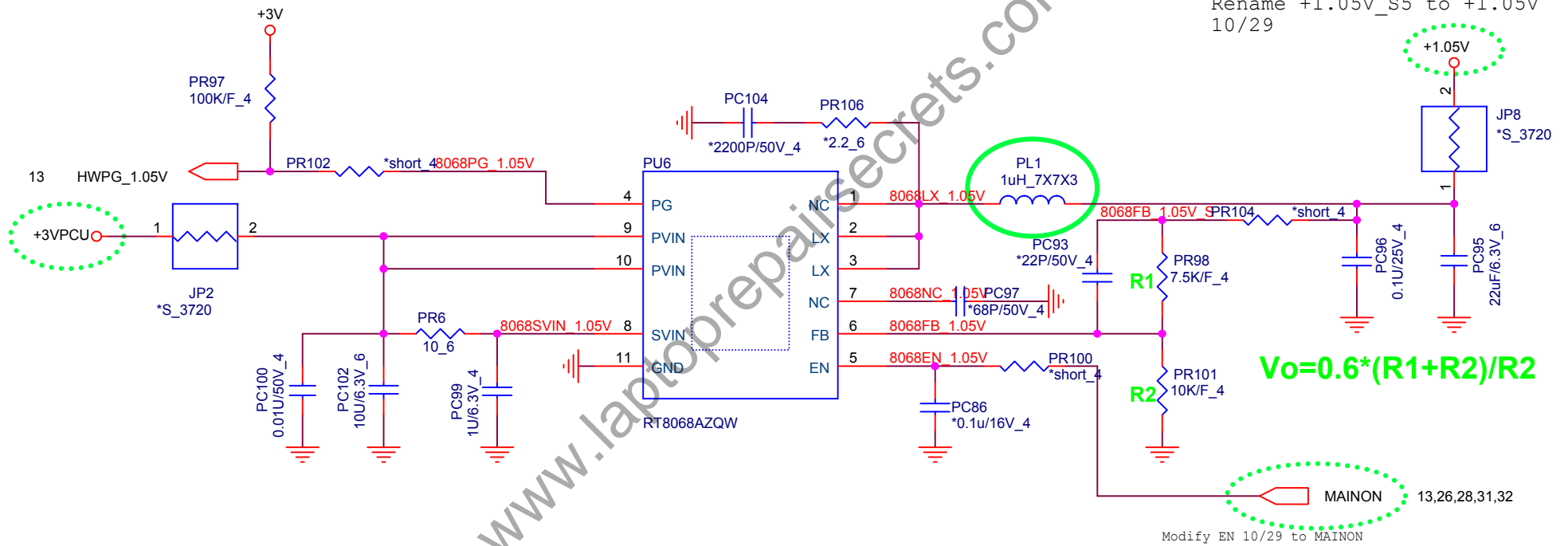
PQ27 / PQ8 change from BAM14130000 (MOS AOL1413) to BAM81090000 (MOS TPCA8109) 11/06





+1.05V_S5
1.05Volt +/- 5%
TDC : 2.025A
PEAK : 2.7A
Width : 100mil

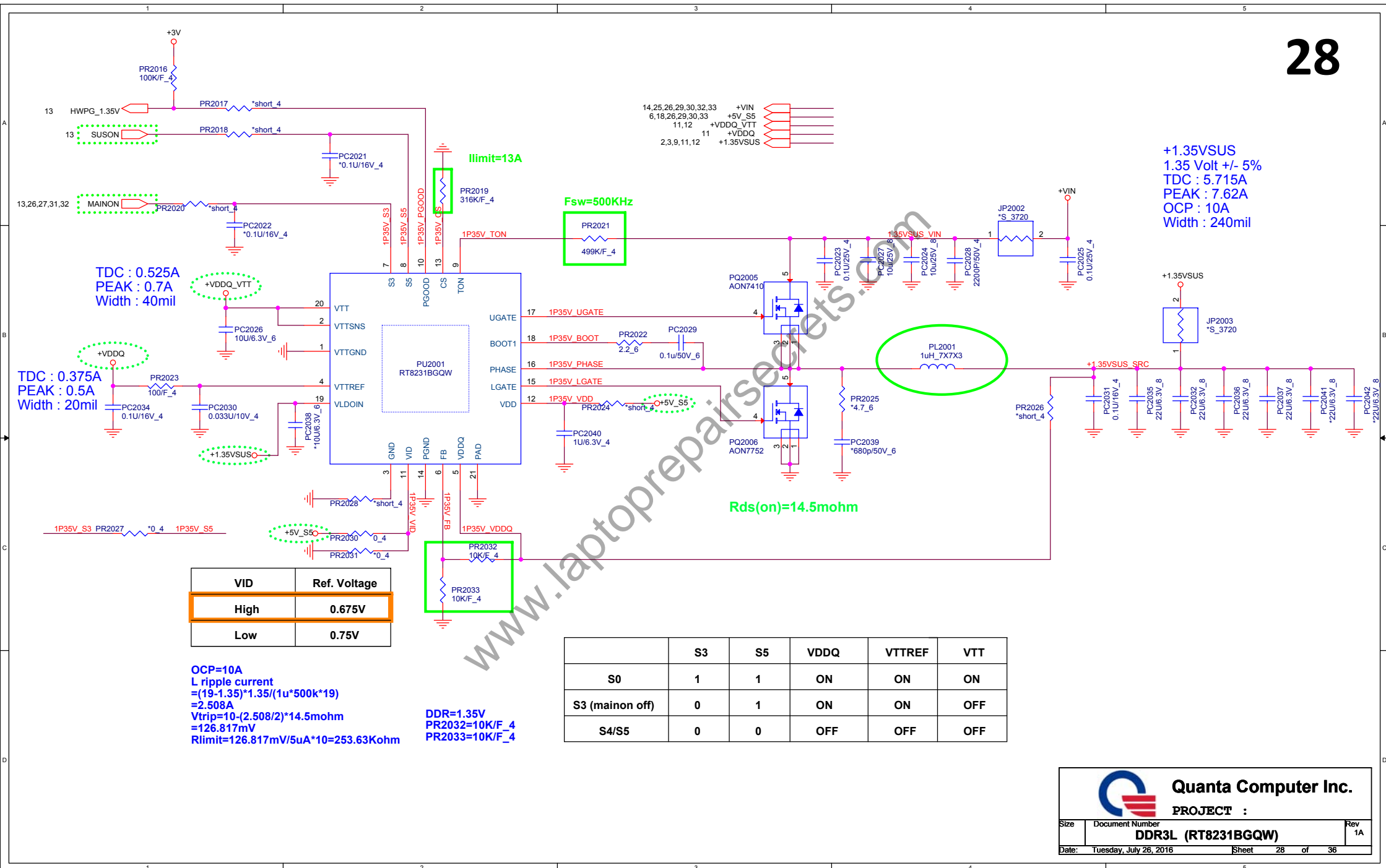
Rename +1.05V_S5 to +1.05V
10/29



Quanta Computer Inc.

PROJECT :

Size	Document Number	Rev
	+1.05V_S5 (RT8068AZQW)	2A
Date:	Tuesday, July 26, 2016	Sheet 27 of 36



Quanta Computer Inc.

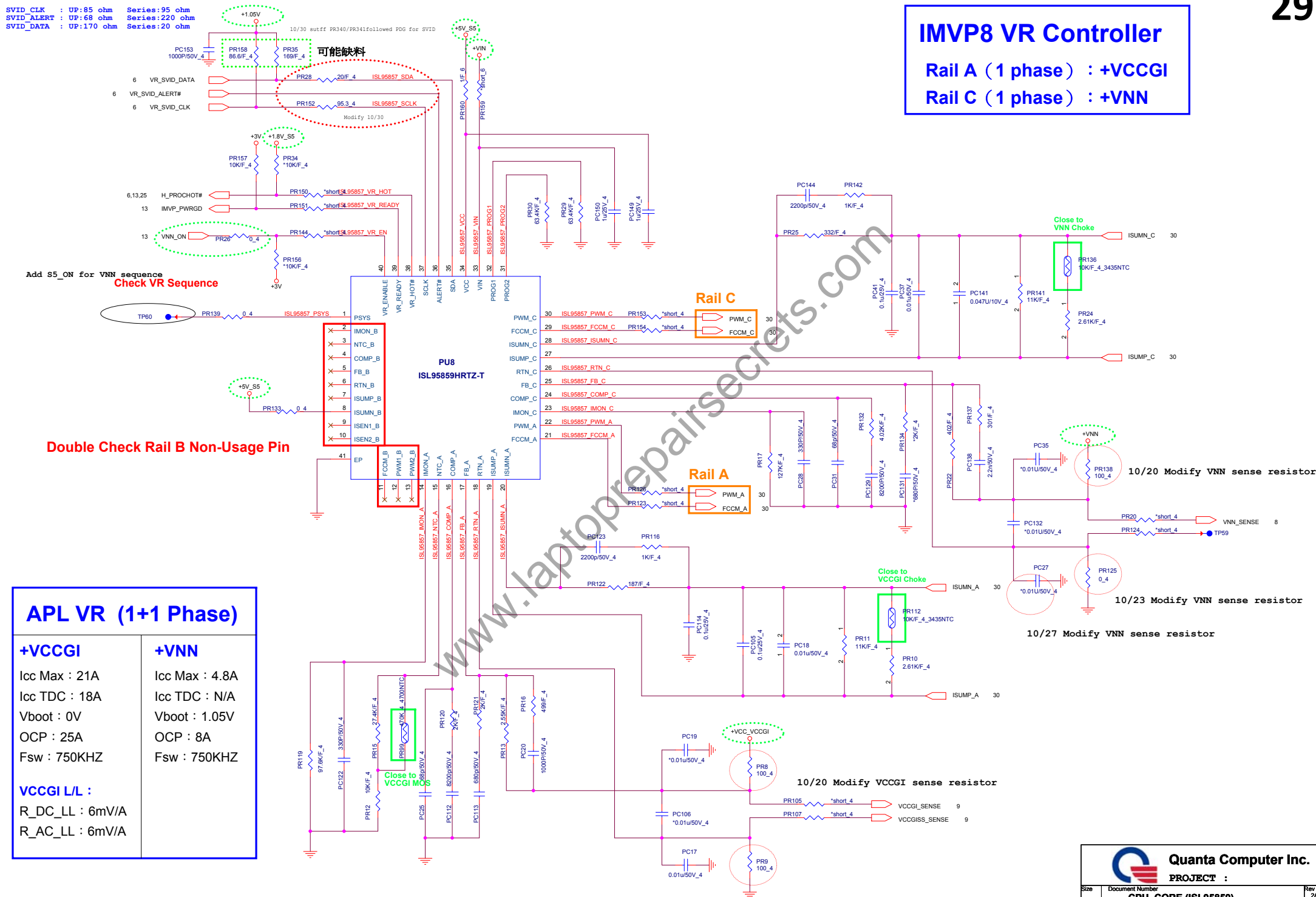
PROJECT :

Size Document Number
DDR3L (RT8231BGQW) Rev 1A

Date: Tuesday, July 26, 2016 Sheet 28 of 36

Change pull up to +1.05V_S5

```
SVID_CLK      : UP:85 ohm   Series:95 ohm
SVID_ALERT    : UP:68 ohm   Series:220 ohm
SVID_DATA     : UP:170 ohm  Series:20 ohm
```



APL VR (1+1 Phase)

+VCCGI

Icc Max : 21A
Icc TDC : 18A
Vboot : 0V
OCP : 25A
Fsw : 750KHZ

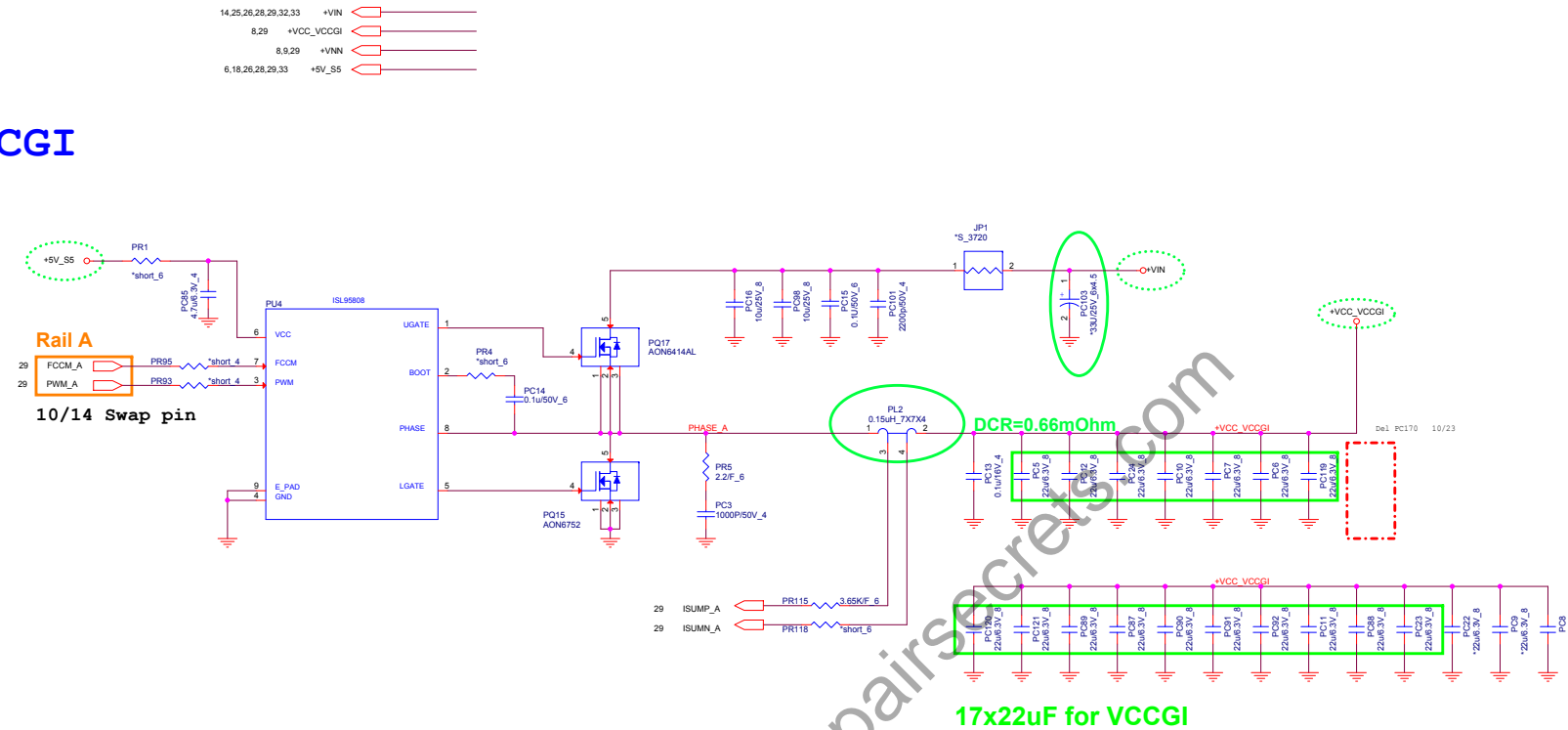
+VNN

Icc Max : 4.8A
Icc TDC : N/A
Vboot : 1.05V
OCP : 8A
Fsw : 750KHZ

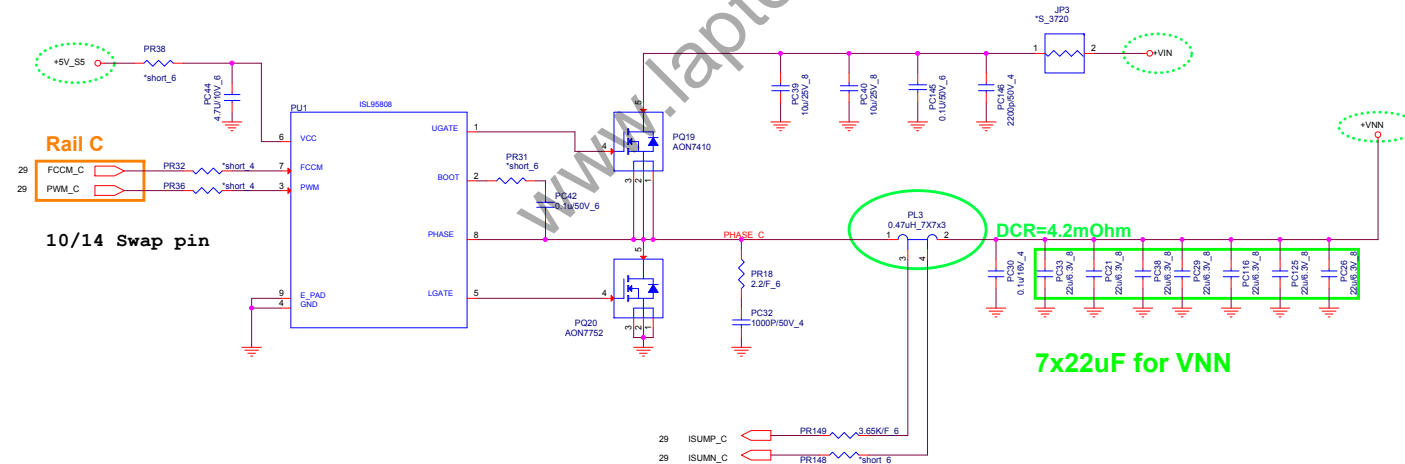
VCCGI L/L :

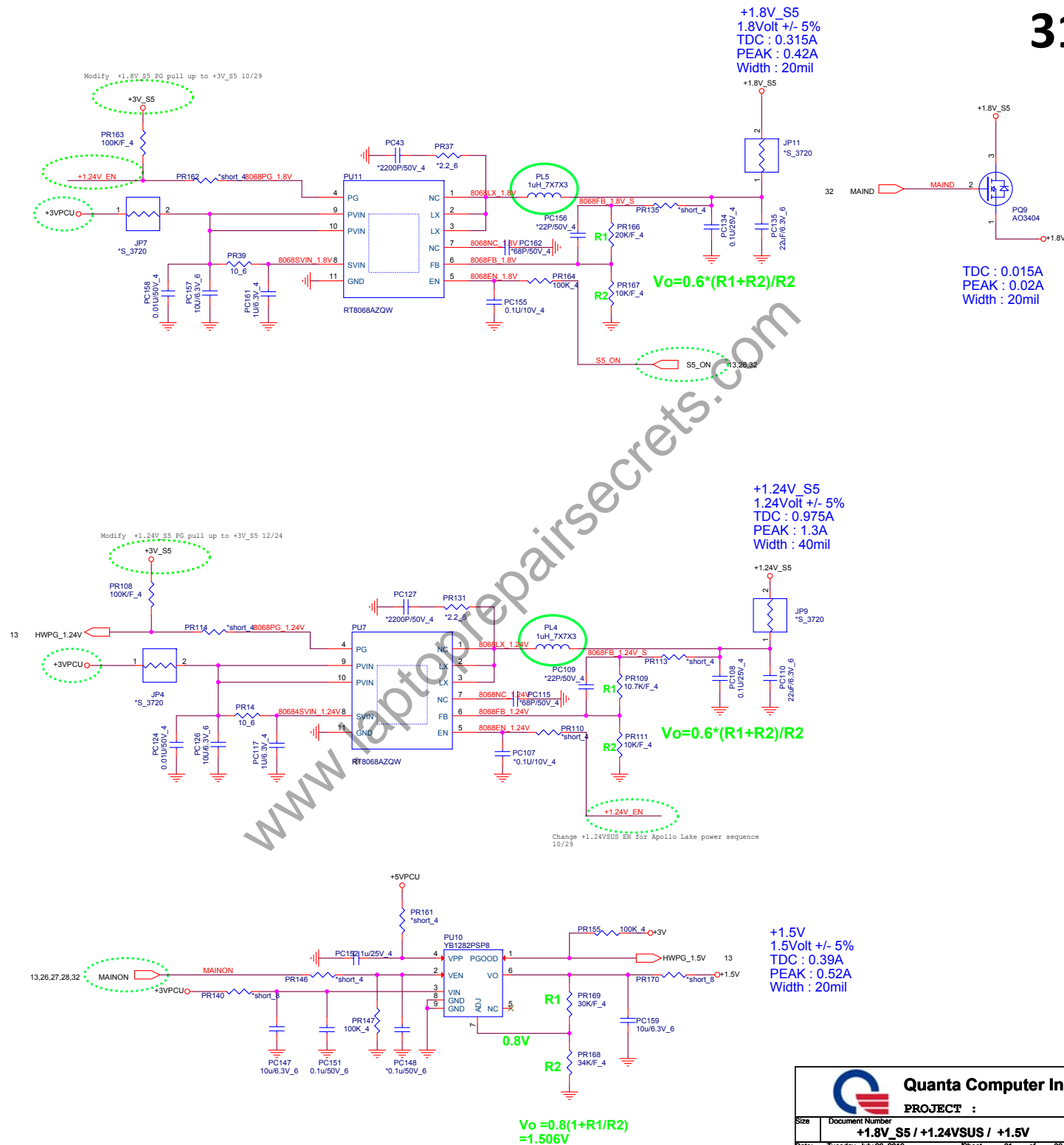
R_DC_LL : 6mV/A
R AC LL : 6mV/A

VCCGI



VNN

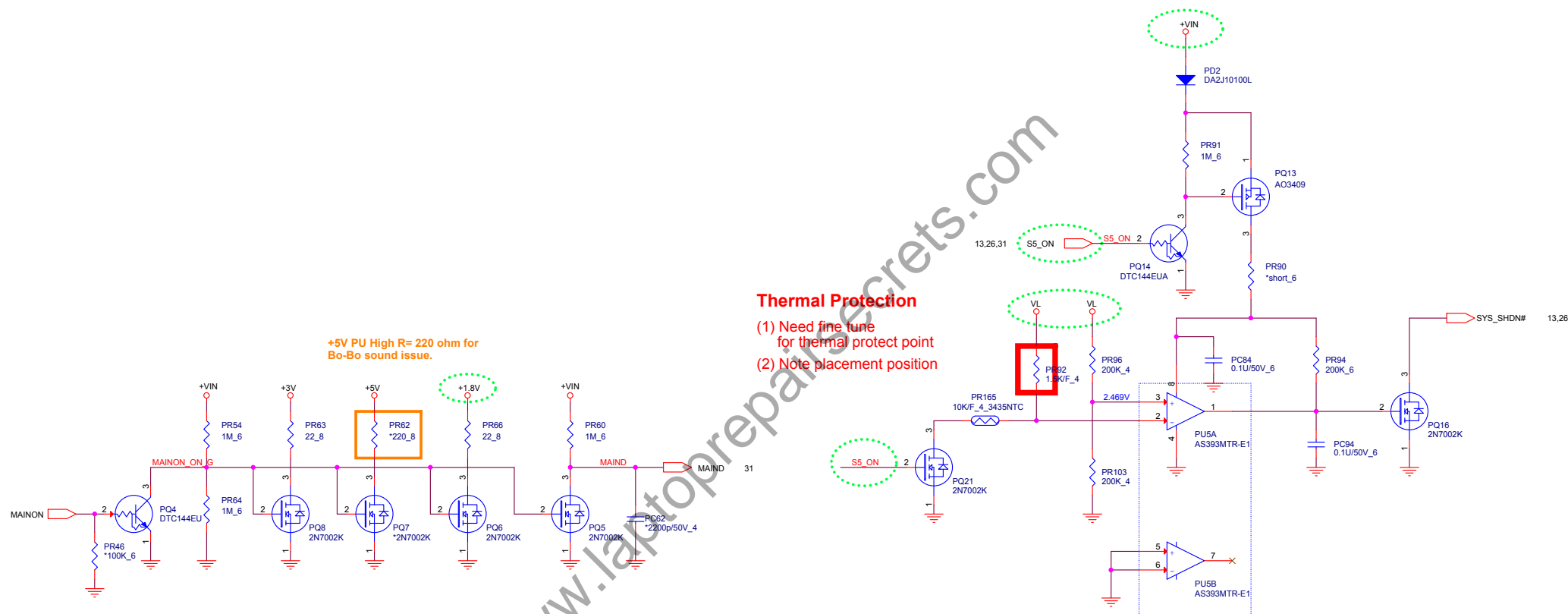




Thermal Protection

- (1) Need fine tune for thermal protect point
- (2) Note placement position

+5V PU High R= 220 ohm for Bo-Bo sound issue.



For EC control thermal protection (output 3.3V)



Quanta Computer Inc.

PROJECT :

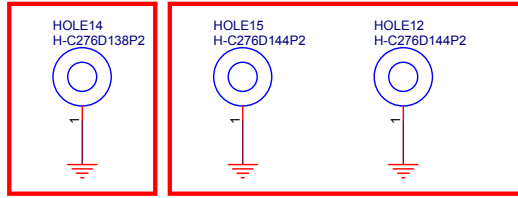
Size	Document Number	Rev
	Thermal / Discharge	1A

Date: Tuesday, July 26, 2016 Sheet 32 of 36

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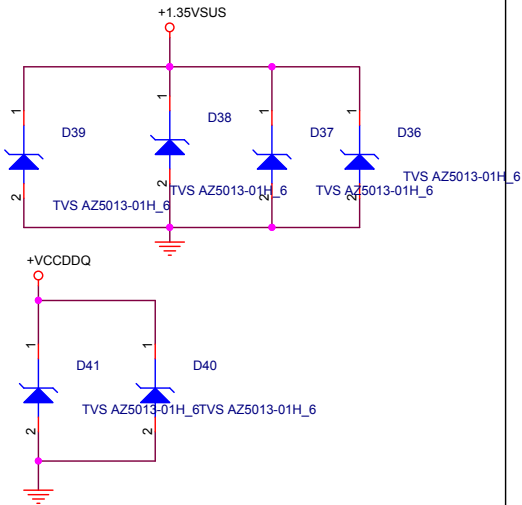
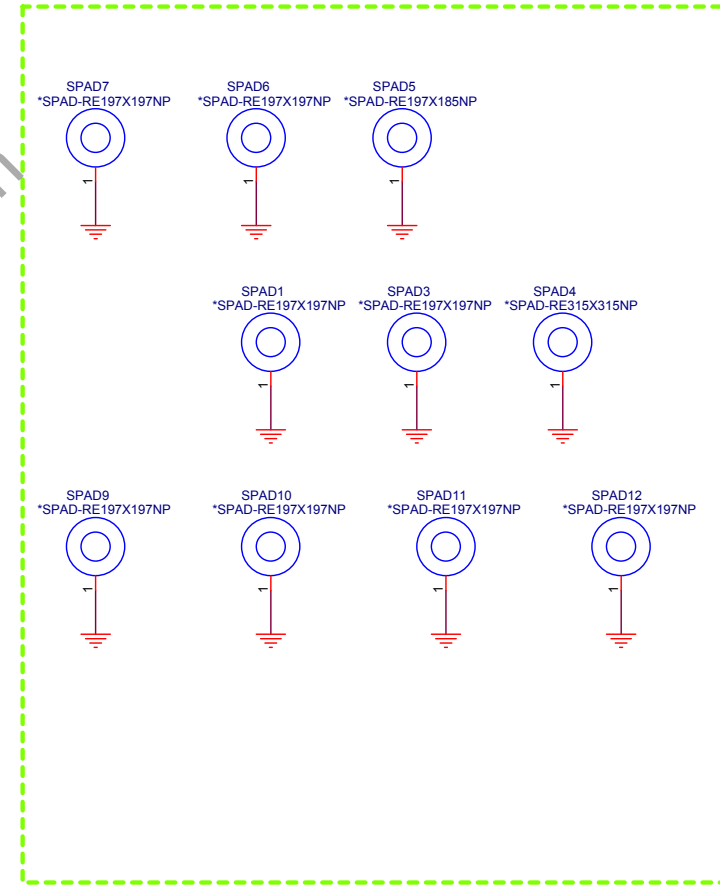
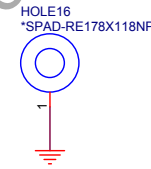
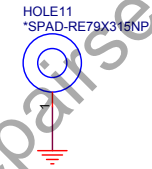
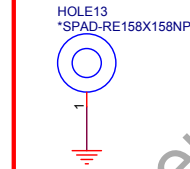
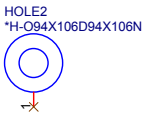
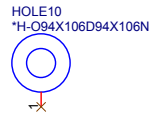
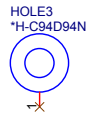
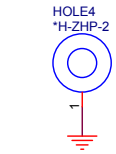
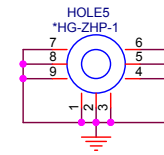
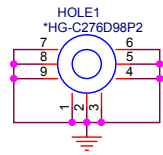
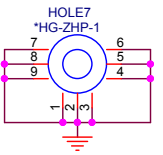
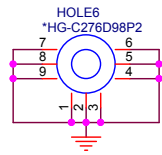
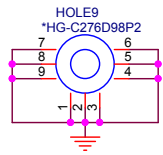
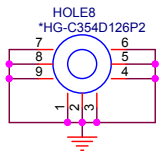
Need to check the nuts 10/27

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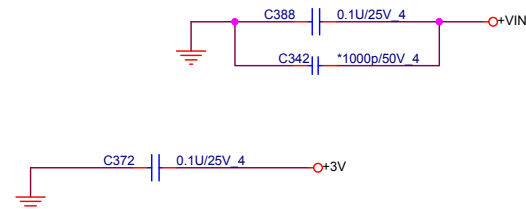
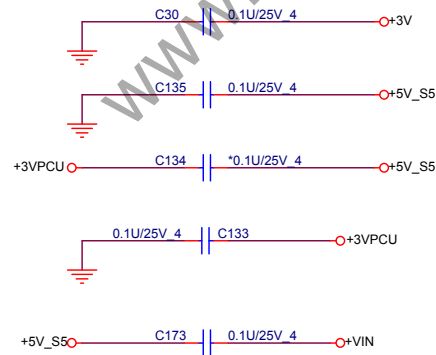


NGFF nuts

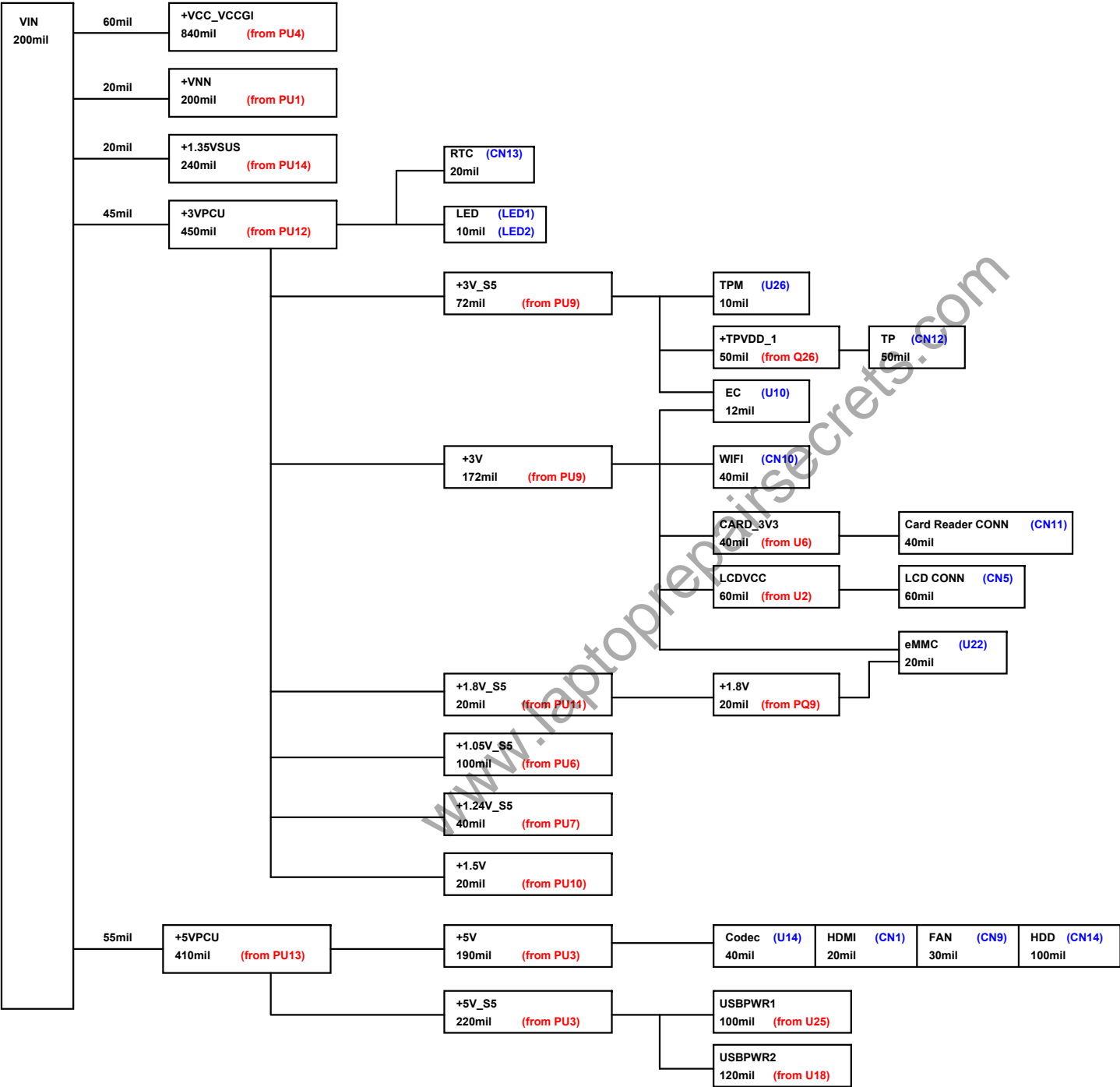
CPU Thermal nuts



For ESD solution add in Rev: D



Apollo Power Tree



Model	REV	CHANGE LIST			ZHP/ZSP MB		
ZHP/ZSP MB	REV.A	1	2015/11/10 REV:A Initial release		Page	From	To
		1	2015/11/12 R64 (68ohm) change EOD part CS06802FB07 to CS06802JB17		1		3A
		2	2015/11/12 PR152 Change CS09532FB08 to CS09532FB00		2		3A
		3	2015/11/12 Stuff R483		3		3A
		4	2015/11/12 R220 modify value *CHB@80.6/F 4		4		3A
		5	2015/11/12 R266, R274, C171, R267, C170, R272 modify value CHB@		5		3A
		6	2015/11/12 U2 change EOL part AL005243001 to AL005245000		6		3A
		7	2015/11/12 Page 6 add text "Pin AG55 is EMMC_PWR_EN_N (CRB 1.0)"		7		3A
		8	2015/11/12 Correct the value and description of R13, R23		8		3A
		9	2015/11/12 Correct the value and description of R6, R28		9		3A
					10		3A
		1	2015/11/13 R142 change CS11372FB09 to CS11372FB25		11		3A
		2	2015/11/13 PR222 change CS14022FB03 to CS14022FB11		12		3A
		3	2015/11/13 PC18, PC181 change EOD part CH31004KB17 to CH31006KB18		13		3A
		4	2015/11/13 PC96, PC108, PC134, PC182, C138 change EOD part CH41002KB93 to CH4104K1B00		14		3A
		5	2015/11/13 C408, C409, C421, C422 change EOD part CH4102K1B03 to CH4104K1B00		15		3A
		6	2015/11/13 PC152 change EOD part CH5103K9901 to CH5103K1900		16		3A
		7	2015/11/13 PR186 change EOD part CS-2003J932 to CS-2003F900		17		3A
		8	2015/11/13 C112, C118, C157, C158, C163, C164, C165, C166 change EOD part CH6221M9A07 to CH6221M9A01		18		3A
	REV.B	1	2015/12/07 Remove PR27, Add R617 220 ohm for A Can't Power on issue.		19		3A
		2	2015/12/07 Remove R280/R288/R279/R287/R266/R274/R267/R272/C170/C171/C180/C179/R220, ADD R226 And R251 for memory Down can't work issue.		20		3A
		3	2015/12/07 remove R75 for can't power on.		21		3A
		4	2015/12/07 change SW2 to PN: DHPDSA40E00 and Footprint		22		3A
		5	2015/12/17 change U4 and U33 to Dual 2N7002K for RDC request.		23		3A
		6	2015/12/17 change C377 from 3528 to I206 and C27 from 0805 10U to 0603 10U.		24		3A
		7	2015/12/17 add U21 Pin L30 EMMC Rest to U22		25		3A
		8	2015/12/25 Change CN13 to support ML1220 for PE Request.		26		3A
		9	2015/12/25 Change P28 DDR3L Power solution		27		3A
		9	2016/01/11 Resever 2K for SD-Card VCC		28		3A
		10	2016/01/11 Change PJI ADP-IN Pin define 2016/01/11 by SMT Request.		29		3A
		11	2016/01/12 R514 remove in B test, for AC/DC change icon issue, Add D35 for Hall IC ESD part by EC side.		30		3A
		12	2016/01/25 remove R472/C352/C347/C351 int function no need use.		31		3A
		13	2016/01/25 add EC Pin		32		3A
					33		3A
					34		3A
					35		3A
	REV.C	1	Change Q56 to DMN53D0LDW (Vgs=1.5V)		36		3A
		2	Change Q2 follow ZRV 雙向.		37		3A
		3	Change PR73 from 10K to 11K by power team request		38		3A
		4	Change PR164 from 63.4K to 100K for power sequence fine tune and PR110 from 4.7K to 0 ohm		39		3A
		5	Add R573 and net "THERMTRIP#" and to conect EC pin4				
		6	Add R579 and R581 10K PU for PDG 1.2 Request.				
		7	Remove R136 and R137 , Mount R145 for PDG 1.2 Request.				
		8	Modify HDMI Q34 to 1.BAM6N430000 for HDMI issue and Remove R34/R33/R380 /R100				
		9	G_Sensor issue remove R346				
		10	Core Power OK R171 change from 20K to 100K, R488 change from 2.7K to 10K.				
		11	C.Hange C76 and C78 to 15P for RTC clock issue.				
	REV.D	1	Add R589 for Acer ESD lesson.				
	REV.E	1	Change R164 from 100K to 2.2K and R138 from 4.7K to 0 ohm for BIOS SOC_Override function.				
		2	Remove R201 and R201 (HDA SDI I/O pin issue) for QS sample .				
		3	Follow check list V1.5 to change R171 from 100K to 20K				
		4	Change Q12/Q33 type to PJA138K (Vgs<=1.5V)				
		5	Unstuff SW1,C391,R548				
		0402:	R578, R580, R582, R584, R322, R150, R387, R55, R50, R51, R418, R159, R304, R376, R144, R126, R125, R123, R534, R255, R248, R545, R229, R249, R236, R80, R81, R444, R445, R365, R228, R320, R262, R316, R310, R254, R265, R352, R358, R350 R601, R602, R594, R595, R596, R597, R598, R599, R242, R230, R553, R562, R575, R576, R586, R607, R613, R616, R509, R512, R131, R536, R519, R133, R167, R163, PR71, PR65, PR128, PR127, PR194, PR193, PR81, PR7, PR3002, PR3007, PR3011, PR3016, PR3017, PR3008, PR87, PR86, PR88, PR21, PR19, PR23, PR102, PR100, PR104, PR2017, PR2018, PR2020, PR2028, PR2024, PR2026, PR150, PR151, PR144, PR26, PR126, PR123, PR105, PR107, PR20, PR124, PR153, PR154, PR95, PR93, PR32, PR36, PR162, PR114, PR146, PR161, PR110, PR113, PR135, R224, R193/R190/R403 /R436/R437/R258/R252/R253/R273/R53/R59/L5/L3				
		0603:	R208, R206, R481, R474, R478, R116, R105, R117, R118, R119, R545, L6, PR68, PR61, PR3013, PR3000, PR159, PR4, PR31, PR1, PR38, PR118, PR148, PR90, R339				
		0805:	R361, R174, R485, R480, R52, R468, R374, R373, R372, R371, R40, R38, R1, R2, R31, R543, PR130, PR143, PR129, PR145, PR67, PR52, PR78, PR79, PR170, PR140				
		1206:	R257, R256,				
		3720:	JP3000, JP3001, JP3002, JP3003, JP2, JP8, JP2002, JP2003, JP1, JP3, JP11, JP9, JP4				
				<div><div></div><div><div>Quanta Computer Inc.</div><div>PROJECT : ZHP/ZSP</div><div>Change List-1</div></div></div>			
				<div>Doc No. 1000</div>			

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Change List-2

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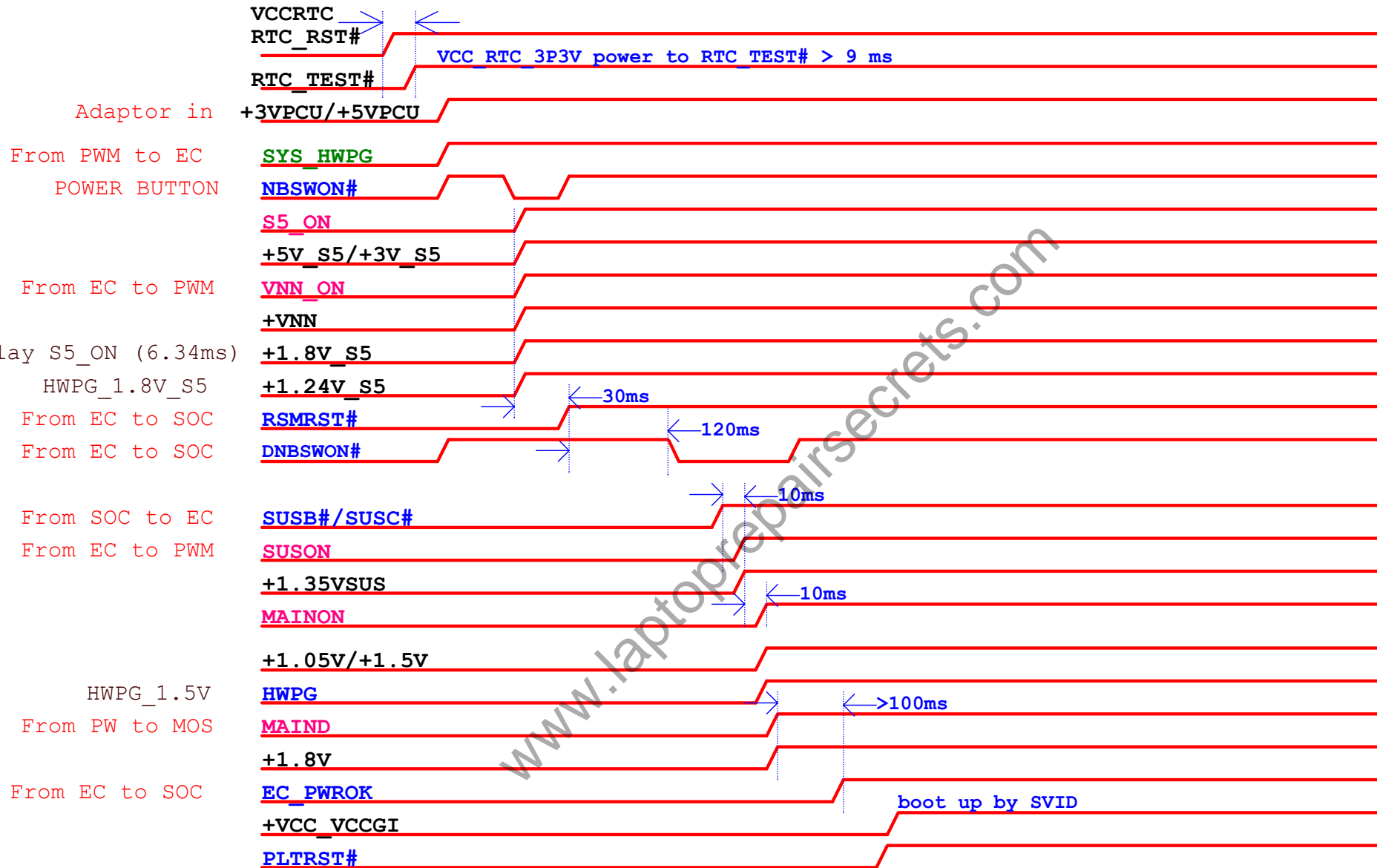
Power plane	Description	S0	S3	S5
+VIN	Adaptor power supply	ON	ON	ON
+VCC_VCCGI	Variable voltage supply to CPU and Graphics Core and ISP logic	ON	OFF	OFF
+VNN	Variable voltage supply to other (non core) logic	ON	OFF	OFF
+1.05V	Fixed voltage rail for SRAM,I/O,internal Logic	ON	OFF	OFF
+1.24V_S5	Fixed voltage rail for SoC L2/ Audio & ISH I/O Logic and PLLs MPHY Logic/ USB2-I/O/MIPI I/Os	ON	ON	ON
+1.8V_S5	Fixed voltage rail for all GPIOs	ON	ON	ON
+1.35VSUS	Fixed voltage rail for DDR3L IO	ON	ON	OFF
+3V_RTC	Fixed Voltage rail for RTC (Real Time Clock)	ON	ON	ON
+1.8V	1.8V S0 power rail	ON	OFF	OFF
+1.5V	1.5V S0 power rail	ON	OFF	OFF
+5VPCU	5V always on power rail	ON	ON	ON
+5V_S5	5V S5 power rail	ON	ON	ON
+5V	5V S0 power rail	ON	OFF	OFF
+3VPCU	3V always on power rail	ON	ON	ON
+3V_S5	3V S5 power rail	ON	ON	ON
+3V	3V S0 power rail	ON	OFF	OFF



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