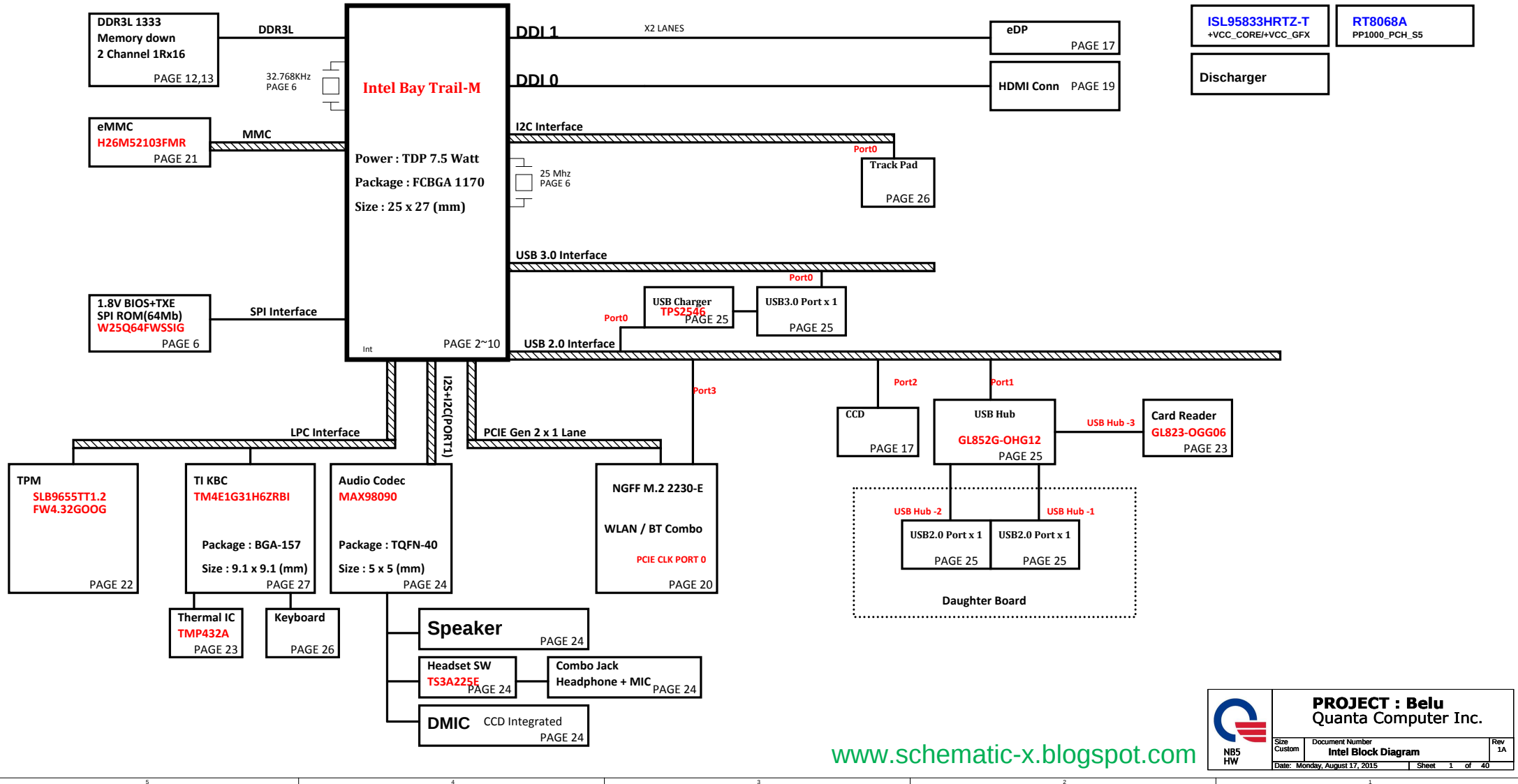


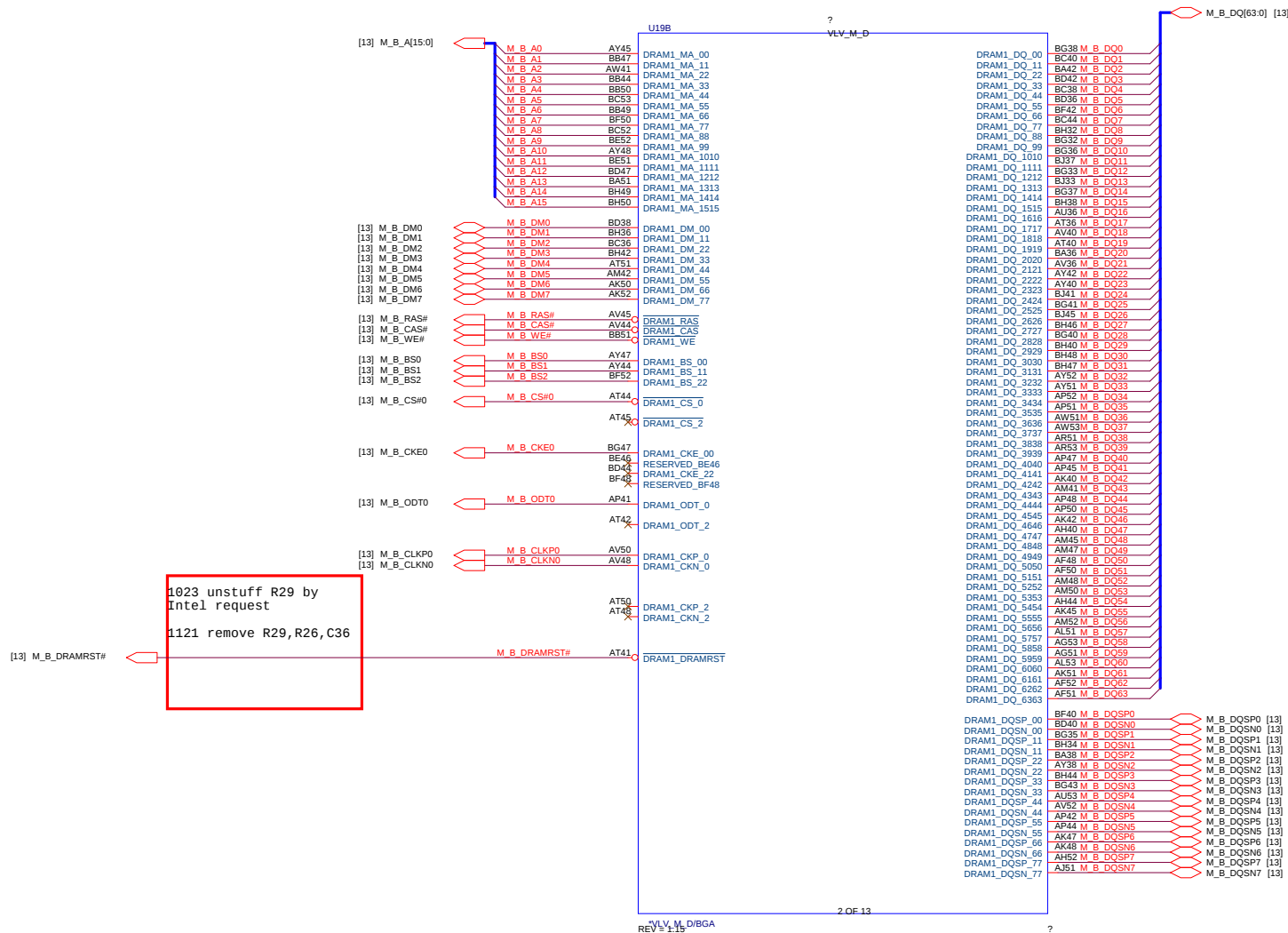
Belu (Y0JU 14") Model: TPN-Q167

Intel Bay Trail-M Platform Block Diagram

1

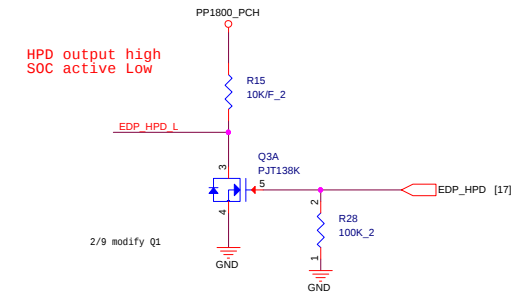






PROJECT : Belu
Quanta Computer Inc.

Size	Document Number	Rev
Custom	Valley 2/9 (DDR8)	1A
Date: Monday, August 17, 2015	Sheet 3 of 40	

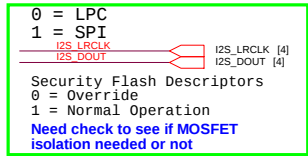


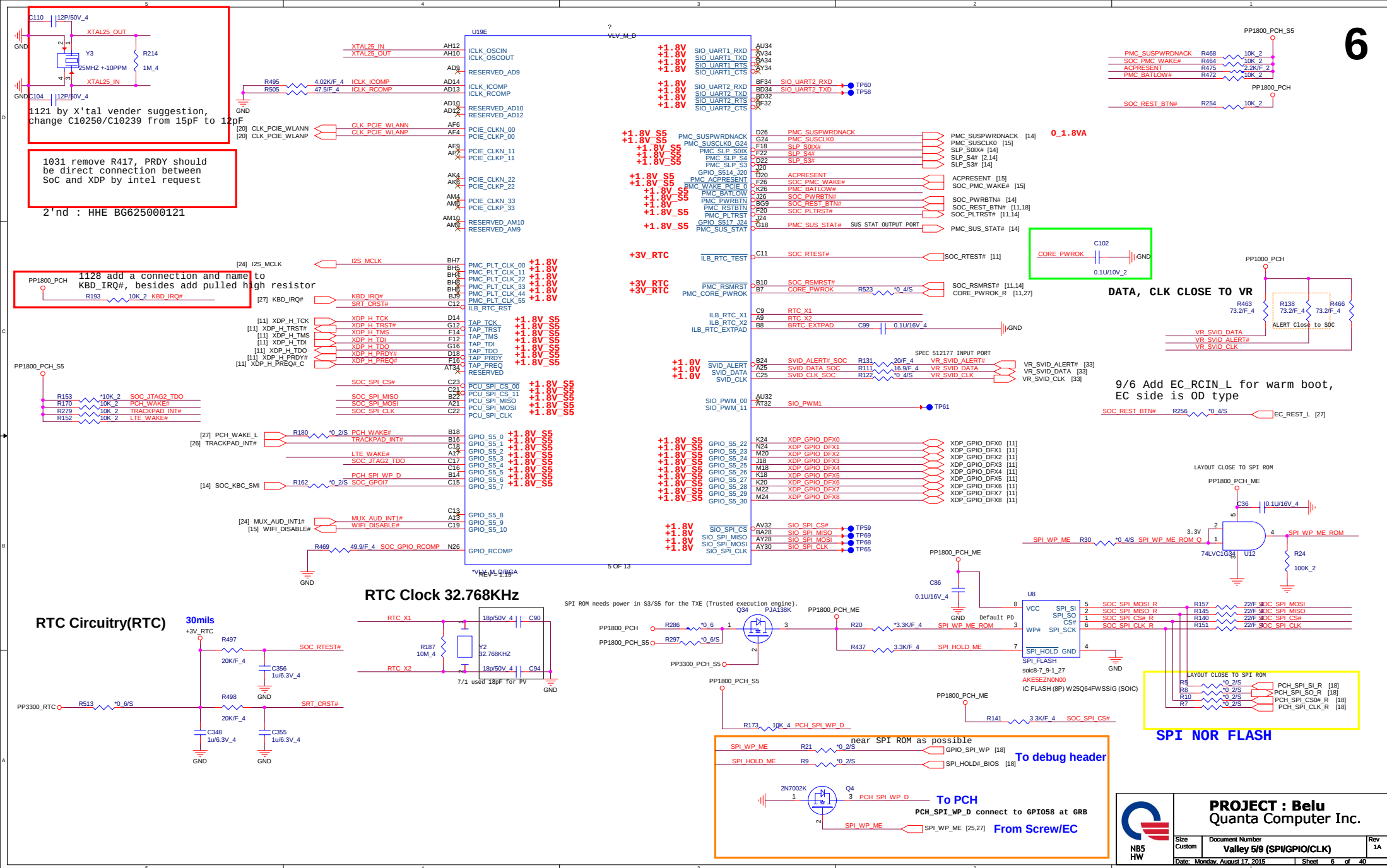
*VLV_M_D/BGA
REV = 1.15

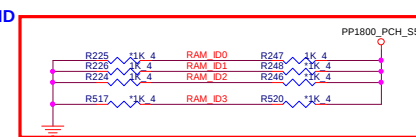
1029 unstuff R10410, using SoC internal PU
1115 stuff R10410 system can't boot if un-stuff R10410 on
proto1.5 board, need intel double confirm before proto2



PROJECT : Belu Quanta Computer Inc.		
Size Custom	Document Number Valley 319 (Display)	Rev 1A
Date: Monday, August 17, 2015		Sheet 4 of 40

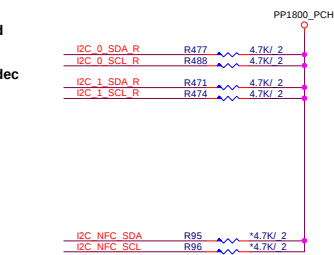
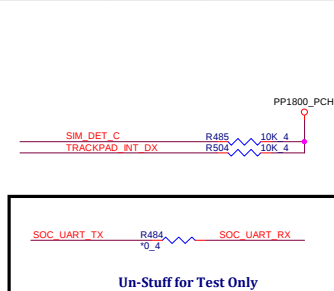
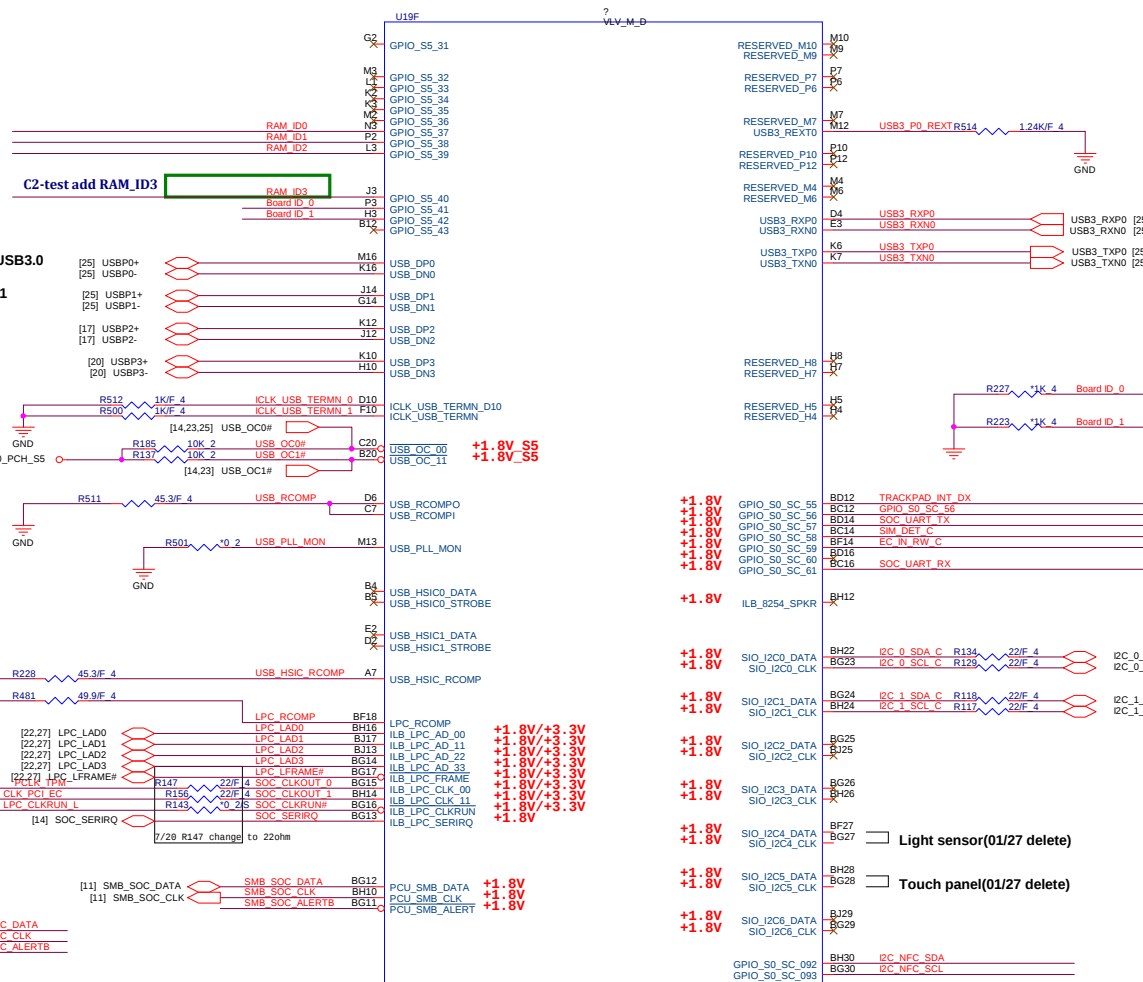




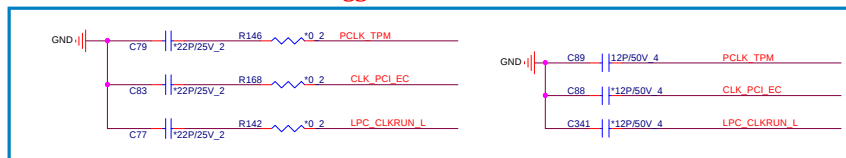


Vender	RAM_ID(3,2,1,0)	TOP B/S PN	Mfr. PN	Channel	Size
Hynix	X001	AKD5JGETW07	H5TC4G63AFR-PBA	2CH	4GB
Elpida	X010	N/A	EDJ4216EFB6-GNL-F	2CH	4GB
SAMSUNG	X011	AKD5PGST508	K4B4G1646Q-HYK0	2CH	4GB
Micron E die	X000	AKD5JGSL06	MT41K256M16HA-125:E	2CH	4GB
Elpida	X110	AKD5JGSL410	EDJ4216EFB6-GNL-F	1CH	2GB
Hynix	X101	AKD5JGETW07	H5TC4G63AFR-PBA	1CH	2GB
SAMSUNG	X111	AKD5PGST508	K4B4G1646Q-HYK0	1CH	2GB
Micron Edie	X100	AKD5JGSL06	MT41K256M16HA-125:E	1CH	2GB
Micron N die	1100	AKD5PGSL18	MT41K256M16LY-107:N	1CH	2GB
Micron N die	1000	AKD5PGSL18	MT41K256M16LY-107:N	2CH	4GB

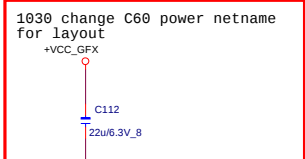
Freq. 1600MHz

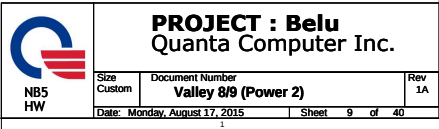


2014_0528_RF suggest

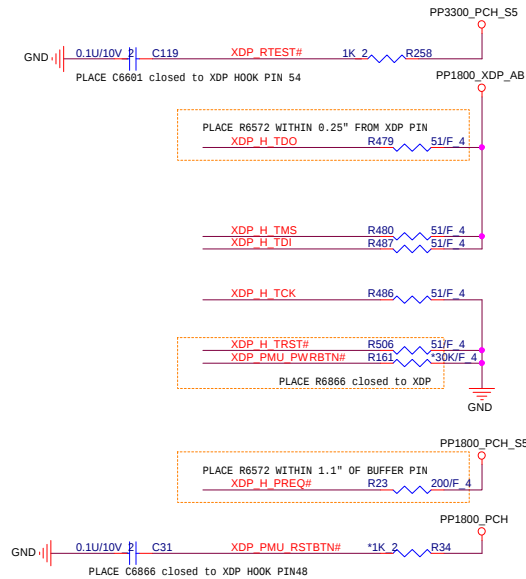
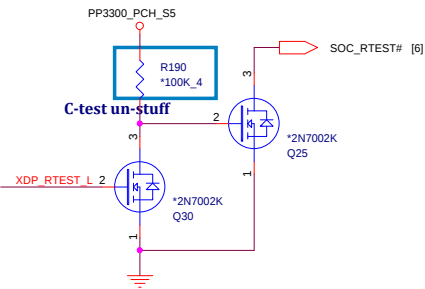
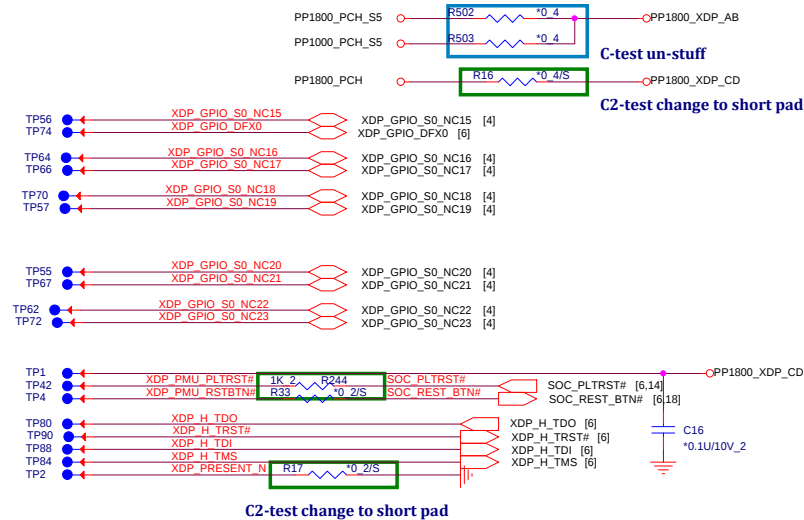
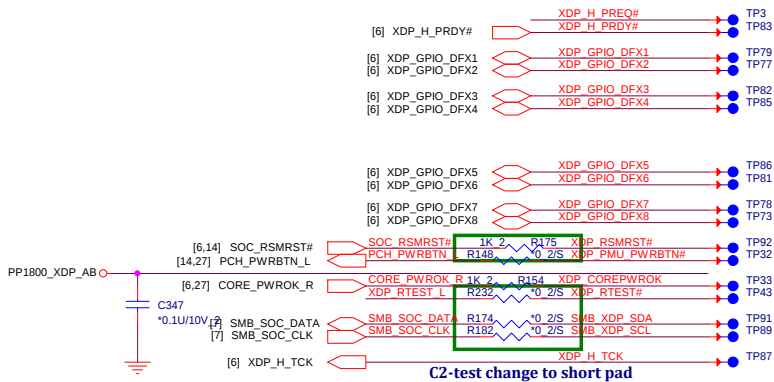


[33] VSS_AXG_SENSE

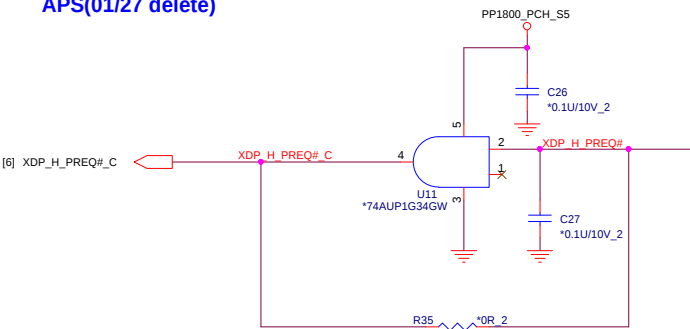




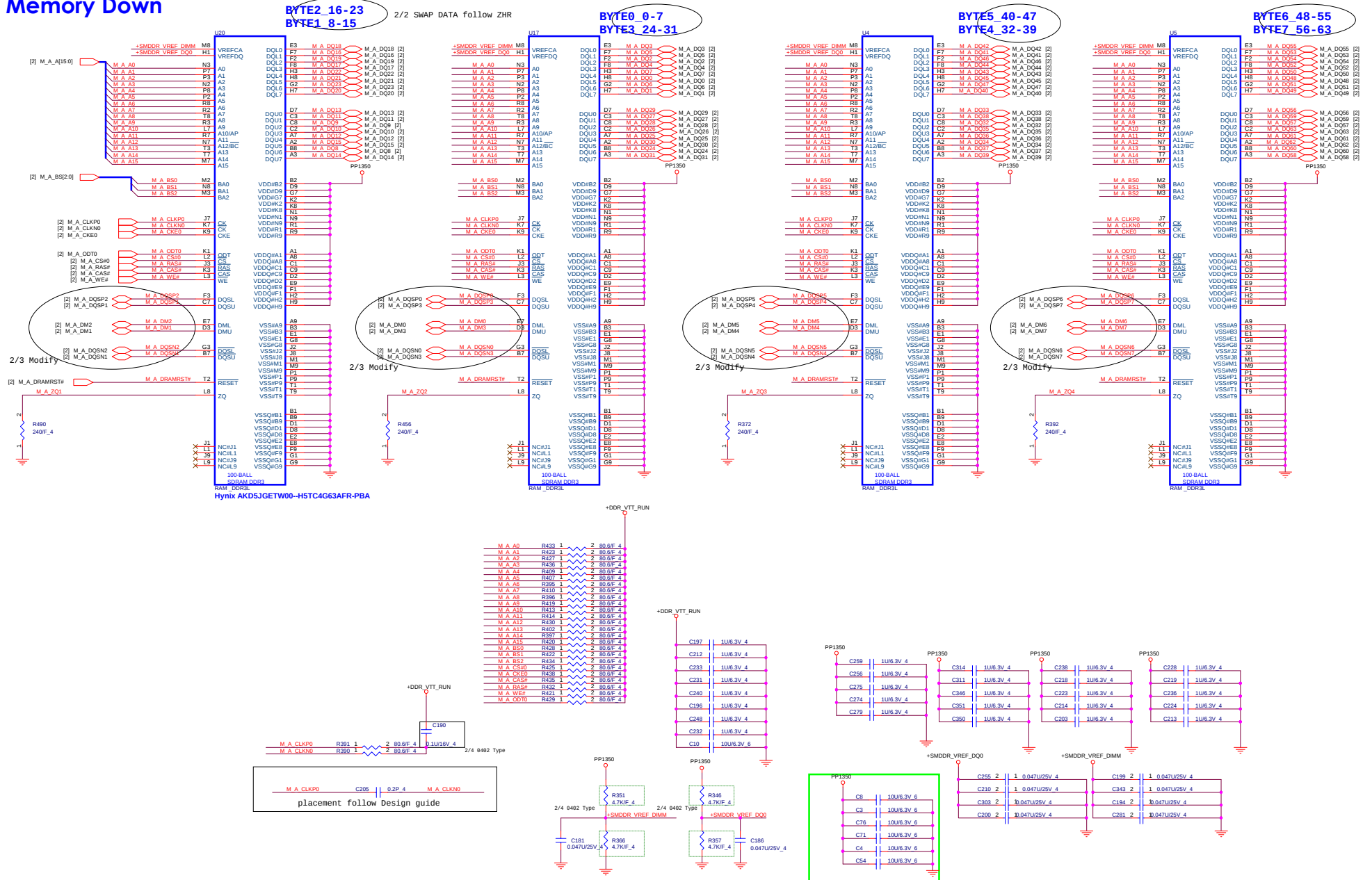




APS(01/27 delete)

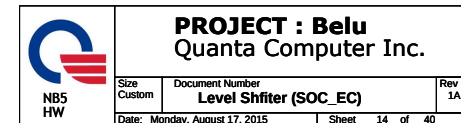
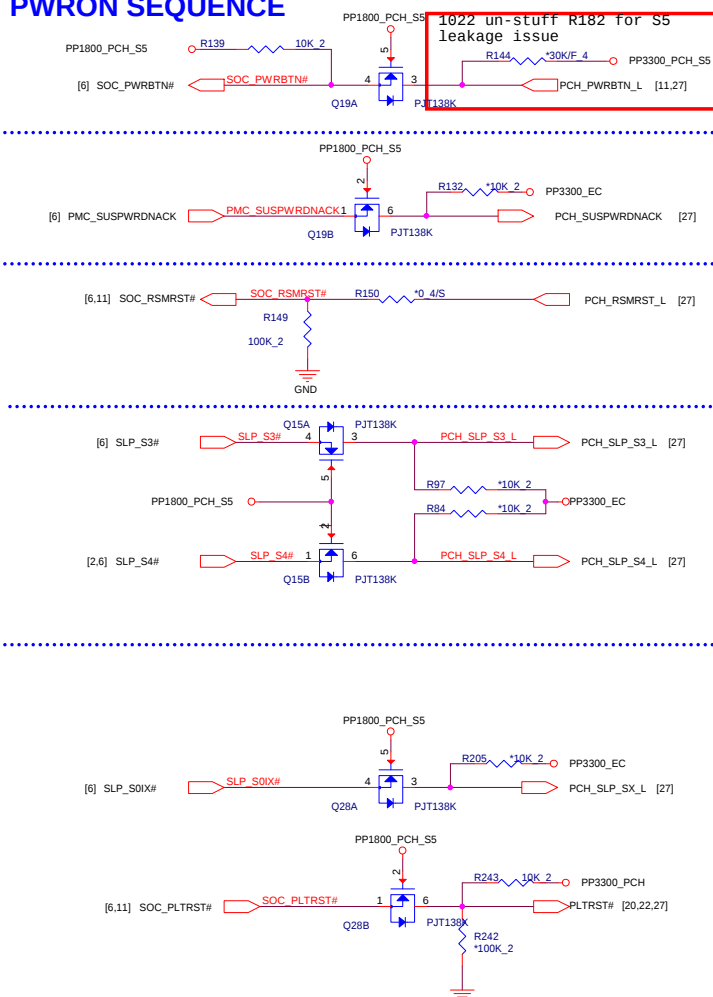


DDR3 CHA Memory Down



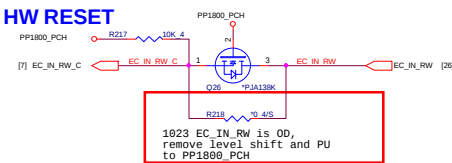
**0220 remove SPI_SIO Interface,
Q35,Q36,Q37,Q44,R486,R484,R485,
R483,R426,R429,R427,R428**

**0220 remove SPI_SIO Interface,
Q35,Q36,Q37,Q44,R486,R484,R485,
R483,R426,R429,R427,R428**

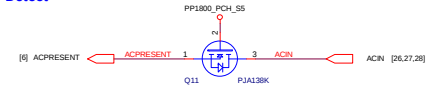


Stuffing for notifying EC

HW RESET



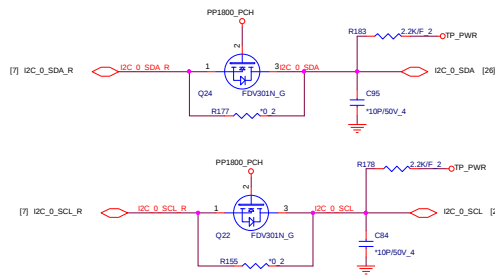
AC Detect



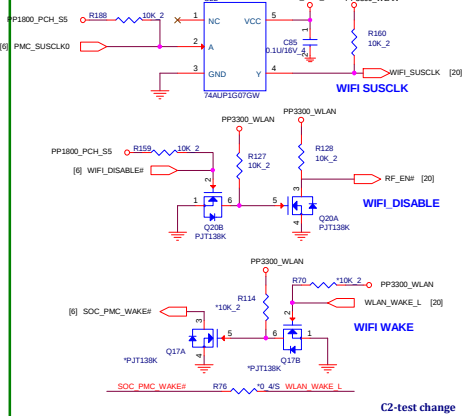
SATA

1025 Delete complete SSD(connector and caps)

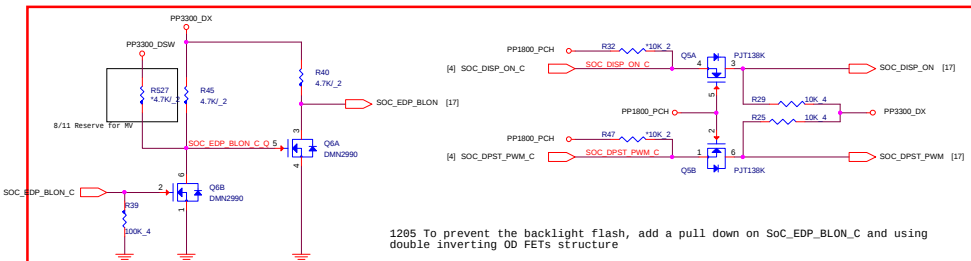
Track Pad



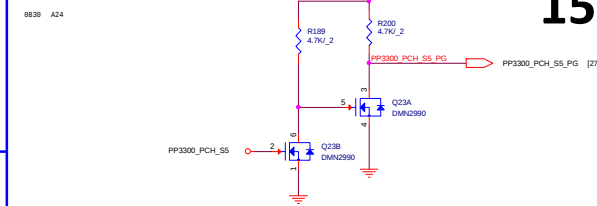
WIFI



eDP control pin

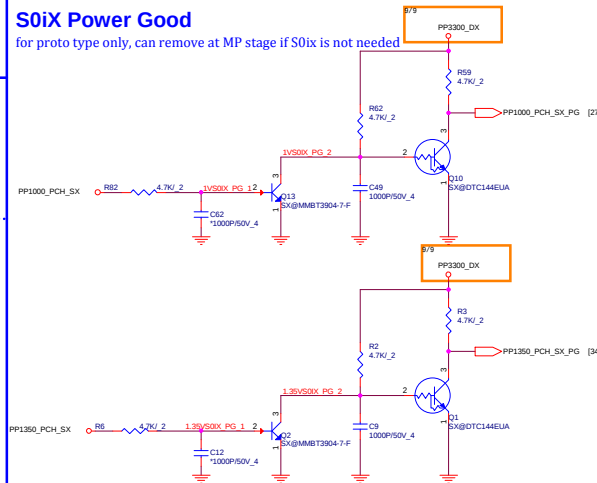


S5 Power Good(+3V_S5)

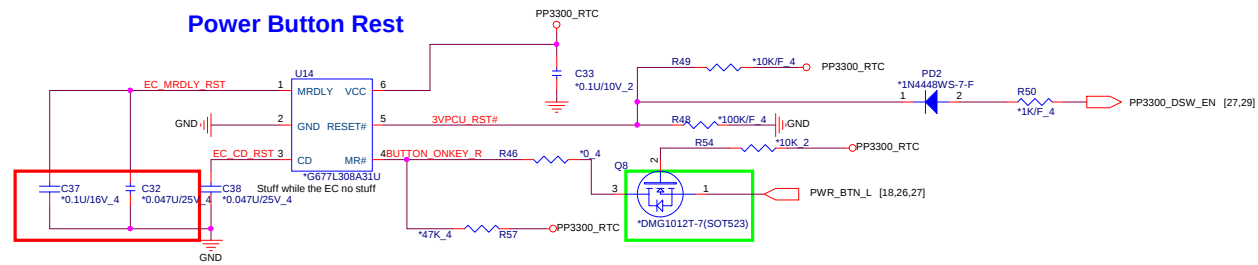


S0iX Power Good

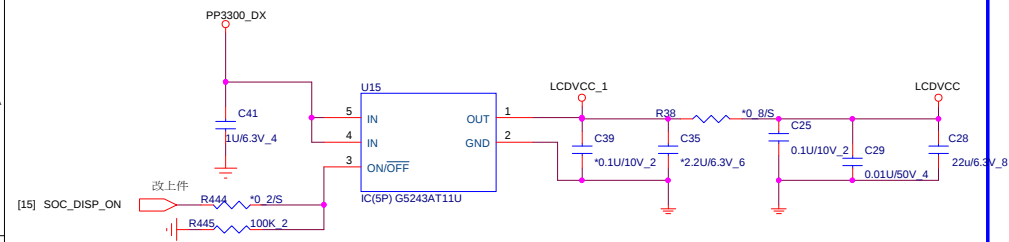
for proto type only, can remove at MP stage if S0ix is not needed



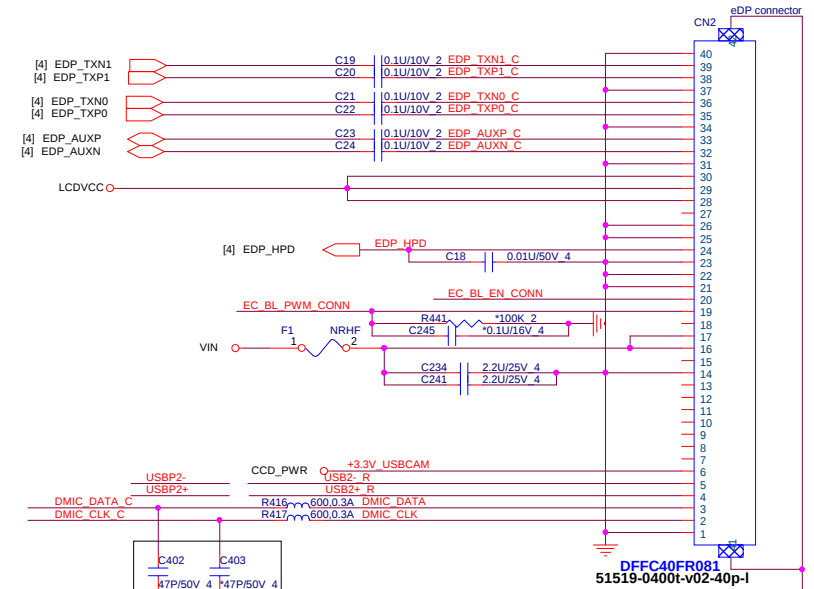
15



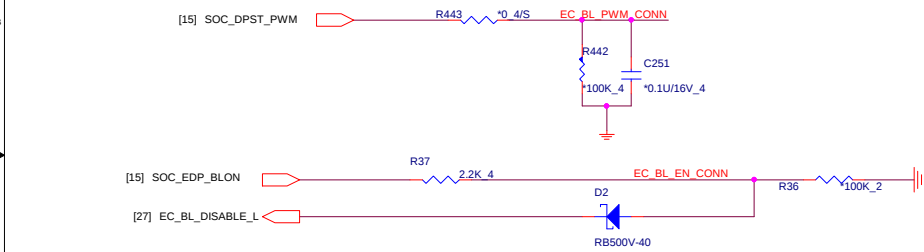
eDP Power(VGA)



eDP(VGA)

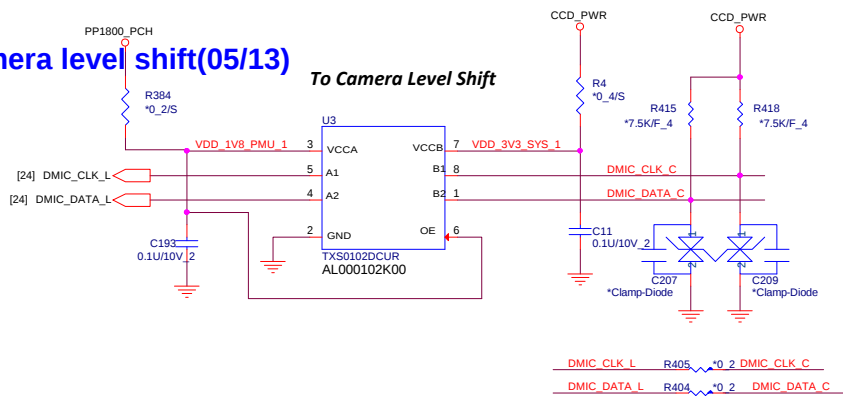


eDP panel control(VGA)

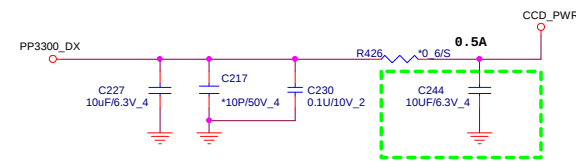


Camera level shift(05/13)

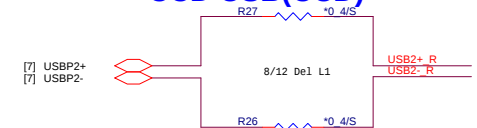
To Camera Level Shift



CCD power(CCD)



CCD USB(CCD)



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Quanta Computer Inc.

Size Custom	Document Number EDP/CCD/DMIC/TS	Rev 1A
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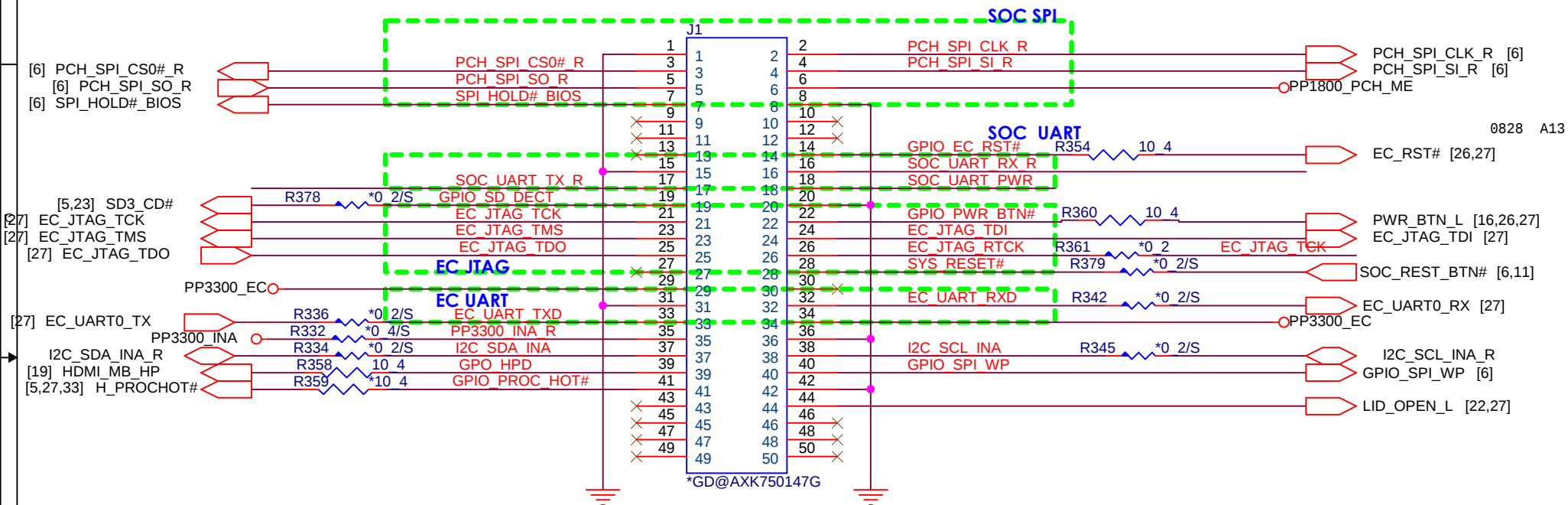
GOOGLE Debug Port(MPC)

50 pin BTB is *MUST*, don't use 42 pin

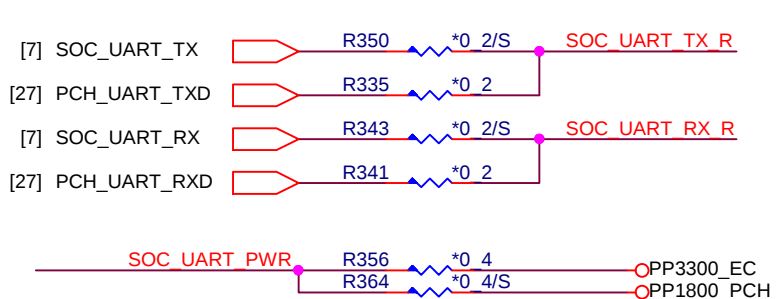
Socket part number AXK750i47G

PIN7	OD	PIN39	OD	PIN49	OD
PIN14	OD	PIN41	OD	PIN50	OD
PIN19	OD	PIN43	OD		
PIN22	OD	PIN44	OD		
PIN28	OD	PIN45	OD		
PIN30	OD	PIN46	OD		
PIN37	OD	PIN47	OD		
PIN38	OD	PIN48	OD		

18

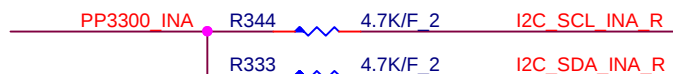


1021 change footprint and PN



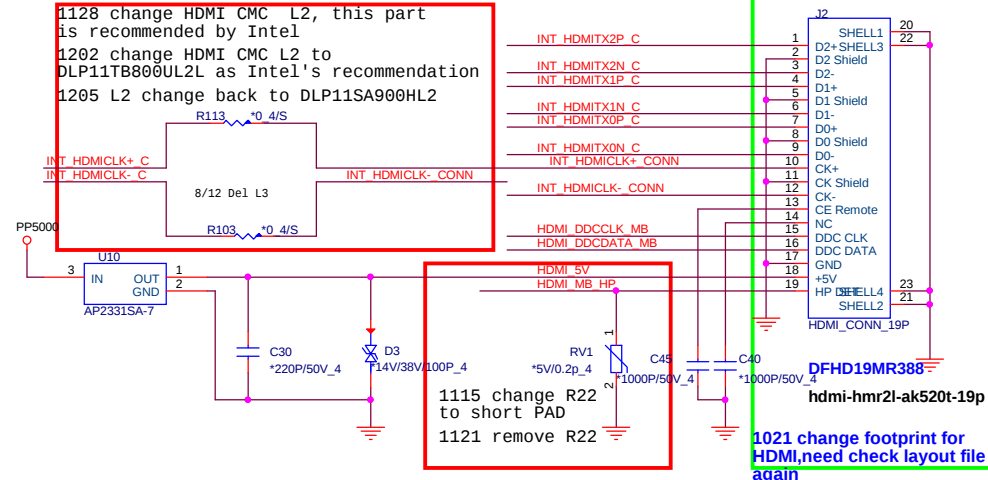
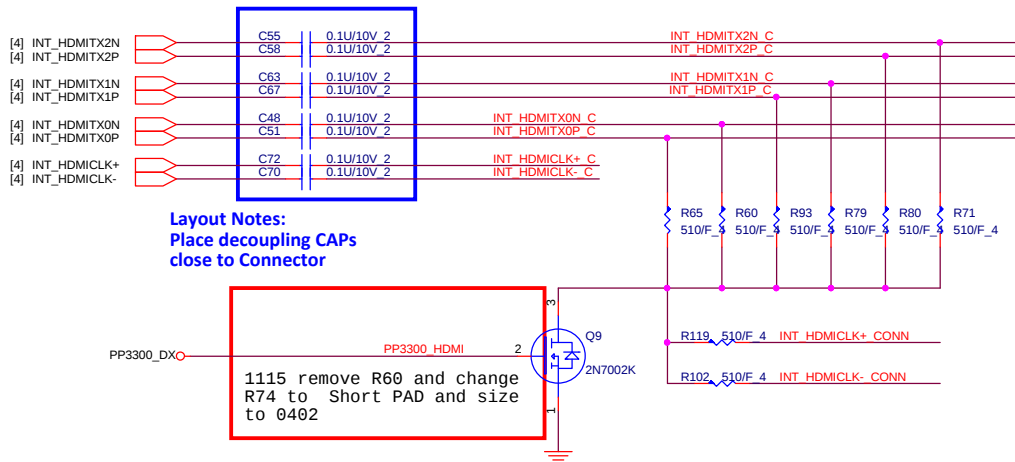
9/6 using optional instead of level shifted, default is from SoC

9/13 add pull up



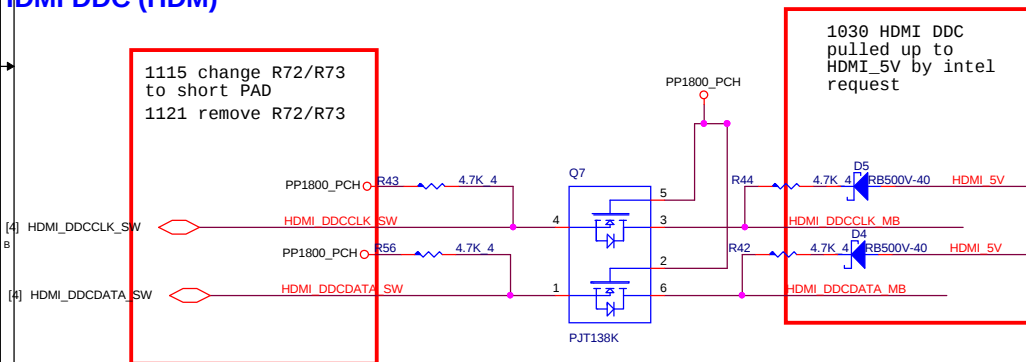
PROJECT : Belu
Quanta Computer Inc.

Size Custom	Document Number Google Debug	Rev 1A
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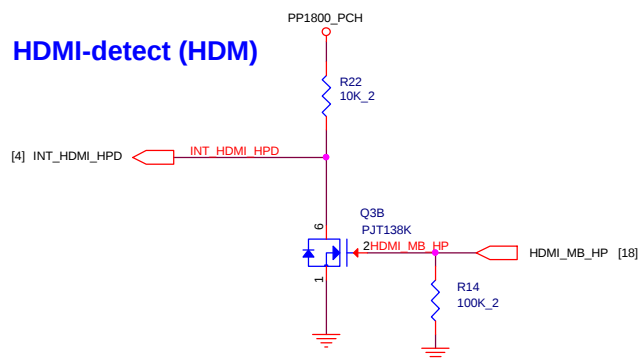


HDMI DDC (HDM)

HDMI DDC (HDM)



HDMI-detect (HDM)

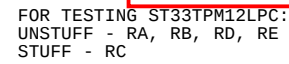




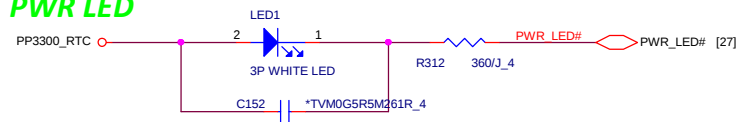
1025 Delete complete SSD(connector and caps)



22

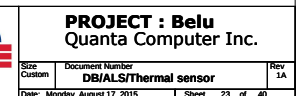


LID SENSOR

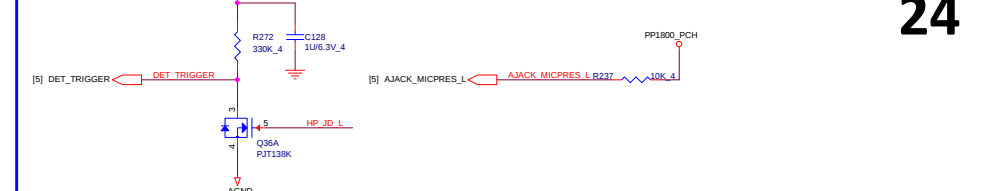


Size Custom	Document Number TPM SLB9655 / LED	Rev 1
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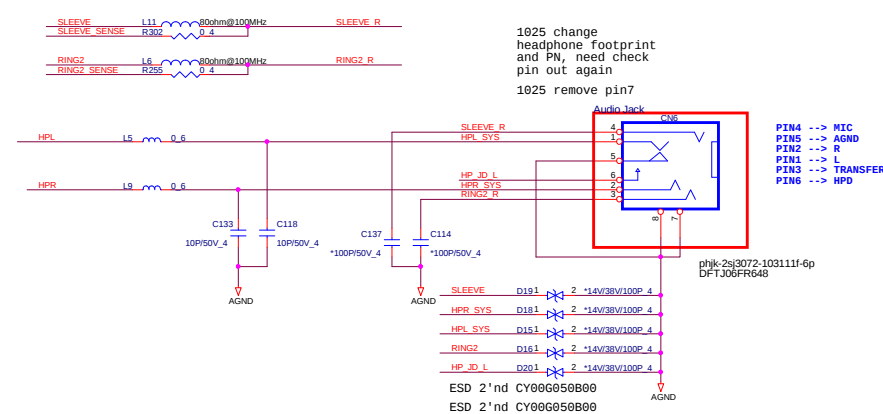
23



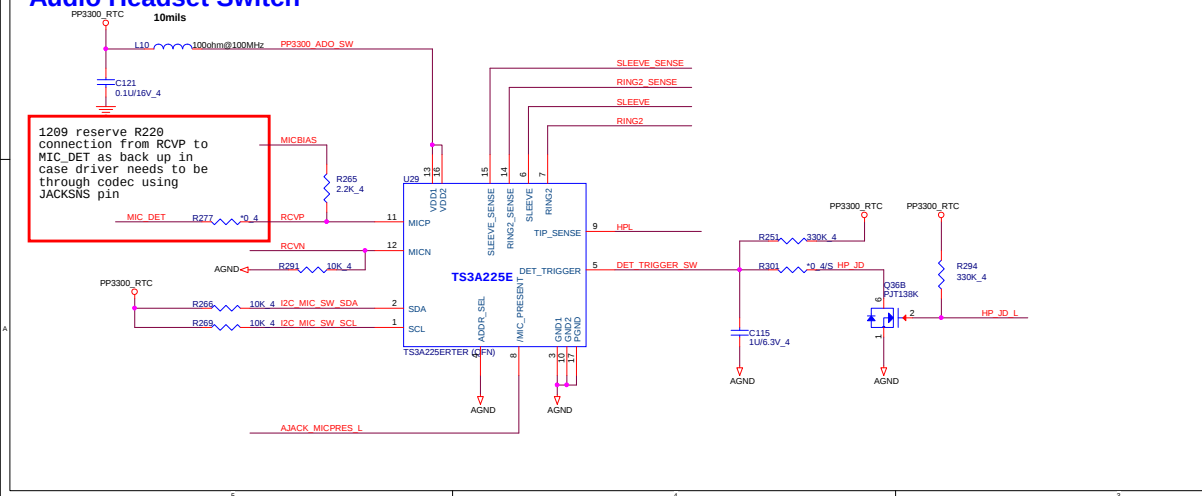
24



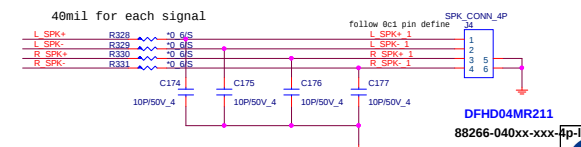
combo jack
Normal open



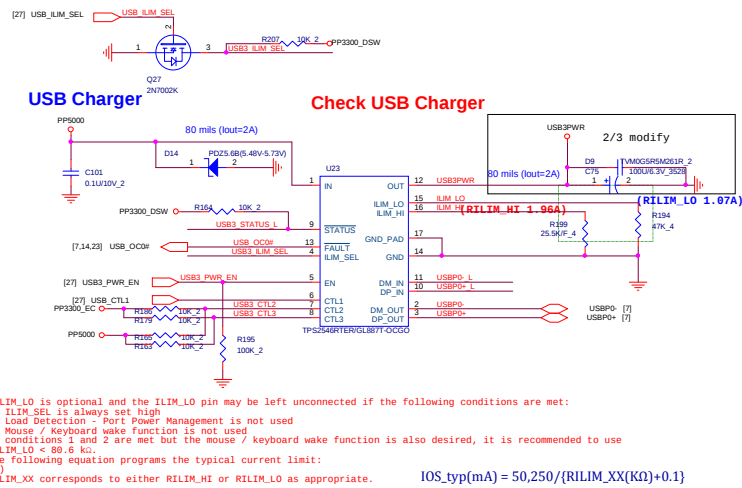
Codec PWR 5V(ADO)

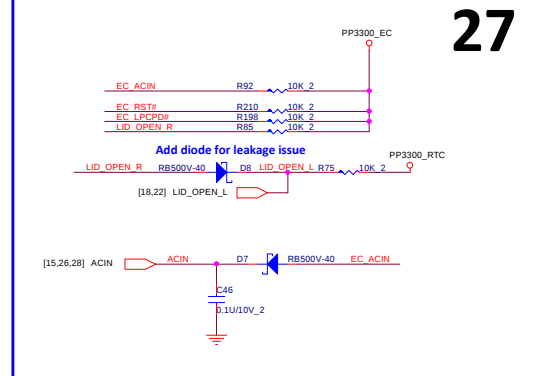
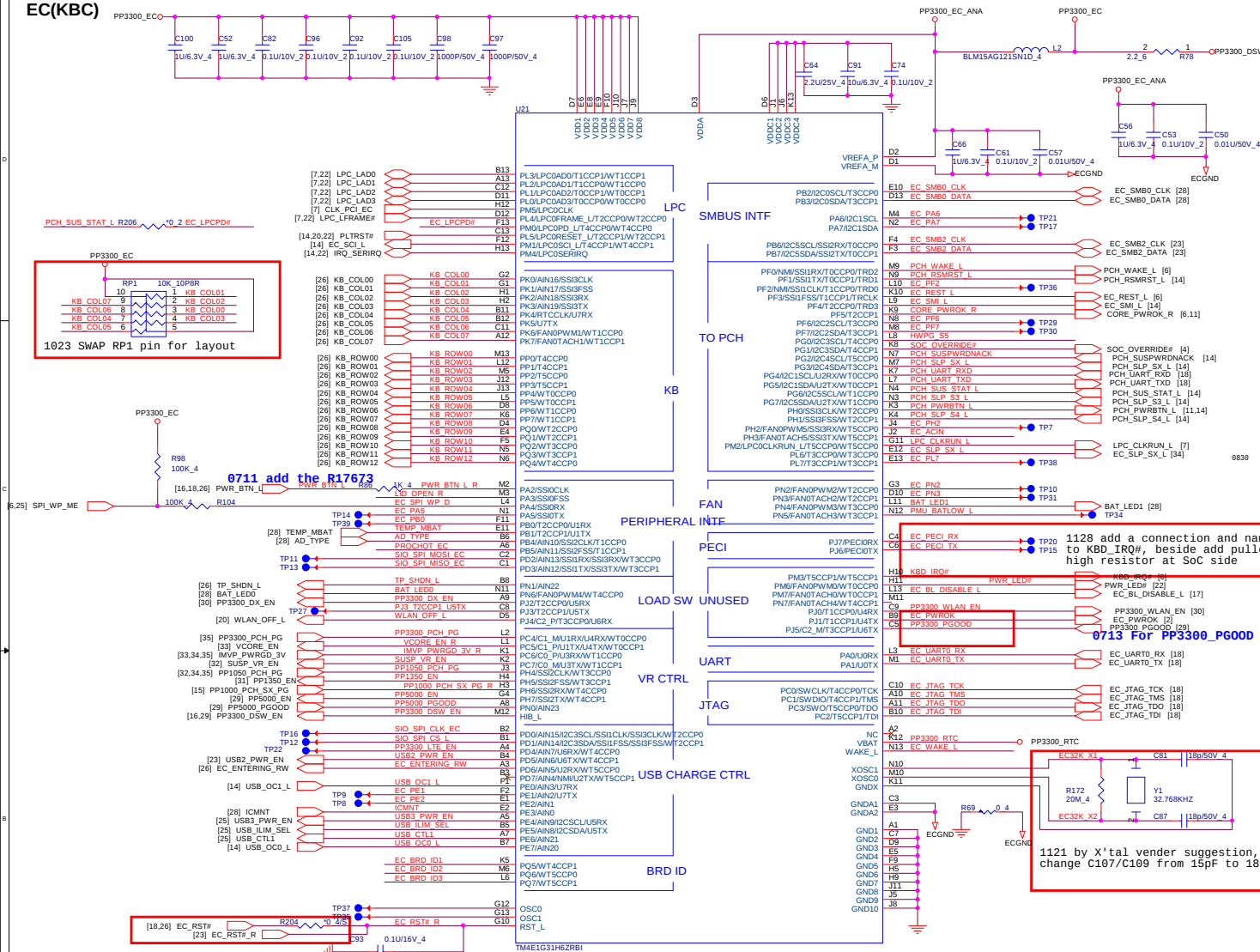


Internal Speaker

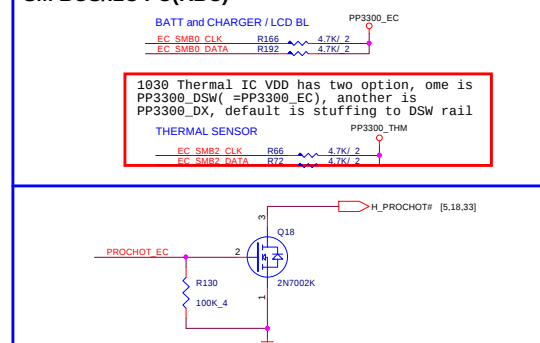


25

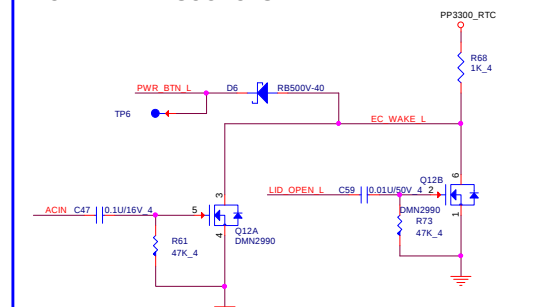




SM BUS/I2C PU(KBC)



EC HIB WAKE SOURCES



SM BUS ARRANGEMENT TABLE

SM Bus 0	BATT and CHARGER
SM Bus 1	NA
SM Bus 2	THERMAL SENSOR

HWPG(KBC)



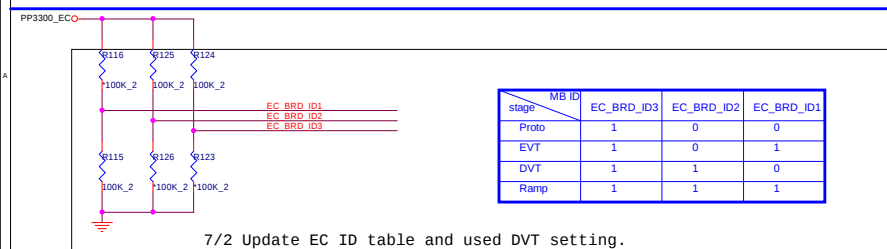
OD pin list

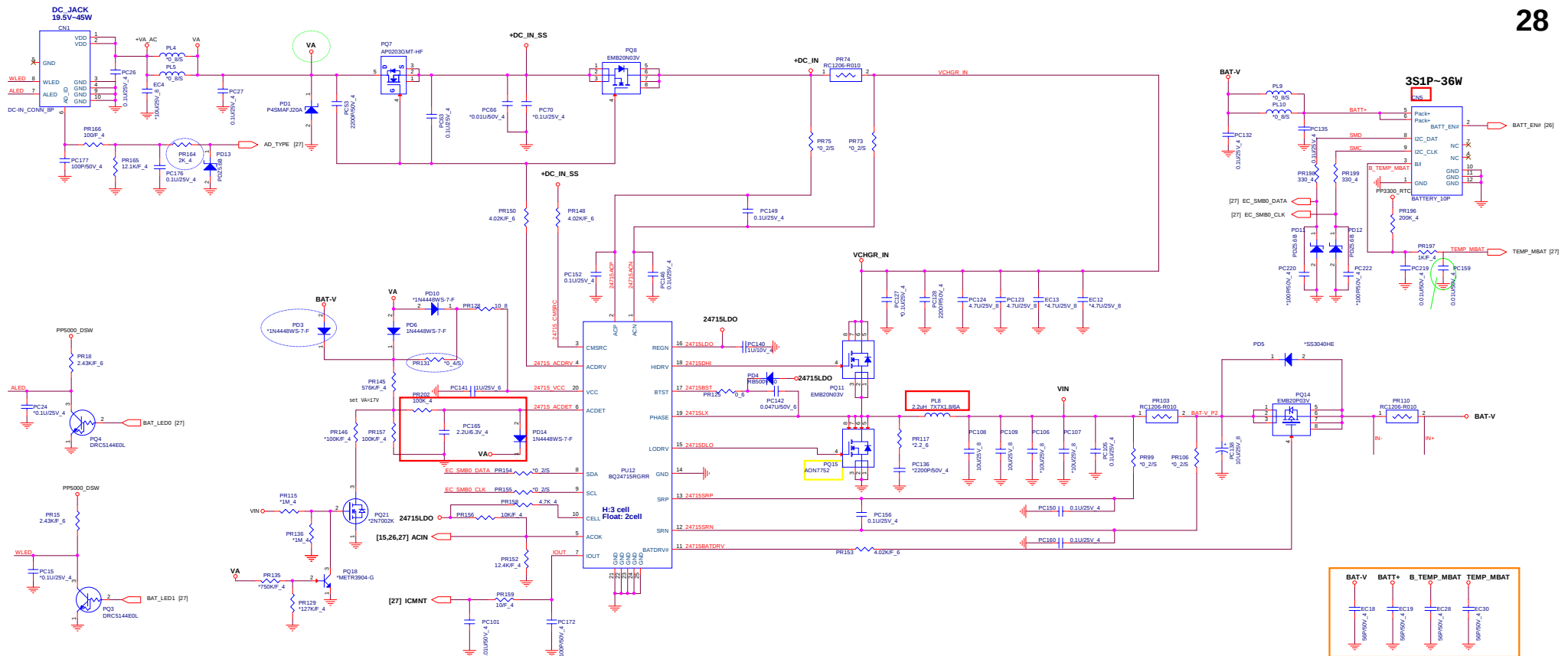
EC_REST_L
BAT_LED0
BAT_LED1
PCH_RSMRST_L
SMBUS
IRQ_SERIRQ
EC_BL_DISABLE_L

For testing only 0714 delete Power BTN

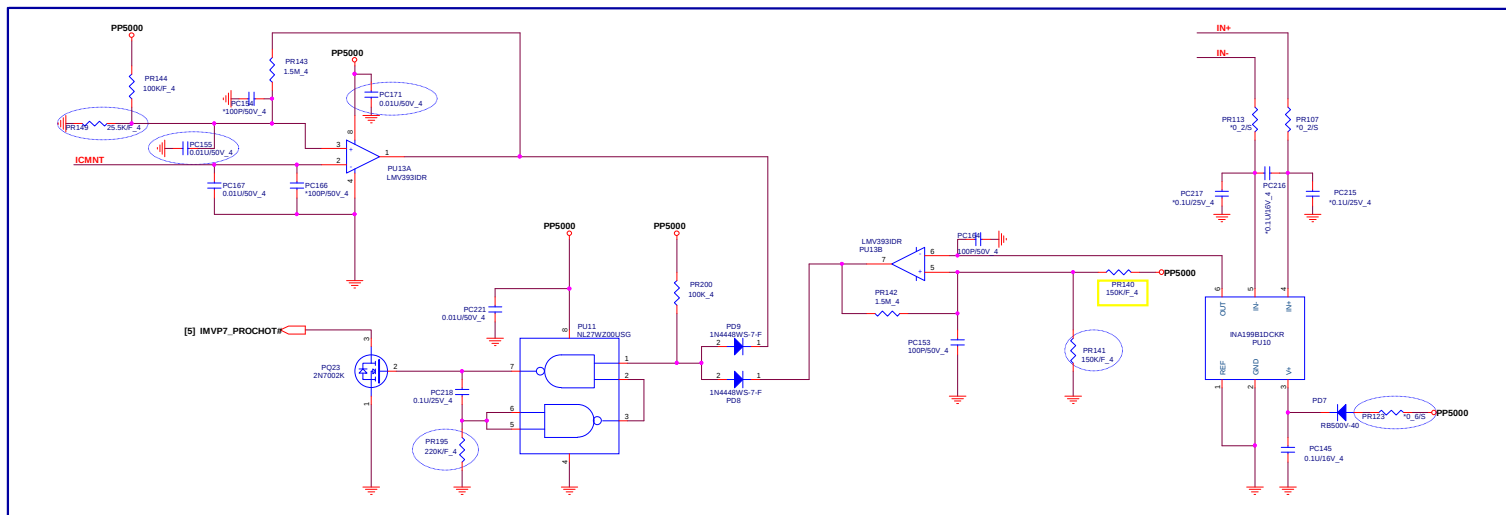


Size Custom	Document Number	Rev 1A
	KBC TI TM4E1G31H6ZRB1	
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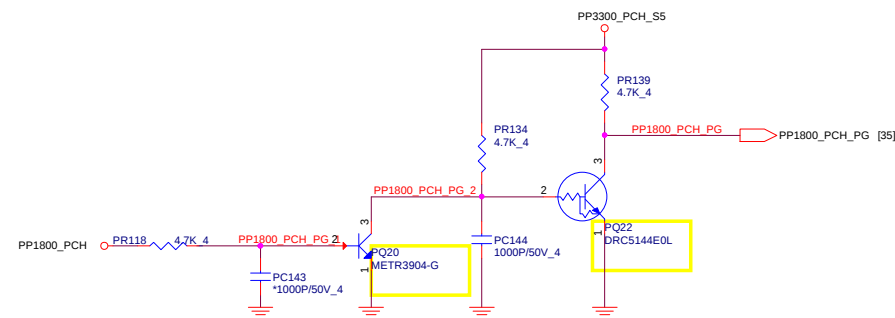
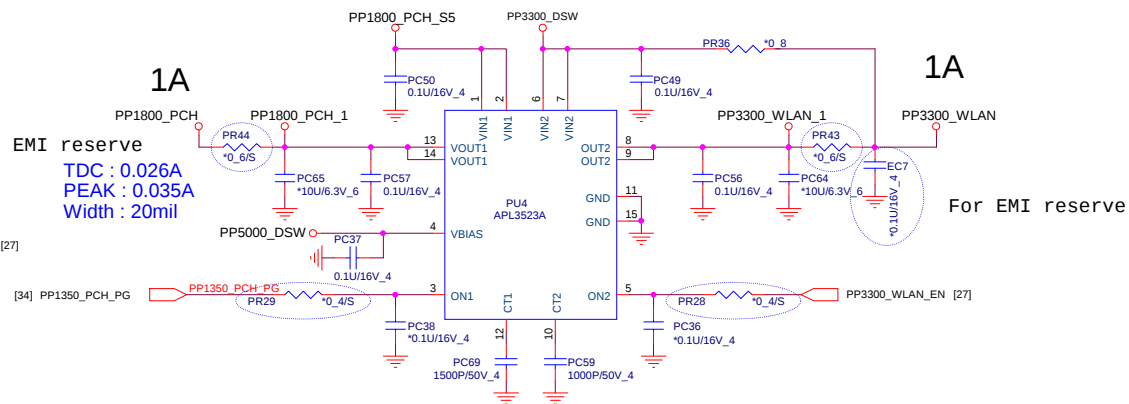
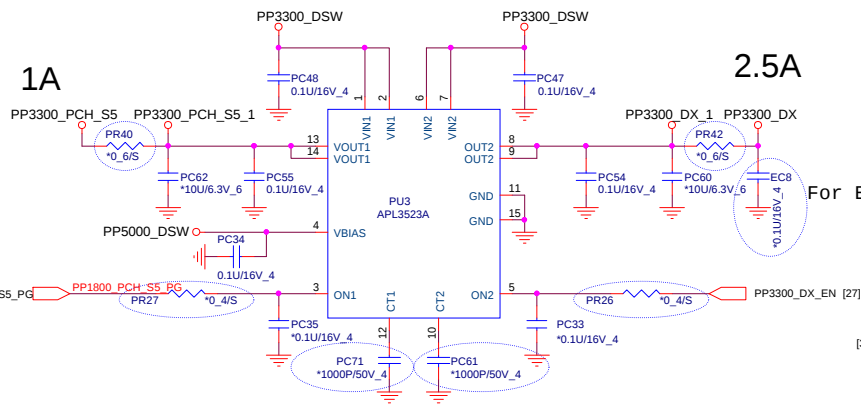


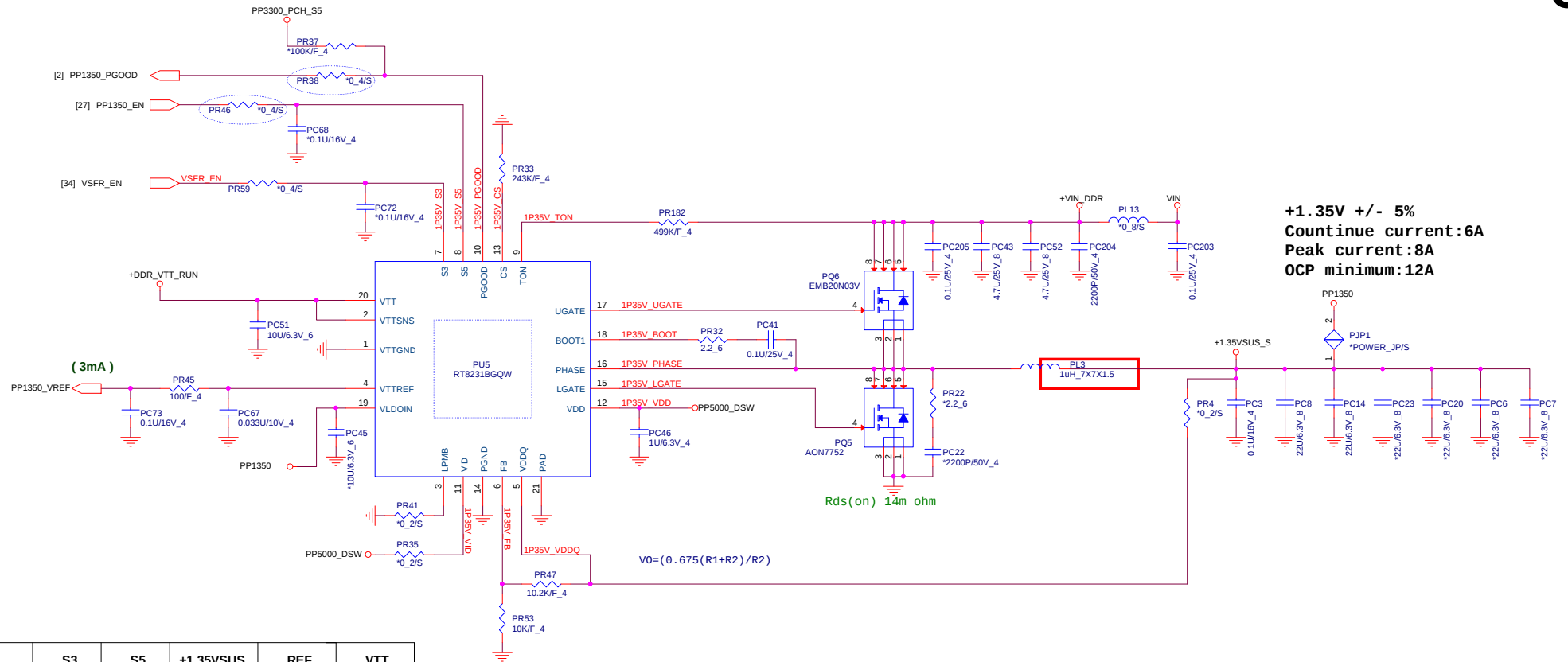


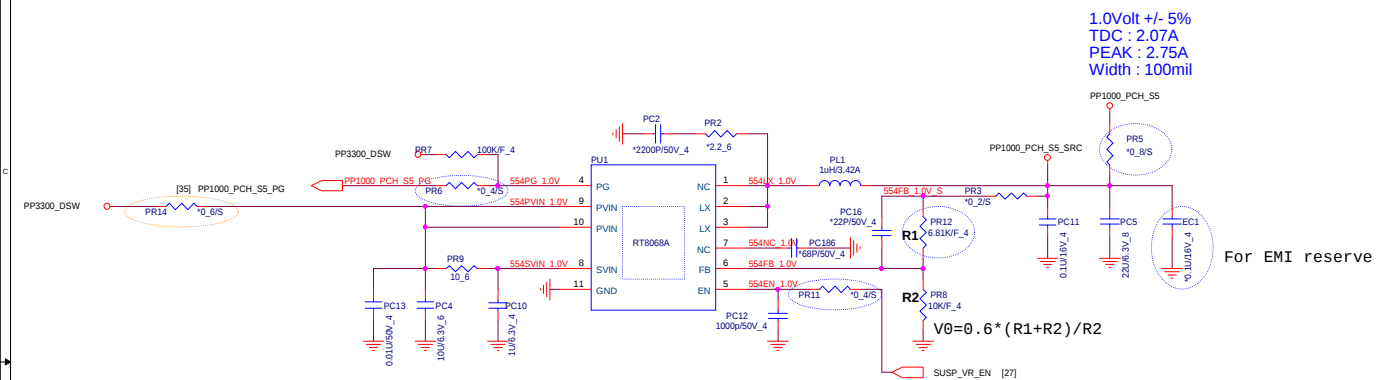
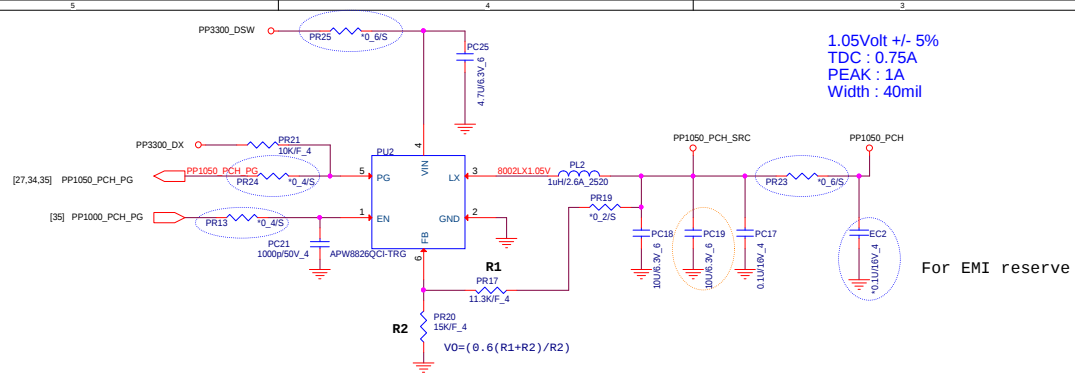
10ms one-shot circuit

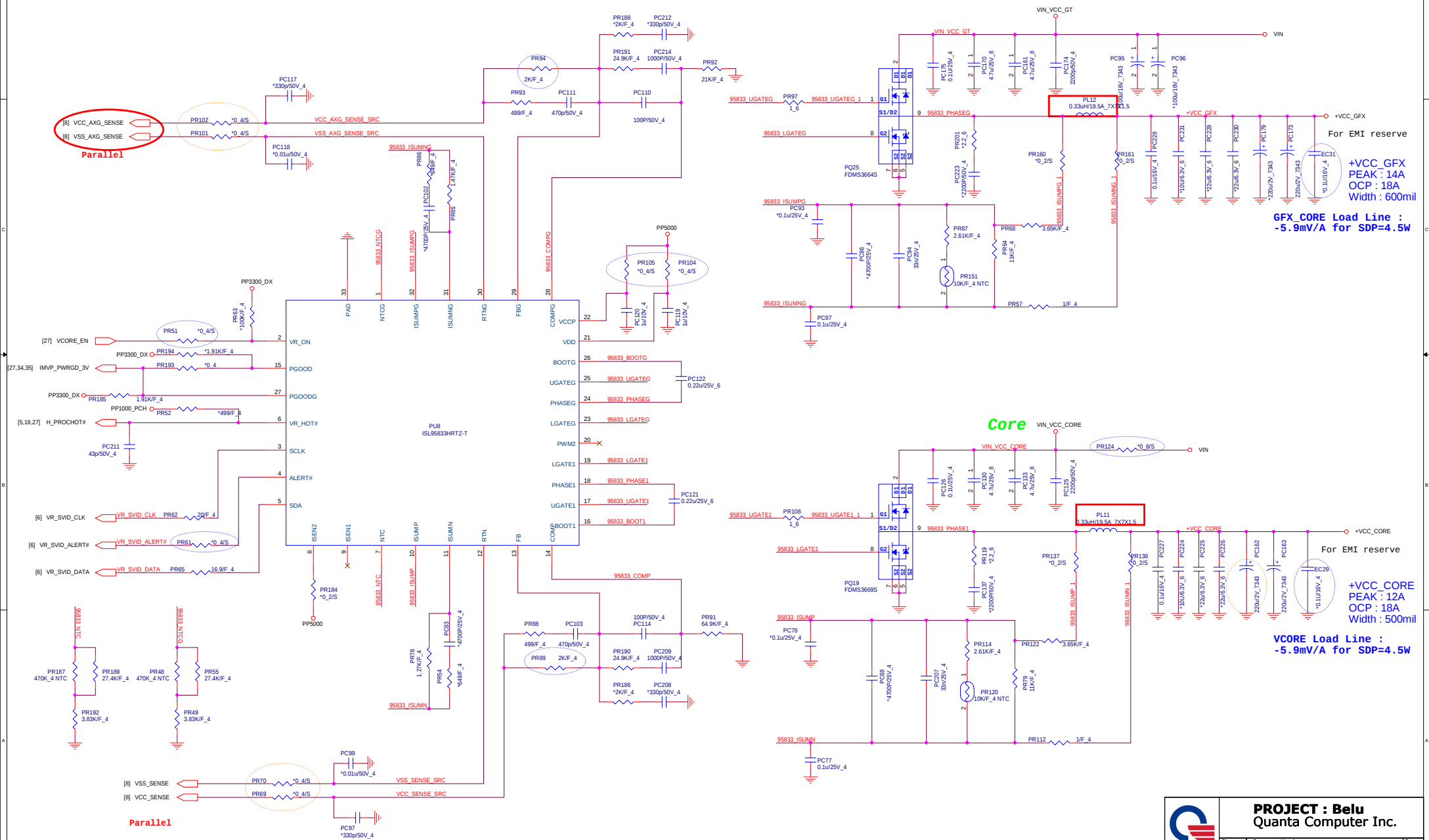


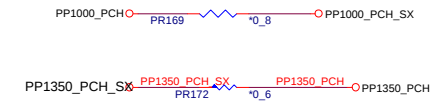




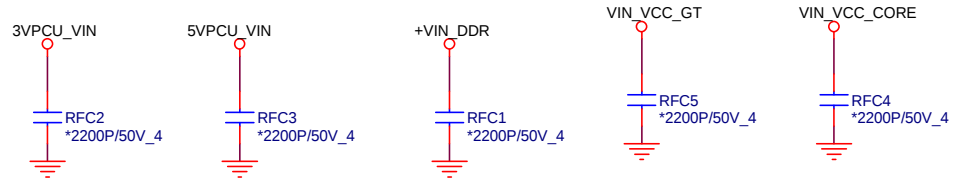












VIN_VCC_CORE VIN_VCC_CORE [33]

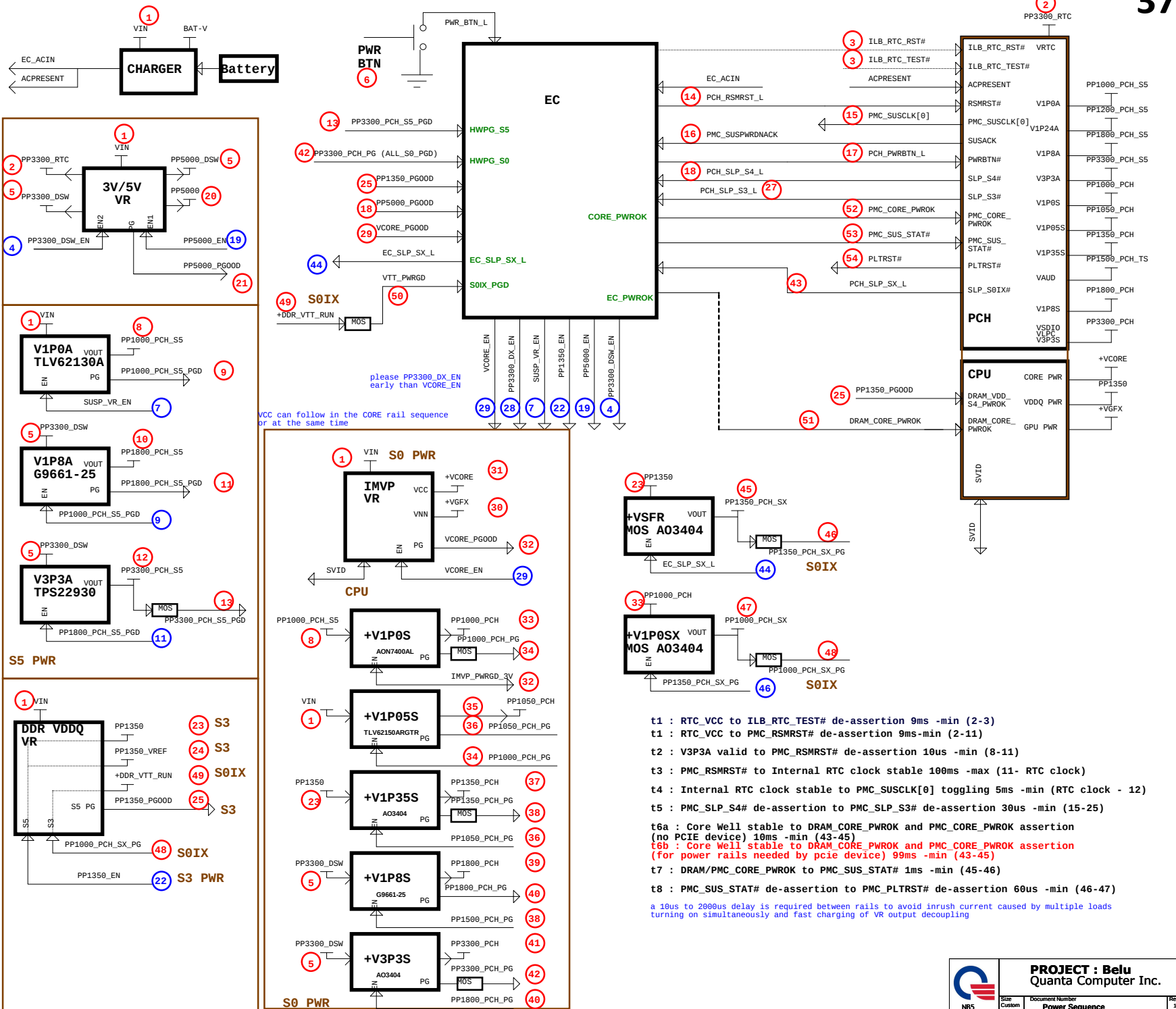
VIN_VCC_GT VIN_VCC_GT [17,25,28,29,31,33,35]



NB5
HW

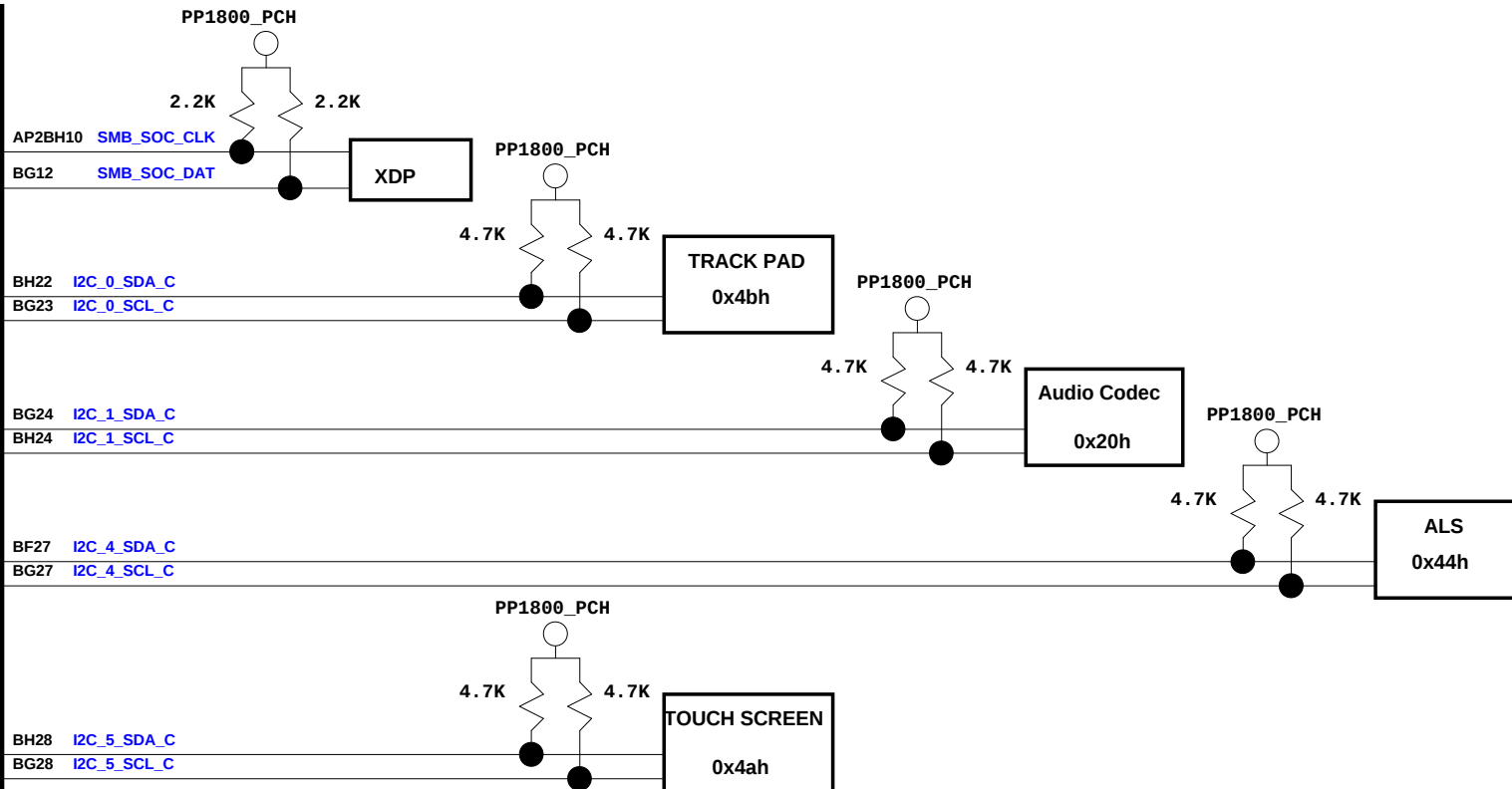
PROJECT : Belu
Quanta Computer Inc.

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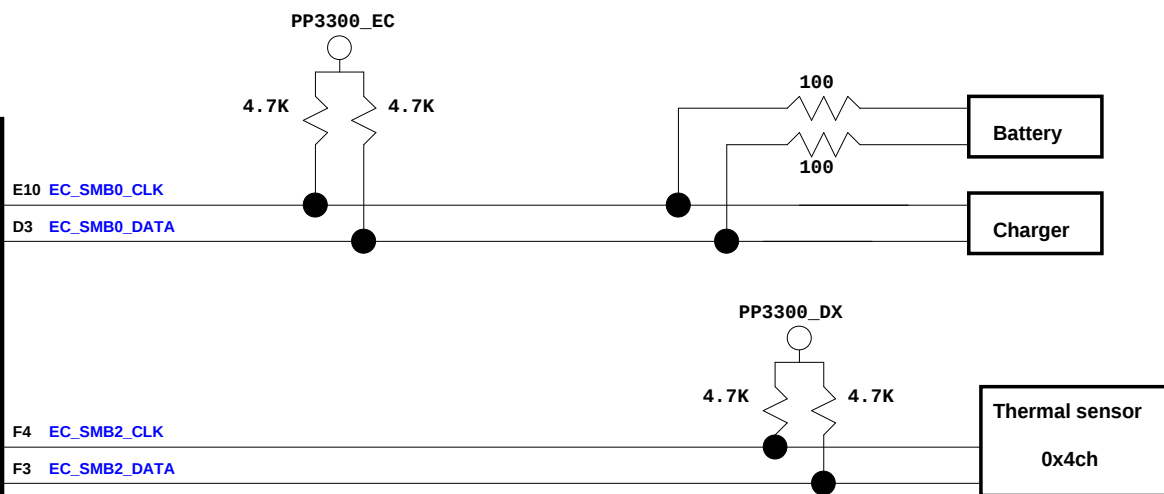


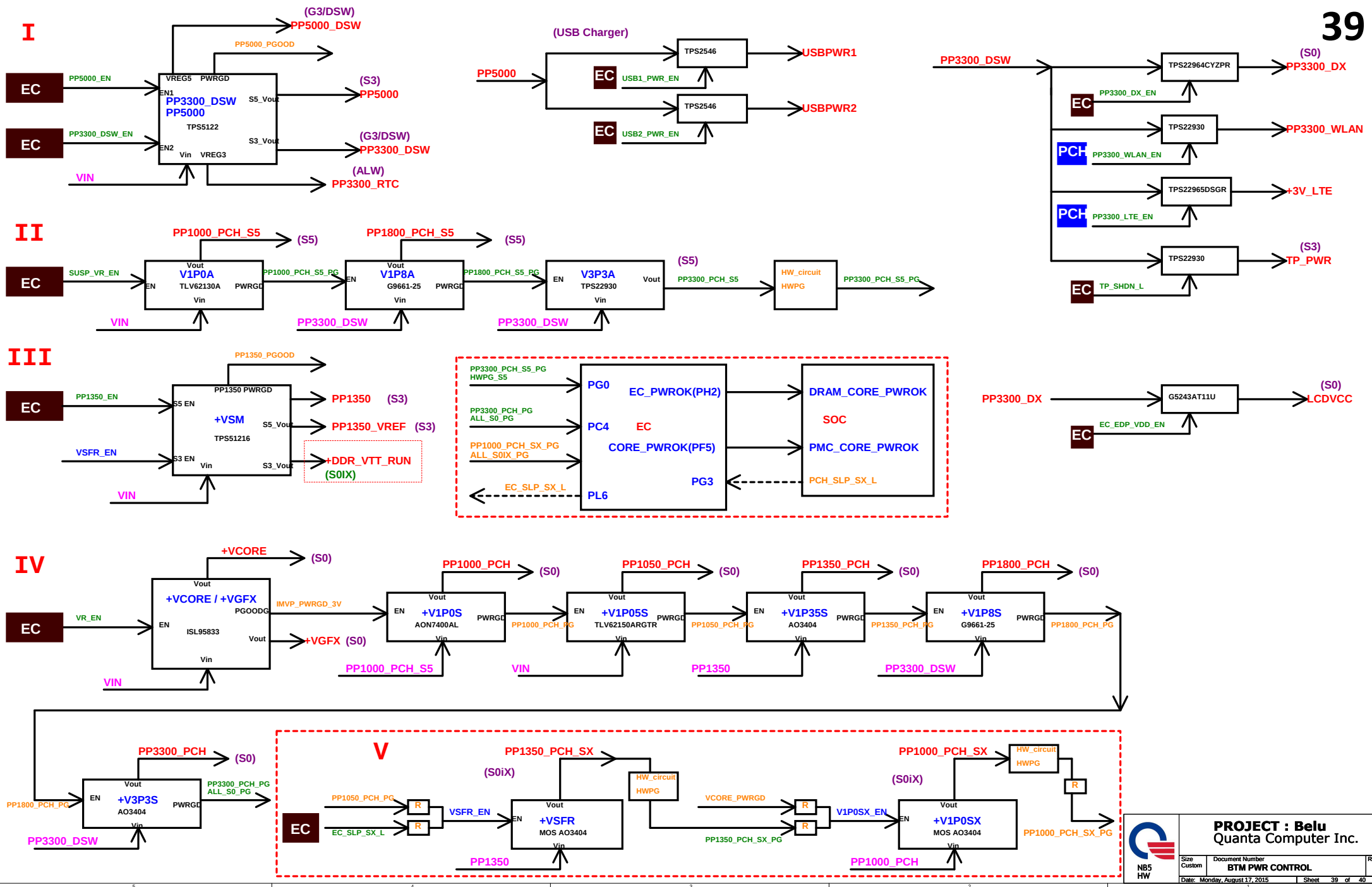
SMBUS
Bay-trail M

I2C



KBC
TI
SMBUS





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Quanta Computer Inc.

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Model	Version	CHANGE LIST	40
BCX	1A	18/21 801 Change P08 VCC, CLK, PS (Page 28) 802 Change P04 VCC, PS (Page 28) 803 Change P02A From 500uF, 4 to 100uF, 4 (Page 32) 804 Remove L0V, P017, Mount P021 (Page 34) 805 Remove L0V, P022, Mount P021 (Page 34) 18/14 806 Change U11 V055 power switch footprint to u023-5 (Page 17) 807 unstuff P028 due to PP0280_P0202 (P08) is 5V tolerant input pin (Page 29) 18/16 808 Change P21 From 00F0200007 to 00F0200000 (Page 28) 18/17 809 Change C126 From 100uF, 3V, 8 to 100uF, 2V, 5 due to height limit (Page 24) 810 Change R025-A, R026, R027, R028 (Page 24) 811 Change R025-A to 8.2 to 8.2, remove R027, R028, Mount R025-A, R026, R027, R028 (Page 24) 812 Change R025-A to 8.2 to 8.2, remove R027, R028, Mount R025-A, R026, R027, R028 (Page 24) 18/18 813 Correct R025 Straps, mount R025 and dismount R024 (Page 4) 814 Add R025-A, connect U12 pin 4 AL25V to W_PROG007 (Page 5, 21) 815 Change V1 From 0023770020 to 0023770011 due to height limit, change C01, C02 from 10pF to 10pF (Page 6) 816 Add R024, R025, 8.2 ohm 0.5 to 8.2 ohm 0.5 for P01, P02, P03, P04, P05, P06, P07, P08, P09, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100, P101, P102, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P117, P118, P119, P120, P121, P122, P123, P124, P125, P126, P127, P128, P129, P130, P131, P132, P133, P134, P135, P136, P137, P138, P139, P140, P141, P142, P143, P144, P145, P146, P147, P148, P149, P150, P151, P152, P153, P154, P155, P156, P157, P158, P159, P160, P161, P162, P163, P164, P165, P166, P167, P168, P169, P170, P171, P172, P173, P174, P175, P176, 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