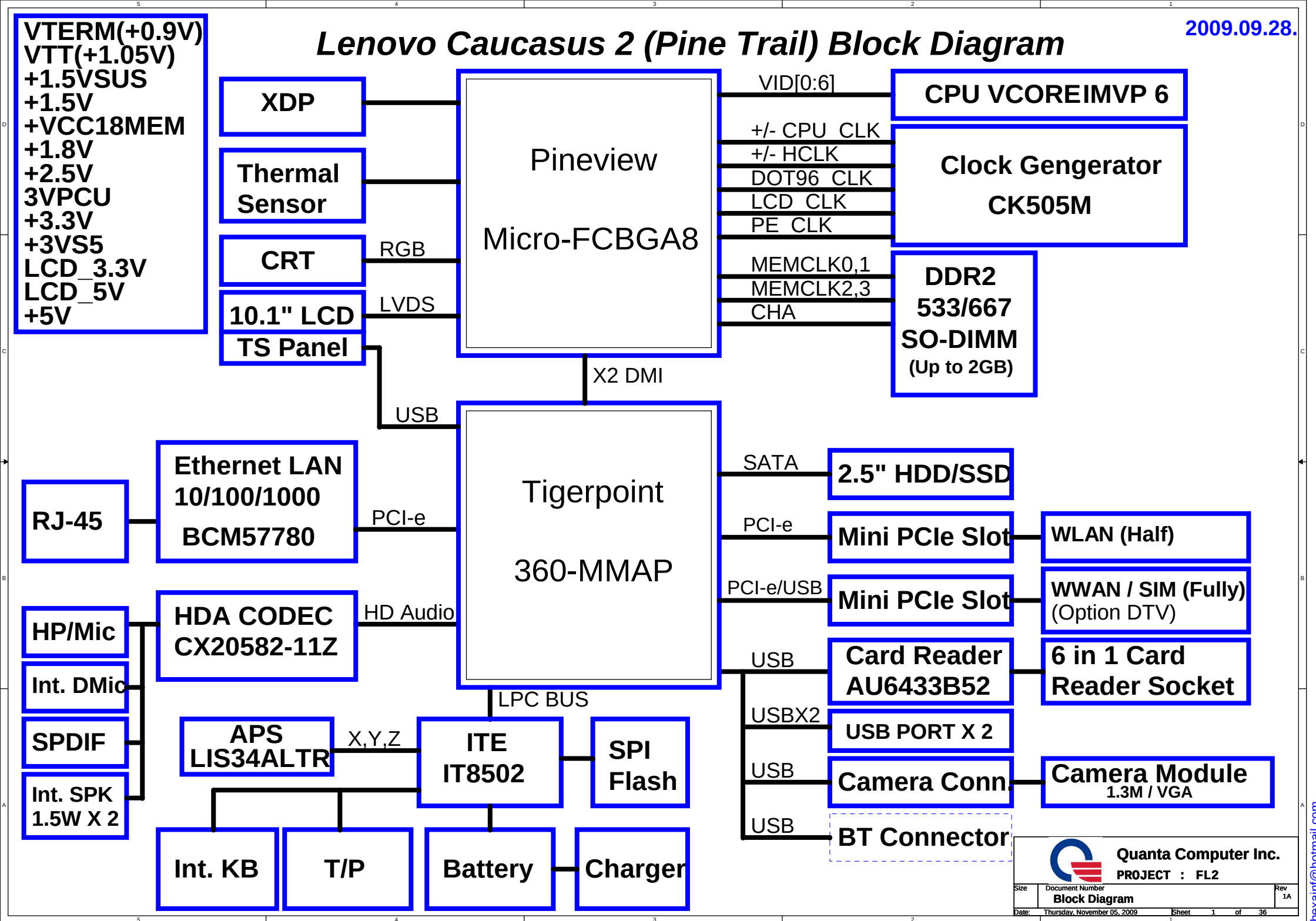
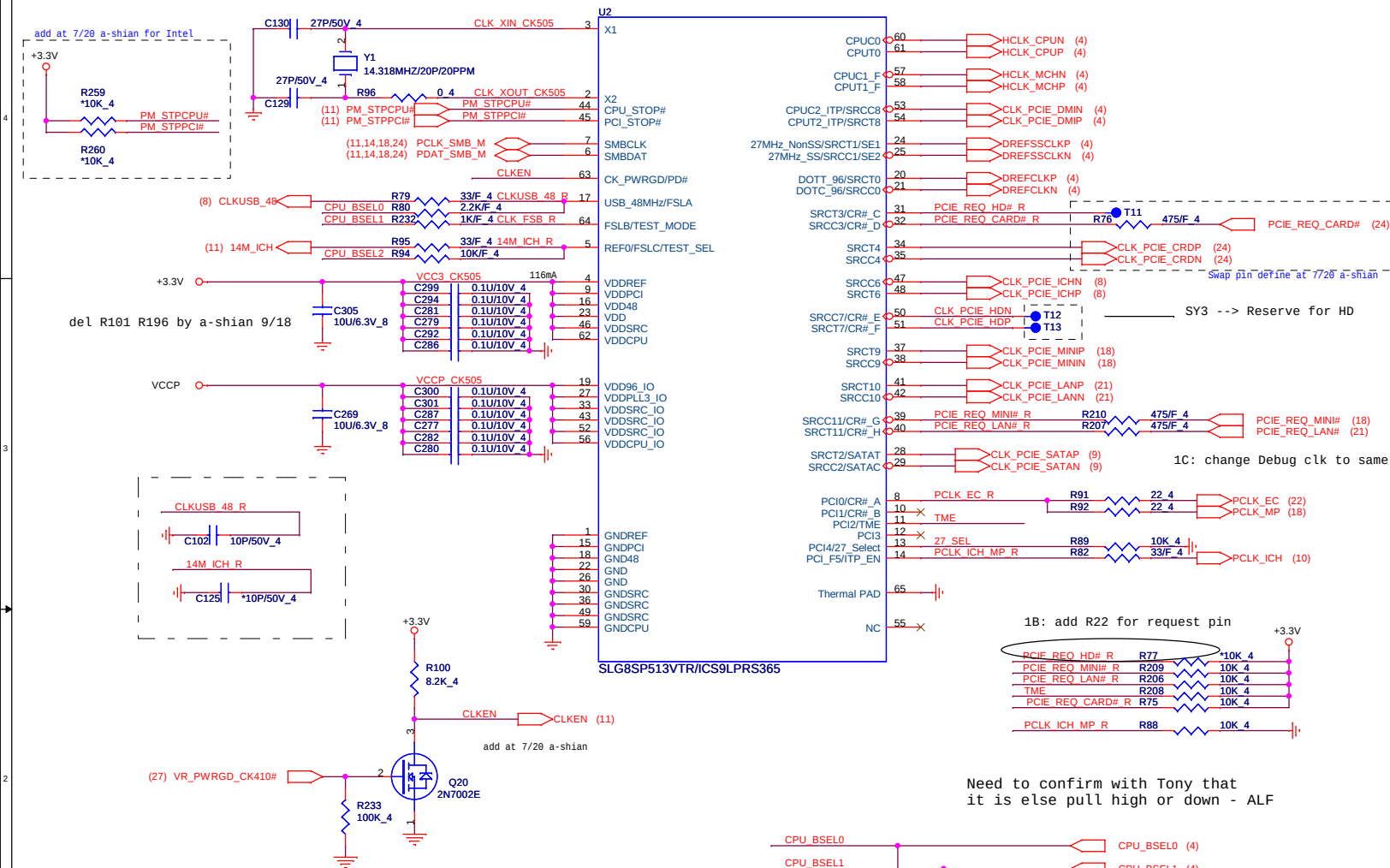


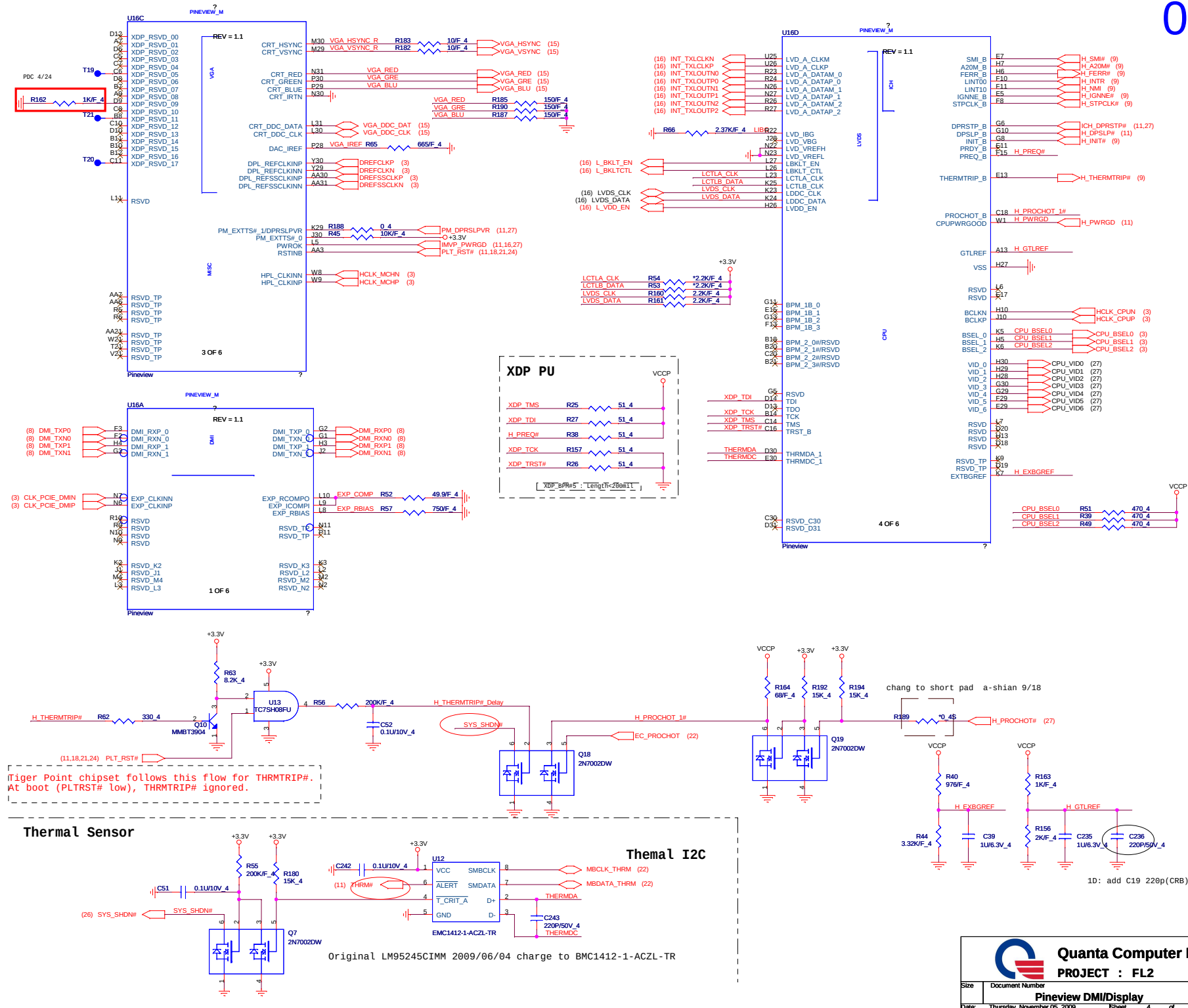
Lenovo Caucasus 2 (Pine Trail) Block Diagram

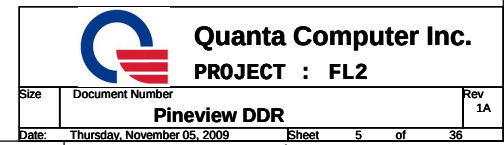


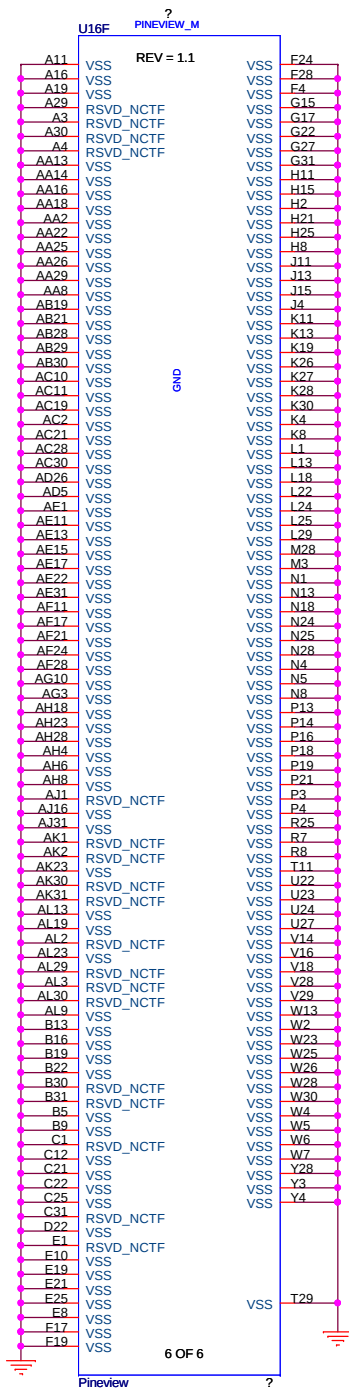
Quanta Computer Inc.
PROJECT : FL2

[illegible][illegible][illegible]



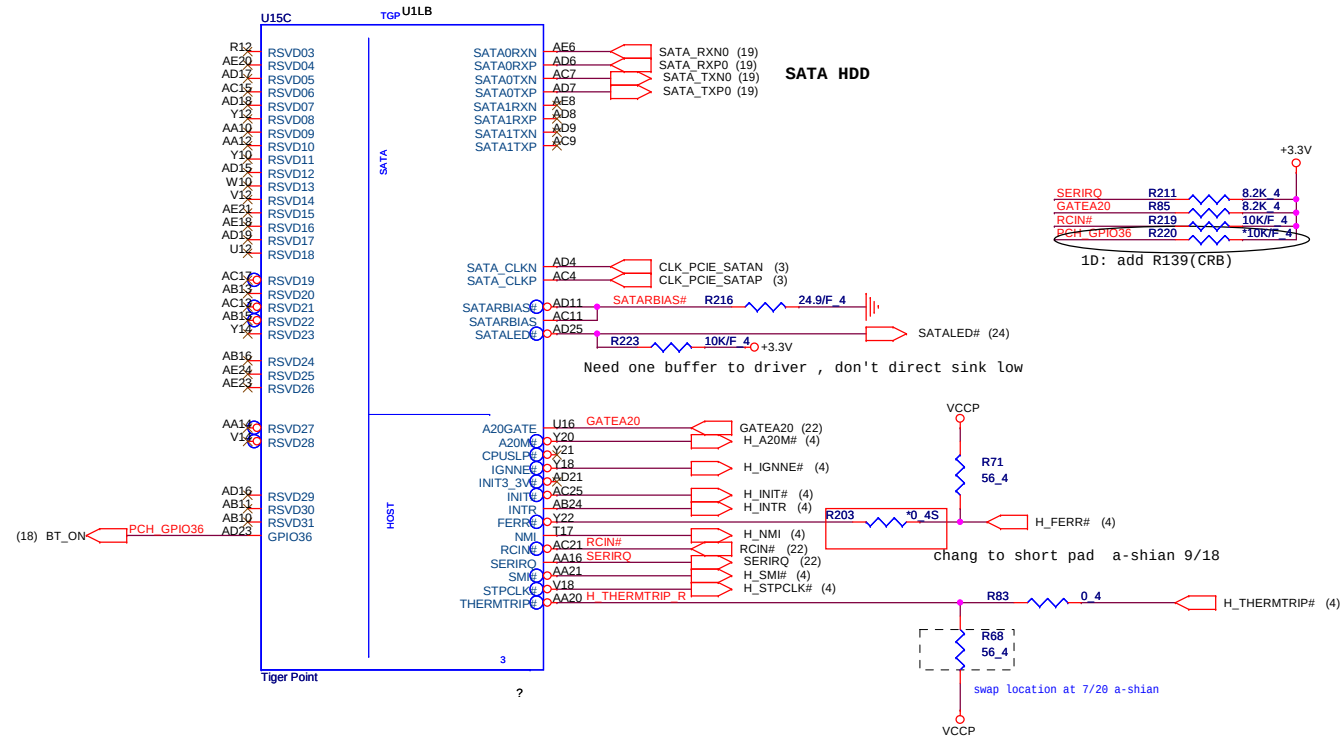


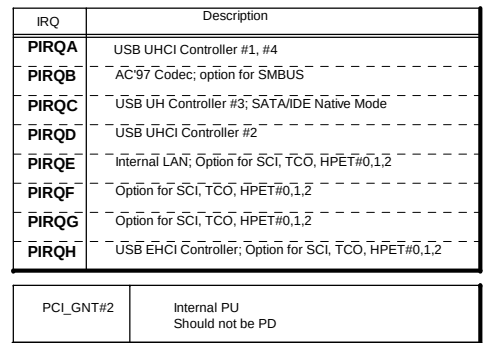




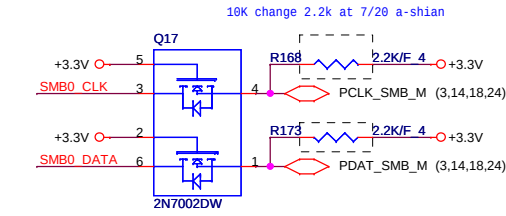


Size	Document Number	Rev
	Tiger Point DMI/PCIE/USB	1A
Date:	Thursdav, November 05, 2009	Sheet 8 of 36



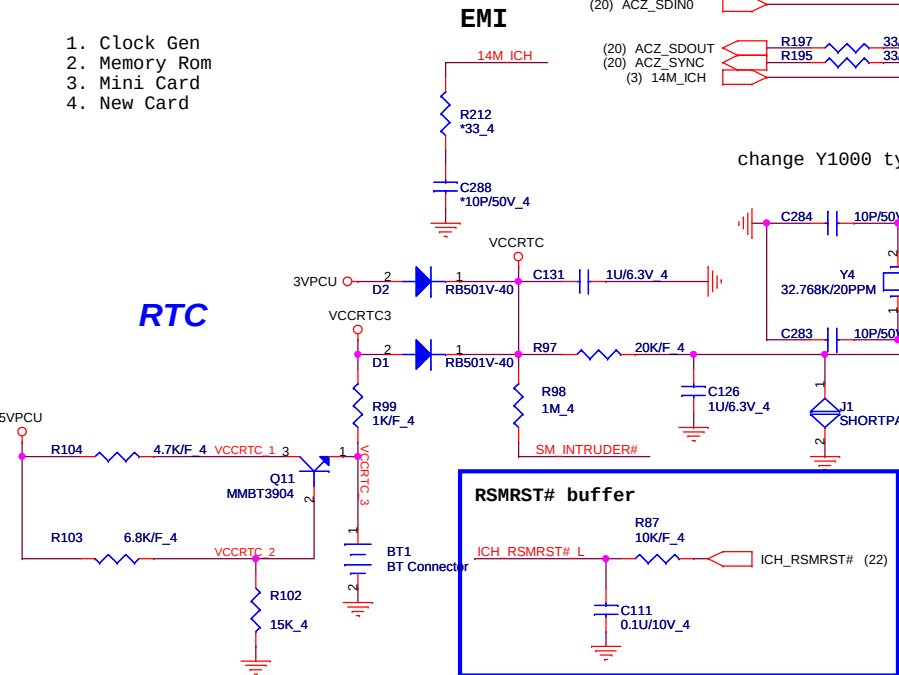


PCH_A16WP (INT PU)	Low = A16 swap override enabled High = Default
-----------------------	---



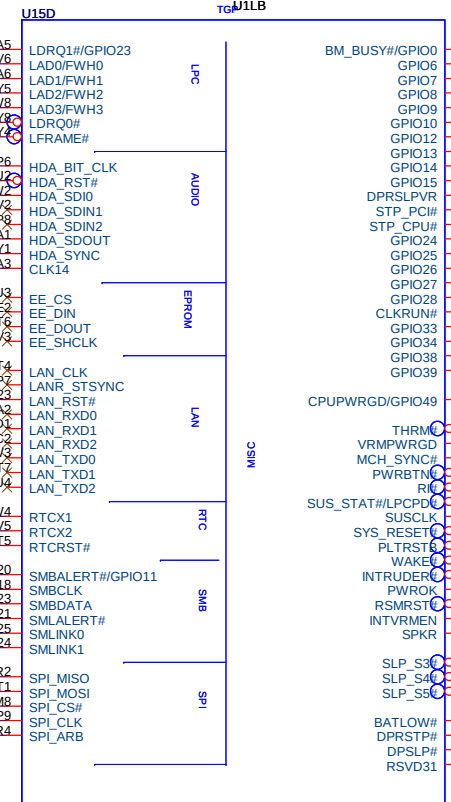
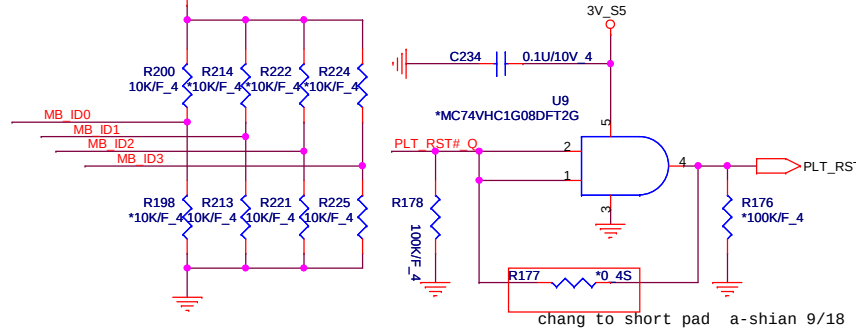
SM_BUS_PCLK_SMB_M for SB

1. Clock Gen
2. Memory Rom
3. Mini Card
4. New Card

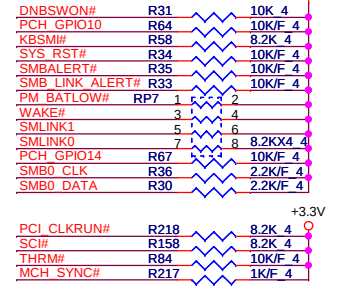


	ID3	ID2	ID1	ID0
SDV	0	0	0	0
SIV	0	0	0	1
PVD	0	0	1	1

M/B ID Select



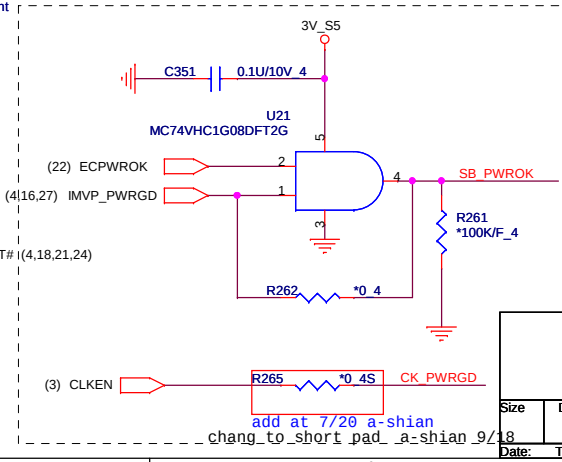
New add at 8/5 alf



1C: Intel suggestion enable AC mode

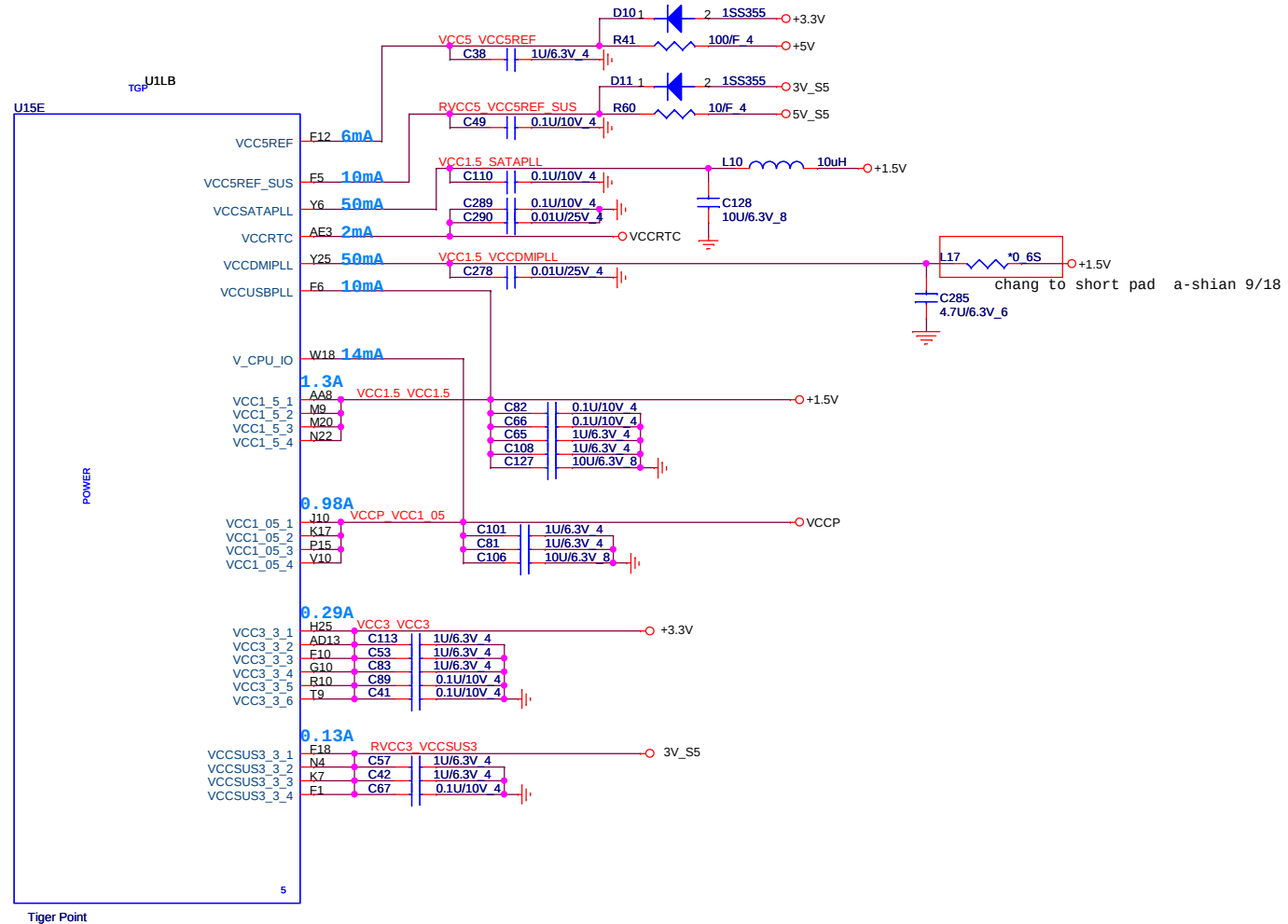
	INTVRMEN
Enable (default)	1
Disable	0

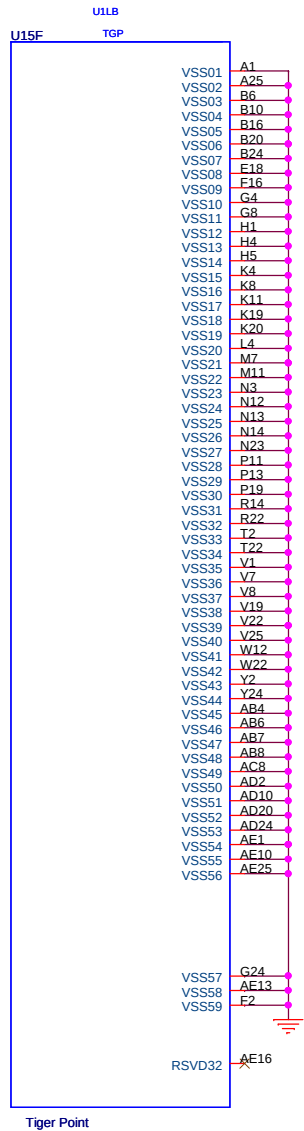
ACZ_SDOUT (INT PD)	ACZ_SYNC (INT PD)	Description
0	0	* 4 x 1s
1	0	Reserved
0	1	Reserved
1	1	1 x 4s (1 port/4 lanes)



Quanta Computer Inc.
PROJECT : FL2

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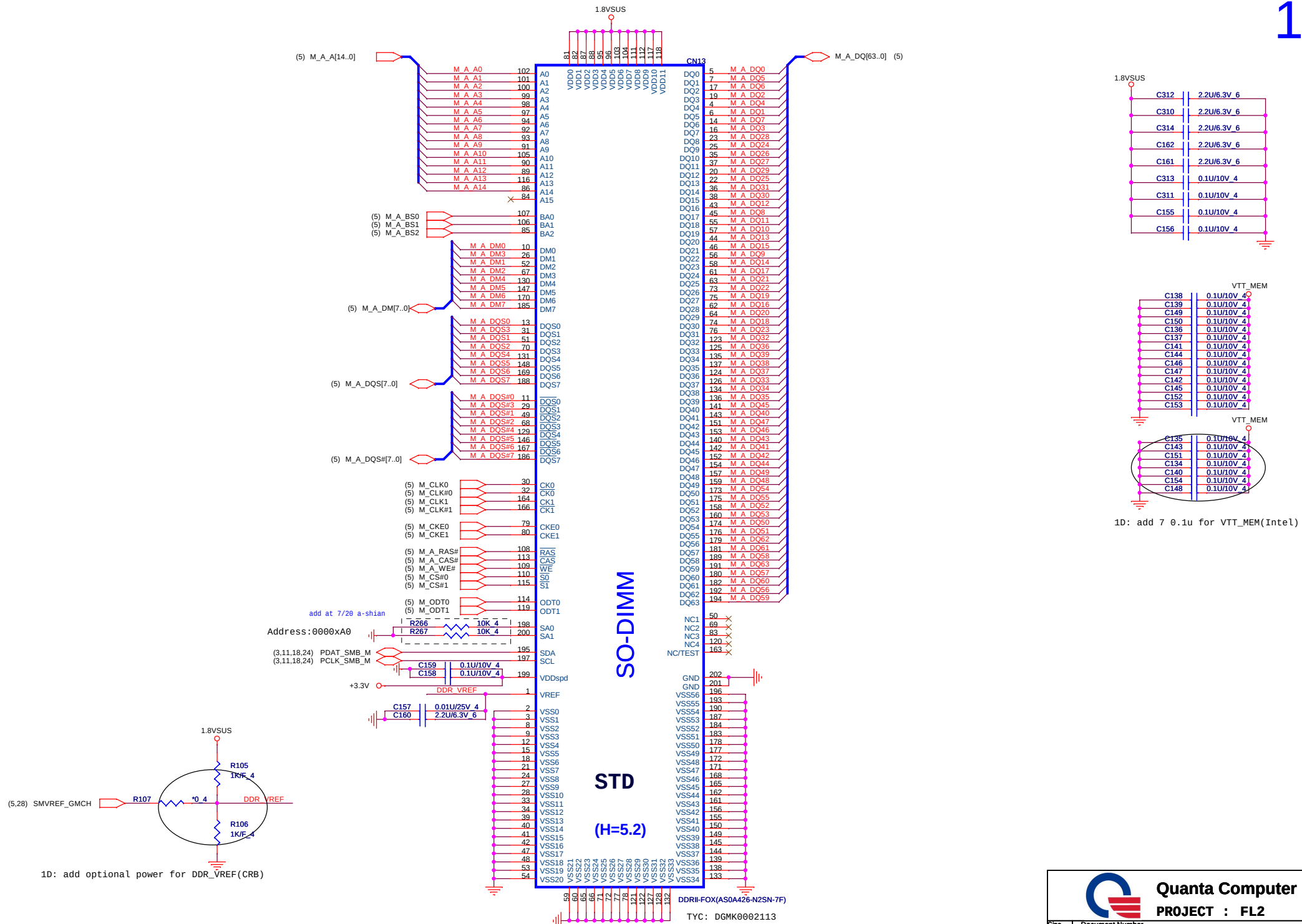




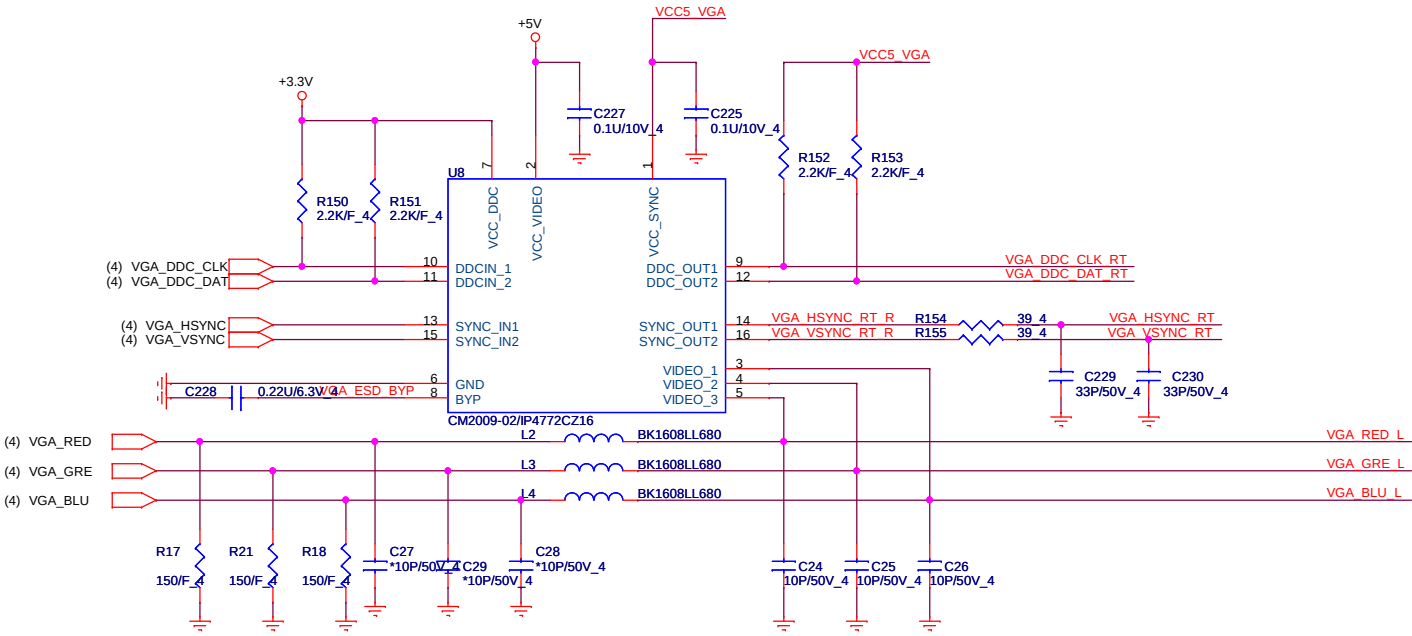


Quanta Computer Inc.
PROJECT : FL2

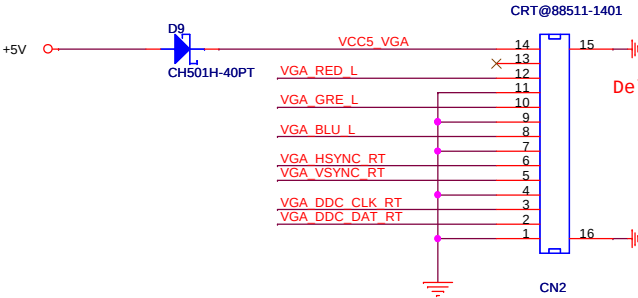
Size	Document Number	Rev 1A
TigerPoint GND		
Date:	Thursday, November 05, 2009	Sheet 13 of 36



Quanta Computer Inc.
PROJECT : FL2



VCC5_VGA(5V+-10%)
Current limit <1A
VCC5<55mA
Current limit ~ 350mA



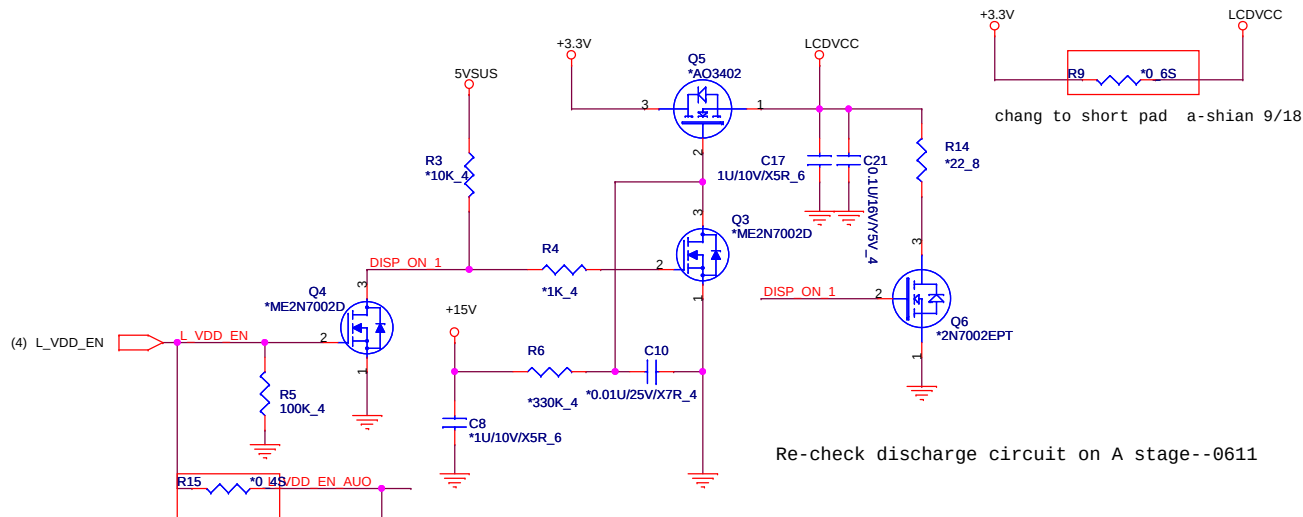


Quanta Computer Inc.
PROJECT : FL2

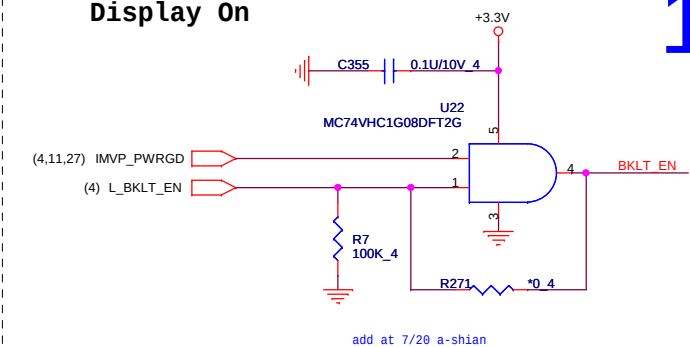
Size	Document Number	Rev
	CRT	1A
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LVDS

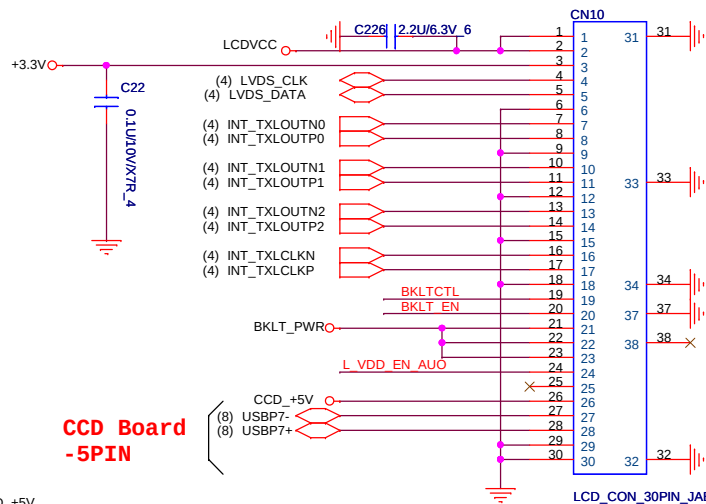
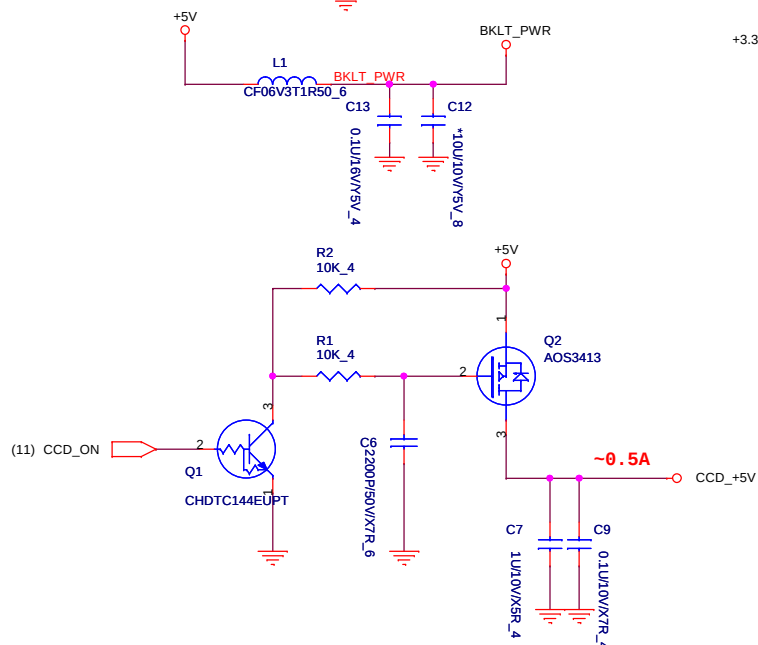
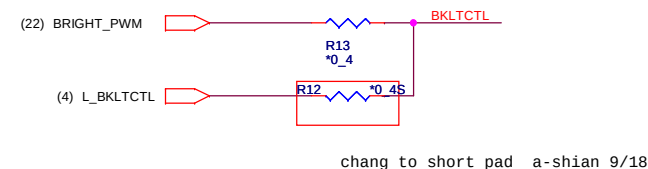
LVDS Enable



Display On



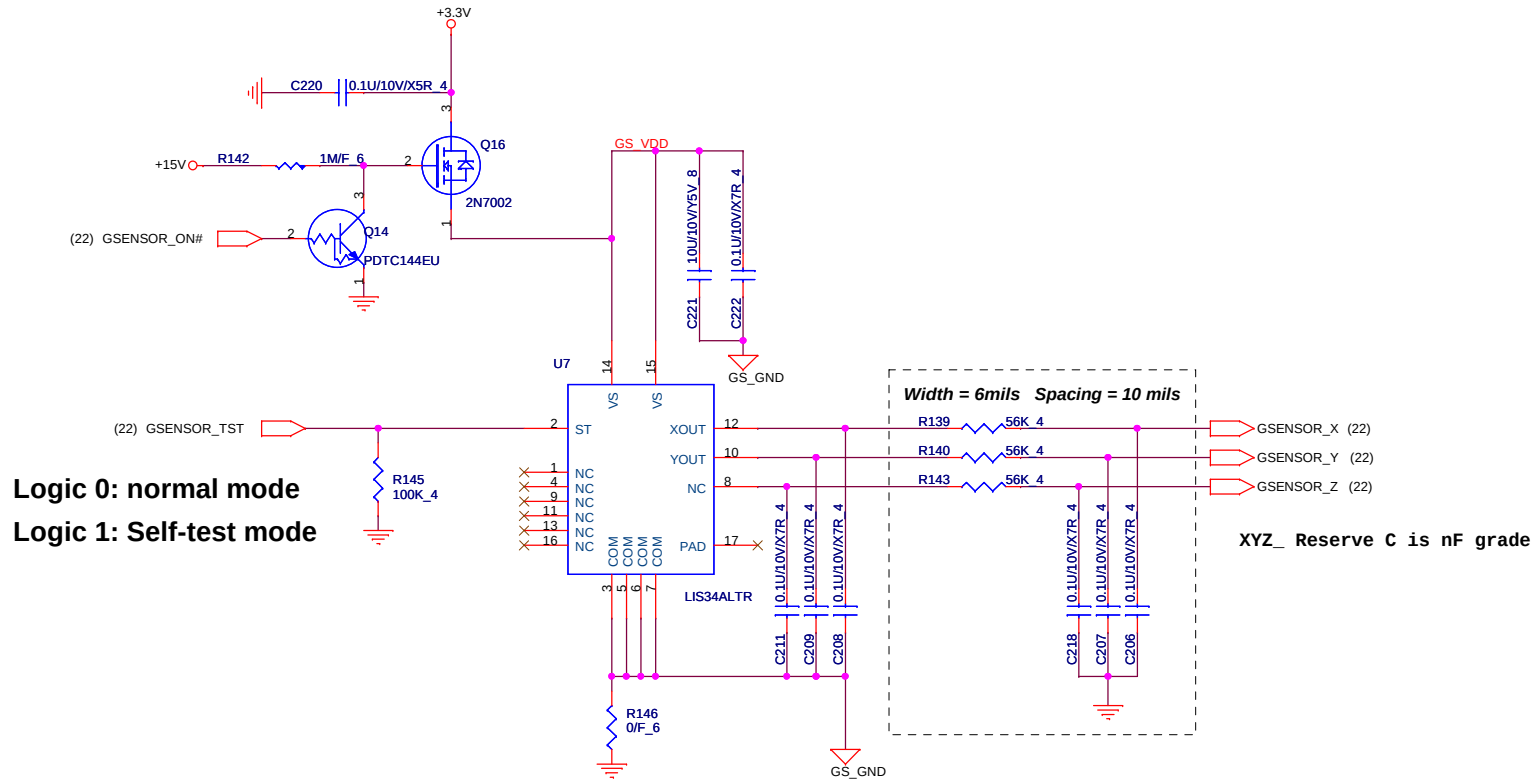
Backlight Control



**LVDS (10.1")
(1024x600,
1366x768)**

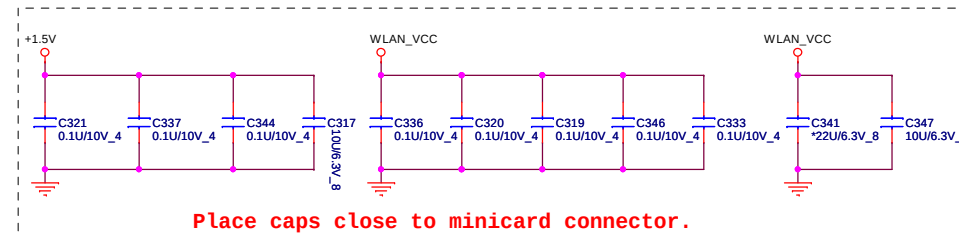
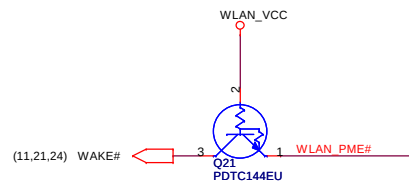
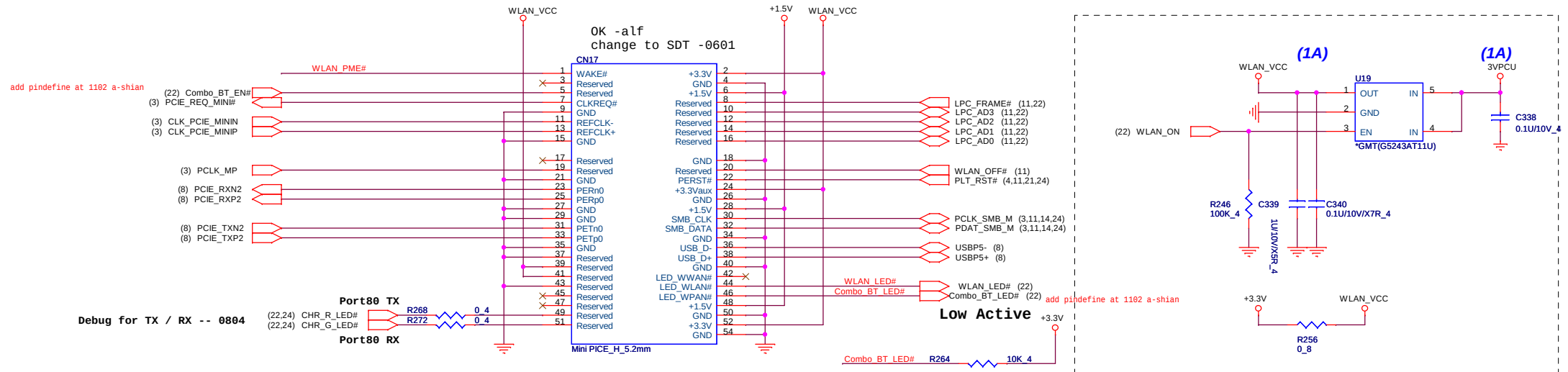
2009/06/04 reverse for layout

G-SENSOR (3-Axial)

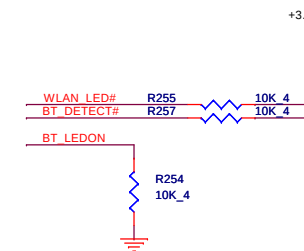
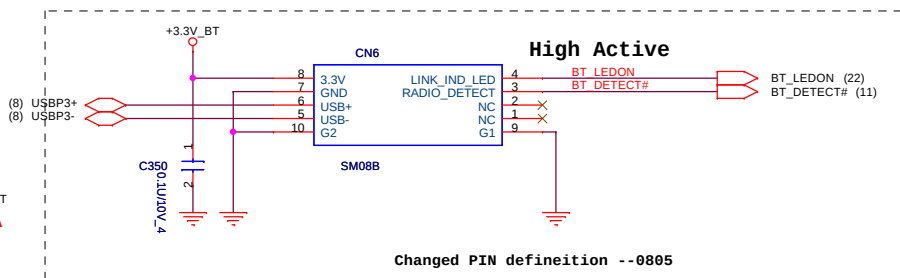
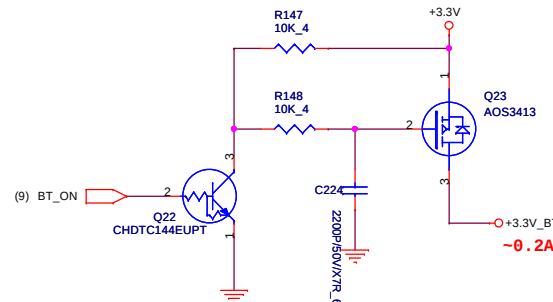


3G MiniCard WLAN connector Mini Card Version1.2

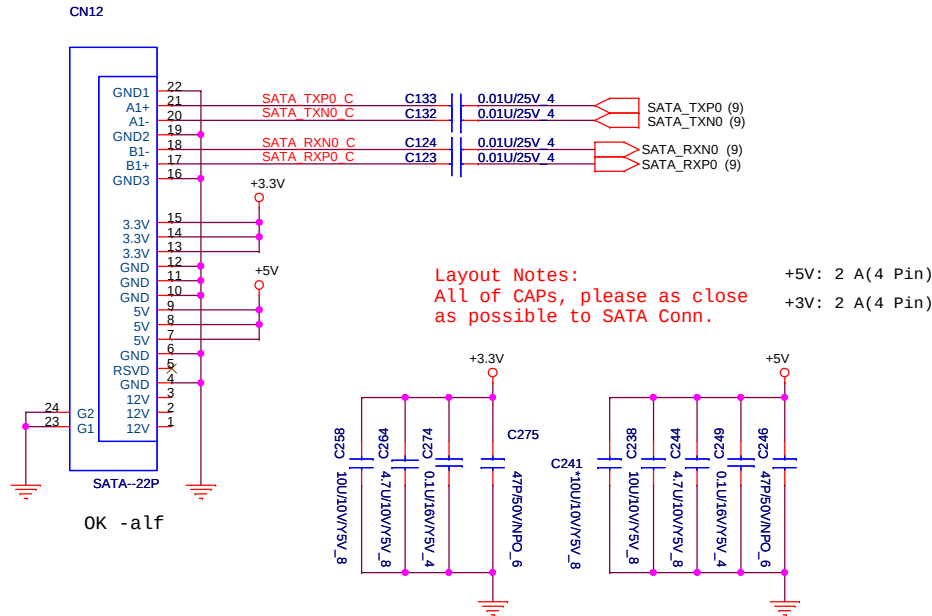
+3.3V Max 1.1A / +1.5V Max 375mA



Bluetooth

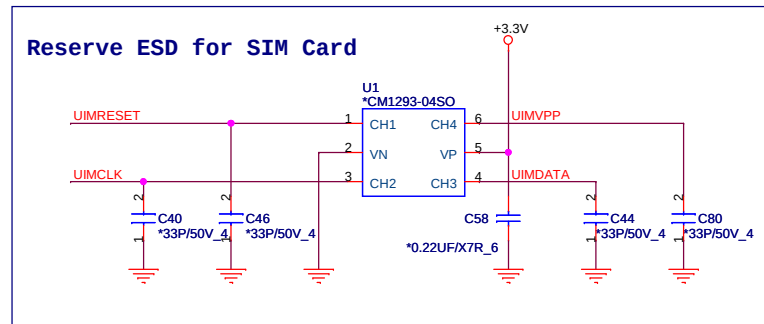
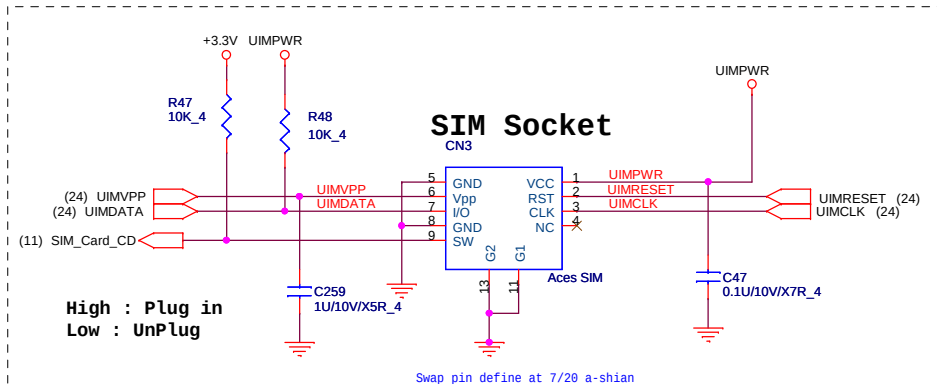


SATA CONNECTOR



SIM Card CONNECTOR

Layout Notes for SIM Card
SIM Power (UIMPWR) trace more then 20mil



Quanta Computer Inc.
PROJECT : FL2

Size	Document Number	Rev
	SATA / SIM Card	1A

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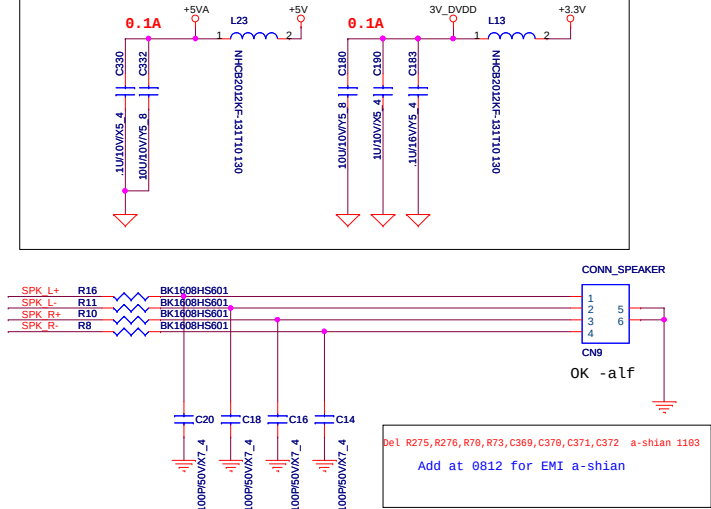
[illegible]

AGND and GND was connected by internal trace

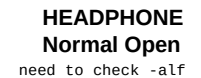


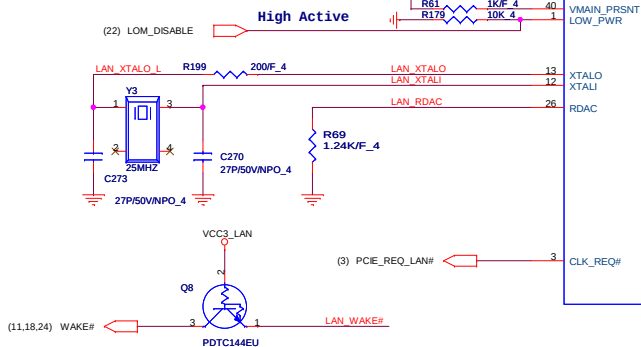
del C348 9/24 a-shian

Change footprint for ME at 9/22

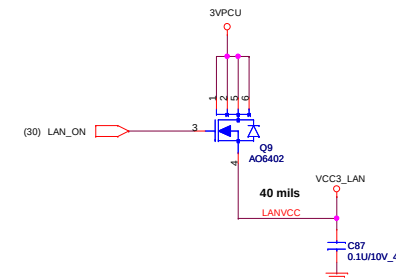
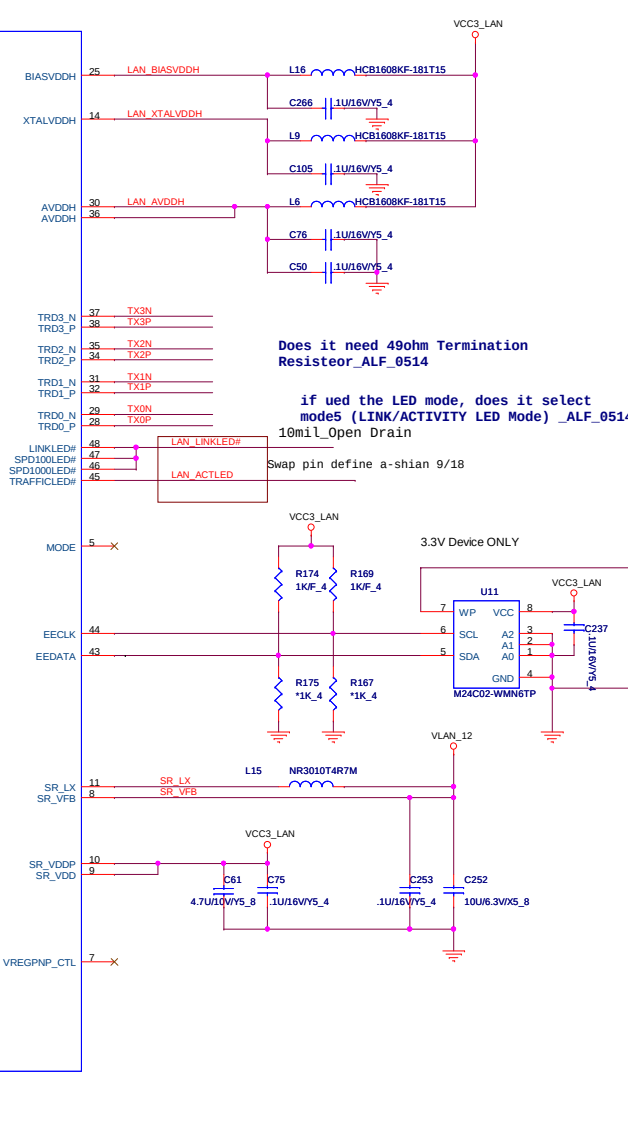


External Microphone Jack
Stereo MIC
Normal Close

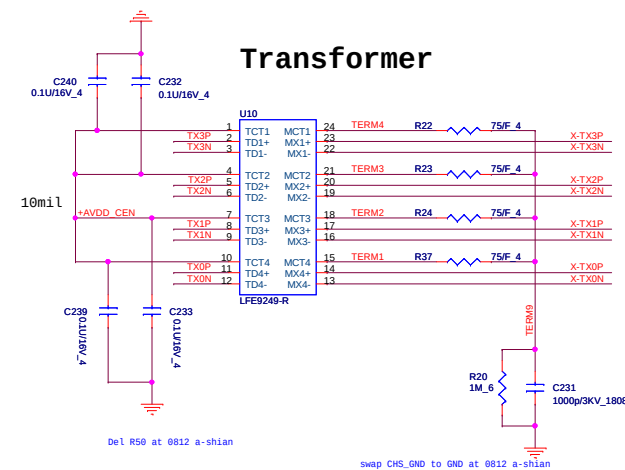




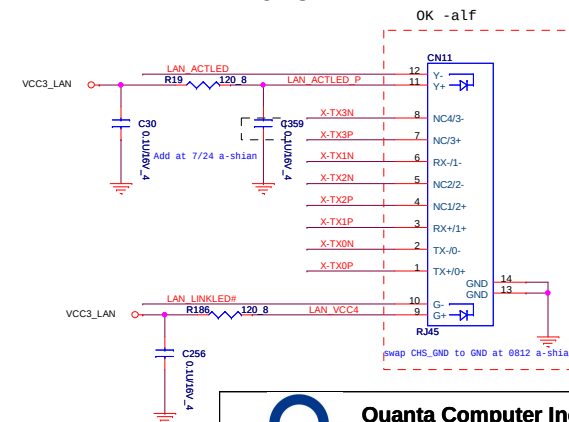
7mm x 7mm
48-Pin QFN

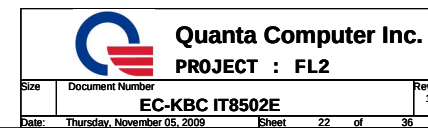


Transformer

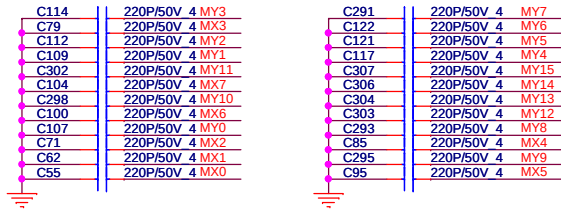
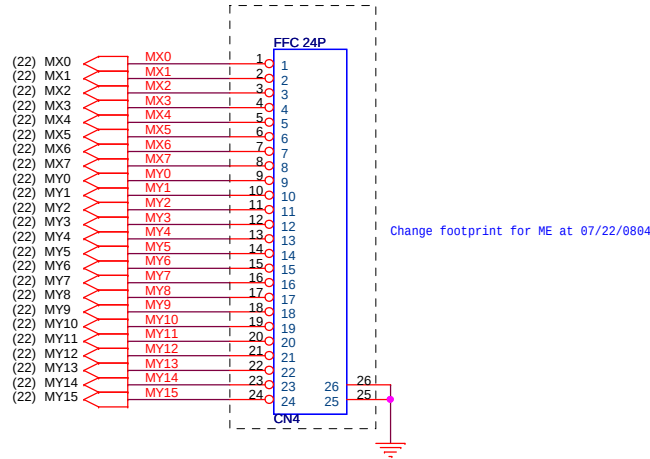


RJ45



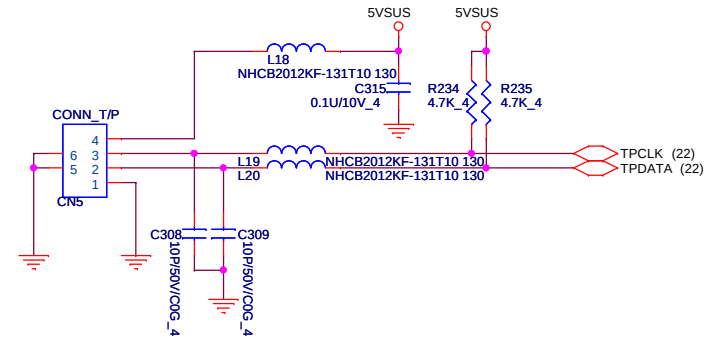


INT. KEYBOARD

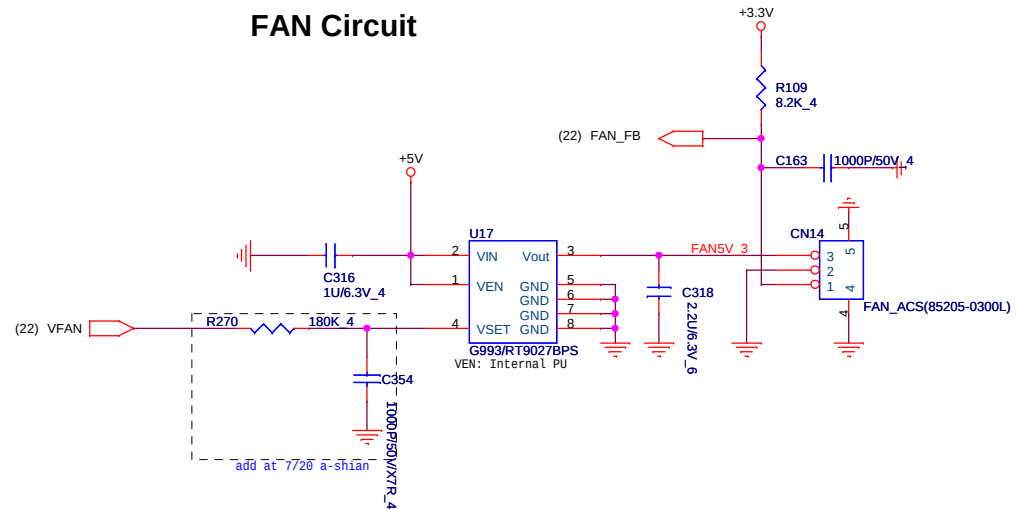


TOUCH PAD CONNECTOR

revers 6/6 for mechanism



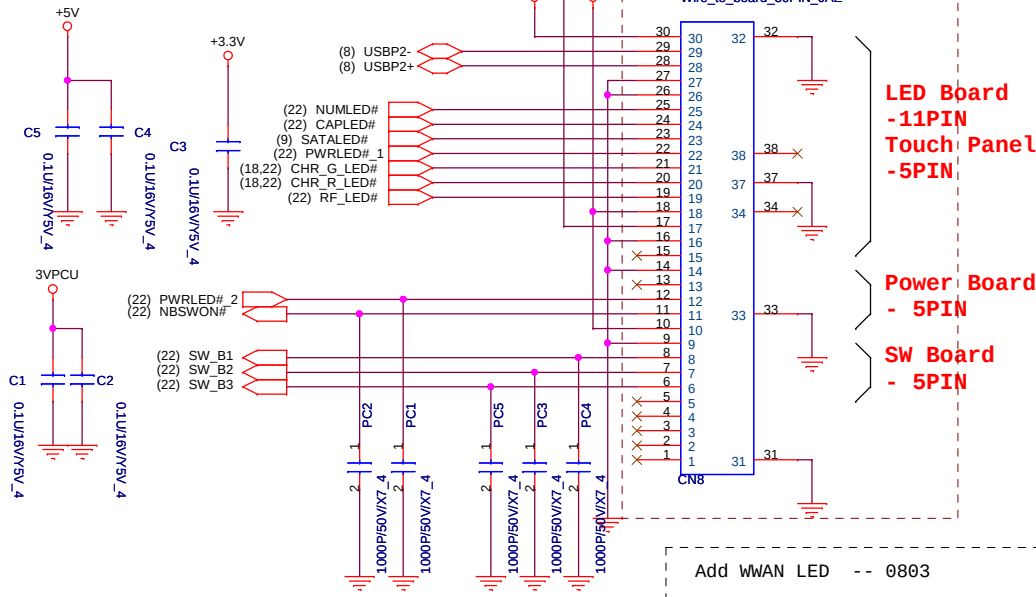
FAN Circuit



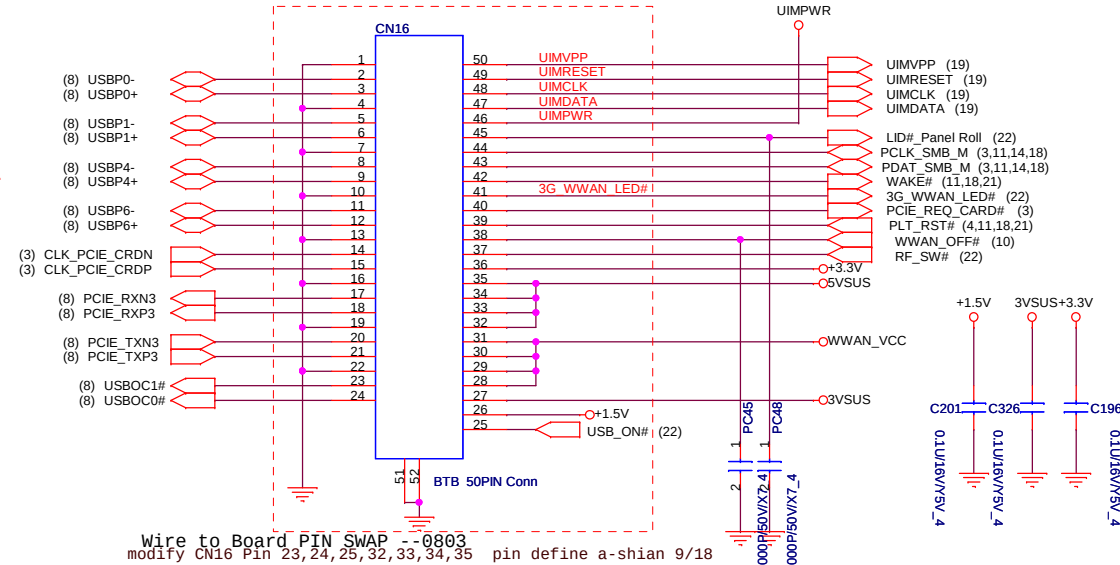
Quanta Computer Inc.
PROJECT : FL2

Size	Document Number	Rev
	KB / TP / FAN	1A
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Layout Notes:
PLS close each power
PIN of CN1003 -- alf

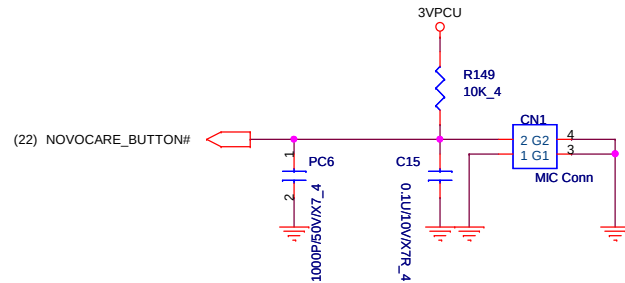


Card Reader to MB wire



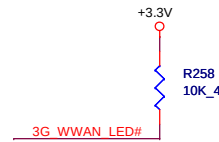
Function Board

NOVO_BUTTON#



Add WWAN LED -- 0803

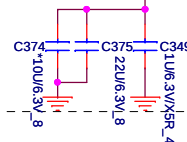
WWAN LED PULL UP



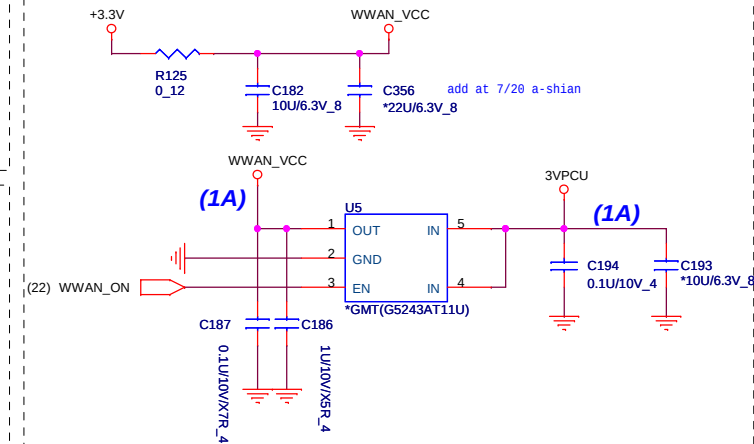
USB Power

move U20 to CRT board a-shian 9/18

Del R258 at 7/20 a-shian

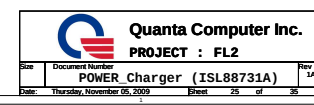


EC - Reserve Power Control for WWAN -- 0205

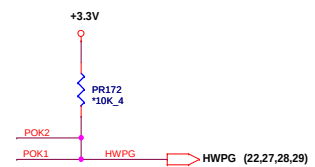


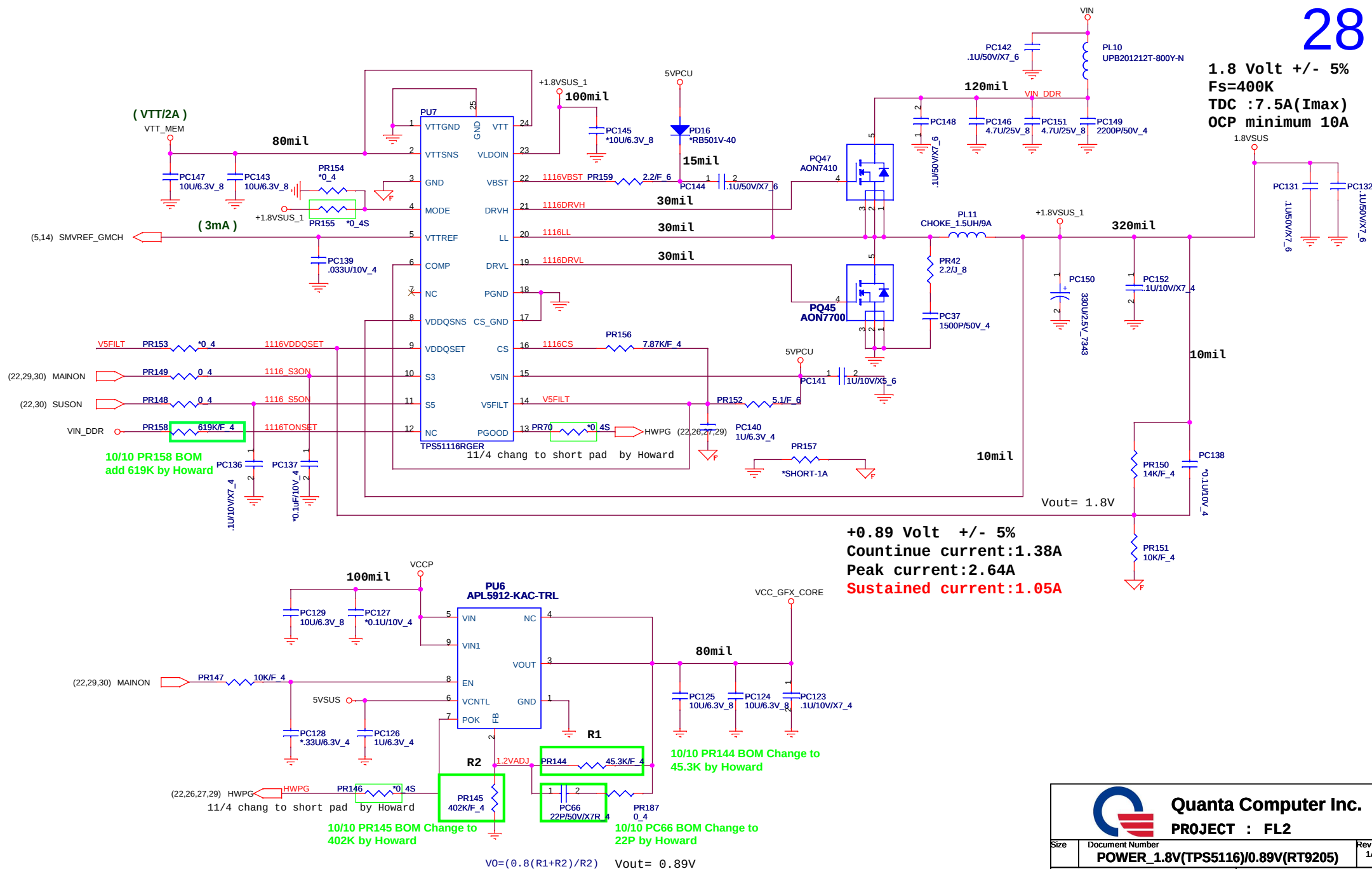
Quanta Computer Inc.
PROJECT : FL2

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	Small Board	1A
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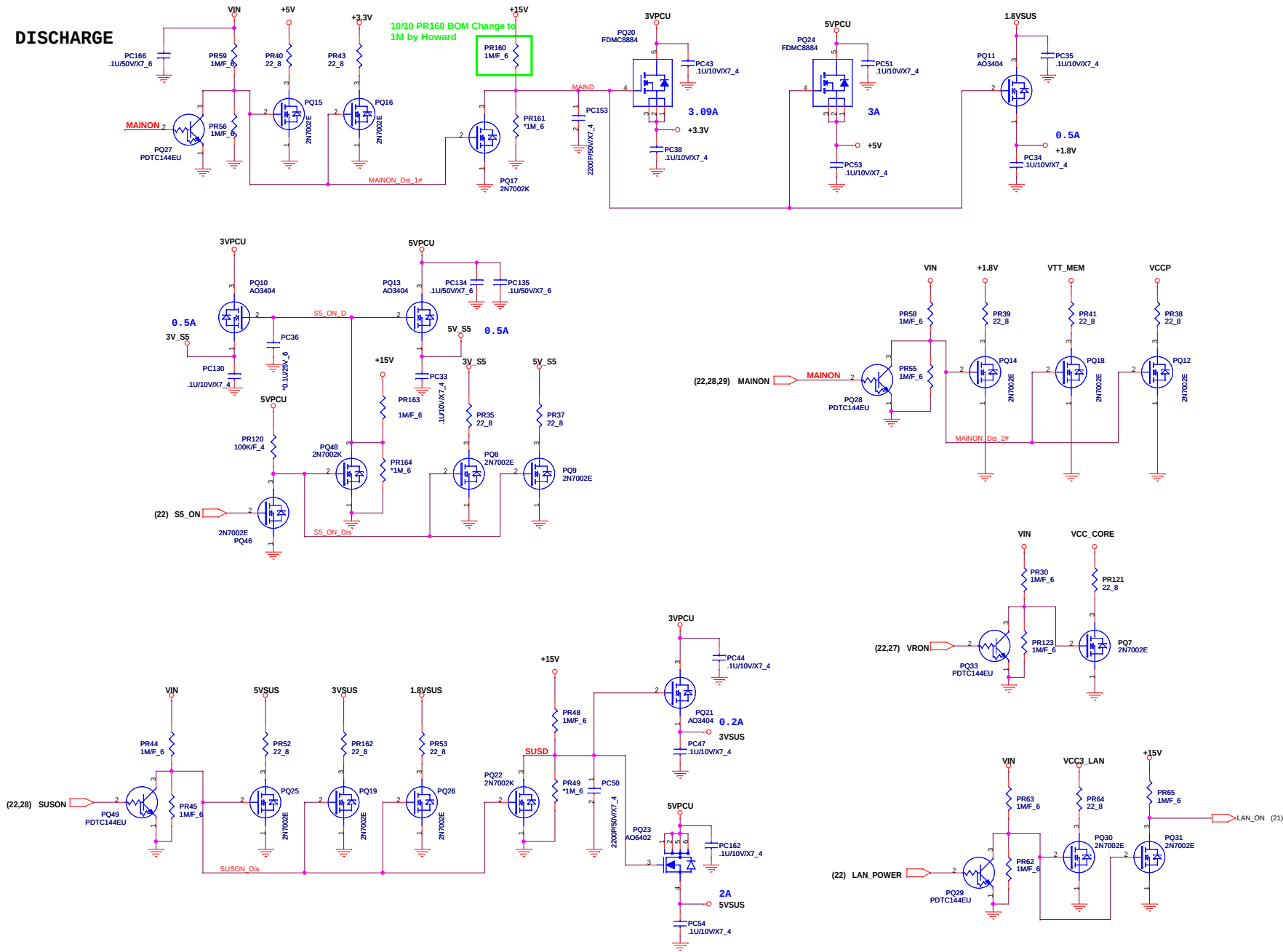




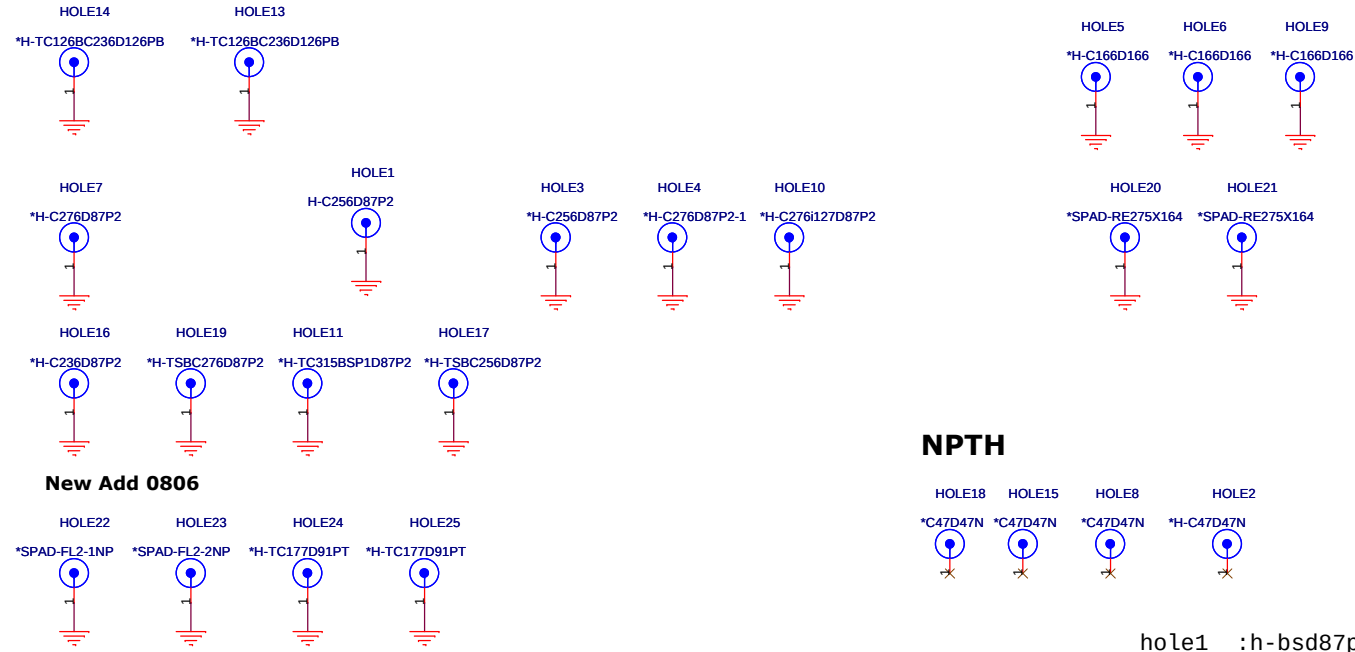
DISCHARGE

30

10/10 PR160 BOM Change to 1M by Howard



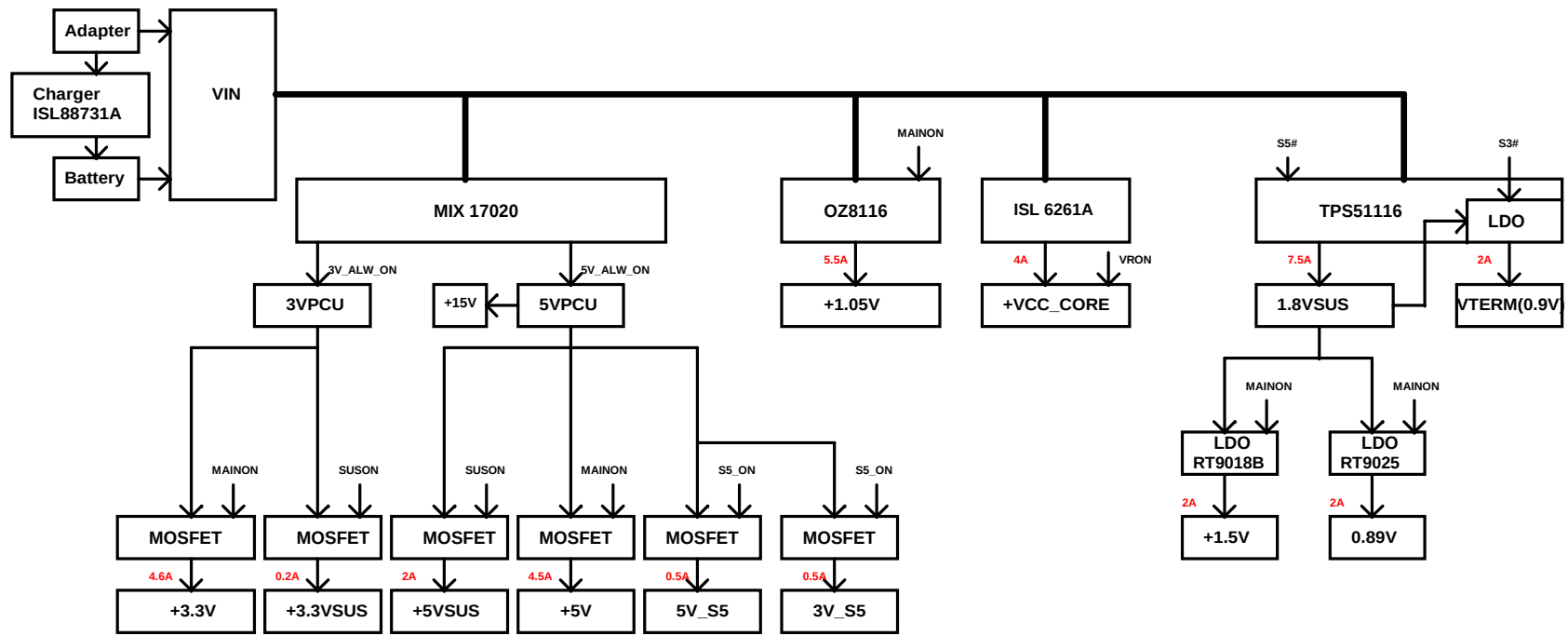
Screw Hole

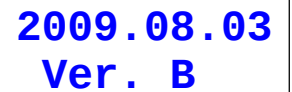


NPTH

hole1 :h-bsd87pb
hole2, del
hole4, hole3, hole10, : h-c87d87n
hole16: h-c236d87p2
hole19: h-tsbcd276d87p2
hole11:h-bsp1d87pb
hole12 :del
hole17:h-bsd87pt

Decoupling Cap





MODEL :	REV:	CHANGE LIST:	MODEL : FL2 MB		
FL2 MotherBoard	1A	FIRST RELEASE ON 2009/05/11	PAGE	FROM	To
		Page 00 --> 1.	1	1A	
	2B	1. Add pull up resistor 10K on PM_SETCPU# and PM_STPPC# 2. Swap Clock GEN pin 31 to 32 3. Swap Clock GEN pin 50,51 to pin 35,34 4. Add off page symbol on CLKEN line 5. Change C297 Volume 0.01uF->0.1uF 6. Add capacitor 22uF (C352,C353) and 0.01uF(C360) on VCC_CORE 7. Swap capacitor 10uF to 22uF (C36) 8. Add capacitor 22uF(C357),0.01uF(C358) on VCC_GFX_CORE 9. Swap 0R(R73) to 600R @100MHZ(L24) Bead 10 Add 0.01uF (C361) on 1.8VSUS 11. Add 0.01uF (C362) on VCCP 12. Add 0.01uF (C363) on +1.8V 13. Swap R68 location to close chip 14 Add pull up resistor (R263) on WWAN_OFF# 15. Change R168 and R173 volume 10K-> 2.2K 16. Change sequence Add AND gate U21, C351, R261, R262 ,R264 ,R265 . 17. Add pull down resistor (R266, R267) on SA0 , SA1. 18. Improve backlight flash add U22,C355,R271 19. Modify SIM define (CN3) 20. Change audio VDD_IO voltage +1.5V->+3.3V 21. Del D13 on EAPD 22. Del D8 on SERIRQ 23. Swap EC ICH_RSMRST# (Pin33 -> Pin 99) 24. Add pull up resistor 10K (R269) on LID#_Panel Roll 25. Add 180K (R270) and 1000pF (C354) on FAN Circuit 26. Del R258 on USB_ON# 27. Add 22uF (C356) on WWAN_VCC 28. Del PR69 on HWP 29. Del PR89A and PD10 on VRON Lline 30. Add R273 on SPDIF line 31. Add R274 on ICH_AZ_CODECLK 32. Add C102 (10p) in BOM 08/12 33. L10 10uH ->0R 08/12 34. R150,R151 3.9K ->2.2K08/12 35. R14,R3,Q4,Q6, del in BOM (reserve)08/12 36. Swap CN7 part number (DMIC)08/12 37. Reserve R70,R275,R276,R73,369,C370,C372,C371 and C343,C345,C368,C367 in audio function for EMI and ESD08/12 38. Reserve R274, PC177, R273 in audio function for EMI 08/13 39. Cancel CHS_GND in LAN function of RJ4508/13 40. Swap S1 part number (Hall sensor)08/13 41. Swap CN4 part number (Key board connector)08/13 42. Add C55,C62,C71,C79,C85,C95,C100,C104,C107,C109,C112,C114,C117,C121,C122,C291,C293,C295,C298,C302,C303,C304,C306,C307 for EMI in Keyboard connector08/13	2	1A	
	3C	1.Del R101,R196 OHM 09/22'09 2.R189,R90,R201,R159,R74,R191,R205,R83,R177,R265,R121,L17,R9,R125,R12,R256 Use short pad. 09/22'09 3.change CN9 footprint 09/22'09 4.modify CN16 pin define 09/22'09 5. move U20 to CRT board	3	1A	
4D	1.DEL 0R R275,R276,R70,R73 FOR audio output and DEL R221 for MB ID 2.ADD R222 for MB ID and ADD R264 10K 3.Change audio phone jack footprint CN13 4.DEL CN2 pin 2 Let it floating.	4	1A		



Quanta Computer Inc.

PROJECT : FL2

Size

Document Number

Rev 1A

FL2 EC Record List_A

Date: Thursday, November 05, 2009

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[illegible]

