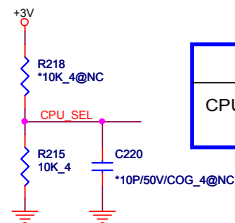
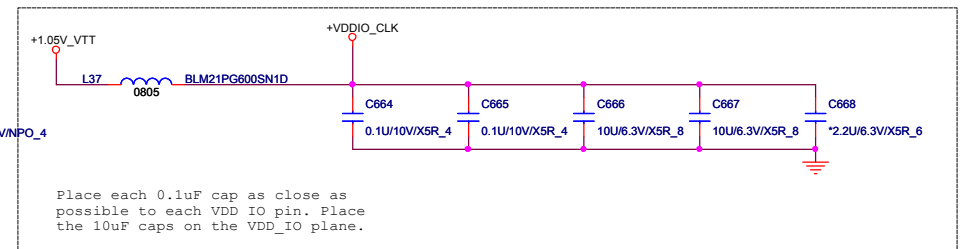
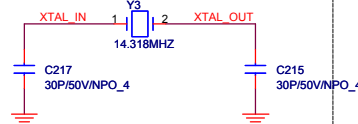
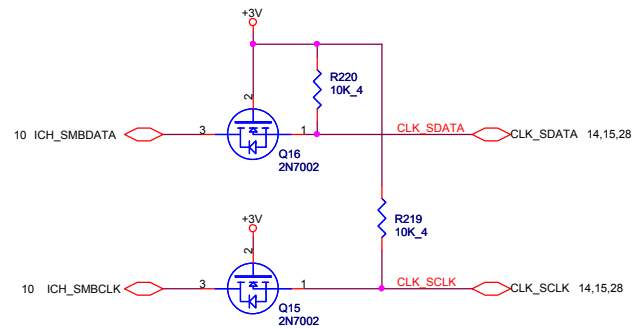
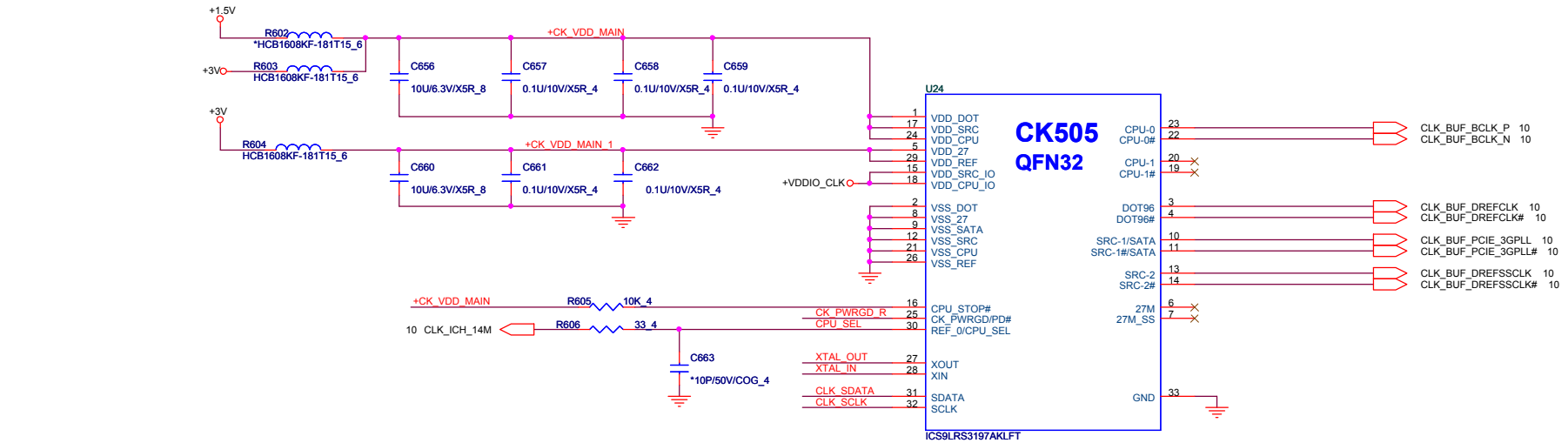


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17	HDMI PORT(PS8101)
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19	AUDIO CODEC(ALC269Q)
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31	G-SENSOR
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33	TPM & RFID EEPROM
34	KBC IT8502E
35	HOLD & SKEW
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37	Charger (ISL8731)
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40	3V/5V (ISL6237IRZ-T)
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42	GFX_VCC (MAX17028)
43	XDP & JTAG
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45	Schematic Value Descript
46	BOM Matrix Table

Power States

POWER PLANE	VOLTAGE	PAGE	DESCRIPTION	CONTROL SIGNAL	ACTIVE IN
VIN	10V~+20V	16,36,37,38,39,40,41,42	MAIN POWER		S0~S5
+3VRTC	+3.0V~+3.3V	9,12,34	RTC		S0~S5
3VPCU	+3.3V	9,16,20,23,28,32,34,36,37,40,42	ITE8502 POWER	3V5V_EN	S0~S5
5VPCU	+5V	36,37,38,39,40,42	DC/DC POWER IC SOURCE	3V5V_EN	S0~S5
+15V	+15V	16,31,36,38,39,40	LARGE POWER	3V5V_EN	S0~S5
LANVCC	+3.3V	20,36	LAN POWER	LAN_ON	
5V_S5	+5V	12,22,23,36	PCH SUS POWER	S5_ON	S0~S3
3V_S5	+3.3V	8,9,10,11,12,36	Sys Management,PCH Resume Well, Intel HD Audio,USB,WLAN,WiMAX POWER	S5_ON	S0~S3
5VSUS	+5V	16,32,36,41,42	SLP_S4# CTRLD POWER	SUSON	S0~S3
3VSUS	+3.3V	8,23,27,34,36,42	SLP_S4# CTRLD POWER	SUSON	S0~S3
1.5VSUS	+1.5V	4,6,12,14,15,36,38,39	DDR3 SODIMM POWER	SUSON	S0~S3
0.75VSMDDR_VTERM	+0.75V	14,15,36,38	DDR3 SODIMM REFERENCE POWER	MAINON	S0
+5V	+5V	8,12,16,17,18,19,21,28,30,34,36,37	SLP_S3# CTRLD POWER	MAINON	S0
+3V	+3.3V	3,4,8,9,10,11,12,14,15,16,17,18,19,20,21,22,23,24,25,26,27,29,30,31,32,33,34,36,37,38,39,40,41,42,43	SLP_S3# CTRLD POWER	MAINON	S0
+1.8V	+1.8V	6,12,26,36,42	LVDS,NVM POWER	MAINON	S0
+1.5V	+1.5V	12,24,25,27,38,39	Mini PCIe,Express Card POWER	MAIND	S0
+1.05V_VTT	+1.05V	3,4,6,8,10,11,12,36,39,41,43	AuBurdale VTT POWER/PCH CORE POWER	MAINON	S0
+VCC_GFX_CORE		6,36,42	VGA CORE POWER	GFXVR_EN	S0
VCC_CORE		6,36,41	CPU CORE POWER	VRON	S0
LCDVCC	+3.3V	16	LCD Power	ENVDD	S0
+5V_ODD	+5V	21	ODD Power	MAINON#	S0
+5V_HDD	+5V	21	HDD Power	MAINON#	S0
BAT-V	+10V~+17V	37	MAIN BATTERY	CHG_PBATT	S0~S5



	0	1
CPU_SEL	CPU0/1=133MHz (default)	CPU0/1=100MHz

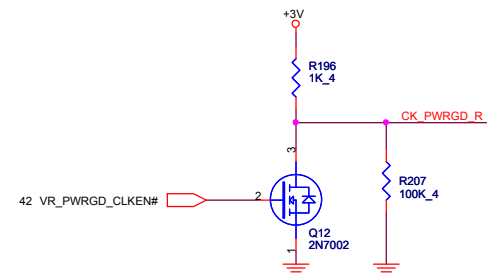
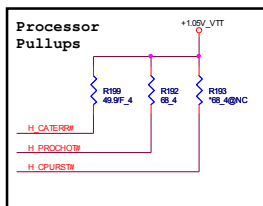
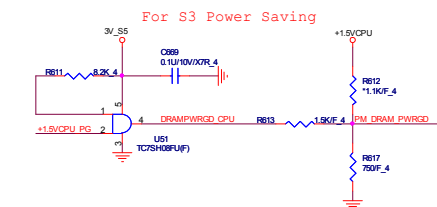
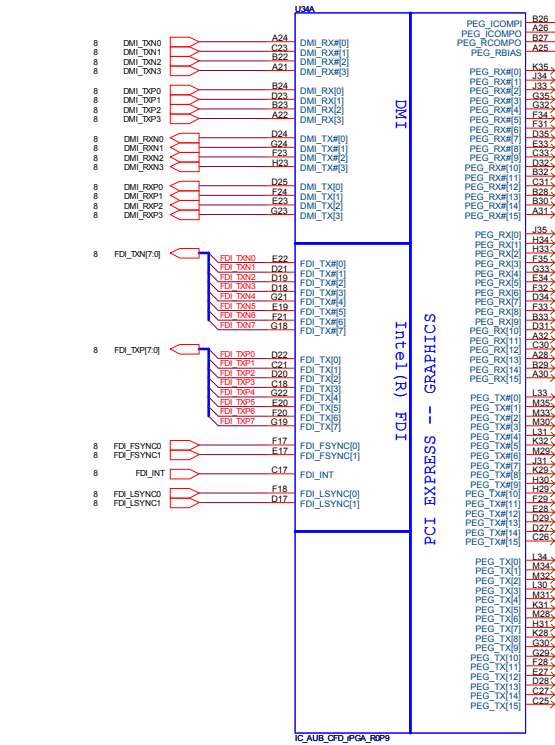
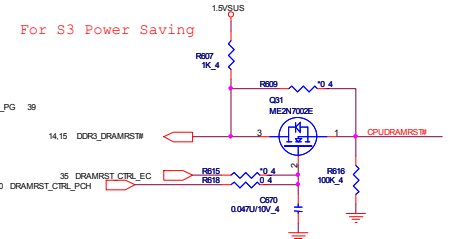
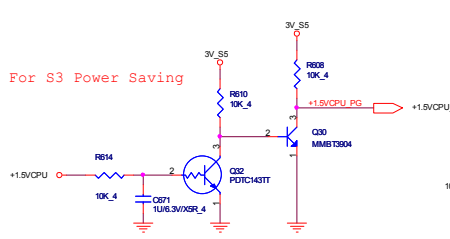
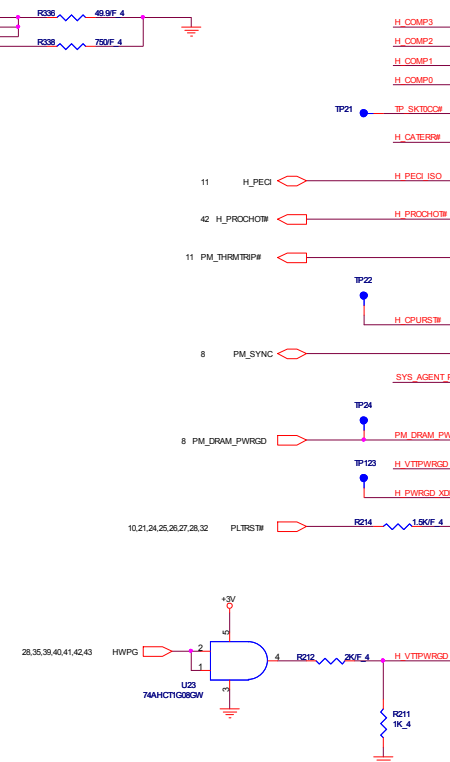
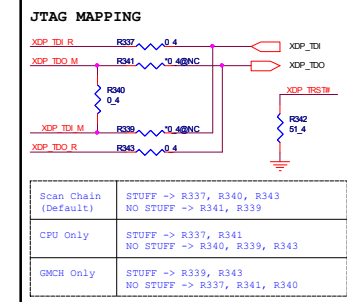
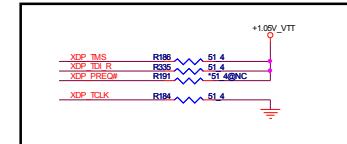


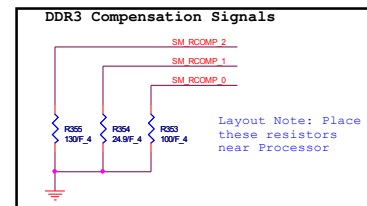
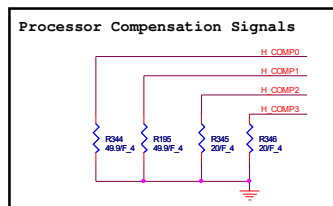
Figure 10: Pinmux diagram for the i.MX8M Mini. The diagram shows various pins on the left, color-coded by function: MISC (blue), THERMAL (red), PWR MANAGEMENT (green), and MISC (blue). These pins are connected to internal blocks and signals. The blocks are organized into four main sections: CLOCKS, DR3, PWR & VOLT, and MISC. The CLOCKS section includes signals like BCLK, BCLK_ITP, BCLK_TTP, PEG_CLK, PEG_CLKA, DPLL_REF, and DPLL_REF_SSCCLK. The DR3 section includes SM_DRAMRST, SM_RCOMP1, SM_RCOMP2, PM_EXT_TSWO, and PM_EXT_TSWI. The PWR & VOLT section includes PRDYA, PREQ, TCK, TMS, TRST#, TD, TDO, TDI, TDO_M, and DBR#. The MISC section includes BPM#0 through BPM#7, A#22 through A#25, and A#27 through A#30. The right side of the diagram shows the corresponding external signals and their pin numbers, such as CLK_CPU_BCLK (11), CLK_CPU_BCLK# (11), CLK_PCIE_3GPLL (10), CLK_PCIE_3GPLL# (10), DRESSCLK (10), DRESSCLK# (10), CPU0RAMRST# (10), SM_RCOMP1 (10), SM_RCOMP2 (10), PM_EXT_TSWO (14), PM_EXT_TSWI (15), XDP_PRESW (10), XDP_PRESW# (10), XDP_TCLK (10), XDP_TCLK# (10), XDP_TMS (10), XDP_TMS# (10), XDP_TDI_R (10), XDP_TDI_R# (10), XDP_TDO_R (10), XDP_TDO_R# (10), XDP_TDI_M (10), XDP_TDI_M# (10), XDP_TDO_M (10), XDP_TDO_M# (10), XDP_DRESSET# (8), XDP_OB0 (10), XDP_OB1 (10), XDP_OB2 (10), XDP_OB3 (10), XDP_OB4 (10), XDP_OB5 (10), XDP_OB6 (10), XDP_OB7 (10), XDP_OB8 (10), XDP_OB9 (10), XDP_OB10 (10), XDP_OB11 (10), XDP_OB12 (10), XDP_OB13 (10), XDP_OB14 (10), XDP_OB15 (10), XDP_OB16 (10), XDP_OB17 (10), XDP_OB18 (10), XDP_OB19 (10), XDP_OB20 (10), XDP_OB21 (10), XDP_OB22 (10), XDP_OB23 (10), XDP_OB24 (10), XDP_OB25 (10), XDP_OB26 (10), XDP_OB27 (10), XDP_OB28 (10), XDP_OB29 (10), XDP_OB30 (10), XDP_OB31 (10), XDP_OB32 (10), XDP_OB33 (10), XDP_OB34 (10), XDP_OB35 (10), XDP_OB36 (10), XDP_OB37 (10), XDP_OB38 (10), XDP_OB39 (10), XDP_OB40 (10), XDP_OB41 (10), XDP_OB42 (10), XDP_OB43 (10), XDP_OB44 (10), XDP_OB45 (10), XDP_OB46 (10), XDP_OB47 (10), XDP_OB48 (10), XDP_OB49 (10), XDP_OB50 (10), XDP_OB51 (10), XDP_OB52 (10), XDP_OB53 (10), XDP_OB54 (10), XDP_OB55 (10), XDP_OB56 (10), XDP_OB57 (10), XDP_OB58 (10), XDP_OB59 (10), XDP_OB60 (10), XDP_OB61 (10), XDP_OB62 (10), XDP_OB63 (10), XDP_OB64 (10), XDP_OB65 (10), XDP_OB66 (10), XDP_OB67 (10), XDP_OB68 (10), XDP_OB69 (10), XDP_OB70 (10), XDP_OB71 (10), XDP_OB72 (10), XDP_OB73 (10), XDP_OB74 (10), XDP_OB75 (10), XDP_OB76 (10), XDP_OB77 (10), XDP_OB78 (10), XDP_OB79 (10), XDP_OB80 (10), XDP_OB81 (10), XDP_OB82 (10), XDP_OB83 (10), XDP_OB84 (10), XDP_OB85 (10), XDP_OB86 (10), XDP_OB87 (10), XDP_OB88 (10), XDP_OB89 (10), XDP_OB90 (10), XDP_OB91 (10), XDP_OB92 (10), XDP_OB93 (10), XDP_OB94 (10), XDP_OB95 (10), XDP_OB96 (10), XDP_OB97 (10), XDP_OB98 (10), XDP_OB99 (10), XDP_OB100 (10), XDP_OB101 (10), XDP_OB102 (10), XDP_OB103 (10), XDP_OB104 (10), XDP_OB105 (10), XDP_OB106 (10), XDP_OB107 (10), XDP_OB108 (10), XDP_OB109 (10), XDP_OB110 (10), XDP_OB111 (10), XDP_OB112 (10), XDP_OB113 (10), XDP_OB114 (10), XDP_OB115 (10), XDP_OB116 (10), XDP_OB117 (10), XDP_OB118 (10), XDP_OB119 (10), XDP_OB120 (10).



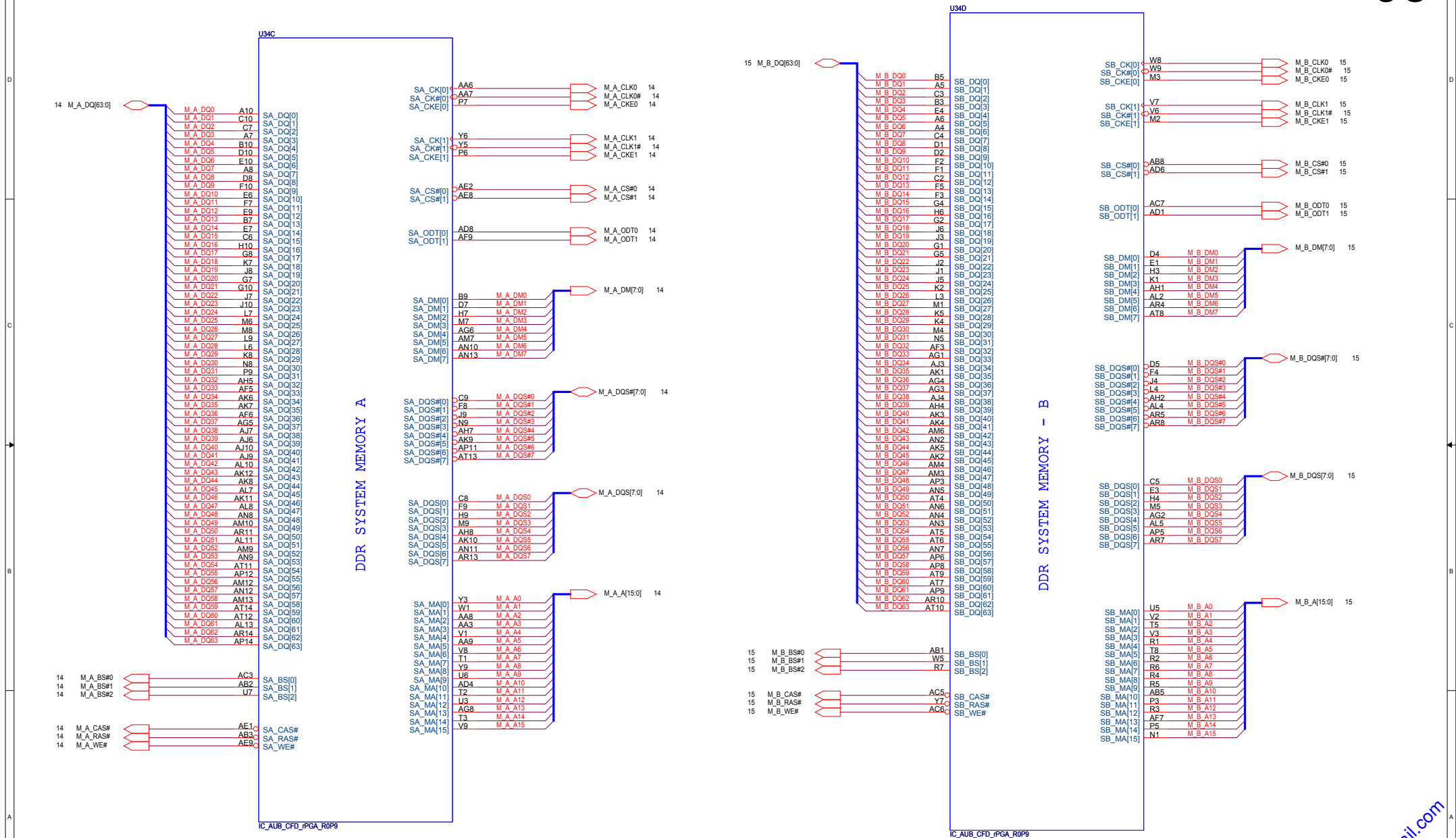
6.42 DELAY_VIR_PWGOOD  R205 0.42NC SYS_AGENT_PWGOOD

11 H_PWGOOD  R206 0.4

Platform	ERB	CRB
R205	STUFF	NO_STUFF
R206	NO_STUFF	STUFF



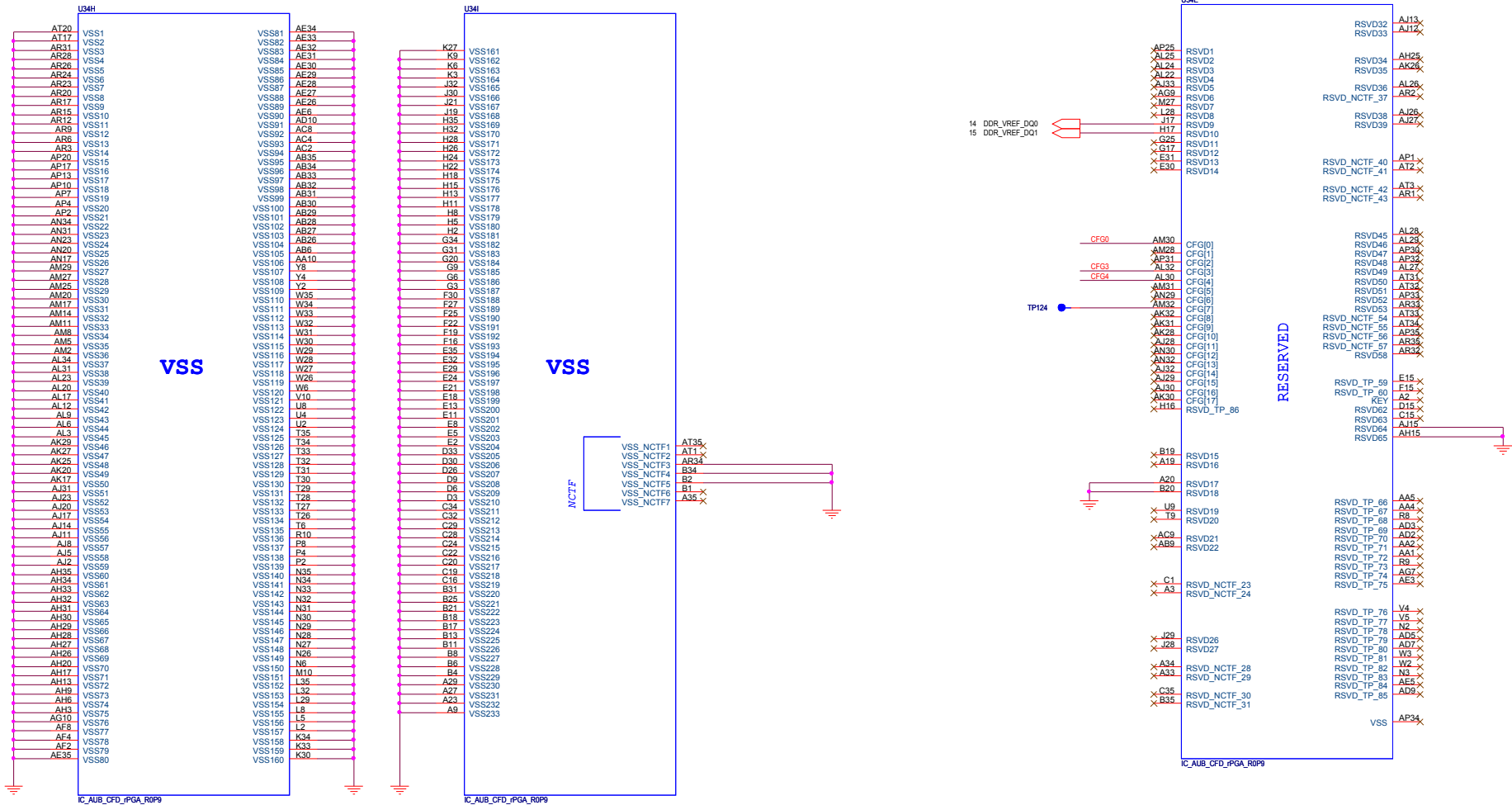
ARRANDALE PROCESSOR (DDR3)



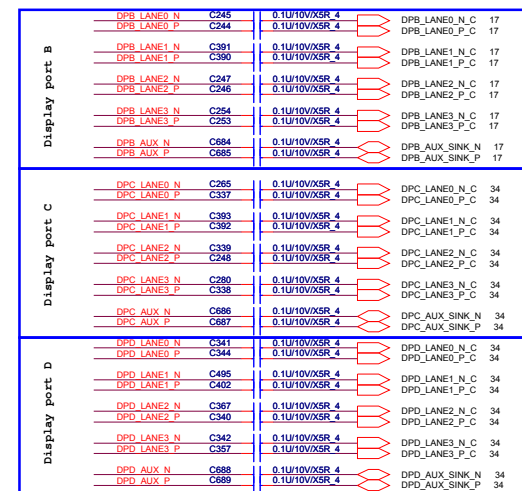
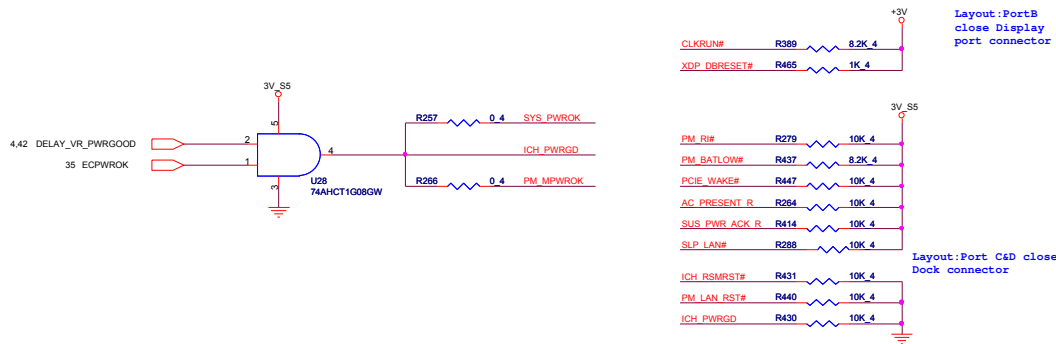
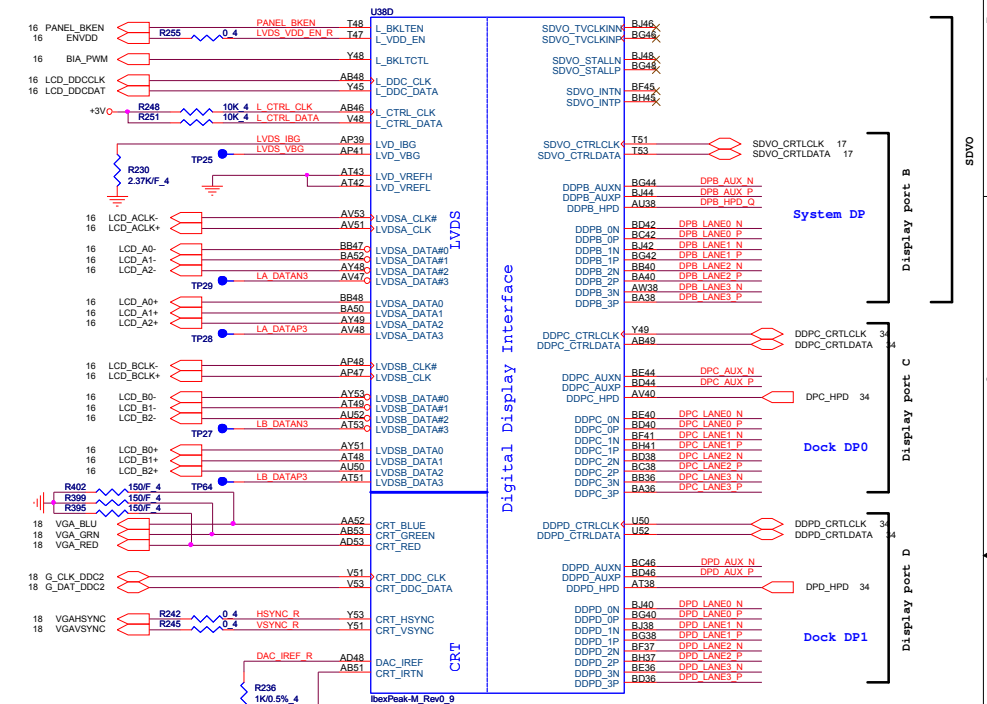
CPU Core Power



ARRANDALE PROCESSOR(RESERVED, CFG)



	1	0
CFG4 (Display Port Presence)	Disabled; No Physical Display Port attached to Embedded Display Port	Enabled; An external Display port device is connected to the Embedded Display port
CFG0 (PCI-Epress Configuration Select)	Single PEG	Bifurcation enabled
CFG3 (PCI-Epress Static Lane Reversal)	Normal Operation	Lane Numbers Reversed



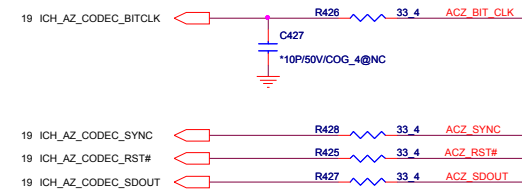
RTC Circuitry

CMOS Settings	J2
Clear CMOS	1-2
Save CMOS	1-X (Default)

TPM Settings	J3
Clear ME RTC registers	1-2
Save ME RTC registers	1-X (Default)

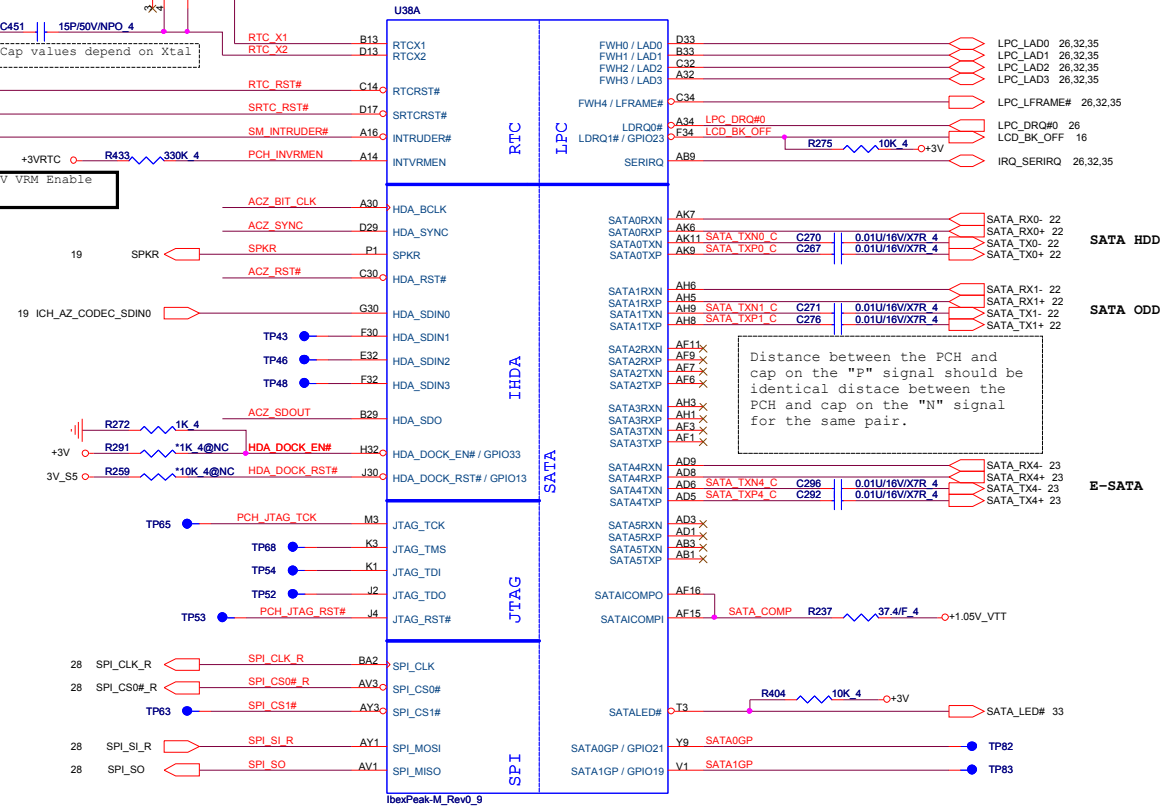
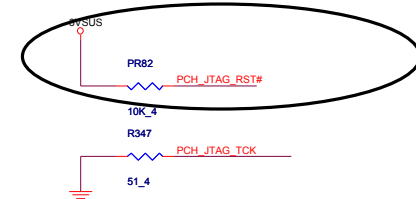
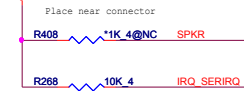
IBEX PEAK-M (HDA, JTAG, SATA)

INTVRMEN - Integrated SUS 1.1V VRM Enable
High - Enable Internal VRs

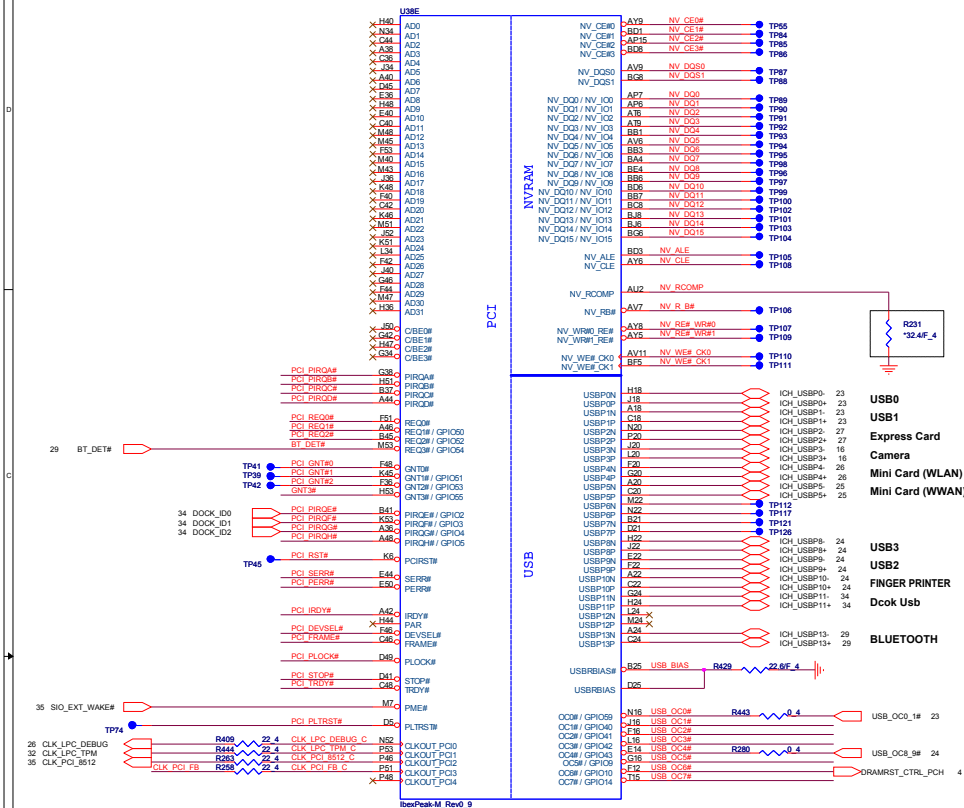


Place all series terms close to PCH except for SDIN input lines, which should be close to source. Placement of R651, R652, R650 & R653 should equal distance to the T split trace point. Basically, keep the same distance from T for all series termination resistors.

No Reboot Strap



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Quanta Computer Inc.



Card Reader

MiniWLAN

LAN

Express Card

MiniWWAN

USB0

USB1

Express Card

Camera

Mini Card (WLAN)

Mini Card (WWAN)

USB3

USB2

FINGER PRINTER

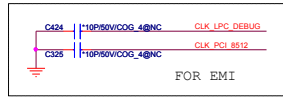
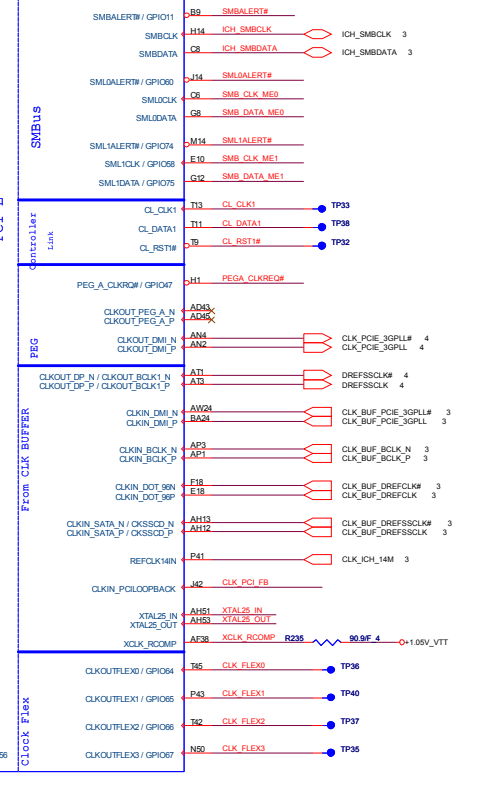
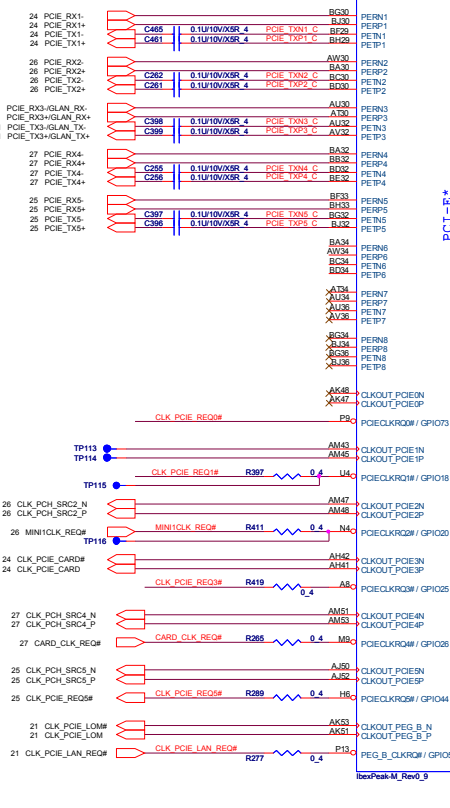
Dcom Usb

BLUETOOTH

Express Card

MiniWWAN

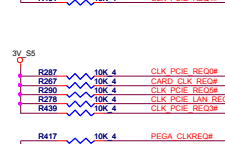
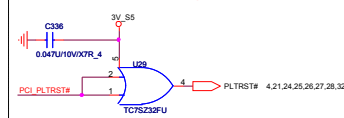
LAN



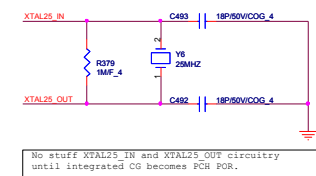
FOR EMI

Non-IAMT

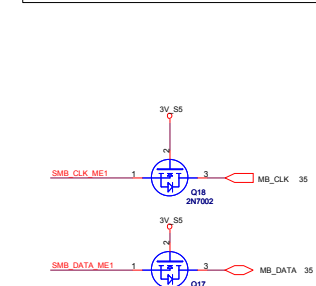
Add Buffers as needed for Loading and fanout concerns.



PCI_GNT0#	PCI_GNT1#	Boot BIOS Location
0	0	LPC
0	1	PCI
1	0	Reserved (NAND)
1	1	SPI



No stuff XTAL25_IN and XTAL25_OUT circuitry until integrated CG becomes FCM POR.



DMI Termination Voltage	
NV_CLE	Set to Vcc when LOW
NV_CLE	Set to Vcc/2 when HIGH

Sanbury Technology Enabled	
NV_ALE	High = Enable
NV_ALE	Low = Disable

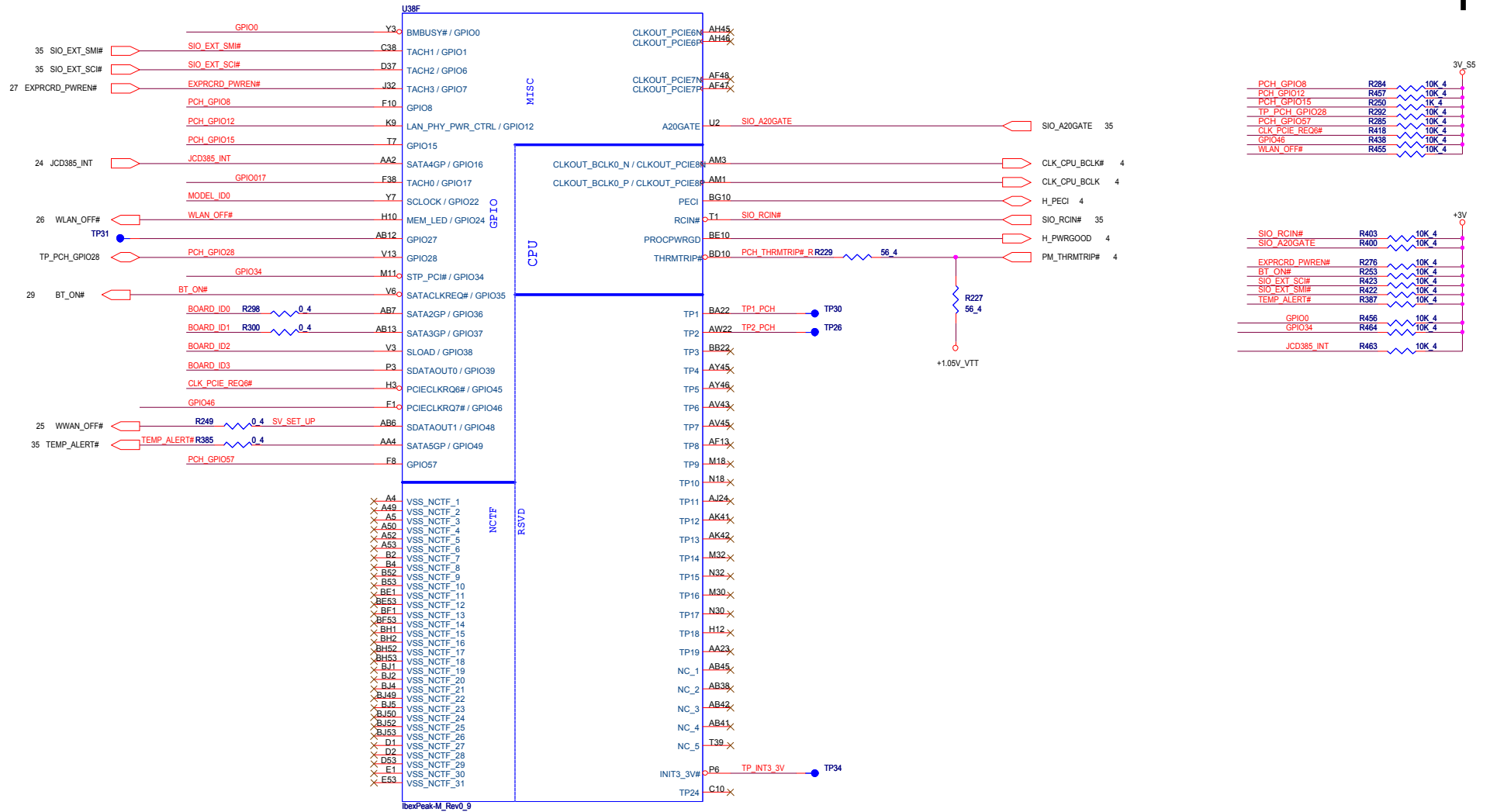
A16 swap override Strap/Top-Block Swap Override Jumper	
GNT3#	Low = A16 swap override/Top-Block Swap Override enabled
GNT3#	High = Default

IBEX PEAK-M (GPIO, VSS_NCTF, RSVD)

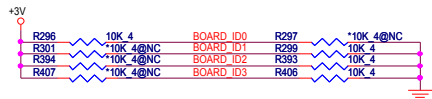
3,4,8,9,10,12,14,15,16,17,18,19,21,22,23,24,25,26,27,28,29,31,32,33,34,35,37,39,40,41,42
4,8,9,10,12,23,26,28,37
3,4,6,8,9,10,12,37,40,42,43

+3V
3V_SS
+1.05V_VTT

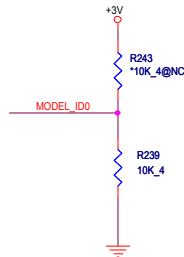
11



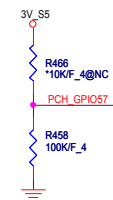
Board ID For Function	ID3 GPIO39	ID2 GPIO38	ID1 GPIO37	ID0 GPIO36
SDV	0	0	0	0
SIV	0	0	0	1
SIT	0	0	1	0
SVT	0	0	1	1
SOVP	0	1	0	0



Model ID	MODEL_ID0
14"	0
15"	1



TPM physical presence	
PCH_GPIO57	Low: Default



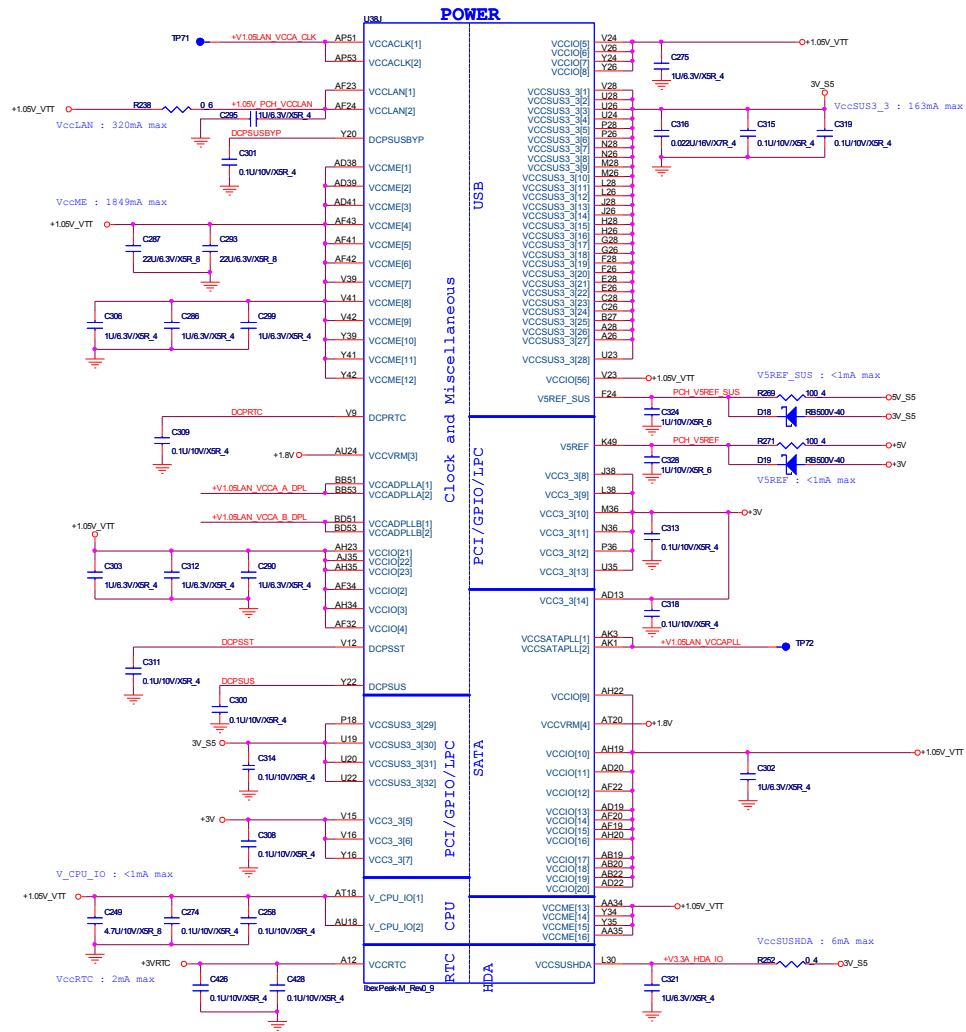
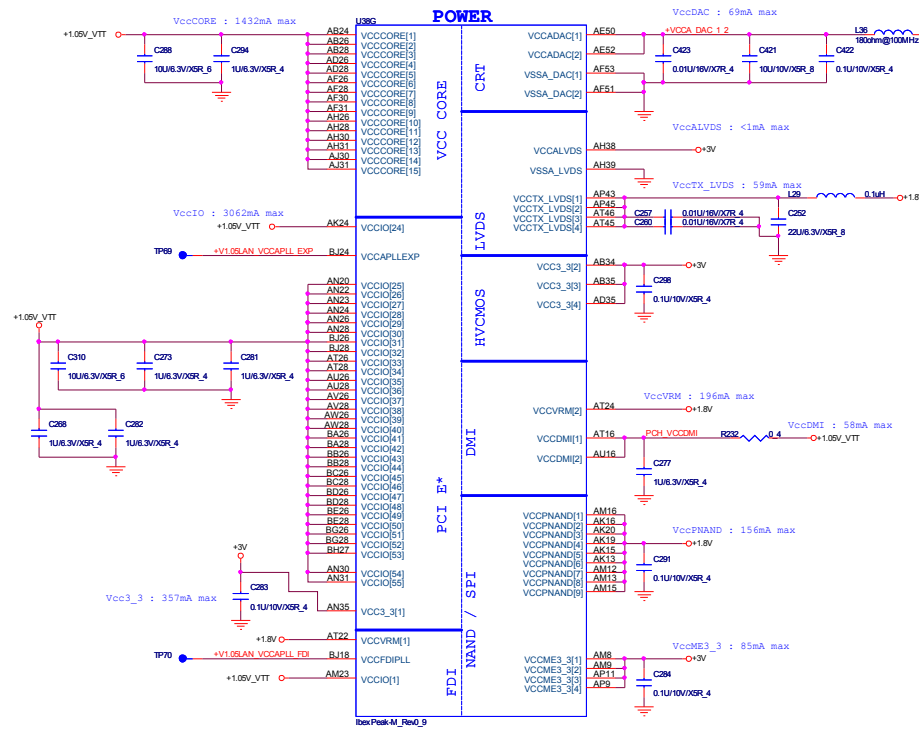
SV_SET_UP	1-X High = Strong (Default)
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Quanta Computer Inc.

Size Custom Document Number **IBEX PEAK-M 4/6** Rev

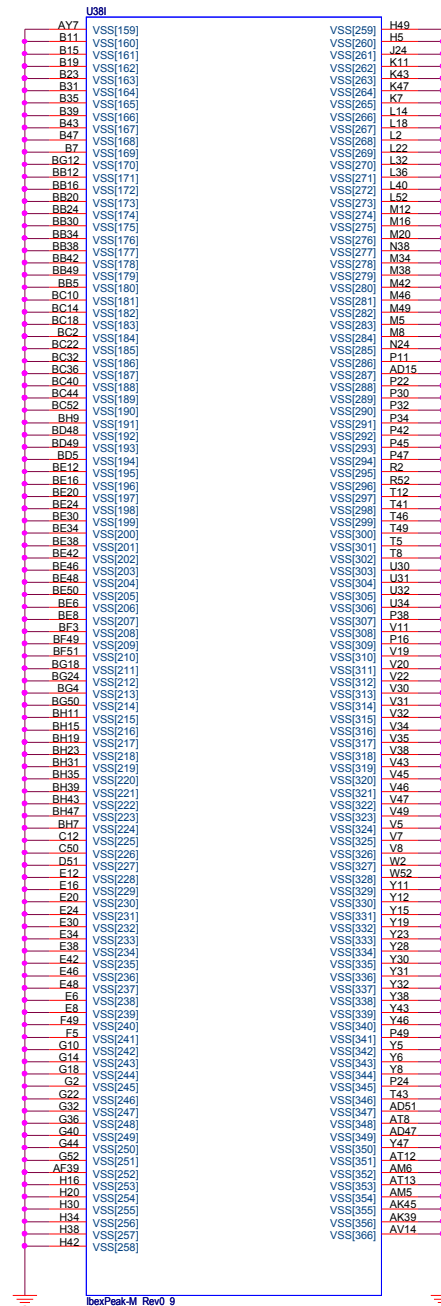
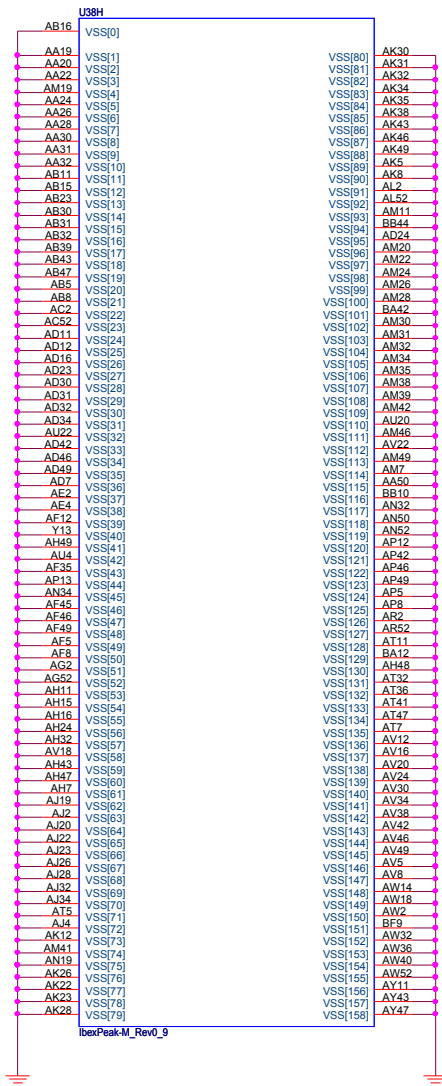
Date: Tuesday, November 17, 2009 Sheet 11 of 46

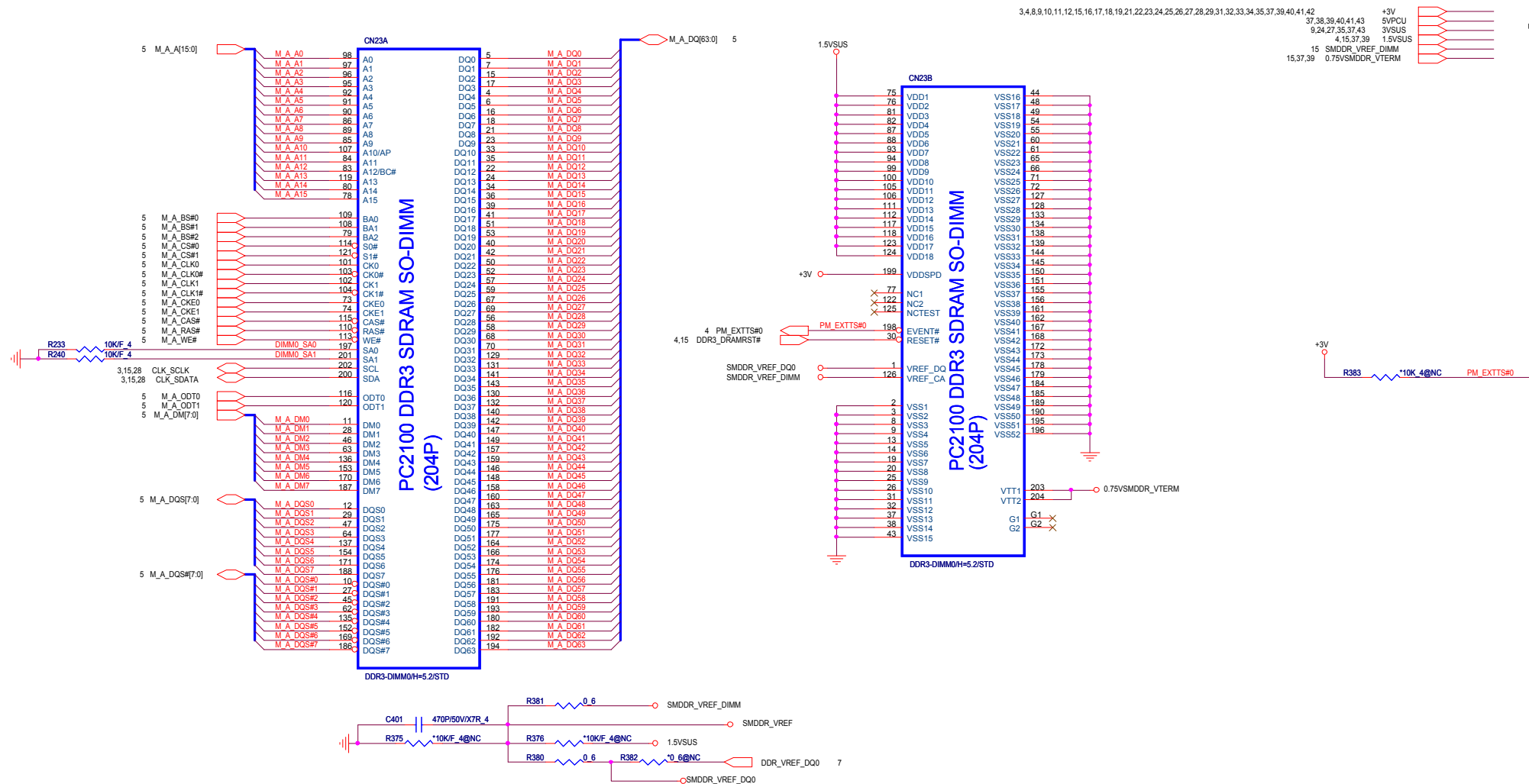
IBEX PEAK-M (POWER)



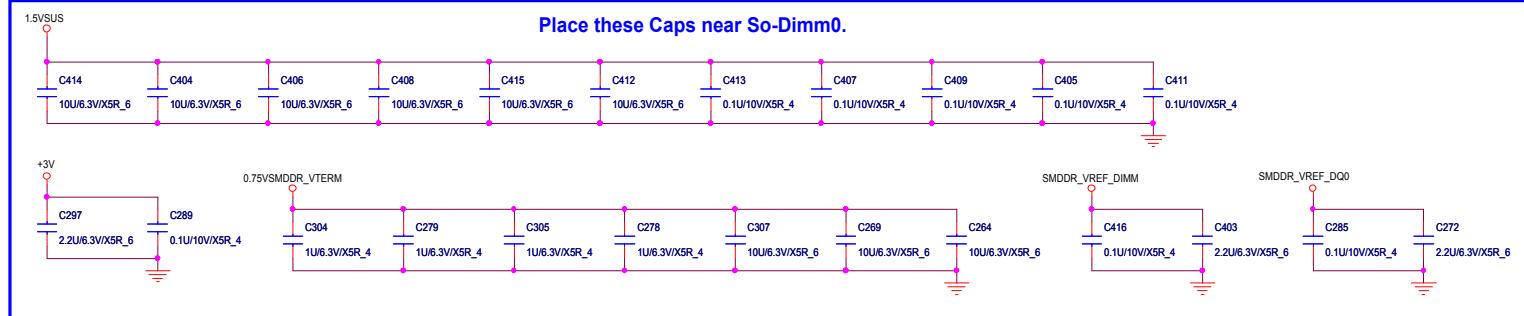
IBEX PEAK-M (GND)

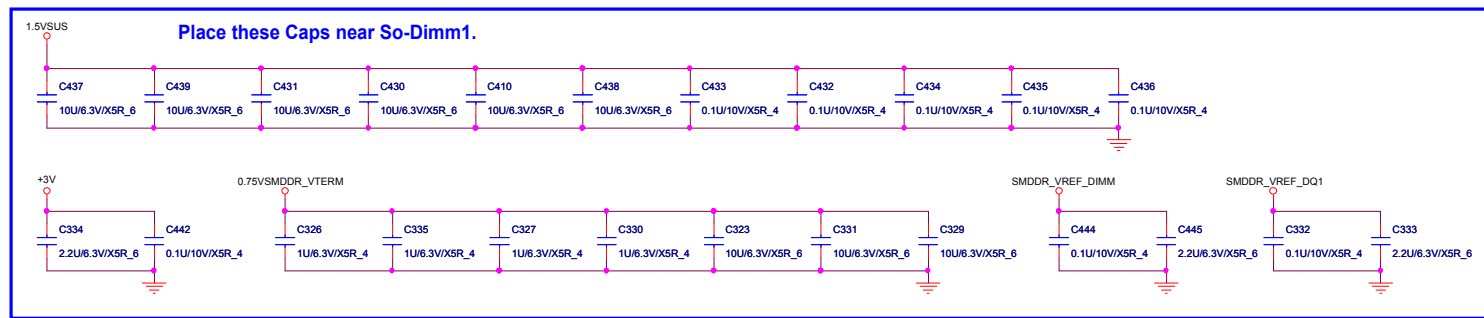
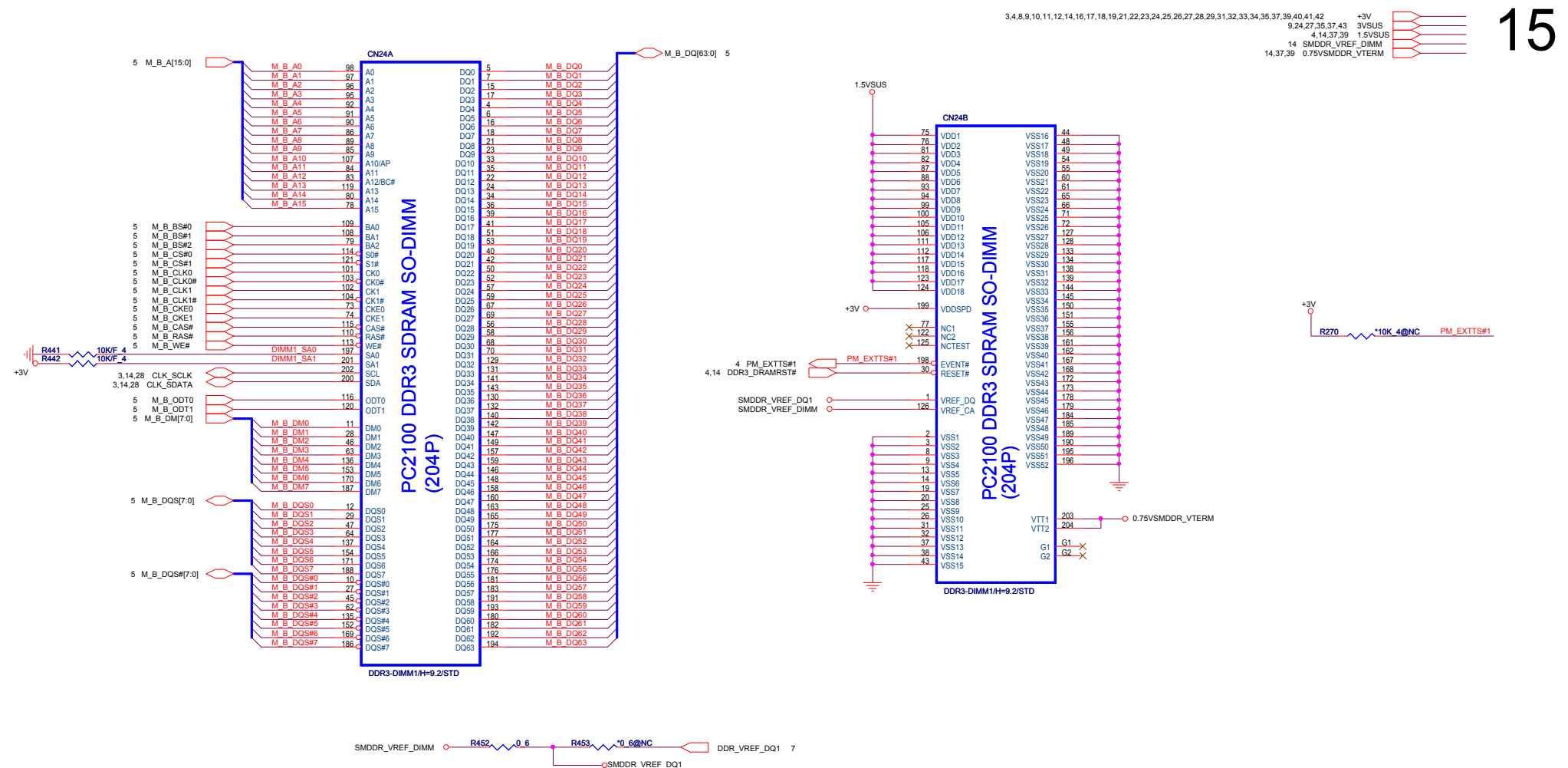
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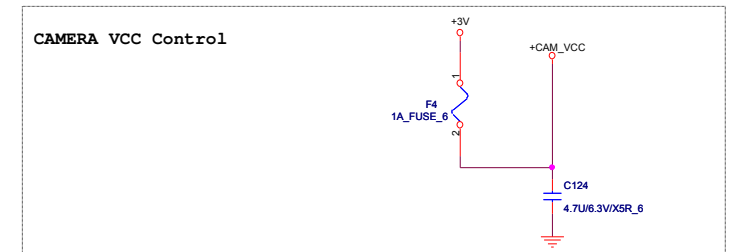
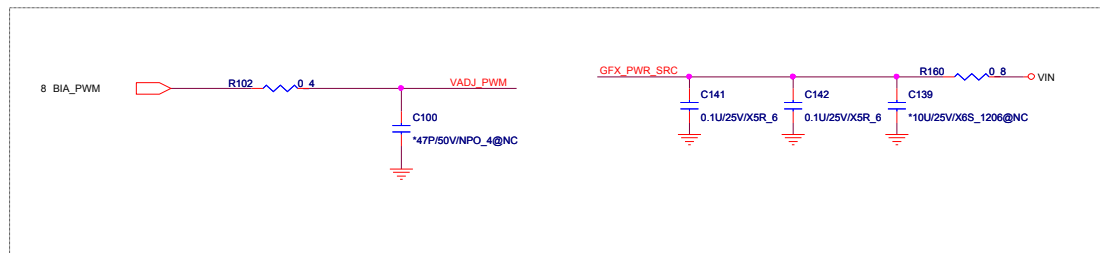
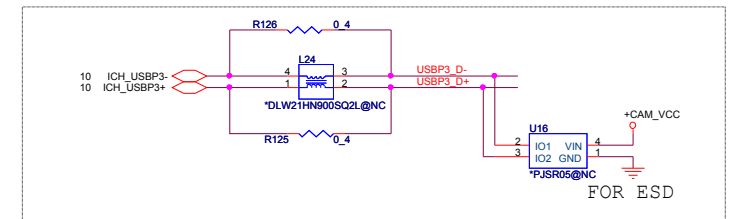
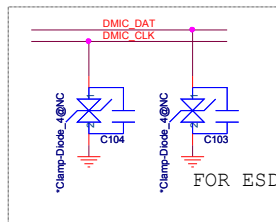
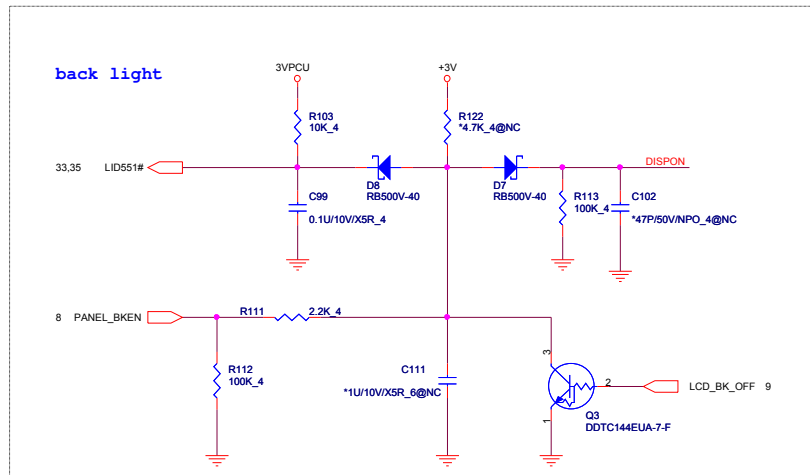
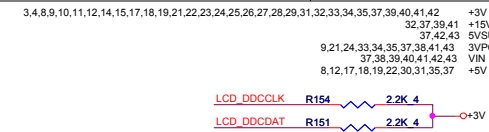
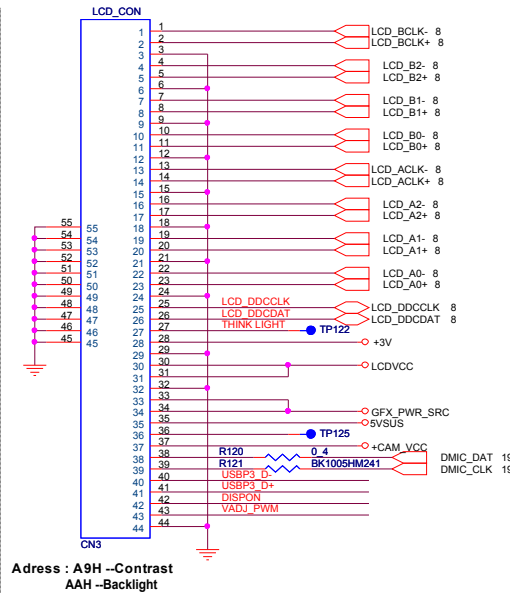
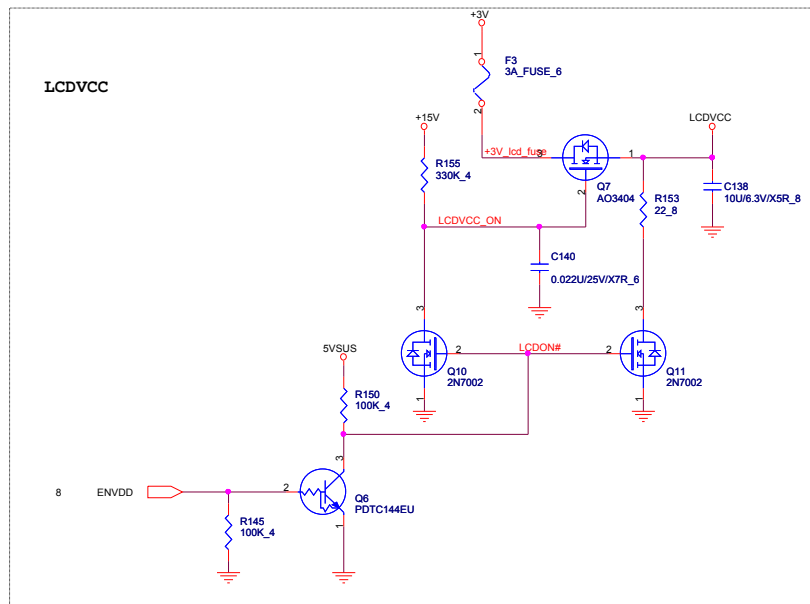




Place these Caps near So-Dimm0.

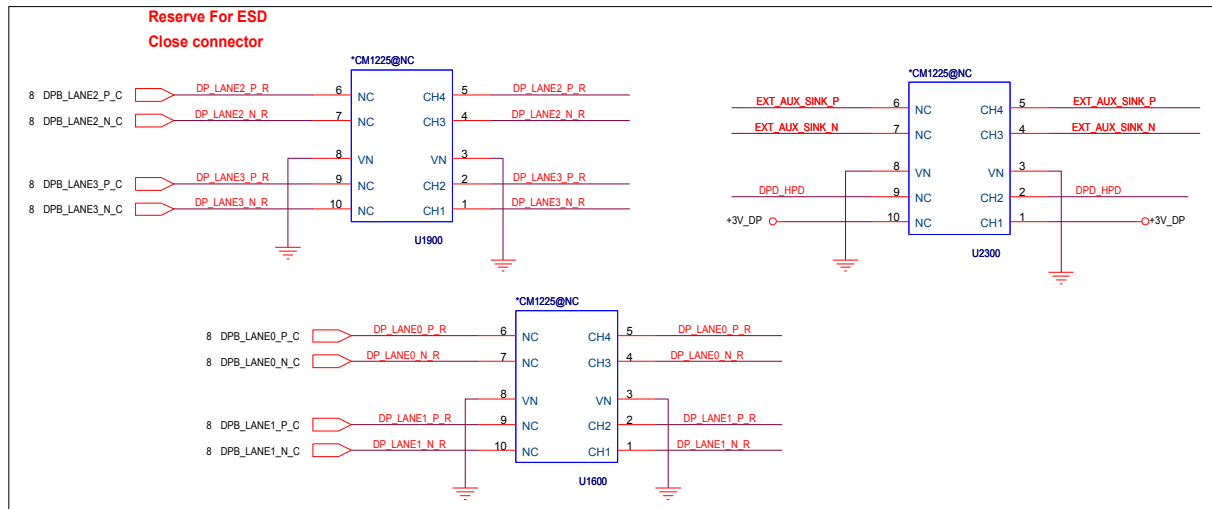
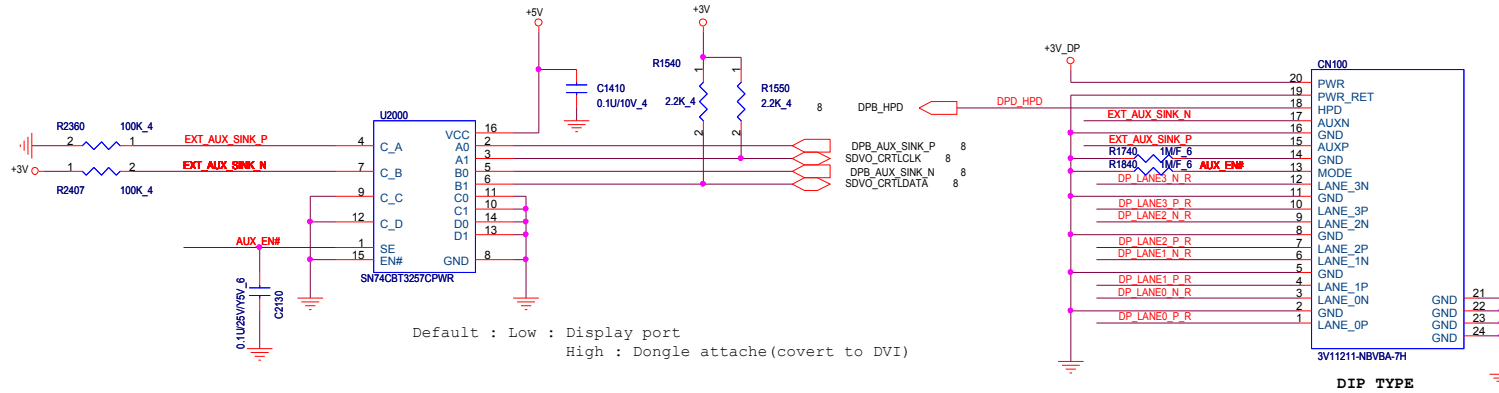




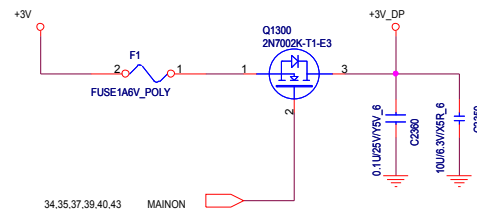
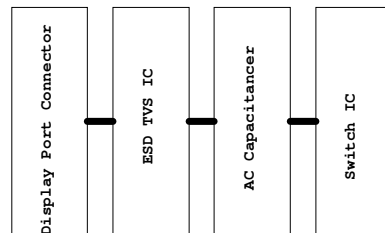


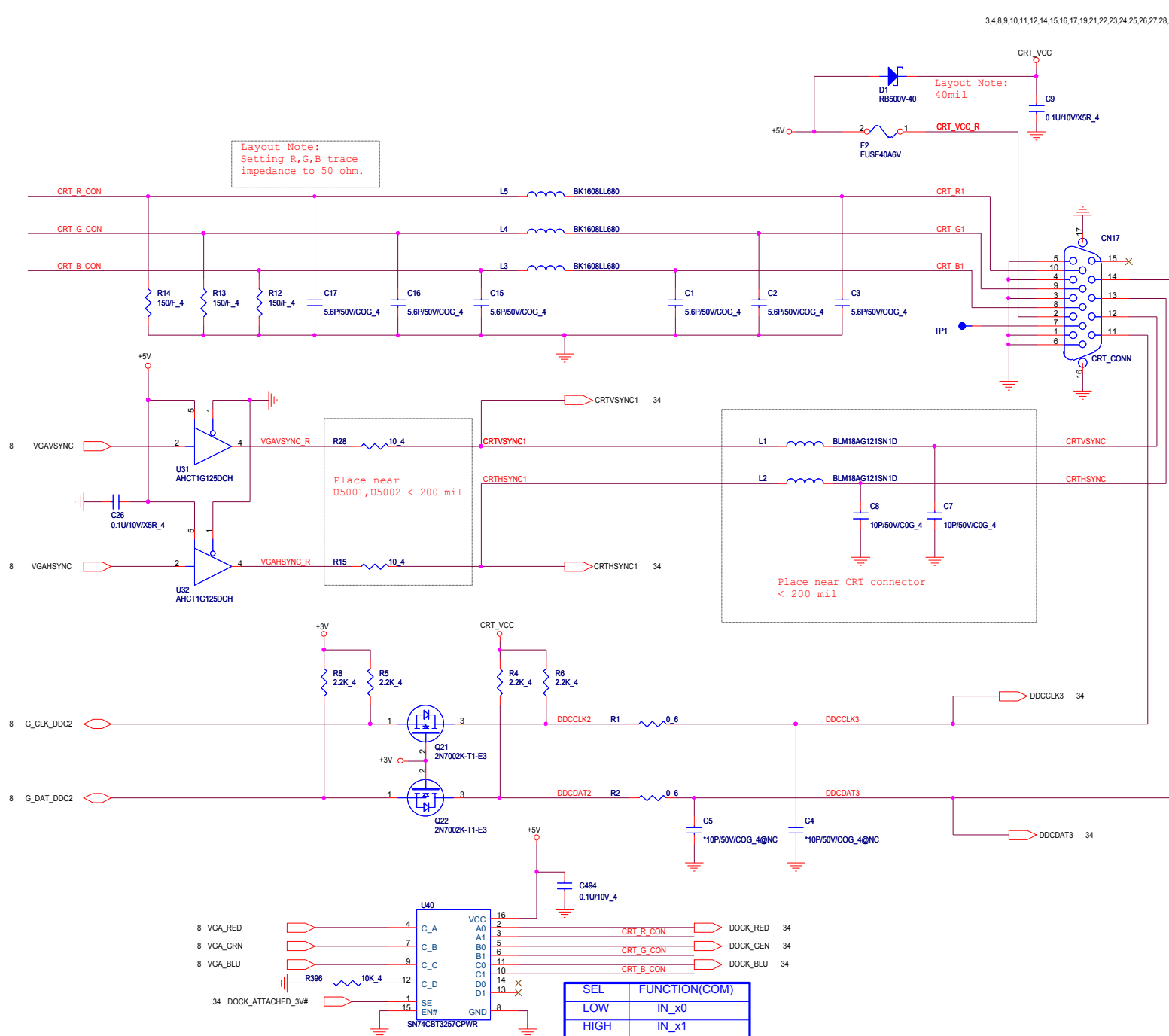
Display Port

17

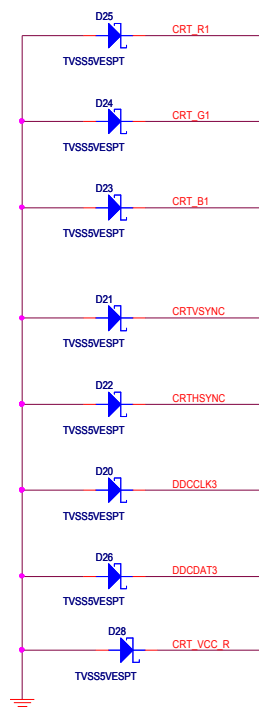


Layout Topology

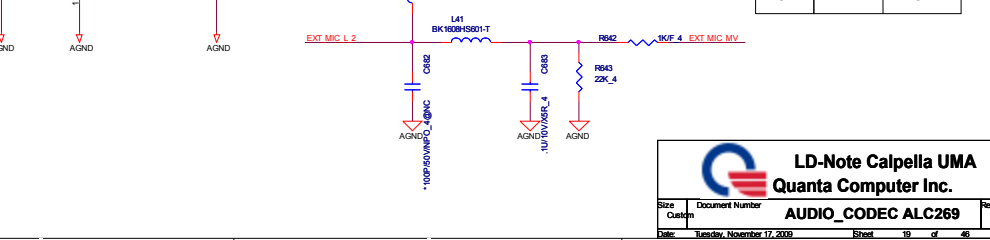
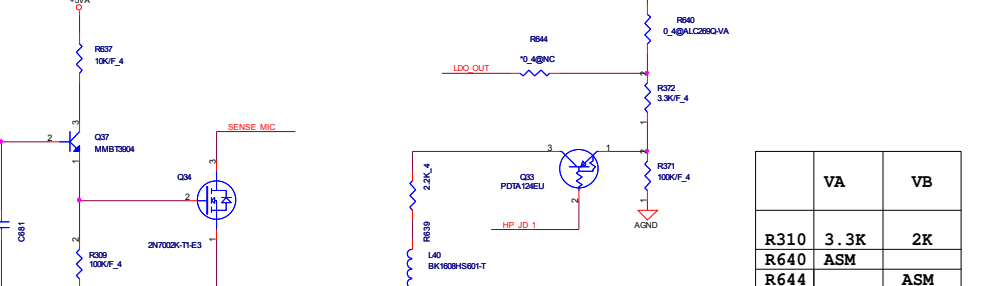
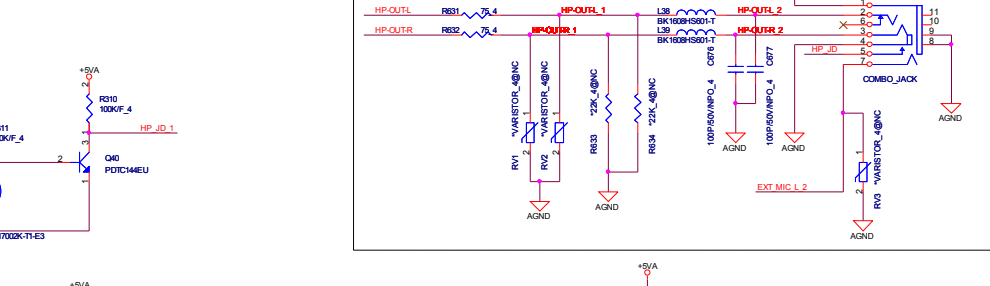
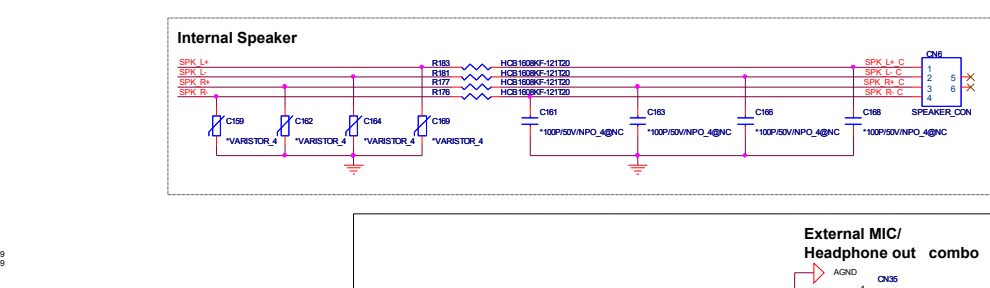
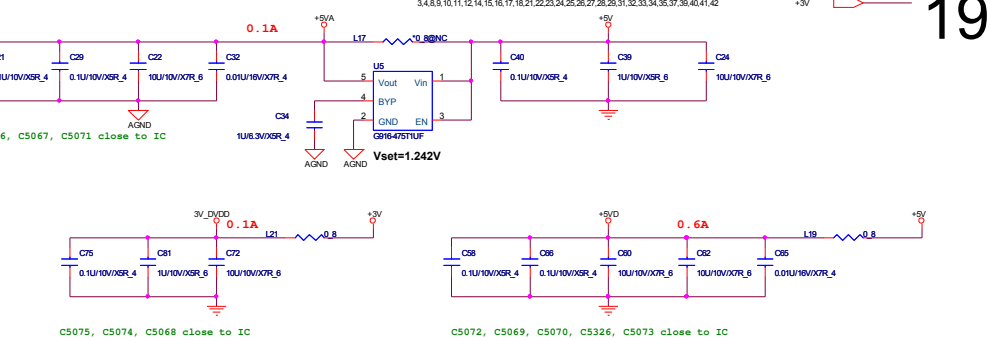
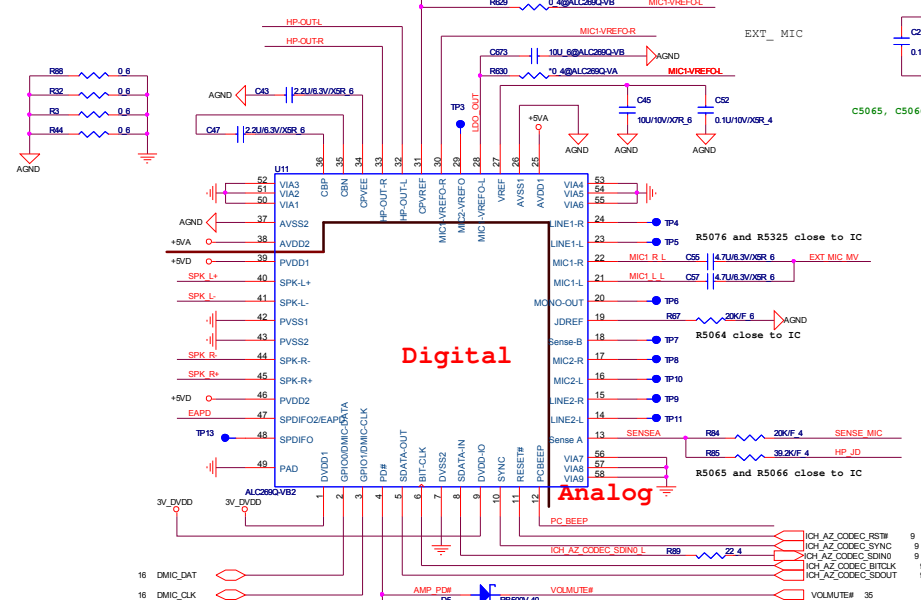




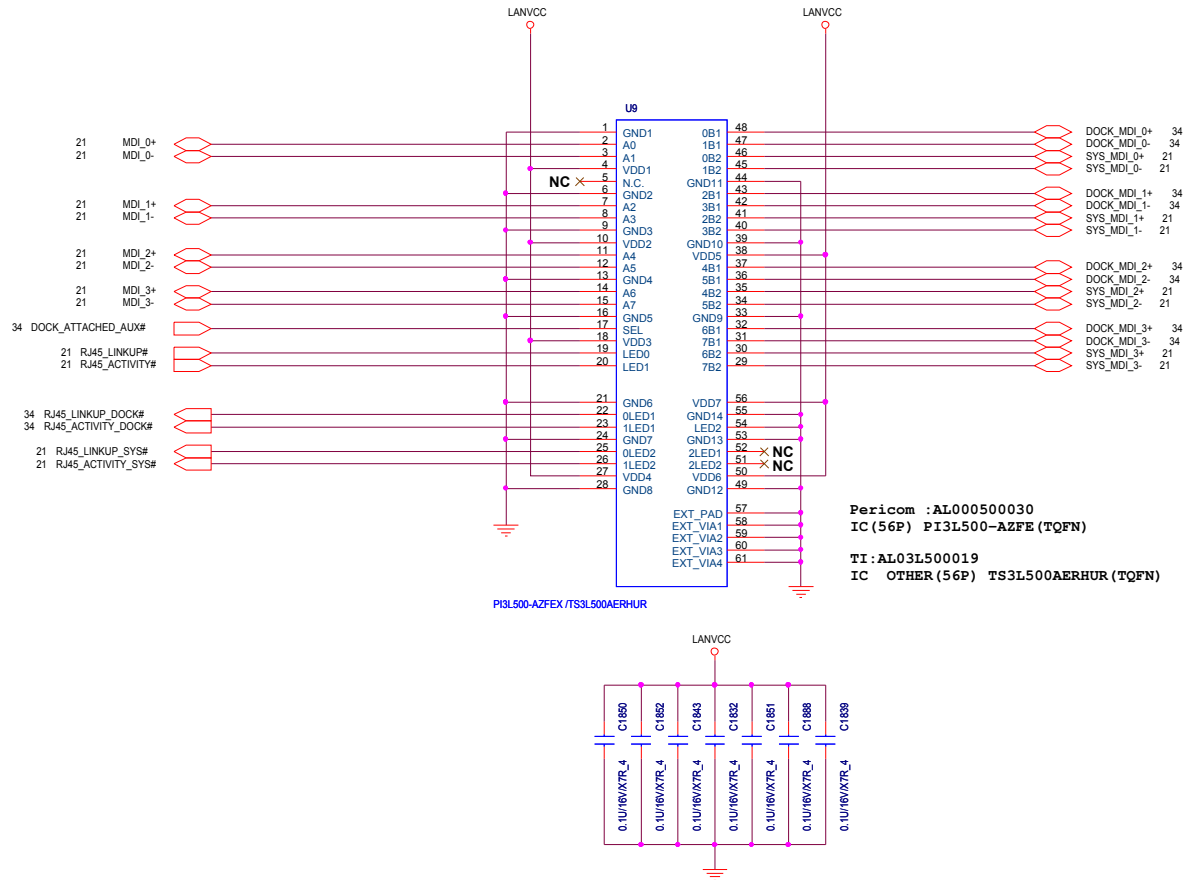
ESD PROTECTION

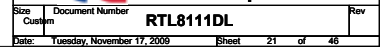


HDAudio Codec



	VA	VB
R310	3.3K	2K
R640	ASM	
R644		ASM



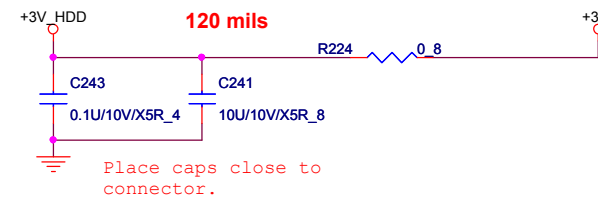
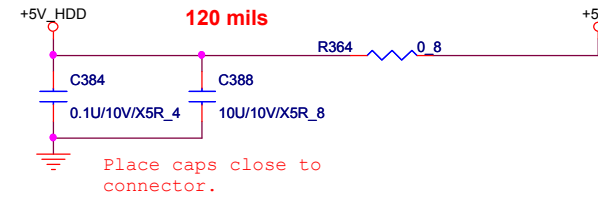
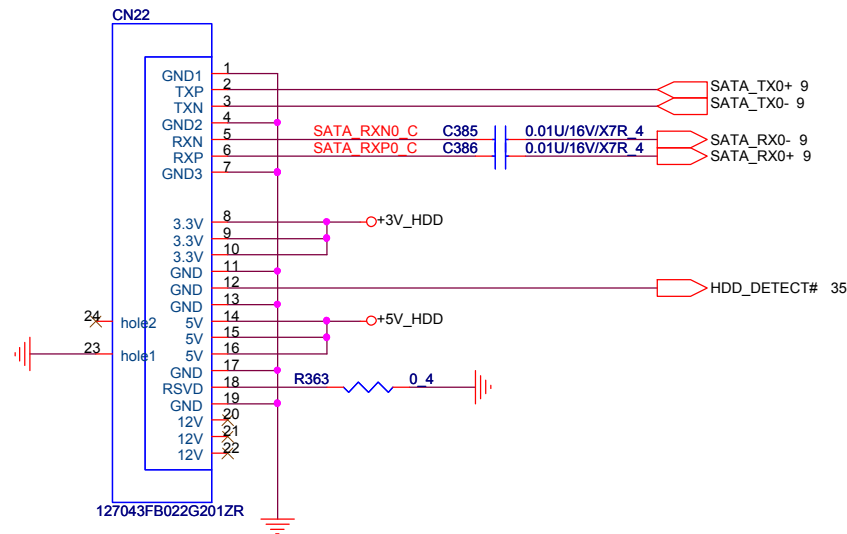


SATA Connector.

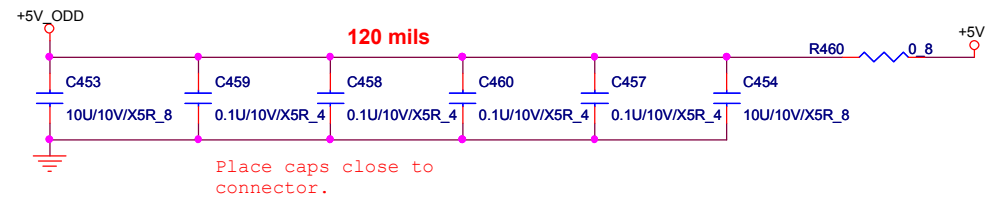
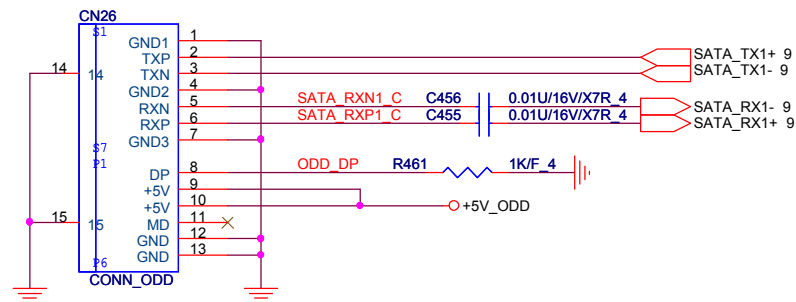
3,4,8,9,10,11,12,14,15,16,17,18,19,21,23,24,25,26,27,28,29,31,32,33,34,35,37,39,40,41,42

8,12,17,18,19,30,31,35,37
+5V
+3V

22



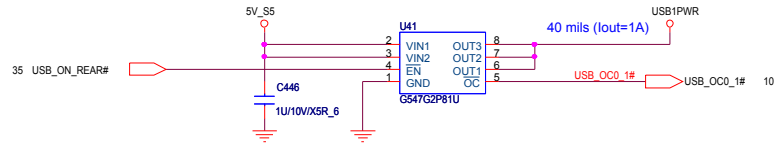
ODD Connector



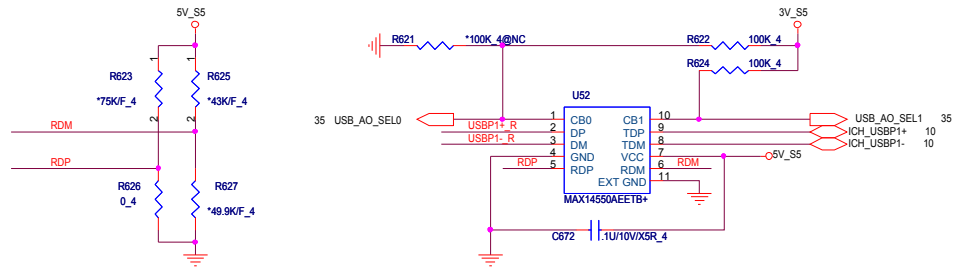
LD-Note Calpella UMA
Quanta Computer Inc.

Size	Document Number	Rev
Custom	SATA (HDD&CD_ROM)	
Date:	Tuesday, November 17, 2009	Sheet 22 of 46

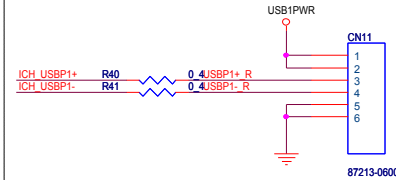
USBX1



Support Black-berry function



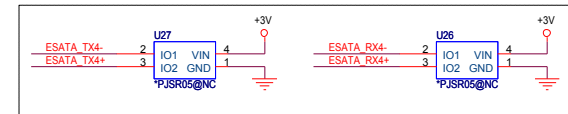
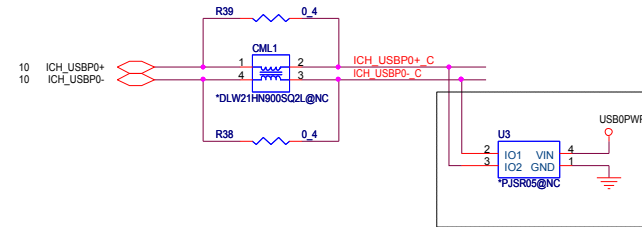
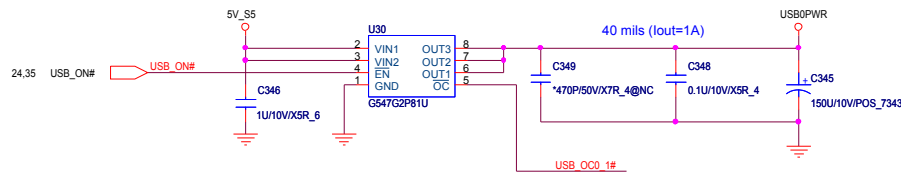
USB X1----> Wire to board conn



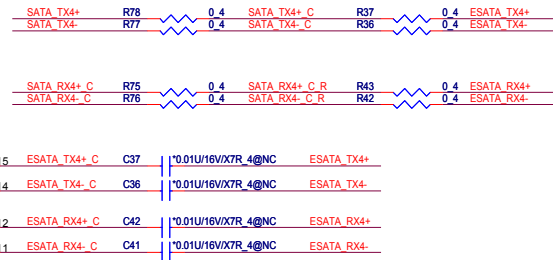
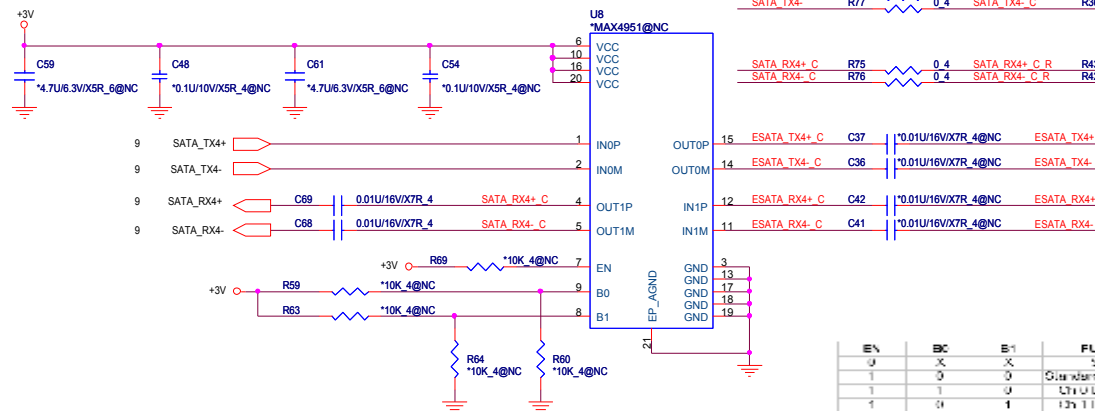
USB 1

	w/ AOU3	w/o AOU3
R40	NO ASM	ASM
R41	NO ASM	ASM
U52	ASM	NO ASM
R622	ASM	NO ASM
R624	ASM	NO ASM
R626	ASM	NO ASM
C676	ASM	NO ASM

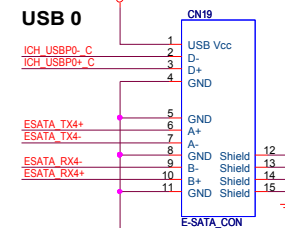
USB + E-SATA



E-SATA RE-DRIVER

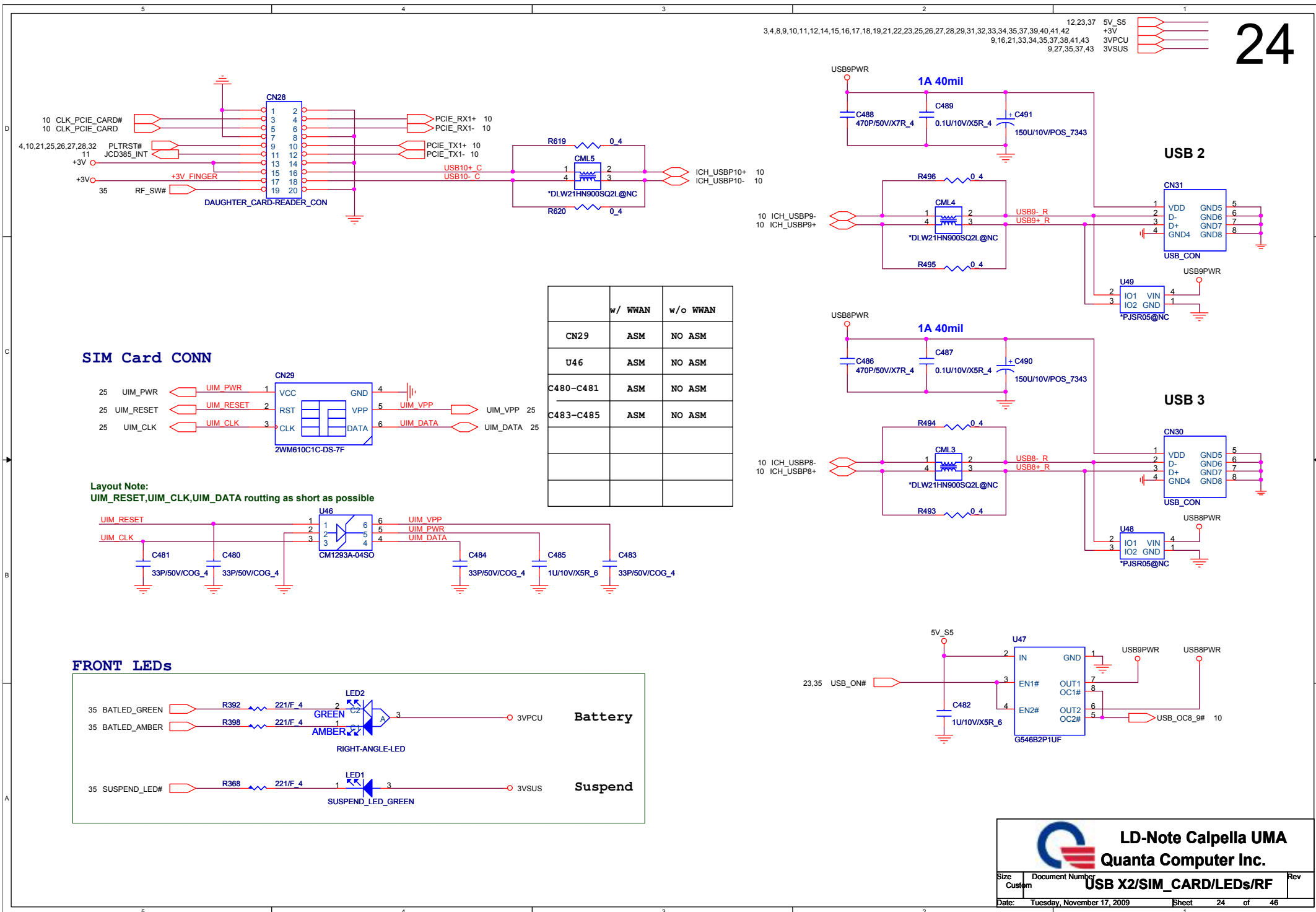


EN	BC	B1	FUNCTION
0	X	X	Standby
1	0	0	Standard SATA Output
1	1	0	On-Chip SATA Output
1	0	1	On-Chip SATA Output
1	1	1	On-Chip SATA Output



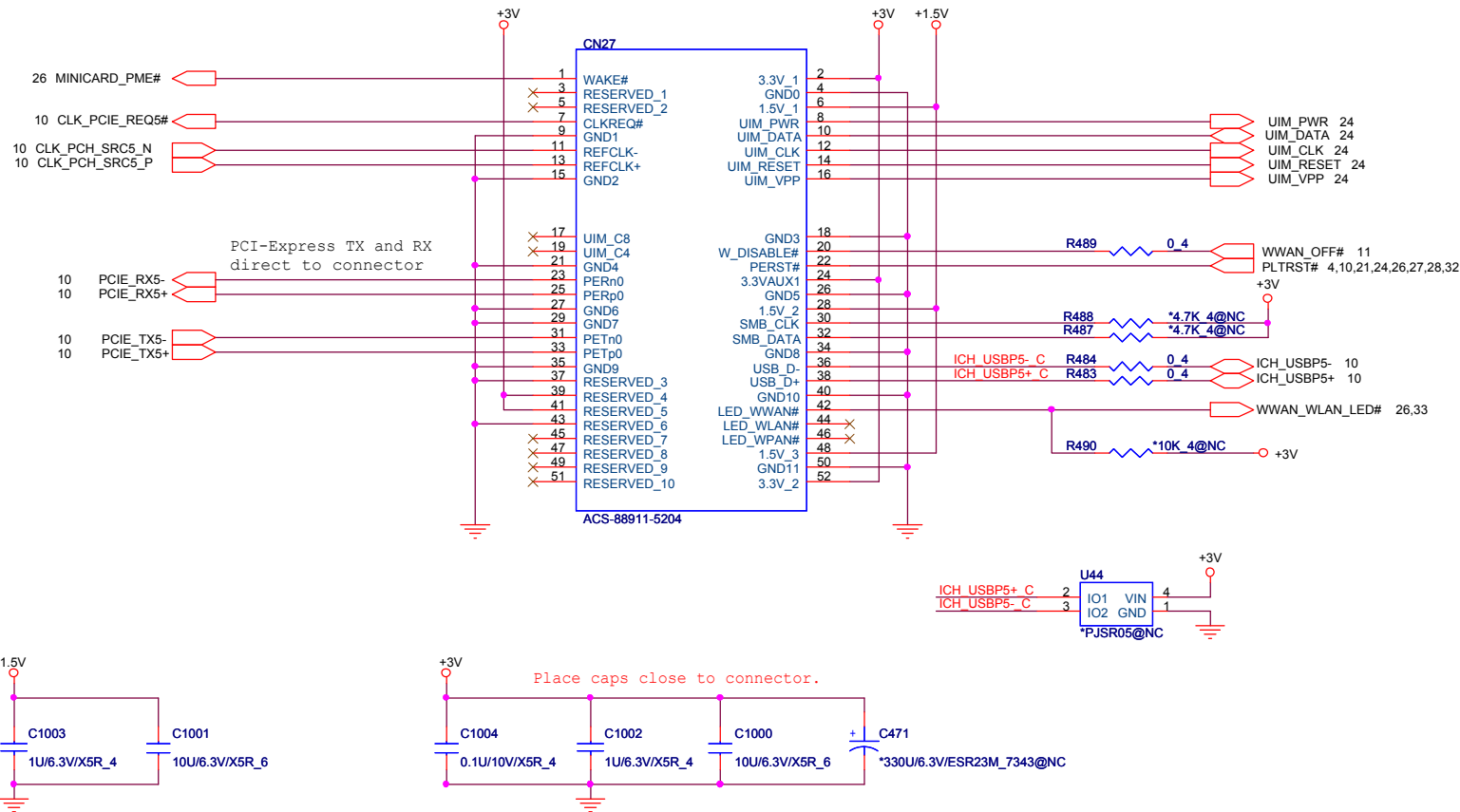
LD-Note Calpella UMA
Quanta Computer Inc.

Size	Document Number	Rev
Custom	USB X1/USB+ESATA	
Date:	Tuesday, November 17, 2009	Sheet 23 of 46



MiniCard WWAN connector

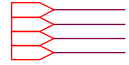
25



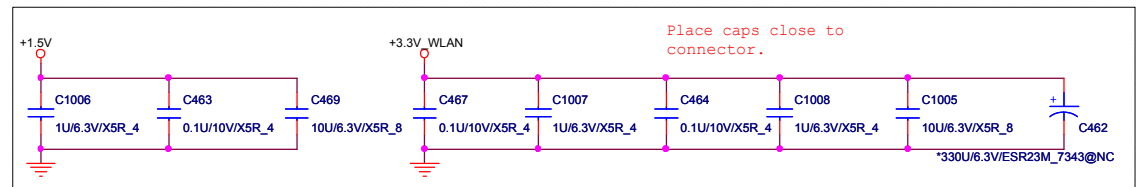
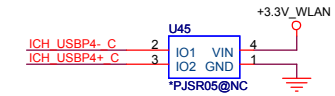
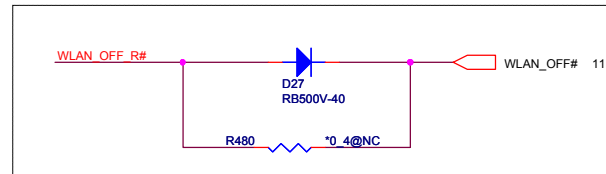
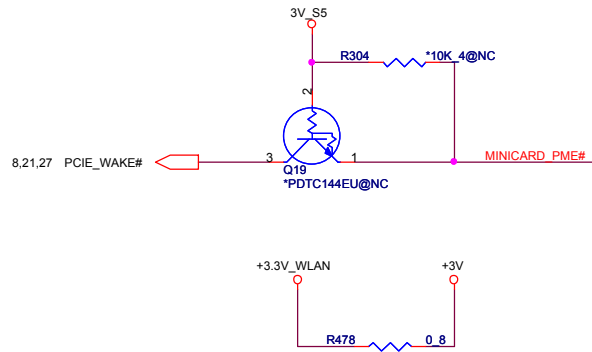
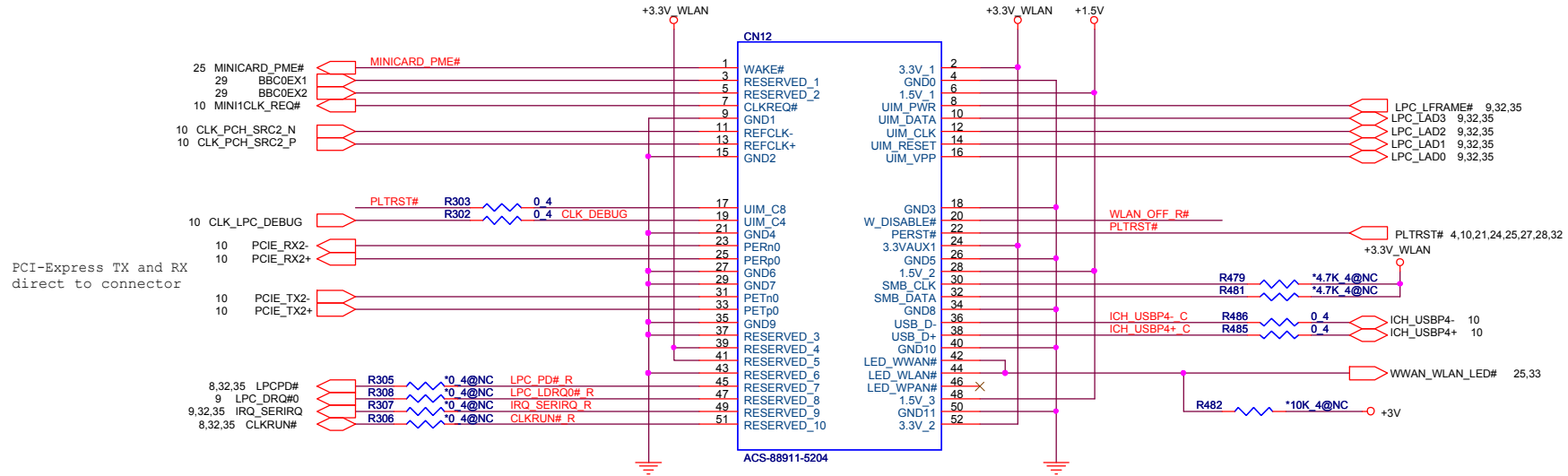
	w/ WWAN	w/o WWAN
CN27	ASM	NO ASM
R489	ASM	NO ASM
R484	ASM	NO ASM
R483	ASM	NO ASM
C1000~C1004	ASM	NO ASM

MiniCard WLAN/WiMAX connector

3,4,8,9,10,11,12,14,15,16,17,18,19,21,22,23,24,25,27,28,29,31,32,33,34,35,37,39,40,41,42
+3V
3,25,27,39 +1.5V
9,16,21,24,33,34,35,37,38,41,43 3VPCU
16,37,38,39,40,41,42,43 VIN



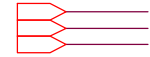
26



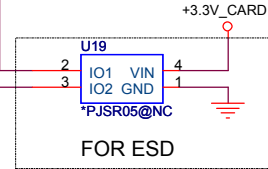
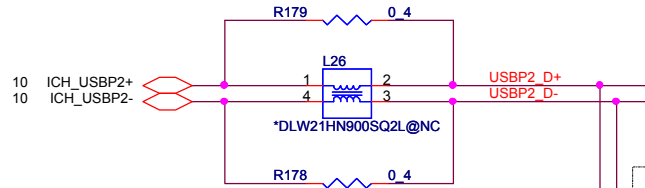
Express Card

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3,25,26,39
9,24,35,37,43

+3V
+1.5V
3VSUS

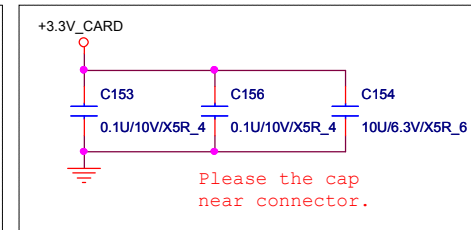
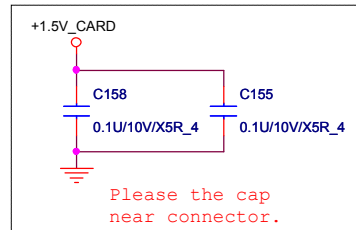
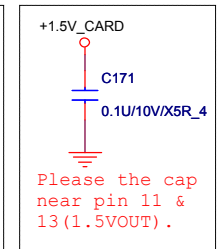
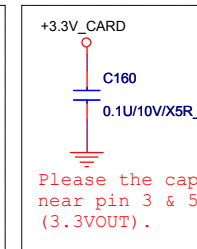
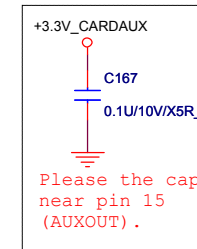
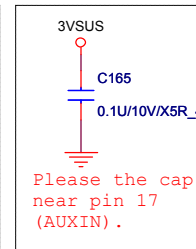
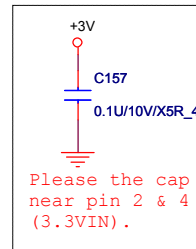
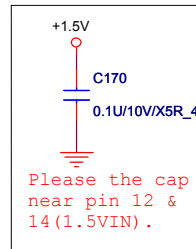
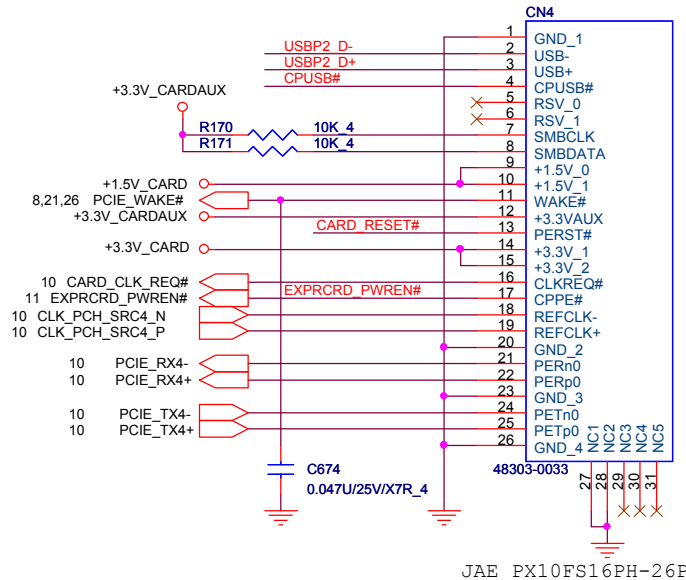
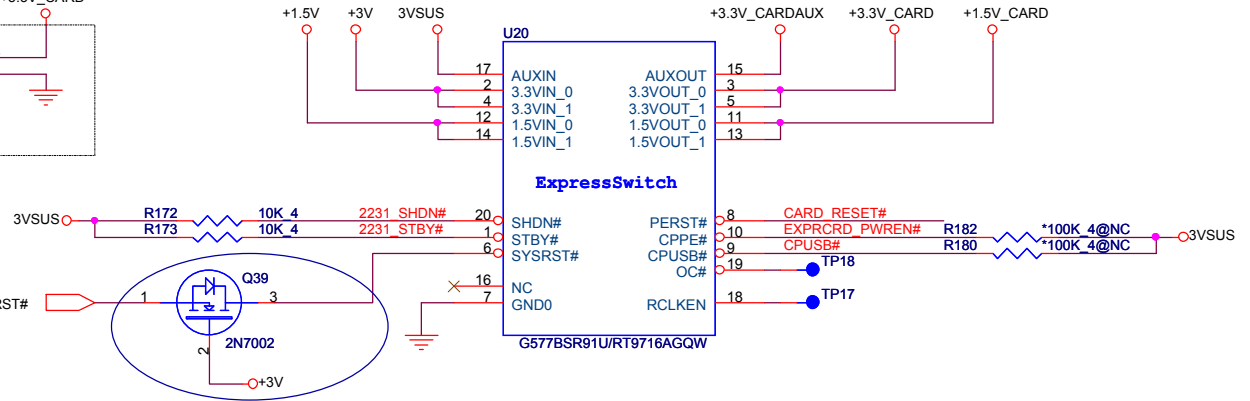


27



+1.5V_CARD Max. 650mA, Average 500mA.
+3V_CARD Max. 1300mA, Average 1000mA.

20090928
avoid current leakage



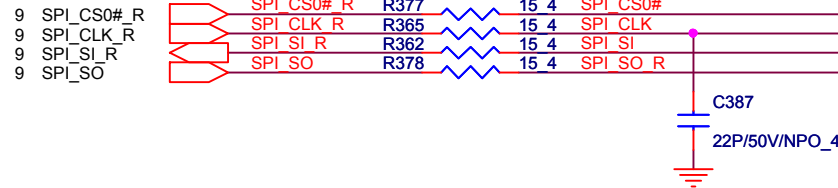
LD-Note Calpella UMA
Quanta Computer Inc.

Size	Document Number	Rev
Custom	Express Card	
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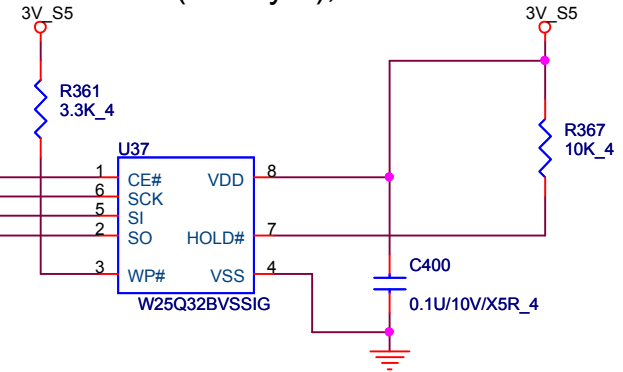
iTPM ENABLE/DISABLE



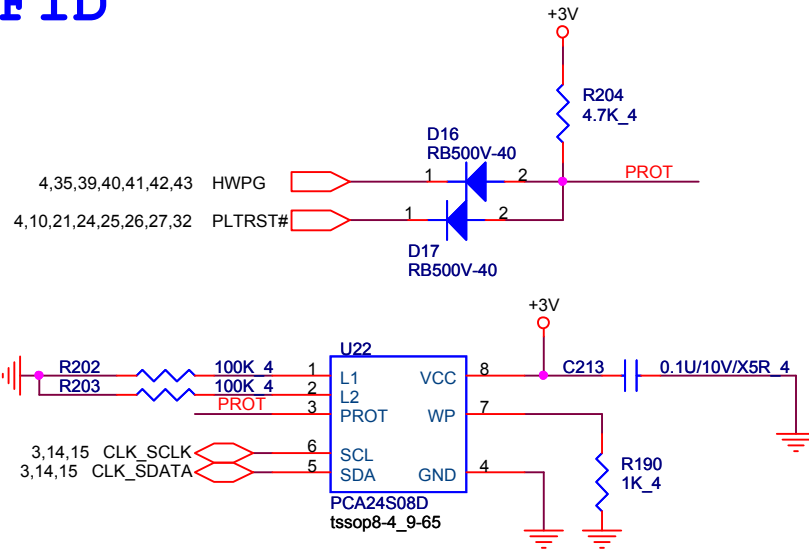
iTPM Function	R366
Enable	1K
Disable	NC



For PCH
32Mbit (4M Byte), SPI



RFID



**LD-Note Calpella UMA
Quanta Computer Inc.**

Size	Document Number	Rev
Custom	ITPM & RFID EEPROM	

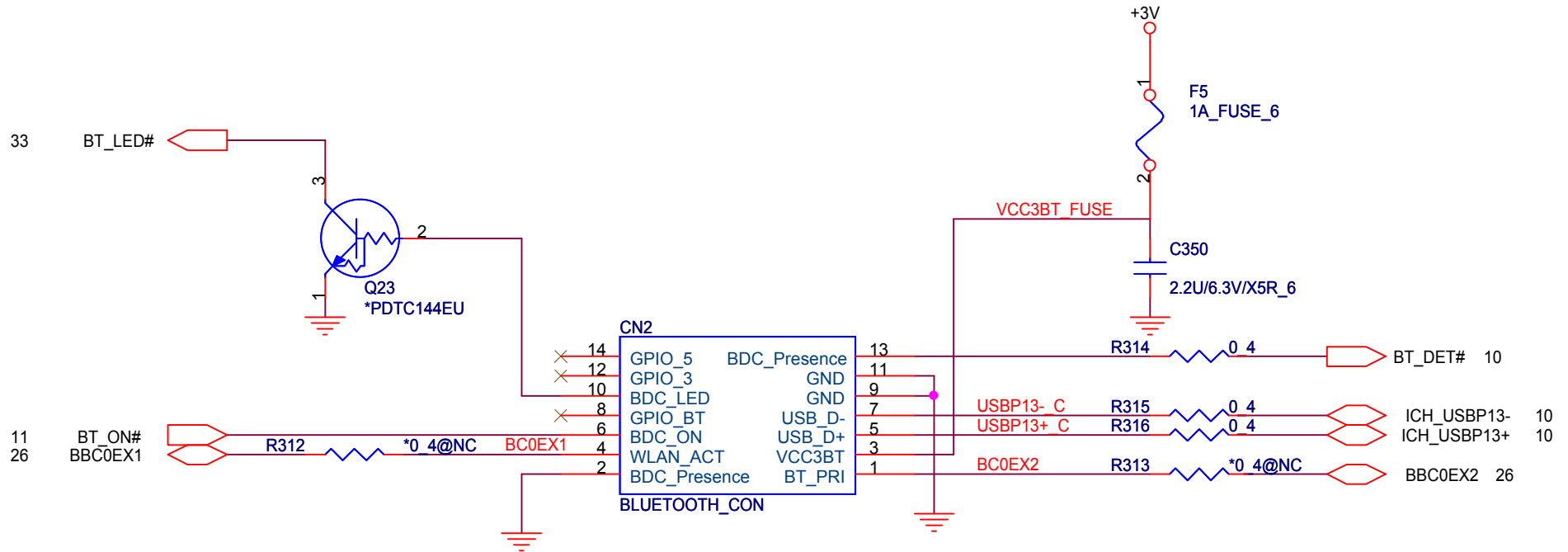
Date: Tuesday, November 17, 2009 Sheet 28 of 46

BLUETOOTH

3,4,8,9,10,11,12,14,15,16,17,18,19,21,22,23,24,25,26,27,28,31,32,33,34,35,37,39,40,41,42

+3V

29

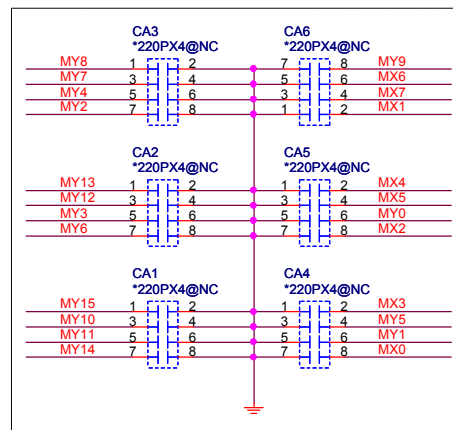
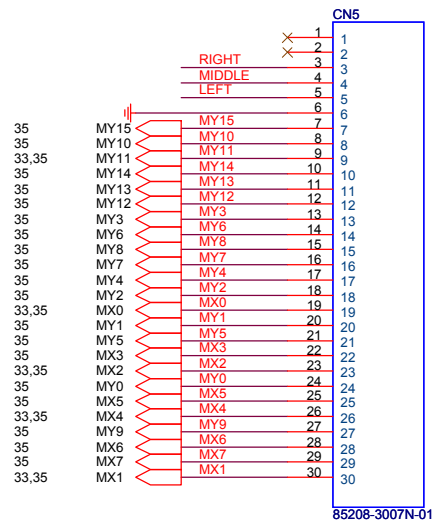


LD-Note Calpella UMA
Quanta Computer Inc.

Size Custom	Document Number B/T	Rev
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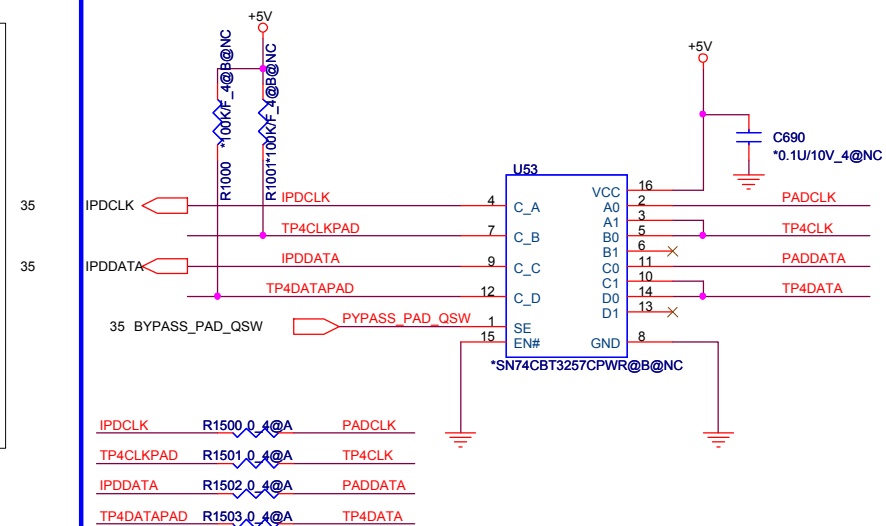
KEYBOARD

KEYBOARD connector



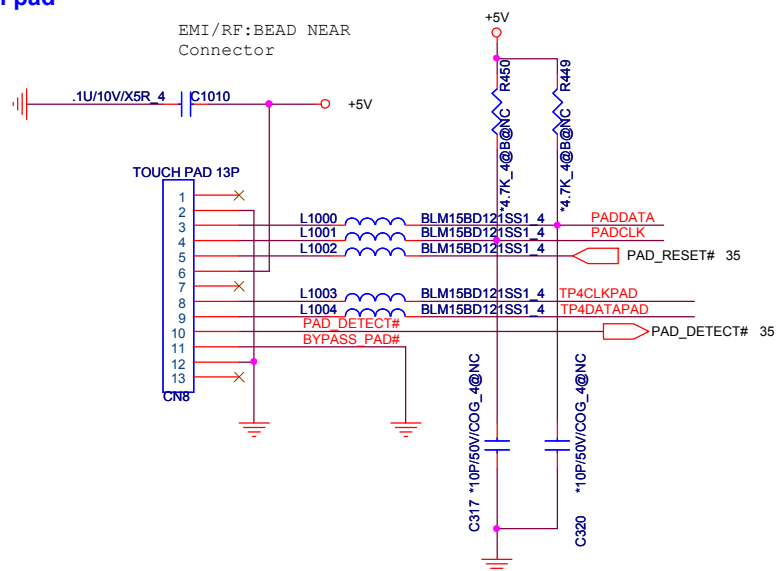
For EMI request

Touch pad/Track point Switch

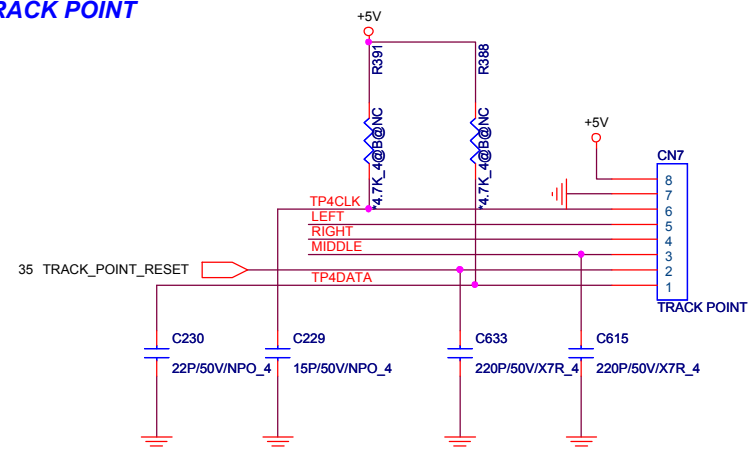


30

Touch pad



TRACK POINT



LD-Note Calpella UMA
Quanta Computer Inc.

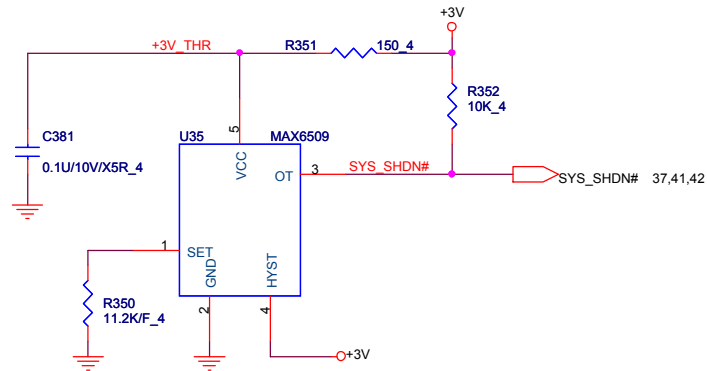
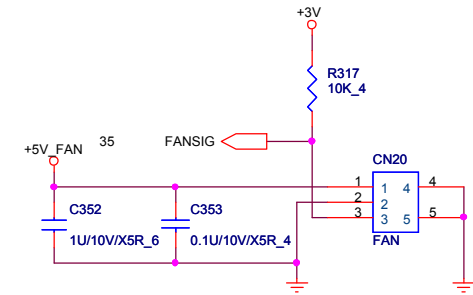
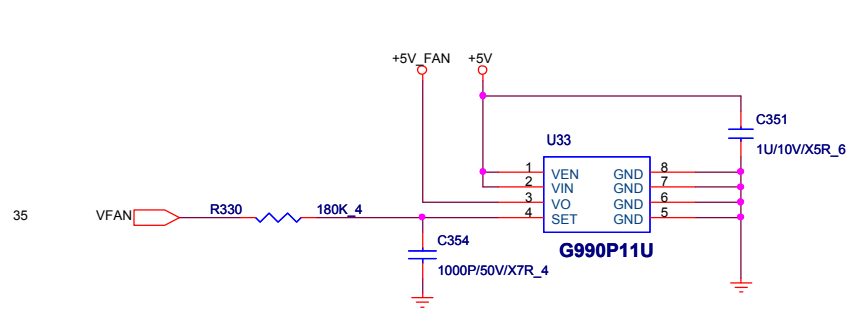
Size Custom	Document Number K/B, T/P	Rev
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FAN CONTROL

3,4,8,9,10,11,12,14,15,16,17,18,19,21,22,23,24,25,26,27,28,29,32,33,34,35,37,39,40,41,42
8,12,17,18,19,22,30,35,37

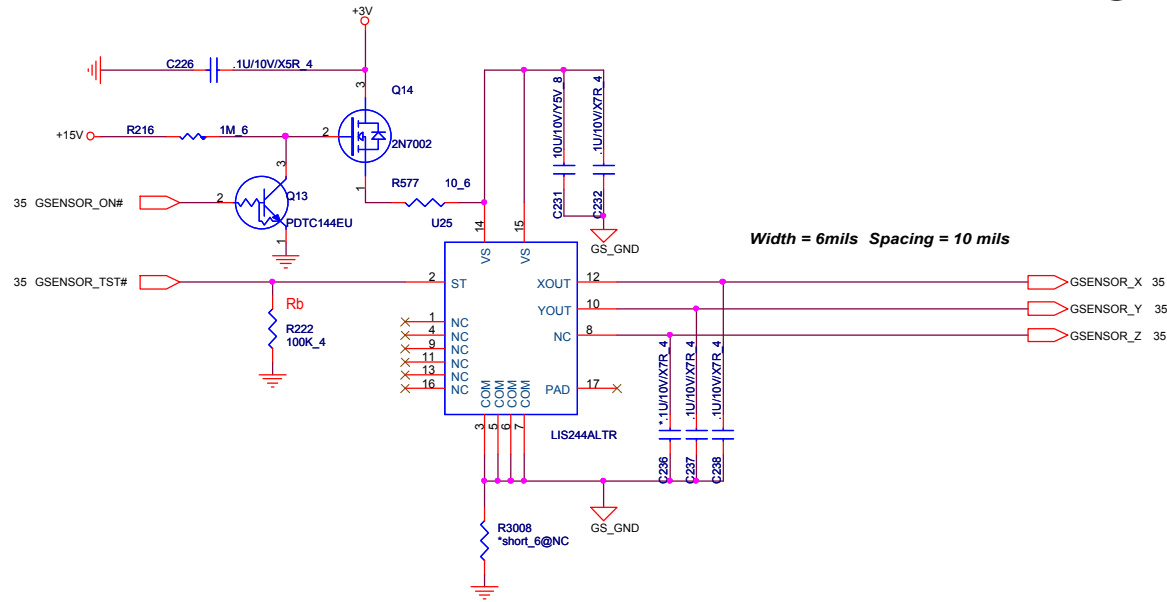
+3V
+5V

31

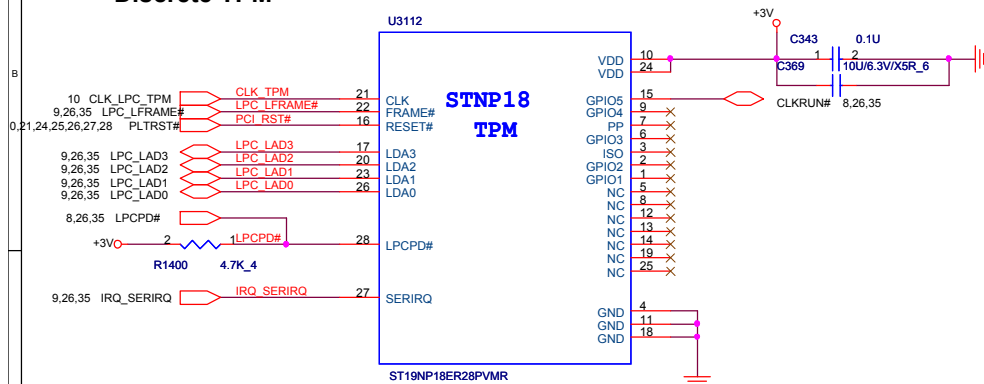


G-SENSOR (2-Axial)

32



Discrete TPM



supplier P/N:ST19NP18ER28PVMR
Quanta P/N:AL19NP18K13
F/P:tssop28-6_4-65-1_2h

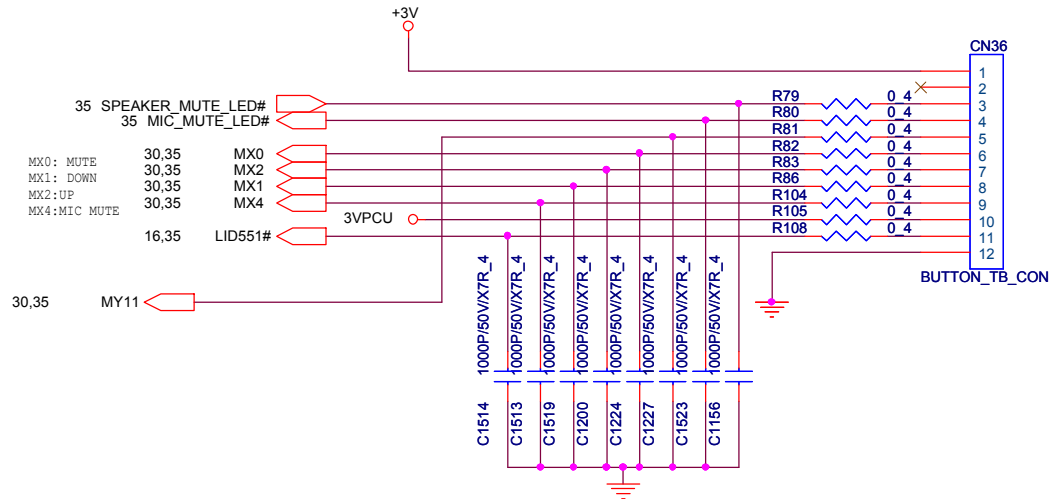


G-Note Montevina
Quanta Computer Inc.

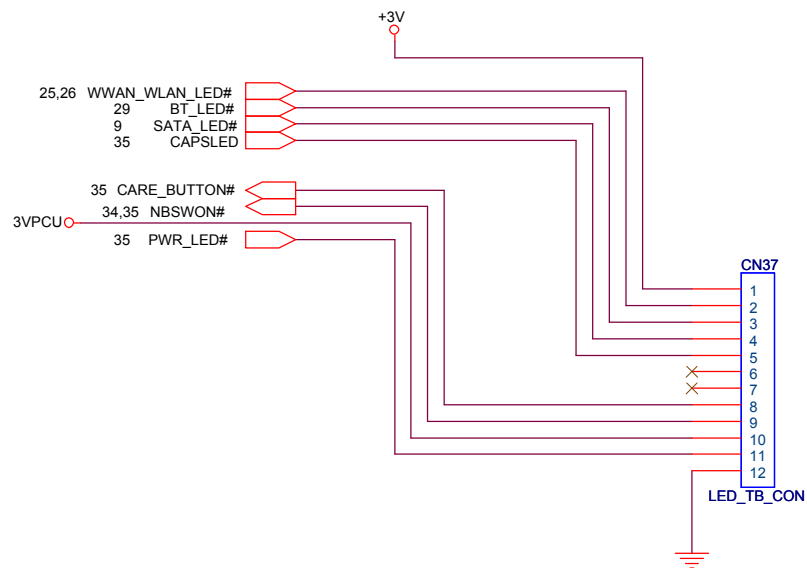
Daughter Boards for LEDs & Ports

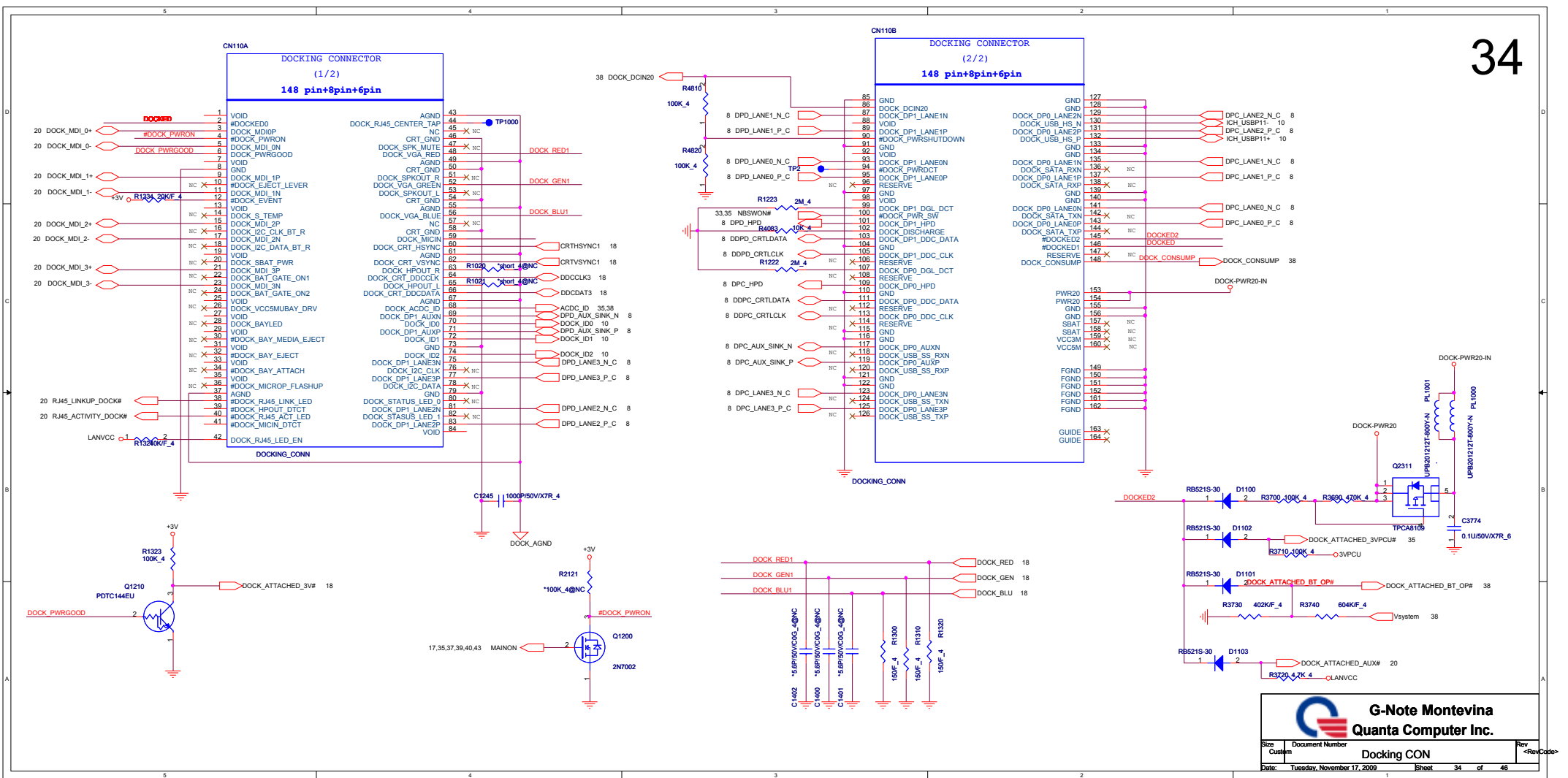
33

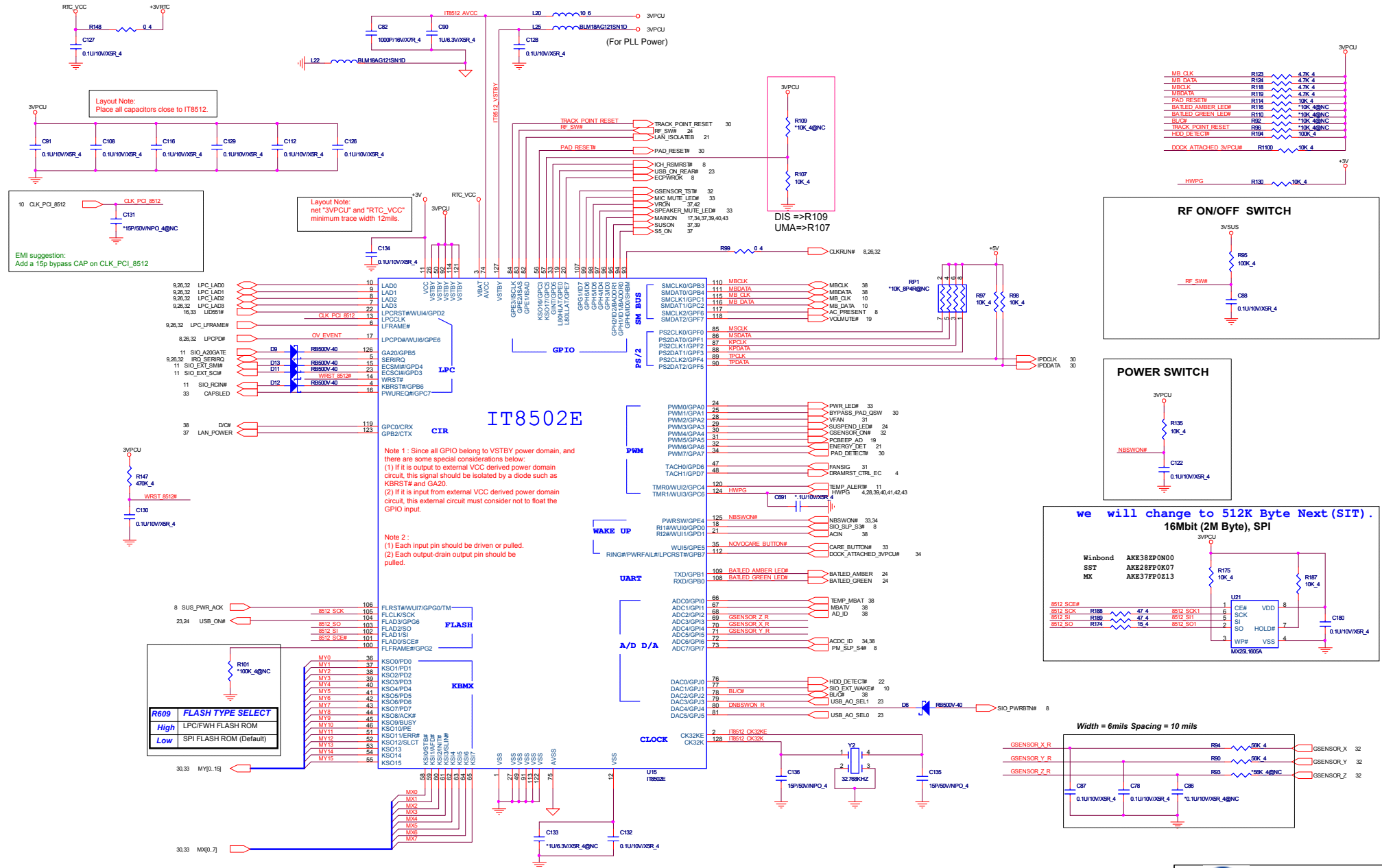
FFC TO KBD LEFT SIDE CONNECTOR



FFC TO LED RIGHT SIDE CONNECTOR







36

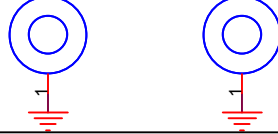
MiniCard WLAN

HOLE13 H-TC197BC142D102P2
HOLE14 H-TC197BC142D102P2



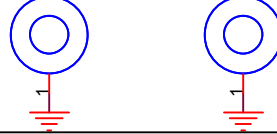
MiniCard WWAN

HOLE35 H-TC236BC102D64P2
HOLE36 H-TC236BC102D64P2



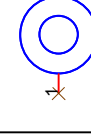
Hole for PCH support

HOLE34 H-BC197D118PB
HOLE33 H-BC197D118PB



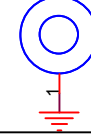
Drink Hole

HOLE8
*O-GC8-2



Bluetooth nut

HOLE3
H-TC197D118PT



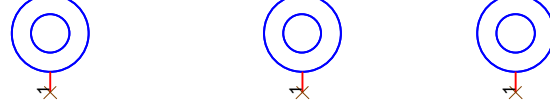
Hole for CPU support

HOLE29 *H-C142D142N@NC
HOLE31 *H-C142D142N@NC
HOLE30 *H-C142D142N@NC
HOLE32 *H-C142D142N@NC



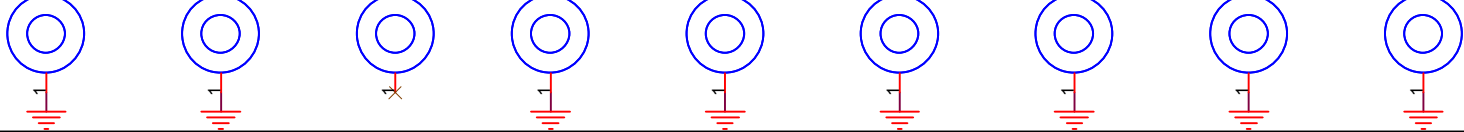
VGA nut

HOLE27 *H-C276D87P2
HOLE28 O-GC8-1
HOLE26 H-TC236BC216D87P2



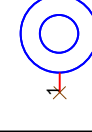
Boundary Hole

HOLE7 *H-C276D87P2
HOLE4 *H-C276D91P2
HOLE5 *H-C86D86N@NC
HOLE15 *H-TC236BC216D87P2H-C209D209N
HOLE10 *H-C276D91P2@NC
HOLE9 *H-BC276D91P2
HOLE17 *H-C276D91P2@NC
HOLE2 *H-C276D91P2@NC



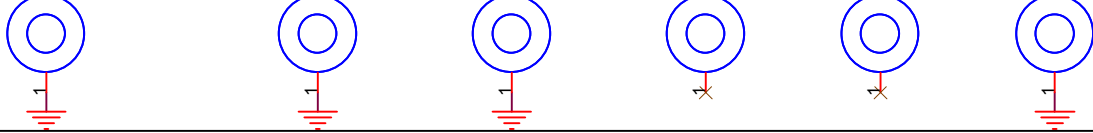
Break Hole

HOLE11
*o-gc4@NC



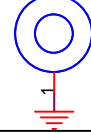
Boundary Hole

HOLE6 *H-TSHAPEBC276D91P2-1@NC
HOLE16 *H-C276D91P2@NC
HOLE25 *H-C276D91P2@NC
HOLE23 *H-C79D79N
HOLE21 *H-BC276D87PB
HOLE24 *H-C157D91P2@NC



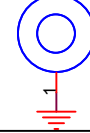
K/B Control/B Nut

HOLE18
*H-TC189D122PT



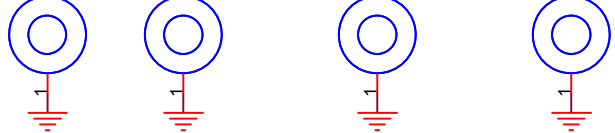
Boundary Hole (ODD)

HOLE12
*H-C276D91P2@NC

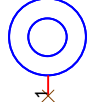


PAD

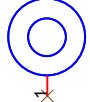
GP2 *SPAD-SPE1NP
GP3 *SPAD-RE197X217NP
GP1 *RE236X494NP
GP4 *RE270X220NP



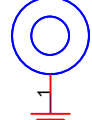
HOLE19
O-GC2A-1



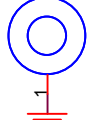
HOLE20
O-GC2A-2



HOLE22
*H-TC181D93PT



HOLE37
*H-TC189BC158D122P2



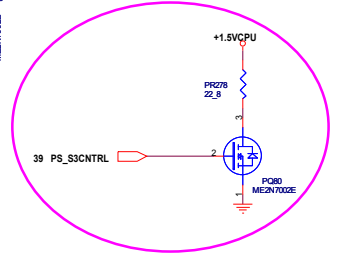
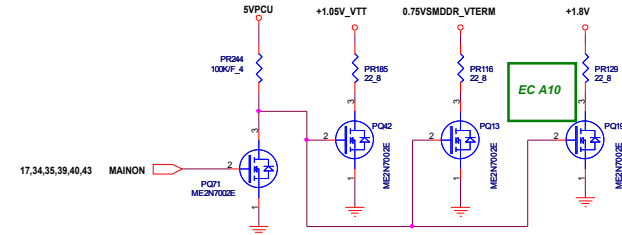
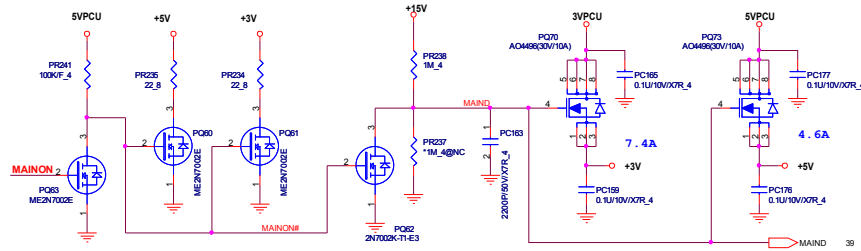
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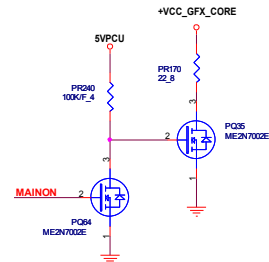
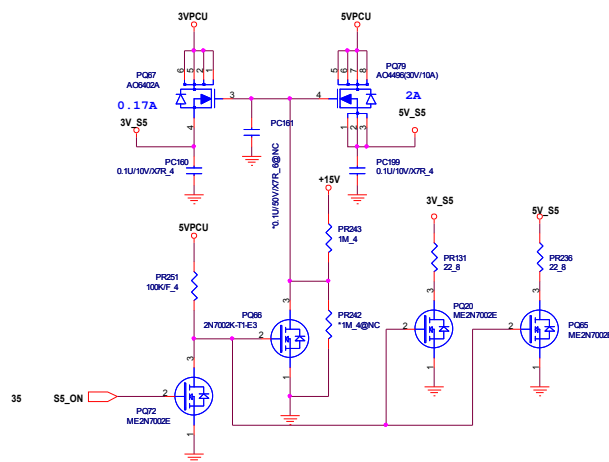
DISCHARGE

+3.3V, +5V

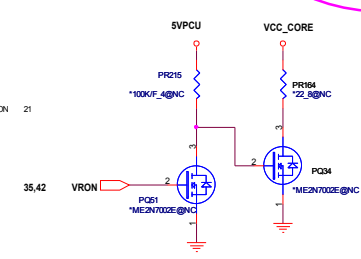
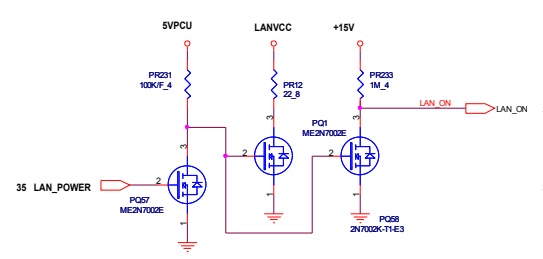
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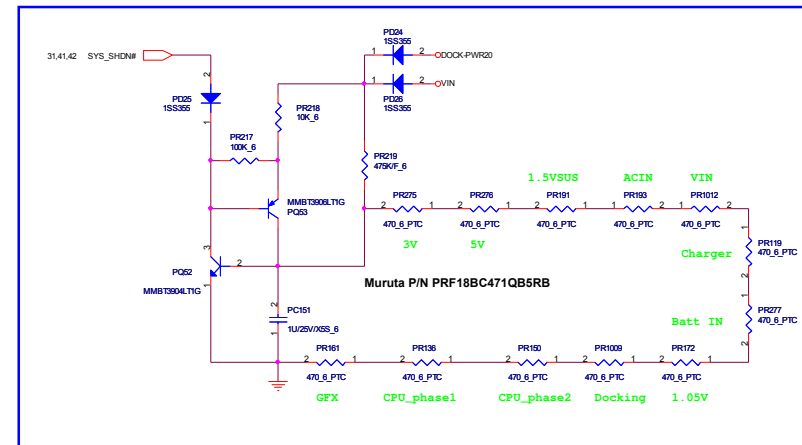
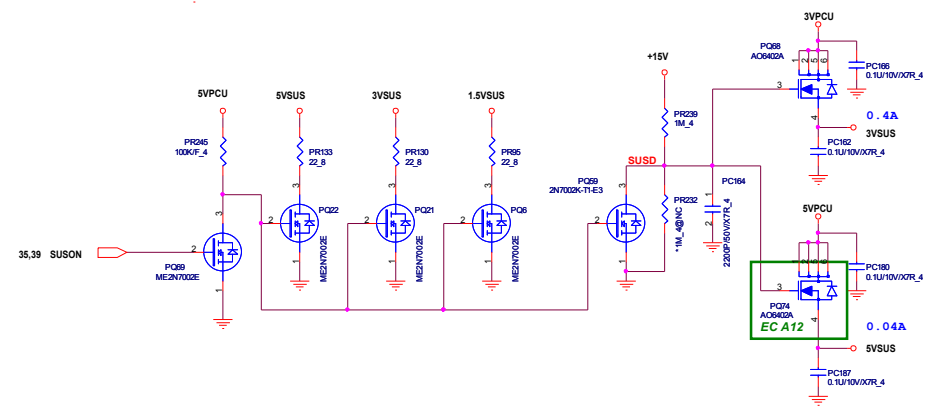
3V_S5, 5V_S5

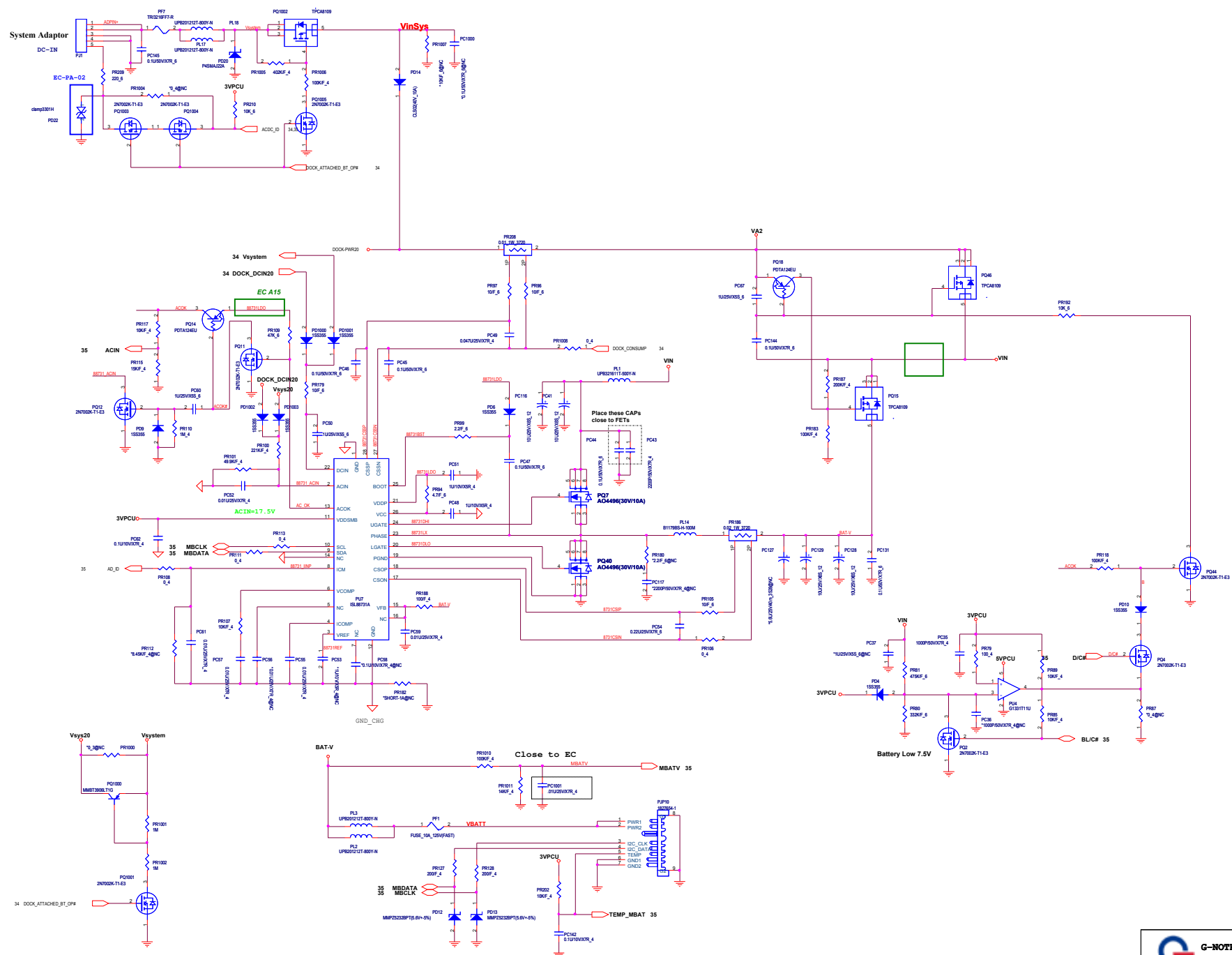


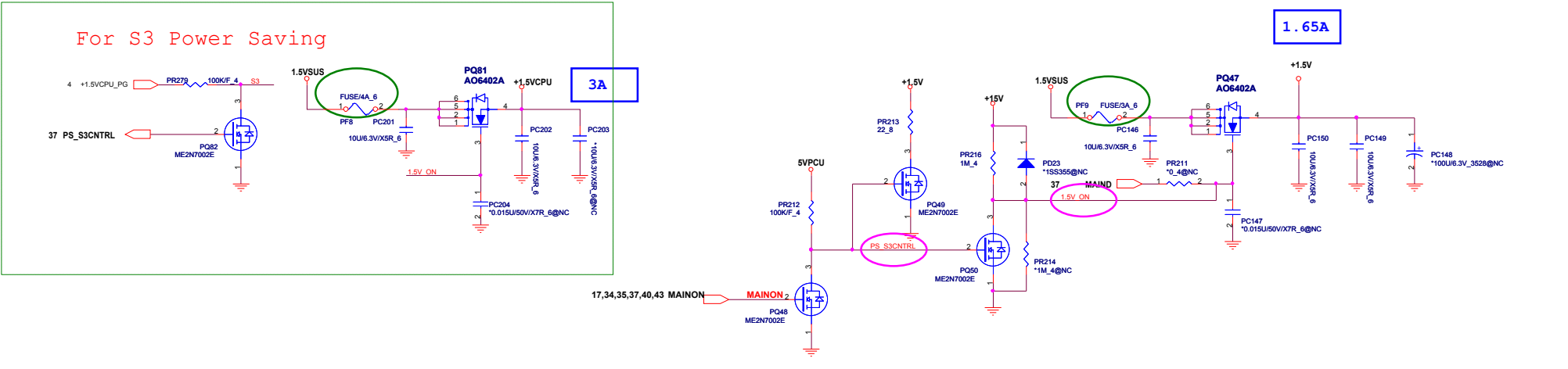
LANVCC

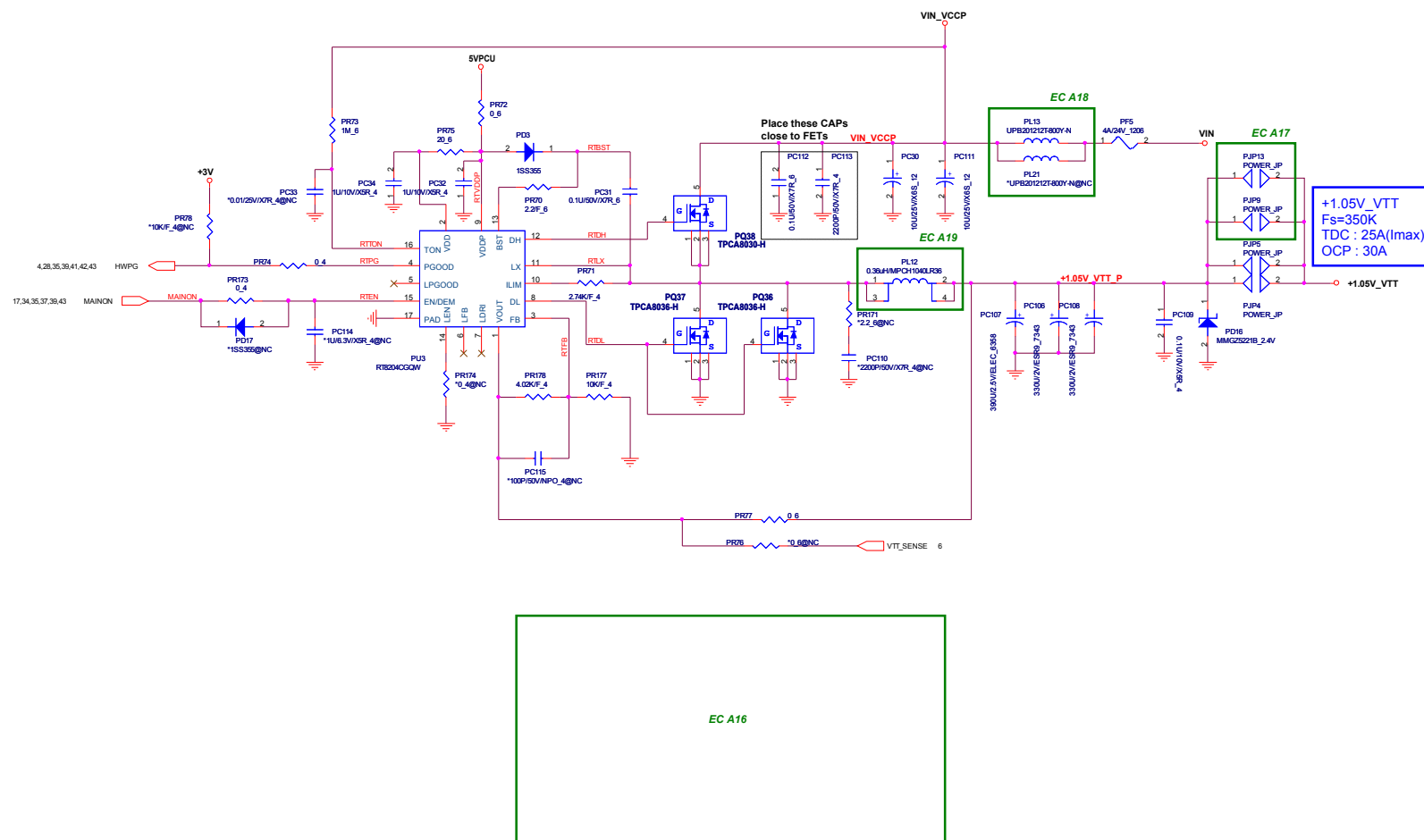


3VSUS, 5VSUS





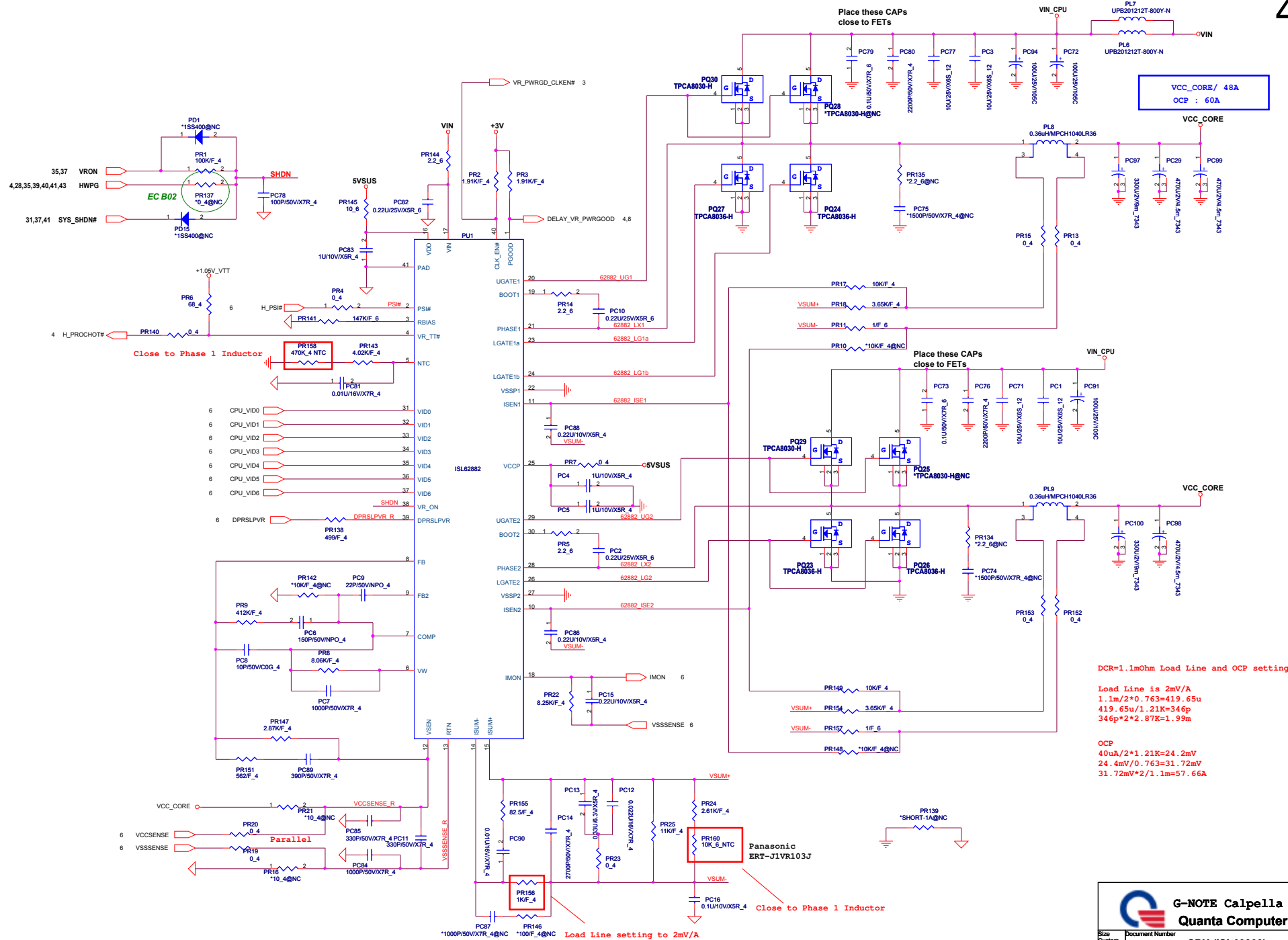


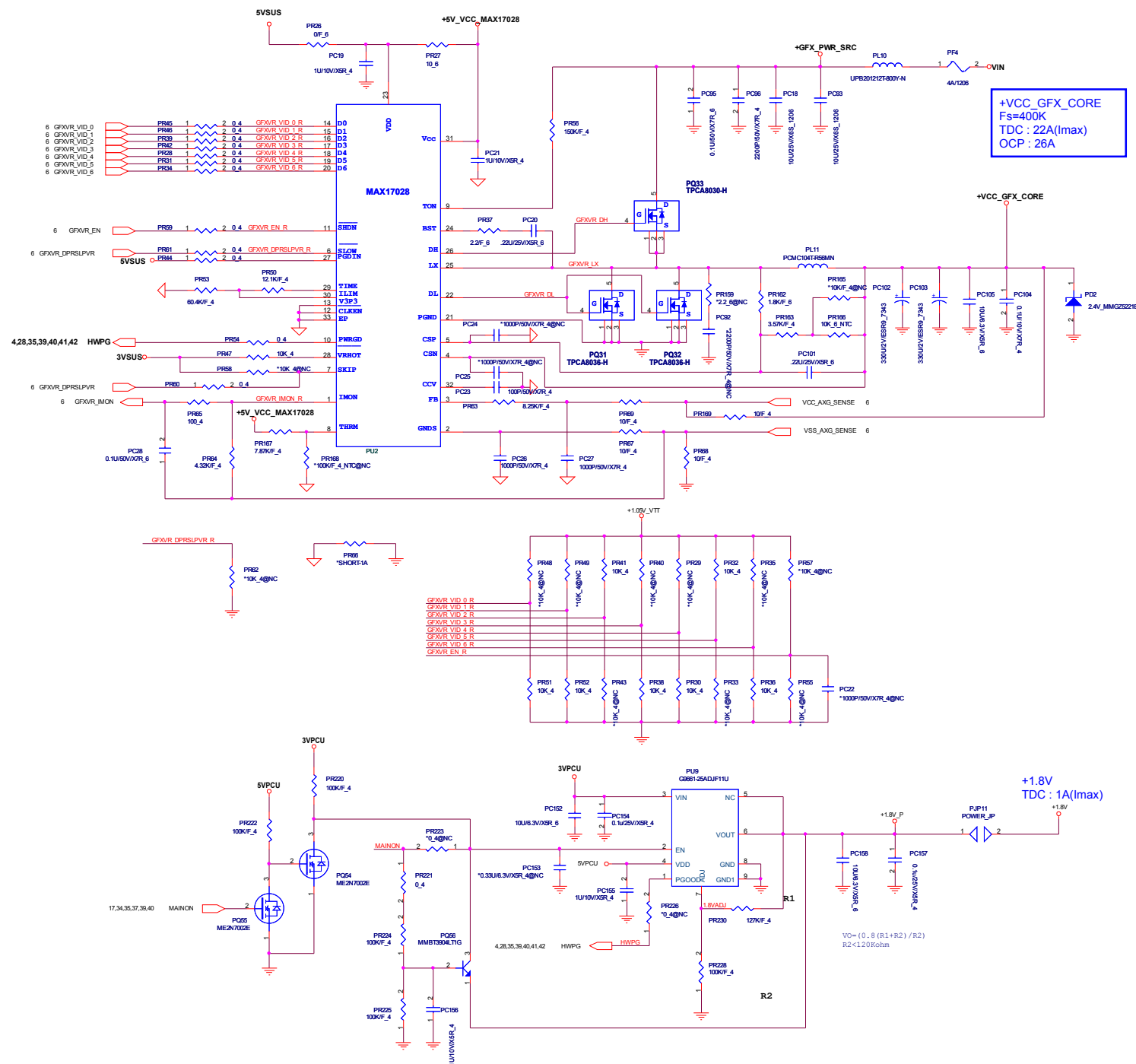


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 Quanta Computer Inc.

Revision History

Revision	Date	Phase	Change List	Release Schematic Date	Release Gerber File Date
1A		DV	Initial release		

Schematic Value Explanation Description :

RESISTOR

Value	F	4	6	8	12	1210	*	Description
*1K/F_4	1%	0402 (1005)					DE POP	1K ohm 1% SMD 0402 package and DE POP
1K_6	5%		0603 (1608)				POP	1K ohm 5% SMD 0603 package and POP
1K_8	5%			0805 (2125)			POP	1K ohm 5% SMD 0805 package and POP
1K_12	5%				1206 (3216)		POP	1K ohm 5% SMD 1206 package and POP
1K_1210	5%					1210 (3225)	POP	1K ohm 5% SMD 1210 package and POP

CAPACITOR

Value	Voltage	Material	6				*	Description
*0.1U/10V/X5R_4	10V	X5R	0402 (1005)				DE POP	0.1UF 10V X5R SMD 0402 package DE POP
1U/25V/X7R_6	25V	X7R	0603 (1608)				POP	0.1UF 25V X7R SMD 0603 package POP

