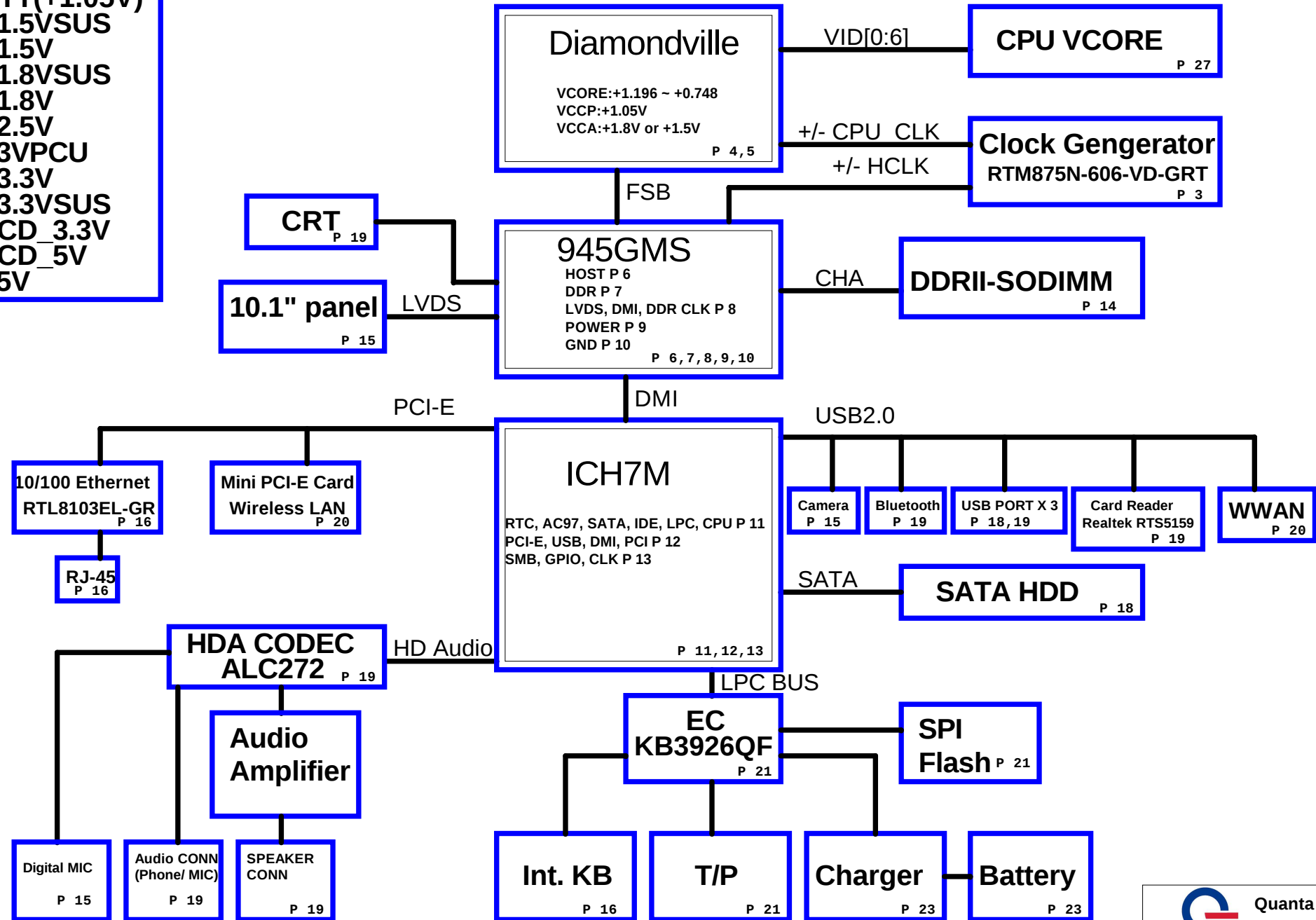
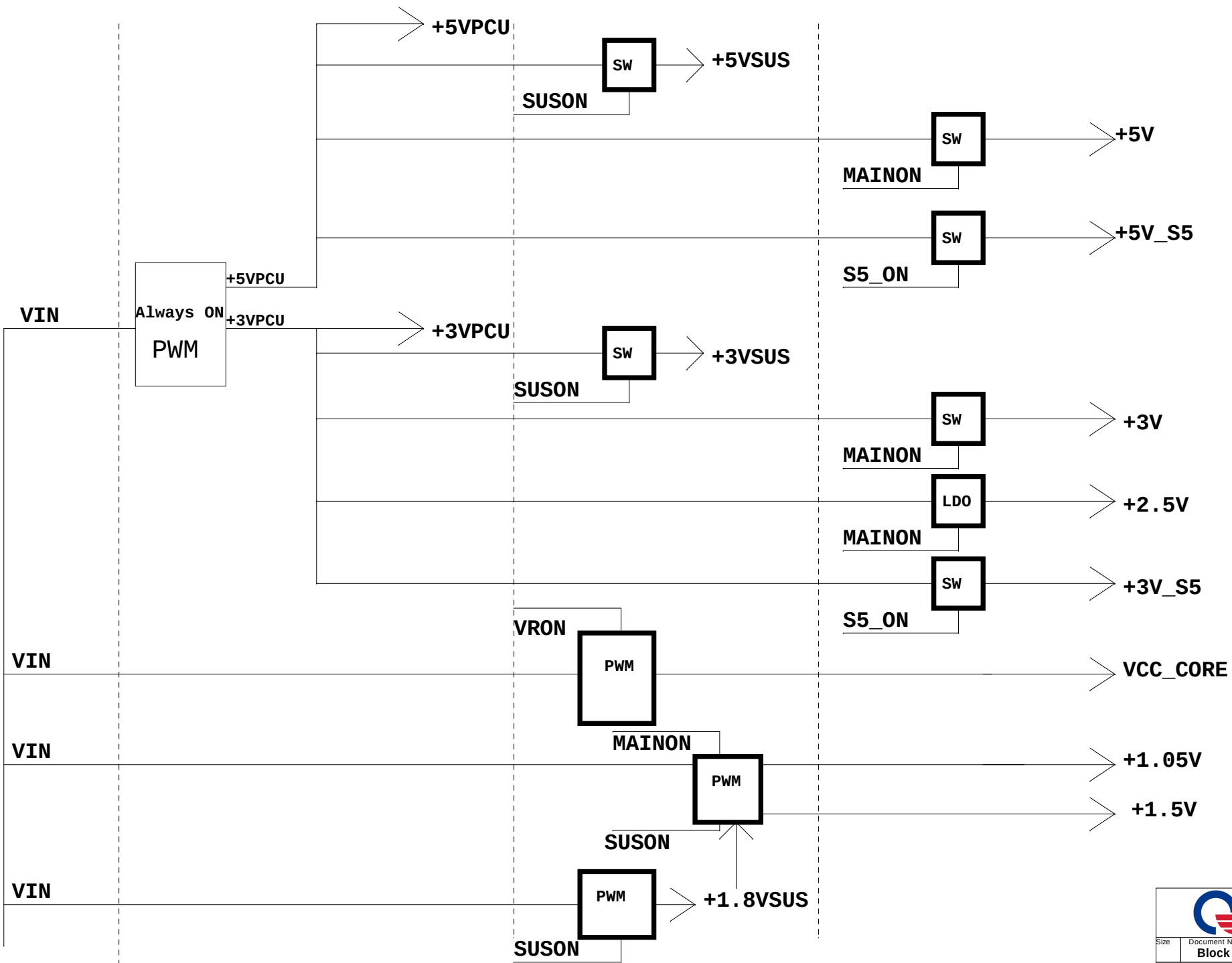


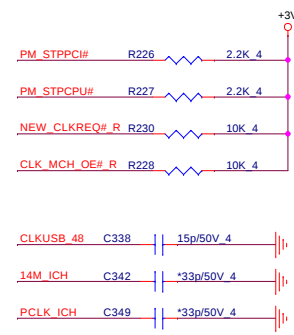
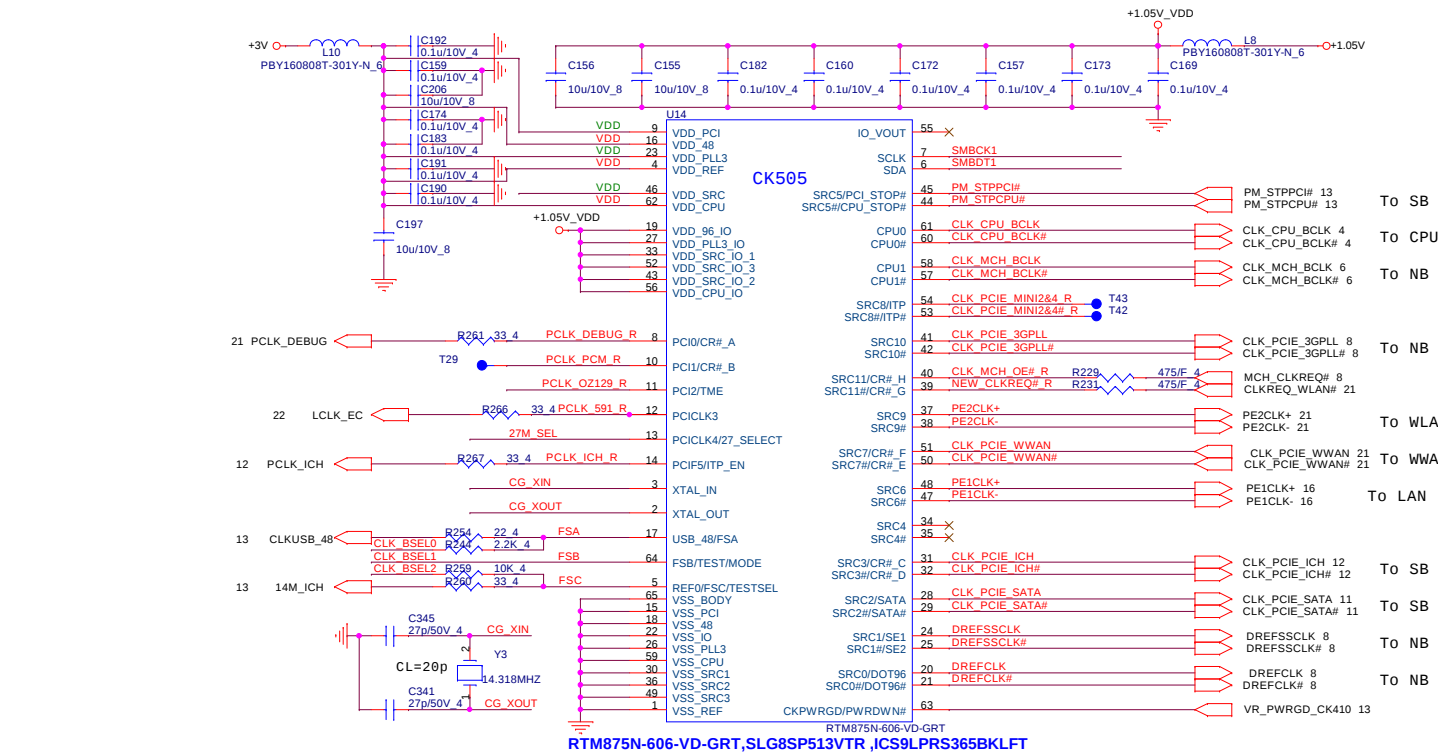
UL1 NB Block Diagram

VTERM(+0.9V)
VTT(+1.05V)
+1.5VSUS
+1.5V
+1.8VSUS
+1.8V
+2.5V
+3VPCU
+3.3V
+3.3VSUS
LCD_3.3V
LCD_5V
+5V





Clock Generator

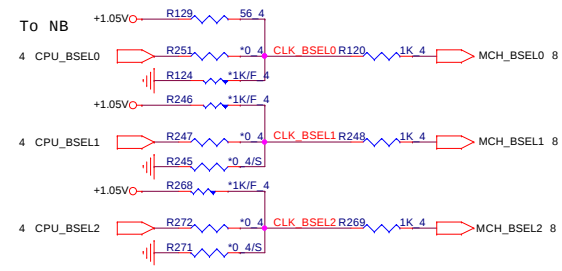
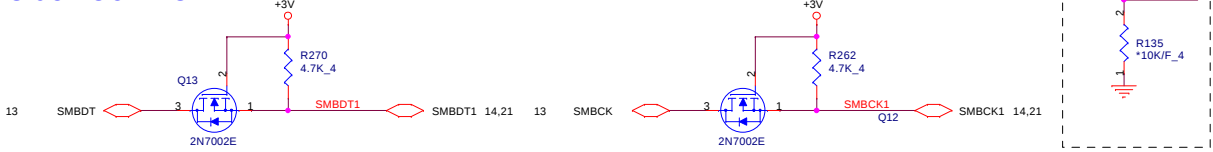


Frequency select			FSC	FSB	FSA	CPU	SRC	PCI	Default
SEL2	SEL1	SEL0							
1	0	1	100	100	33				
0	0	1	133	100	33				
0	1	1	166	100	33				
0	1	0	200	100	33				
0	0	0	266	100	33				
1	0	0	333	100	33				
1	1	0	400	100	33				
1	1	1	Reserved						

	ICS9LPRS365 (ALPRS365K13)	RTM875N-606 (AL808875K06)	PULL HIGH	PULL DOWN
Pin 11	PCI2/TME	PCI2/TME Internal PD	NO OVERCLOCKING (default)	NORMAL RUN
Pin 12	PCI-3	PCI-3/SRC5_EN Internal PD	PIN37/38 IS SRC5	PIN37/38 IS SRC5 (default)
Pin 13	PCI-4/27M_SEL	PCI-4/27M_SEL Internal PD	PIN 17/18 IS 27MHz	PIN 17/18 IS SRC/DOT (default)
Pin 14	PCIF-5/IPT_EN	PCIF-5/IPT_EN Internal PD	PIN 46/47 IS CPUITP	PIN 46/47 IS SRC8 (default)

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<SECOND>:SLG8SP512TTR: QCI:AL8SP512K05

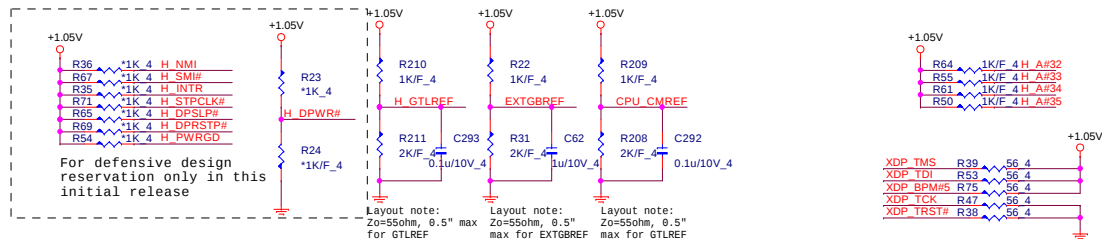
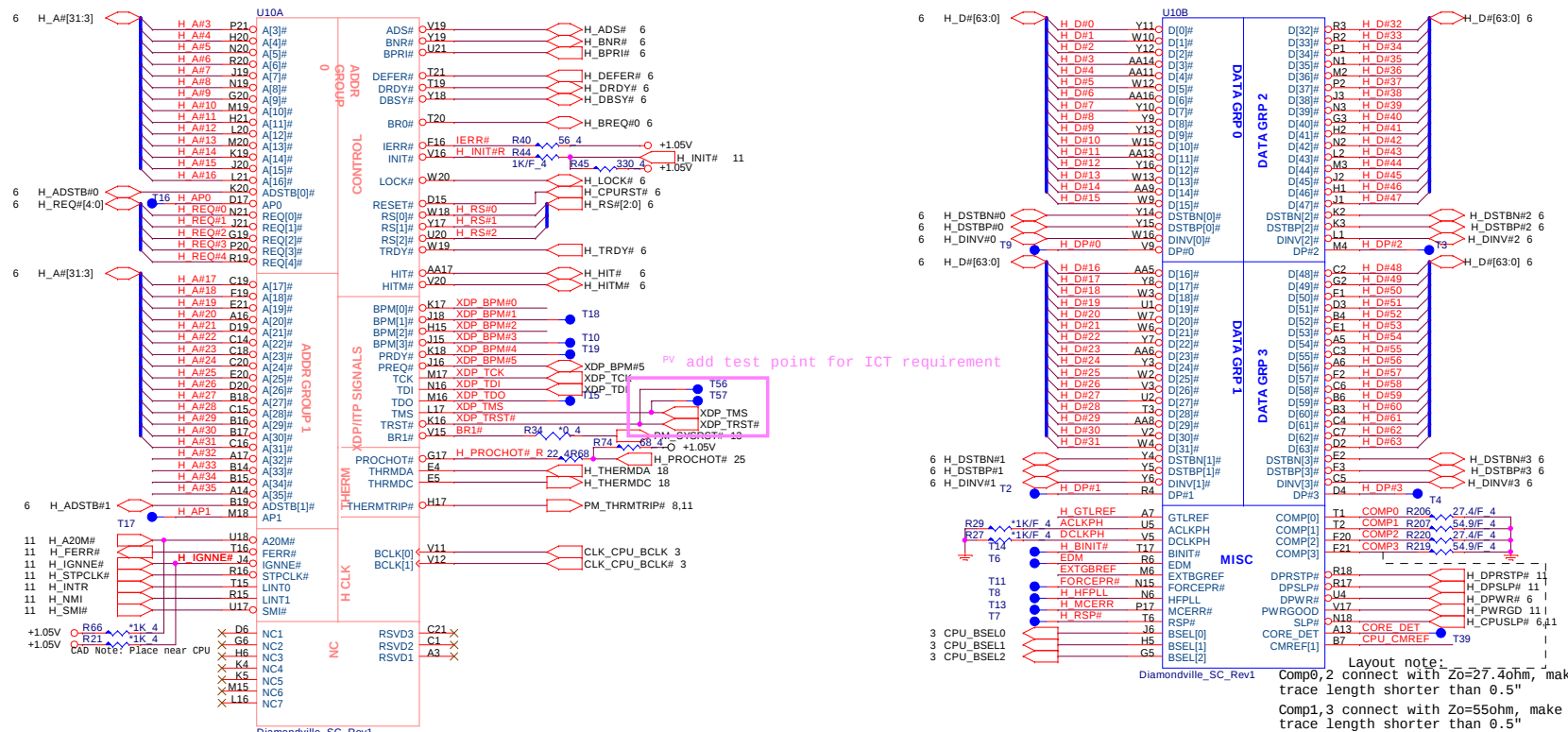
Clock Gen I2C



Quanta Computer Inc.

PROJECT : UL1

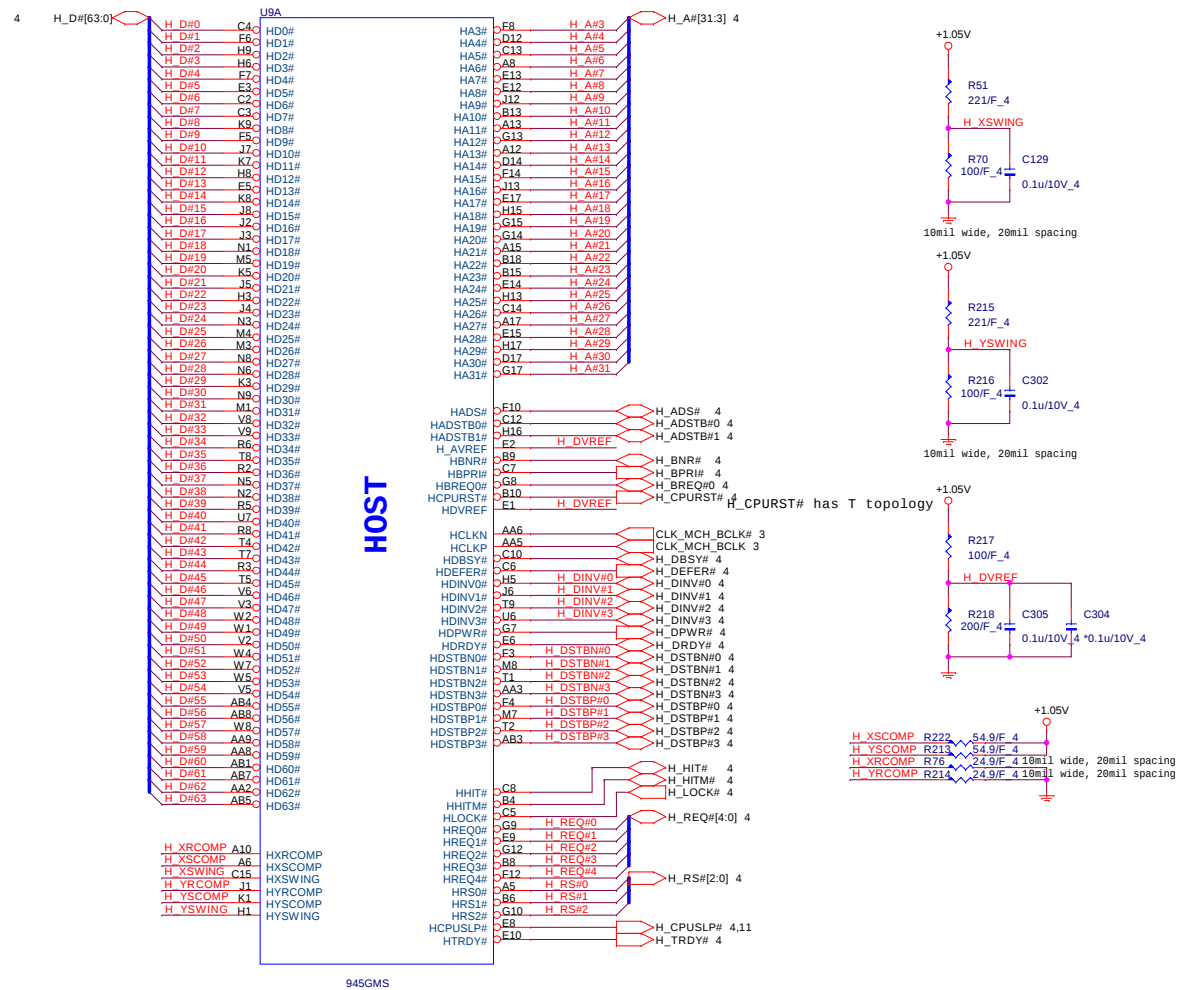
Size	Document Number	Rev
	CLOCK GENERATOR	1A
Date:	Friday, May 08, 2009	Sheet 3 of 30





Quanta Computer Inc.
PROJECT : UL1

Size	Document Number	Rev
	Diamondville(1/2)	1A
Date:	Friday, May 08, 2009	Sheet 4 of 30

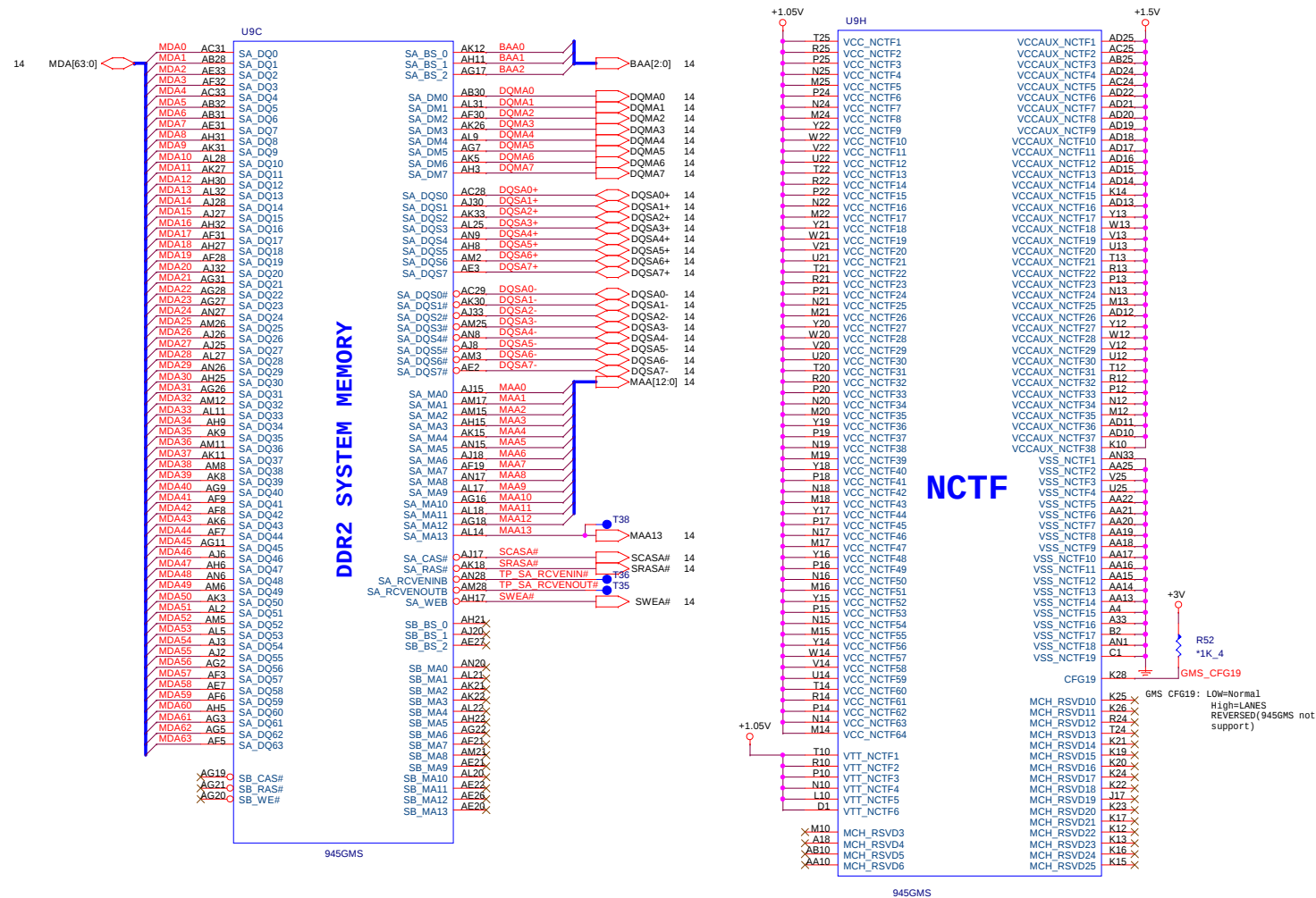


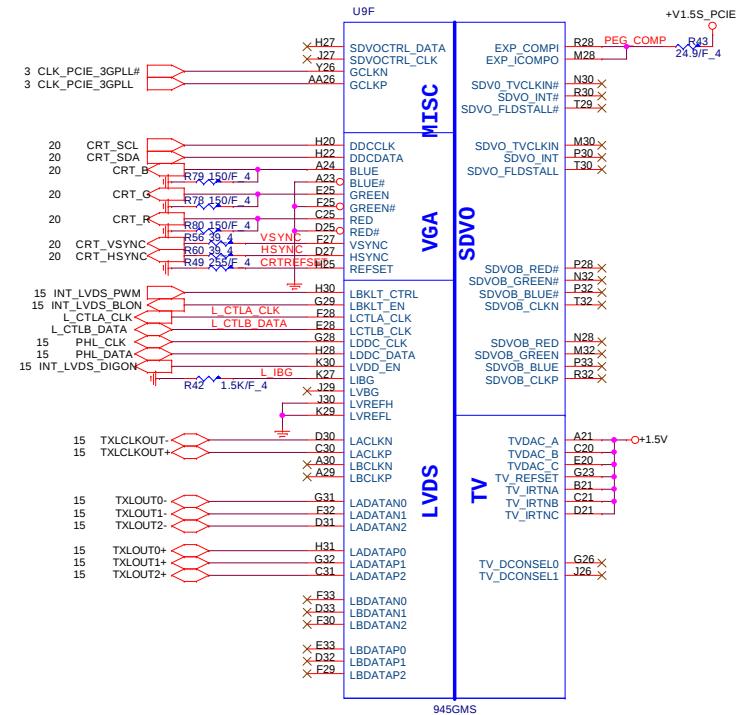
945GMS

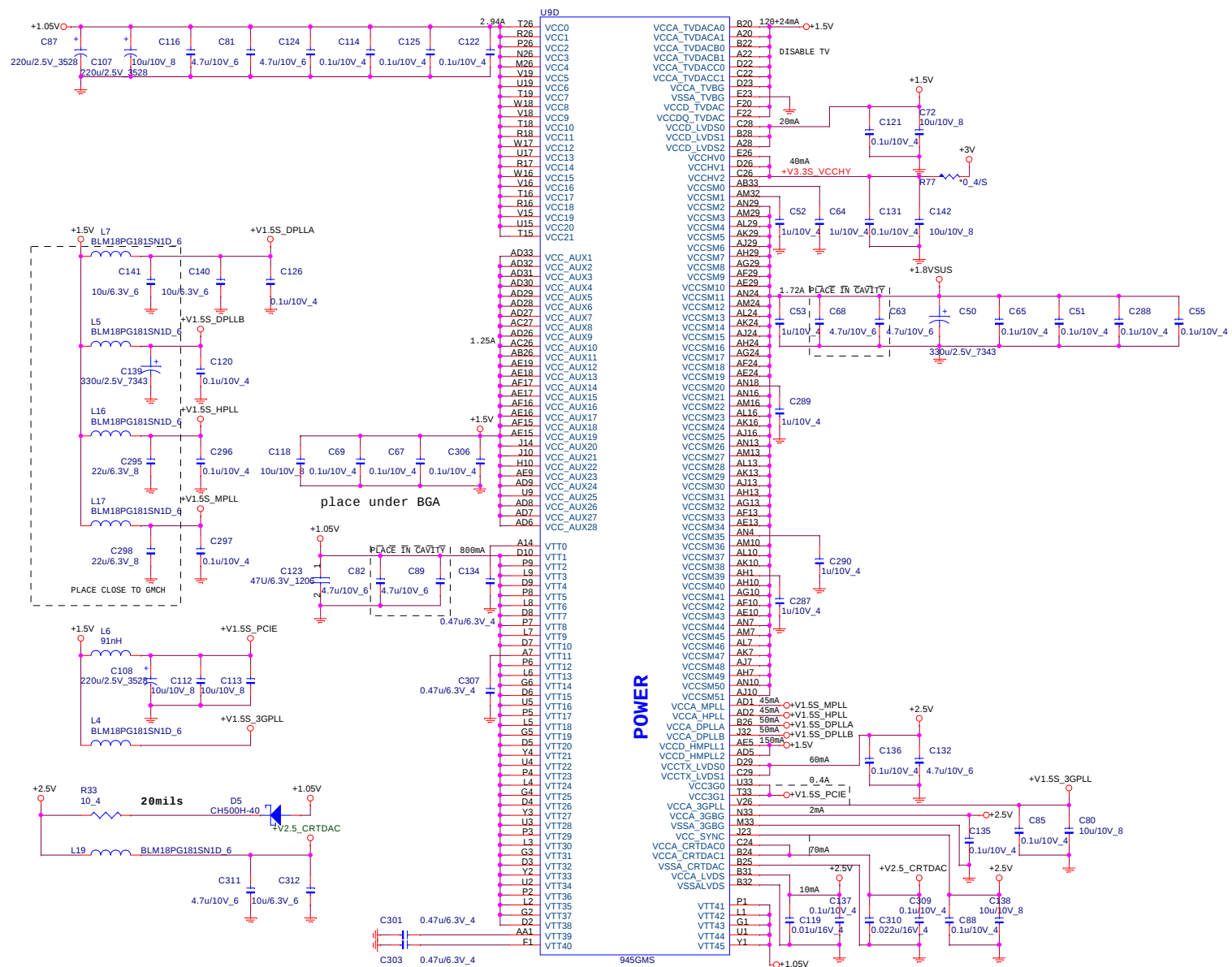


Quanta Computer Inc.
PROJECT : UL1

Size Document Number 945GMS HOST Rev 1A
Date: Friday, May 08, 2009 Sheet 6 of 30







Quanta Computer Inc.
PROJECT : UL1

Size	Document Number	Rev
	945GMS POWER	1A
Date:	Friday, May 08, 2009	Sheet 9 of 30

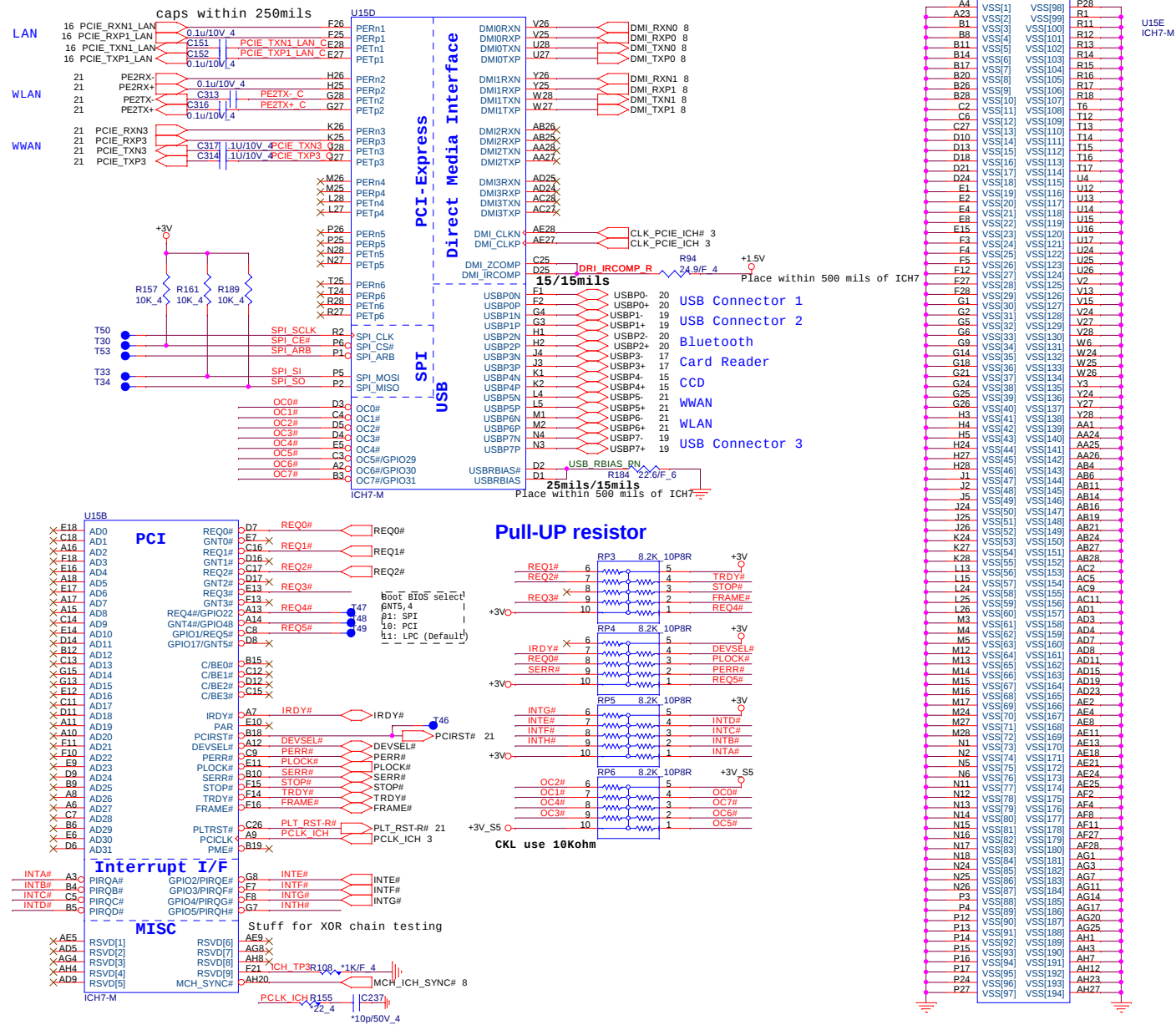
AH33	VSS1	J16	U9E
Y33	VSS2	AL15	945GMS
R33	VSS3	AG15	
G33	VSS4	W15	
AK32	VSS5	R15	
AG32	VSS6	F15	
AE32	VSS7	D15	
AC32	VSS8	AM14	
AA32	VSS9	AH14	
U32	VSS10	AE14	
H32	VSS11	H14	
E32	VSS12	B14	
C32	VSS13	F13	
AM31	VSS14	D13	
AJ31	VSS15	AL12	
AA31	VSS16	AG12	
U31	VSS17	H12	
T31	VSS18	B12	
R31	VSS19	AN11	
P31	VSS20	AE11	
N31	VSS21	AM9	
M31	VSS22	AJ9	
J31	VSS23	AB9	
F31	VSS24	W9	
AL30	VSS25	R9	
AG30	VSS26	M9	
AE30	VSS27	F9	
AC30	VSS28	C9	
AA30	VSS29	A9	
Y30	VSS30	AL8	
V30	VSS31	AG8	
U30	VSS32	AE8	
G30	VSS33	UB	
E30	VSS34	AA7	
B30	VSS35	V7	
AA29	VSS36	R7	
U29	VSS37	N7	
R29	VSS38	H7	
P29	VSS39	E7	
N29	VSS40	B7	
M29	VSS41	AL6	
H29	VSS42	VSS151	
E29	VSS43	VSS152	
B29	VSS44	VSS153	
AK28	VSS45	VSS154	
AH28	VSS46	VSS155	
AE28	VSS47	VSS156	
AA28	VSS48	VSS157	
U28	VSS49	VSS158	
T28	VSS50	VSS159	
J28	VSS51	VSS160	
D28	VSS52	VSS161	
AM27	VSS53	VSS162	
AE27	VSS54	VSS163	
AB27	VSS55	VSS164	
AA27	VSS56	VSS165	
Y27	VSS57	VSS166	
U27	VSS58	VSS167	
T27	VSS59	VSS168	
R27	VSS60	VSS169	
P27	VSS61	VSS170	
N27	VSS62	VSS171	
M27	VSS63	VSS172	
G27	VSS64	VSS173	
E27	VSS65	VSS174	
C27	VSS66	VSS175	
B27	VSS67	VSS176	
AL26	VSS68	VSS177	
AH26	VSS69	VSS178	
W26	VSS70	VSS179	
U26	VSS71	VSS180	
AN25	VSS72	VSS181	
AK25	VSS73	VSS182	
AG25	VSS74	VSS183	
AE25	VSS75	VSS184	
J25	VSS76	VSS185	
G25	VSS77		
A25	VSS78		
H23	VSS79		
F23	VSS80		
B23	VSS81		
AM22	VSS82		
AJ22	VSS83		
AF22	VSS84		
G22	VSS85		
E22	VSS86		
J21	VSS87		
H21	VSS88		
F21	VSS89		
AM20	VSS90		
AK20	VSS91		
AH20	VSS92		
AF20	VSS93		
D20	VSS94		
W19	VSS95		
R19	VSS96		
AM18	VSS97		
AH18	VSS98		
AF18	VSS99		
U18	VSS100		
H18	VSS101		
D18	VSS102		
AK17	VSS103		
V17	VSS104		
T17	VSS105		
F17	VSS106		
B17	VSS107		
AH16	VSS108		
U16	VSS109		
	VSS110		

W33	NC1	NC61	W30
AM33	NC2	NC62	Y6
AL33	NC3	NC63	AL1
C33	NC4	NC64	Y5
B33	NC5	NC65	Y10
AN32	NC6	NC66	W10
A32	NC7	NC67	W25
AN31	NC8	NC68	V24
Y27	NC9	NC69	U24
W29	NC10	NC70	U10
J24	NC11	NC71	K18
H24	NC12	NC72	
W32	NC13		
G24	NC14		
F24	NC15		
E24	NC16		
D24	NC17		
K33	NC18		
AS1	NC19		
E21	NC20		
C23	NC21		
AN19	NC22		
AM19	NC23		
AL19	NC24		
AK19	NC25		
AJ19	NC26		
AH19	NC27		
AN3	NC28		
Y9	NC29		
J19	NC30		
H19	NC31		
G19	NC32		
F19	NC33		
E19	NC34		
D19	NC35		
C19	NC36		
B19	NC37		
A19	NC38		
Y8	NC39		
G16	NC40		
F16	NC41		
E16	NC42		
D16	NC43		
C16	NC44		
B16	NC45		
AN2	NC46		
A16	NC47		
Y7	NC48		
AF4	NC49		
AD4	NC50		
AL4	NC51		
AK4	NC52		
W31	NC53		
AJ4	NC54		
AH4	NC55		
AG4	NC56		
AM1	NC57		
	NC58		
	NC59		
	NC60		

945GMS

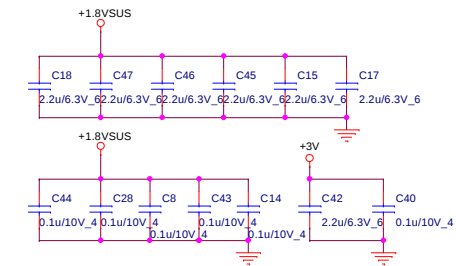
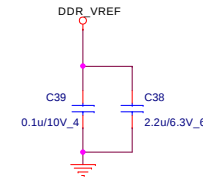
NC

VSS

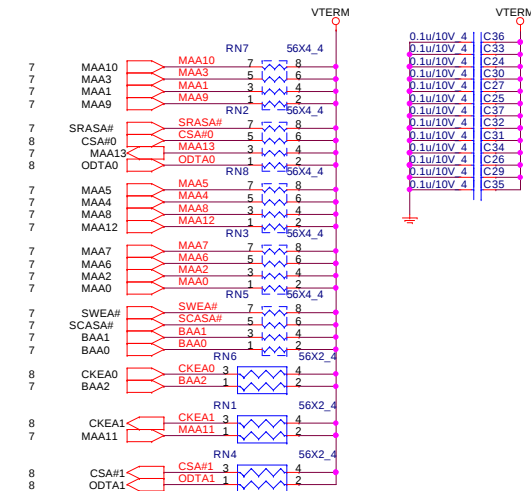




Close to DIMM



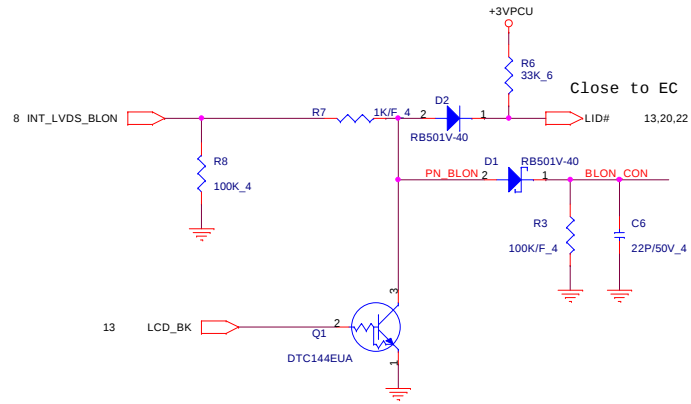
Termination resistor



Smbus address A0

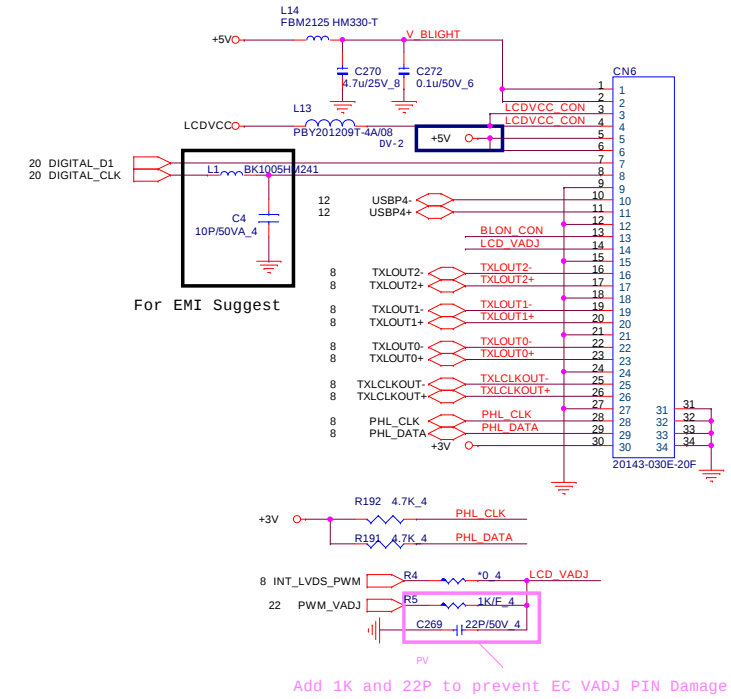
CLOCK 1,2
CKE 2,3

Standard Type H: 5.2mm



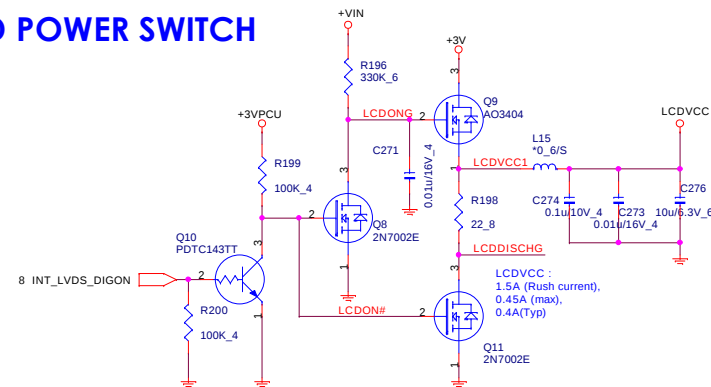
LCD MODULE

V_BLIGHT 10.1" supply 5V

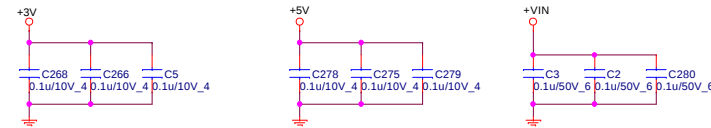


CAMERA POWER

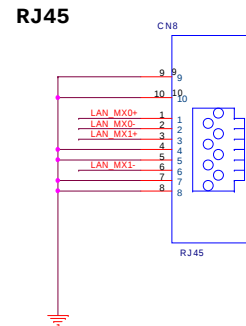
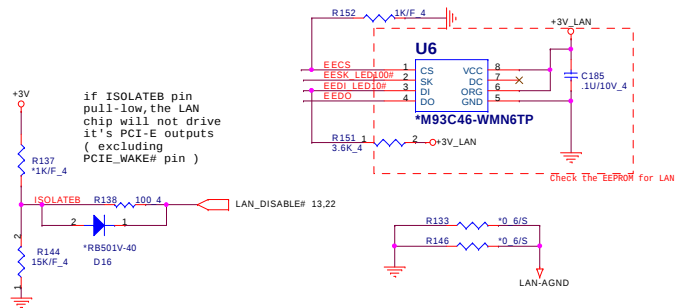
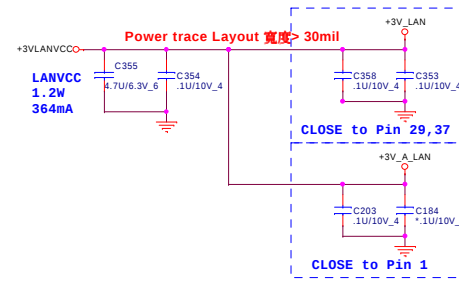
LCD POWER SWITCH

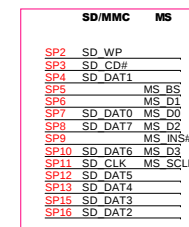


EMI reserve

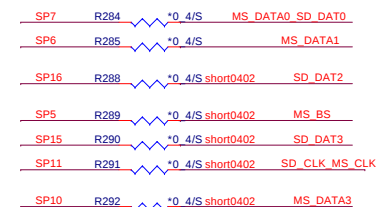


DV-2 Change CCD power to +5V





For RTS5159

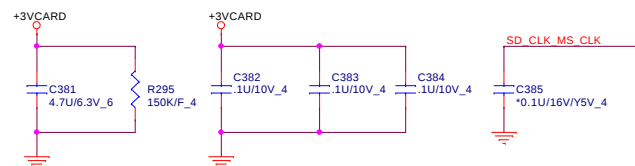


CN17

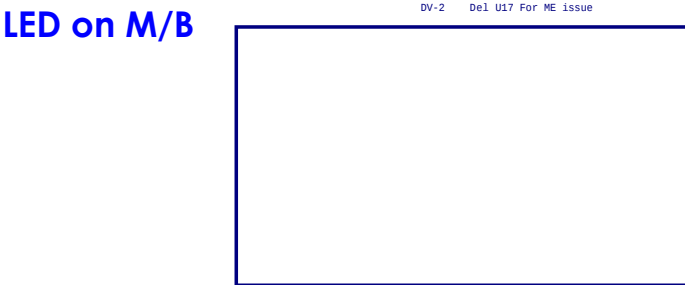
Pin	Signal
1	XD-R/B
2	XD-RE
3	XD-CE
4	XD-CLE
5	XD-ALE
6	XD-WE
7	XD-WP
8	XD-D0
9	SD-DAT2
10	SD-DAT3
11	SD-DAT3
12	SD-CMD
13	4IN1-GND1
14	MS-VCC
15	SD-CLK MS CLK
16	MS-DAT3
17	MS-CD#
18	MS-INS
19	MS-DAT2
20	MS-DAT1
21	MS-BS
22	4IN1-GND2
23	SD-VCC
24	SD-CLK
25	SD-DAT0
26	XD-D2
27	XD-D3
28	XD-D4
29	SD-DAT1
30	XD-D5
31	XD-D6
32	XD-D7
33	XD-VCC
34	XD-CD-SW
35	SD-WP
36	SD-CD-SW
37	SHIELD1-GND
38	SHIELD2-GND
41	SHIELD3-GND
42	SHIELD4-GND

CONN_CARDREADER_CM3S-015

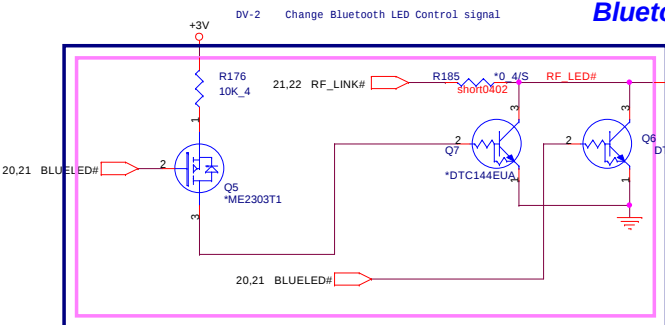
CLOSE CONN



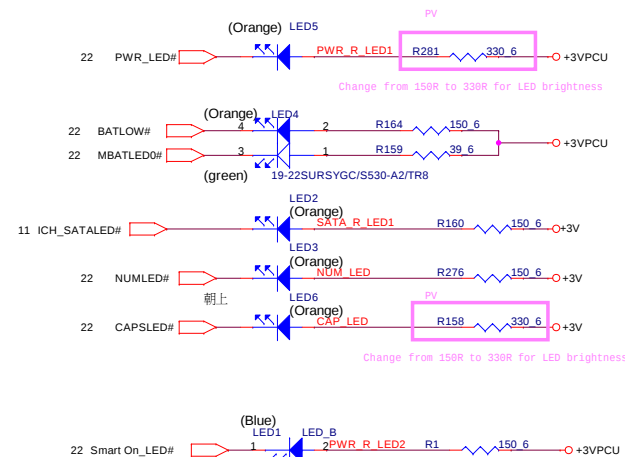
LED on M/B



Bluetooth/RF LED



$$I = V_{CC} - V_f / R$$



Power LED

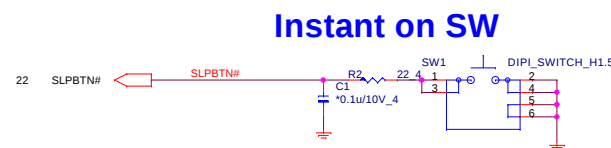
Battery LED

SATA LED

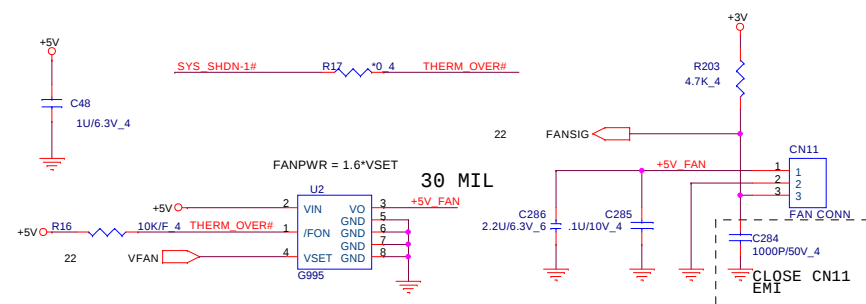
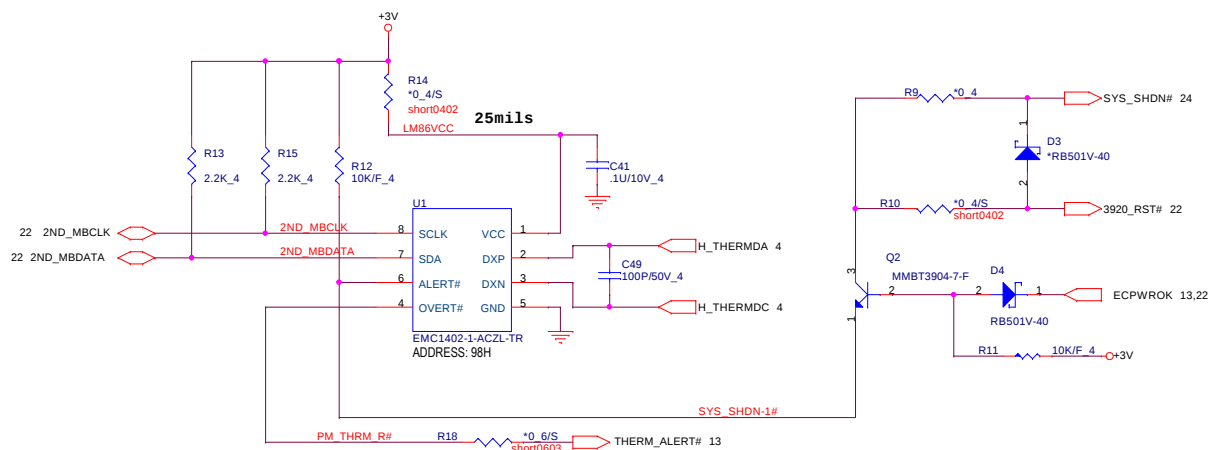
NUM LED

CAP LED

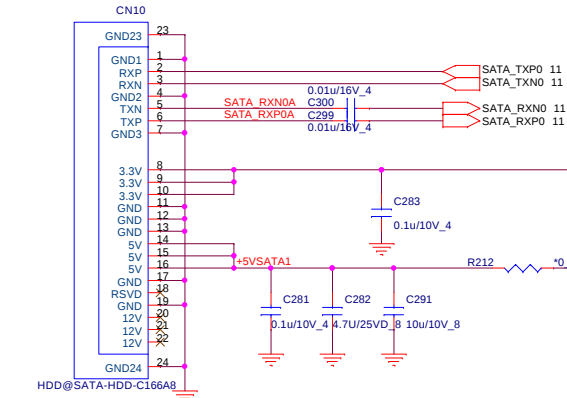
Instant on LED



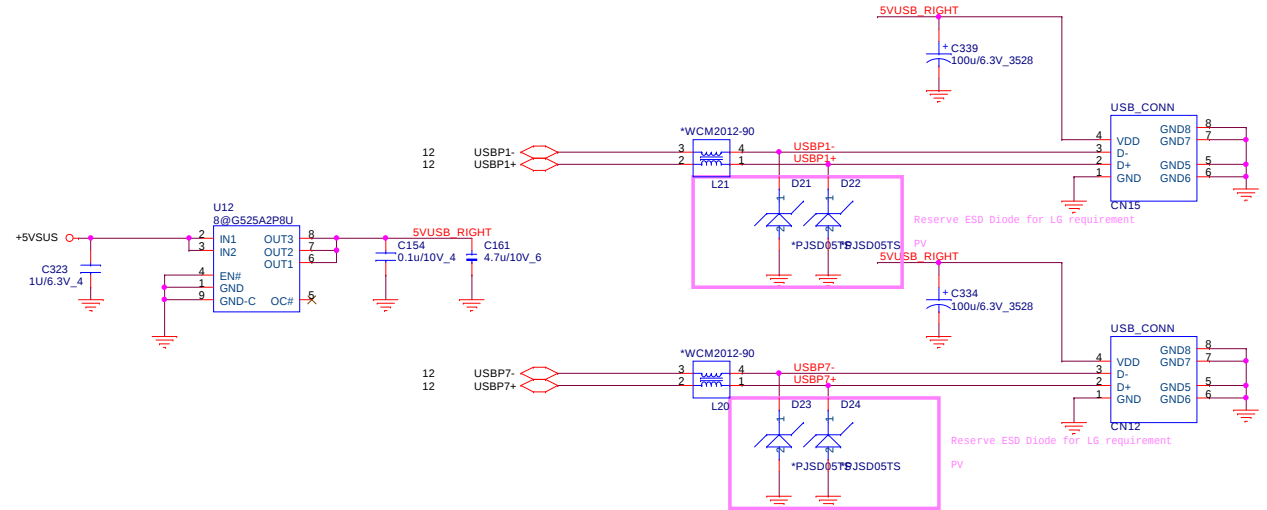
FAN



SATA HDD

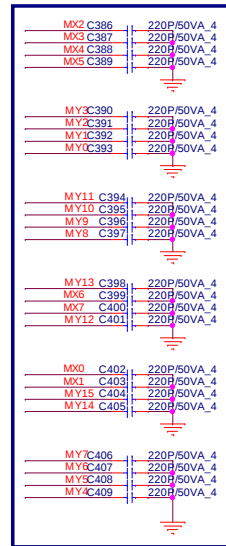
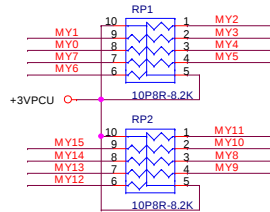
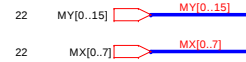


USB CONNX2

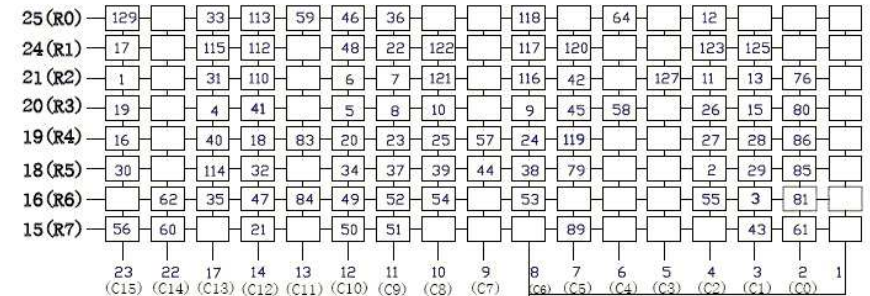
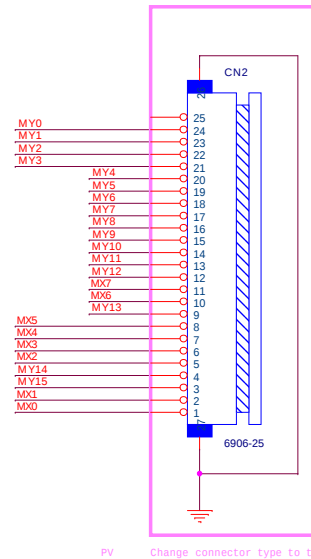


KB

KEYBOARD PULL-UP



DV-2 Change to 0402 size



1 & 8 Pin short circuit



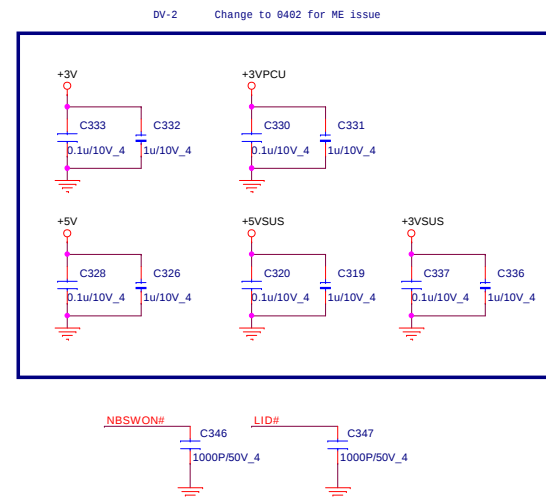
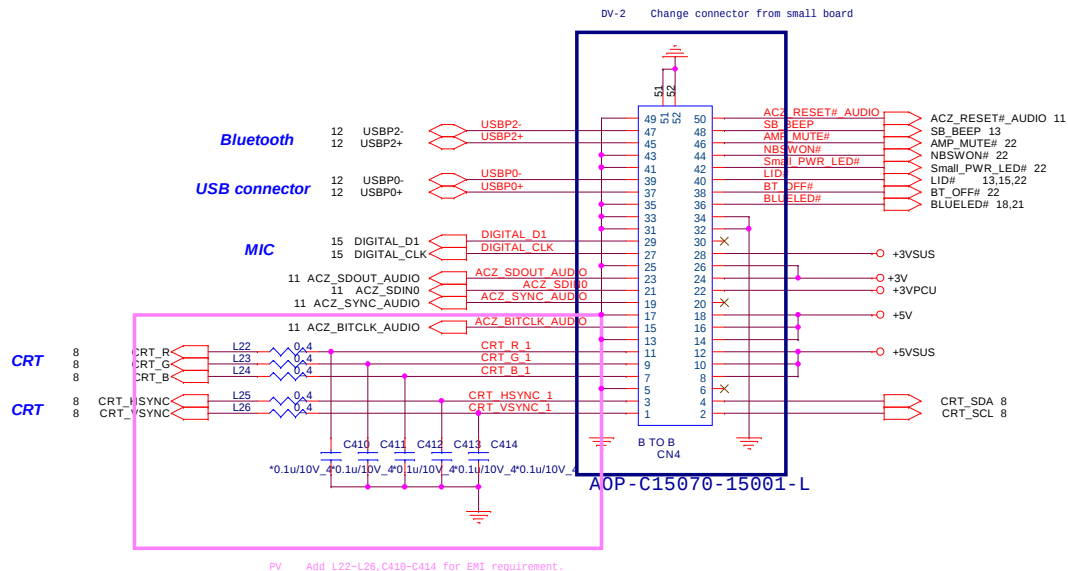
Quanta Computer Inc.
PROJECT : UL1

Size Document Number
SATA-HDD/ USB/KB

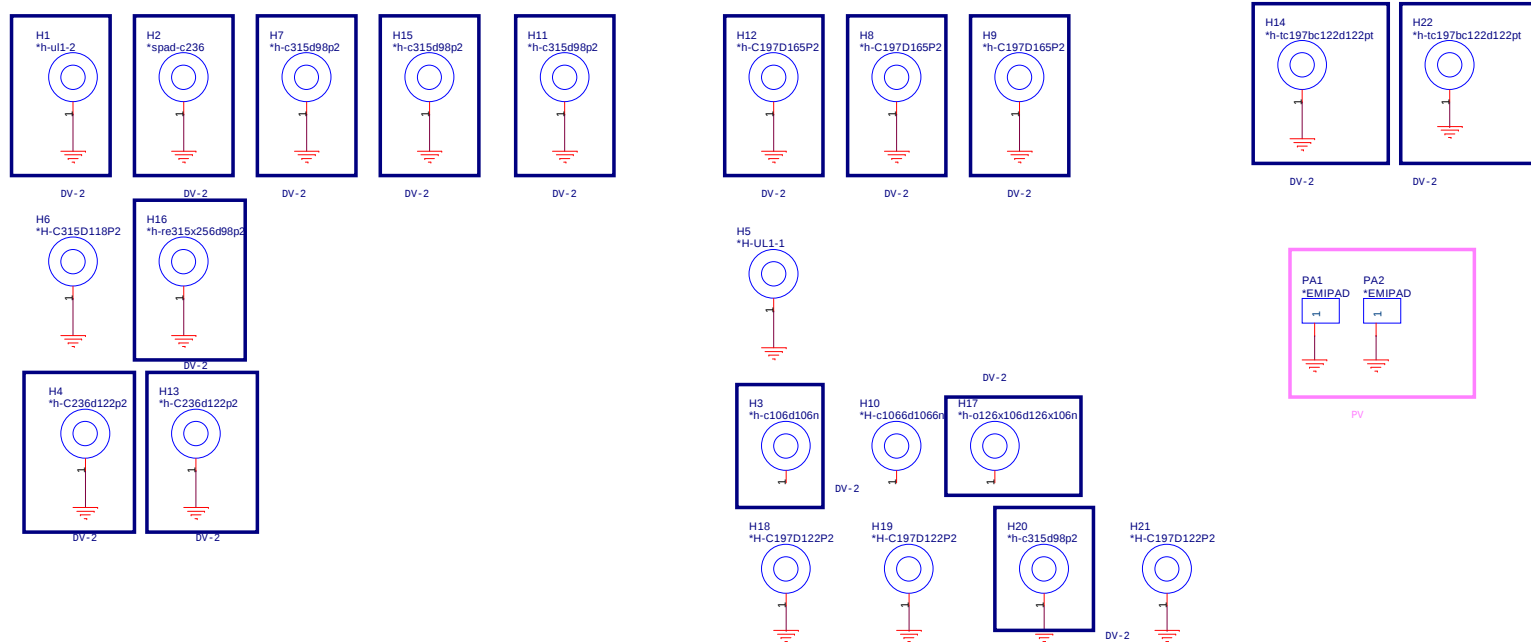
Date: Friday, May 08, 2009 Sheet 19 of 30

TO small/B CON *BOARD TO BOARD*
Audio/USB/CRT/BT

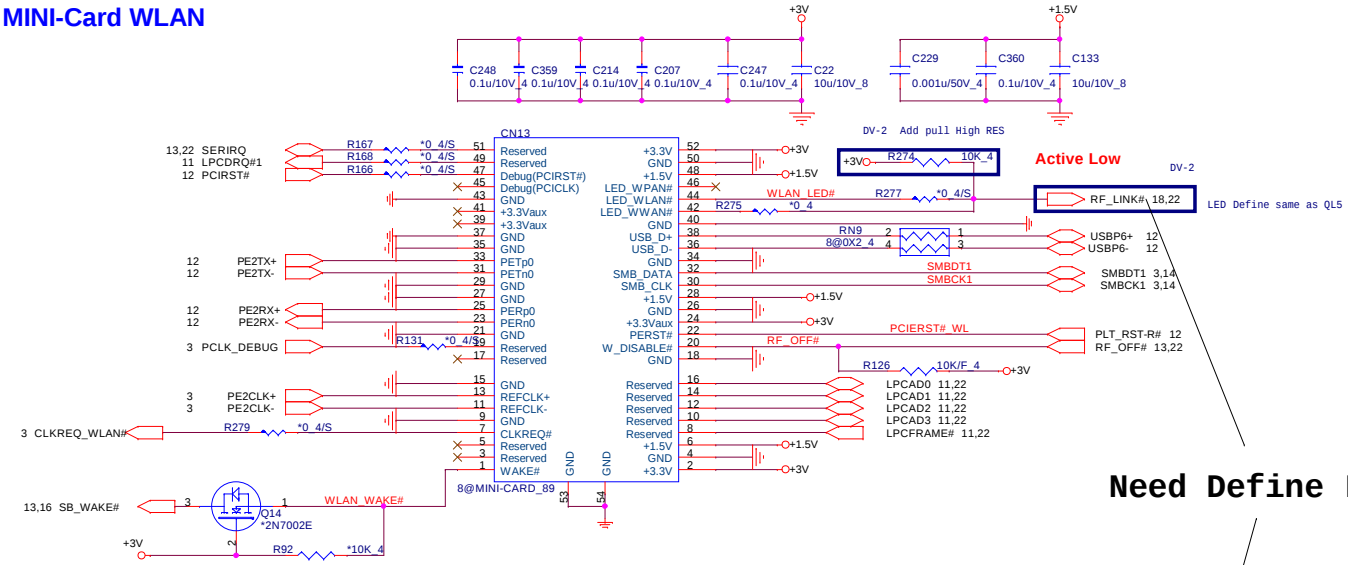
Per Pin 0.5A



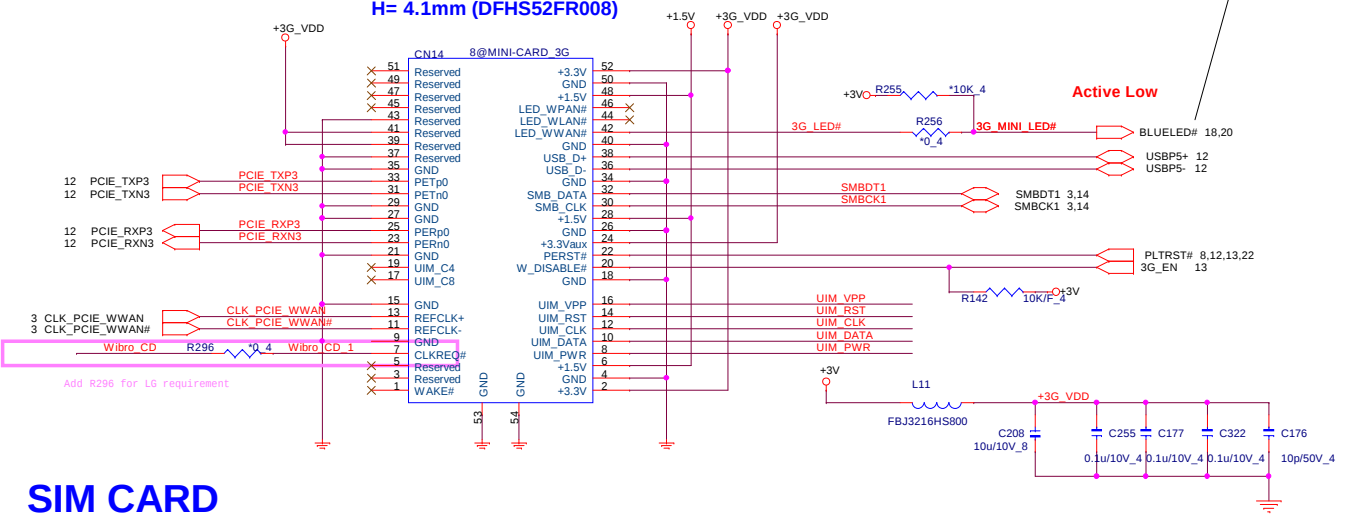
Hole



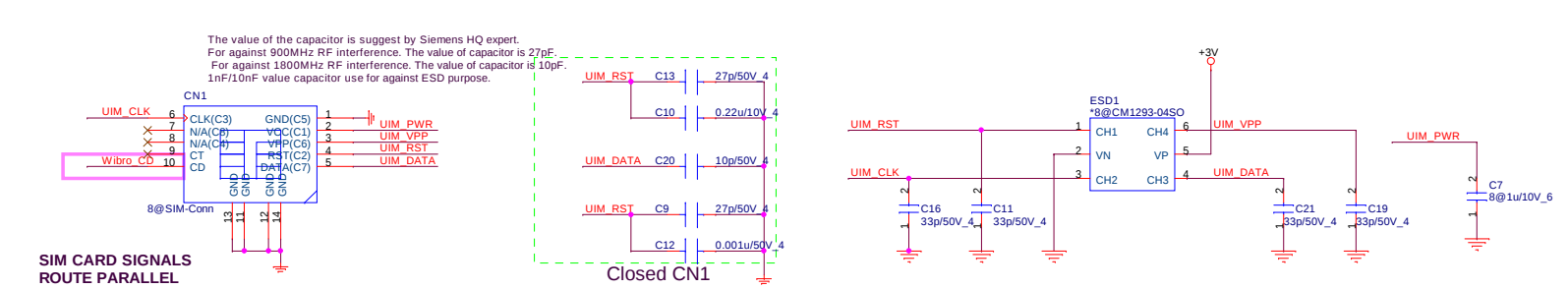
MINI-Card WLAN



MINI-Card WWAN

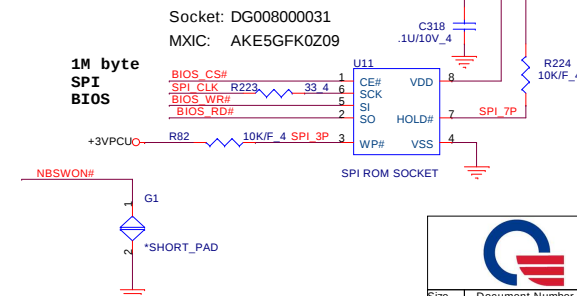


SIM CARD

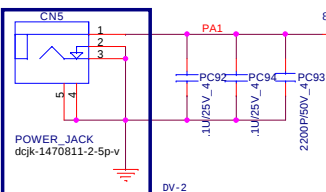


SIM CARD SIGNALS ROUTE PARALLEL

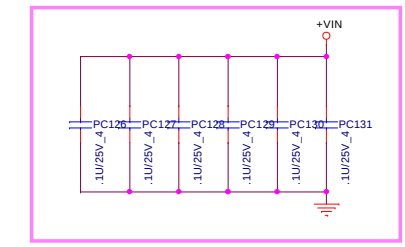
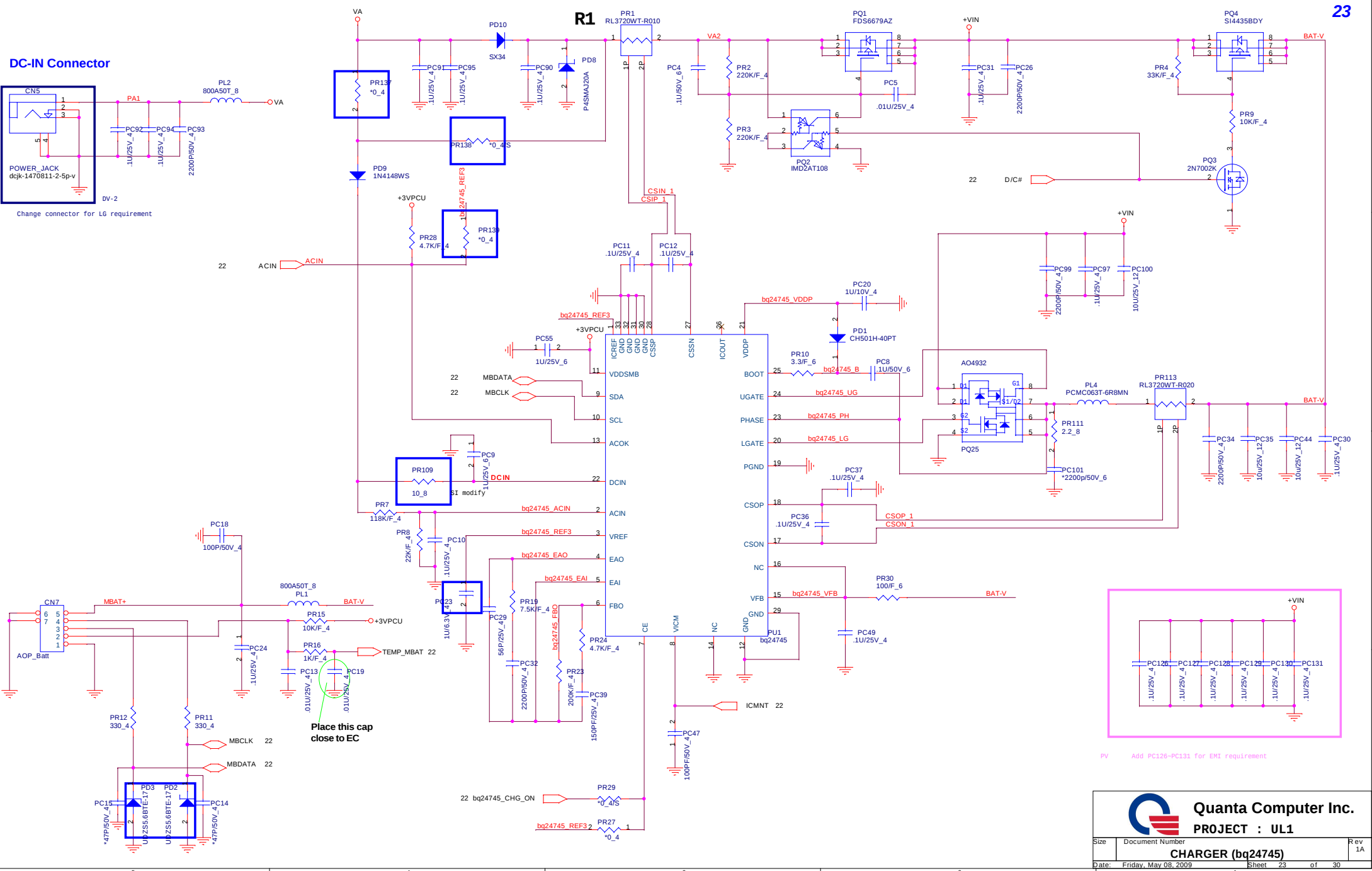
Quanta Computer Inc.
PROJECT : UL1
Size Document Number Rev 1A
Date: Friday, May 08, 2009 Sheet 21 of 30



DC-IN Connector

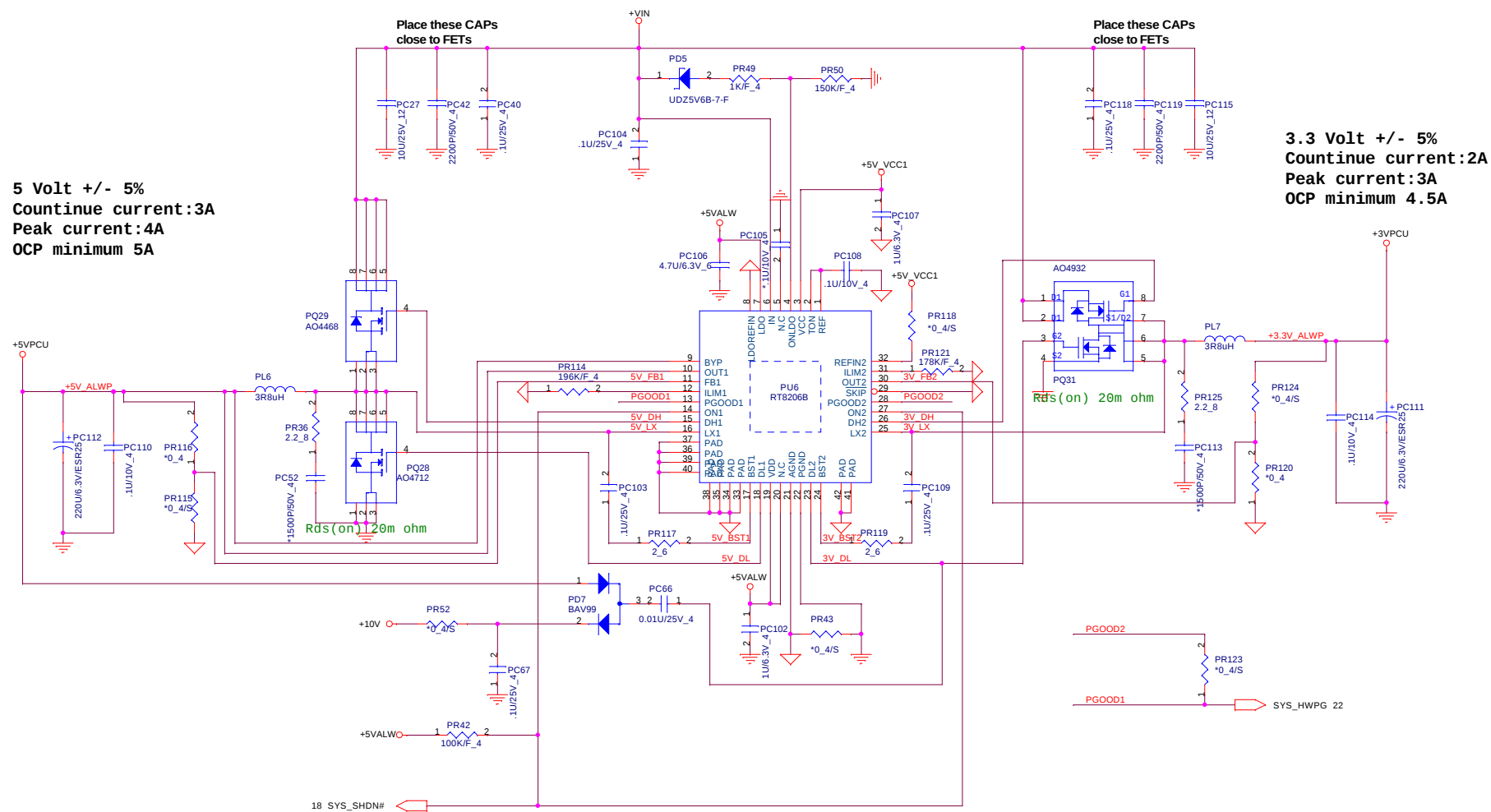


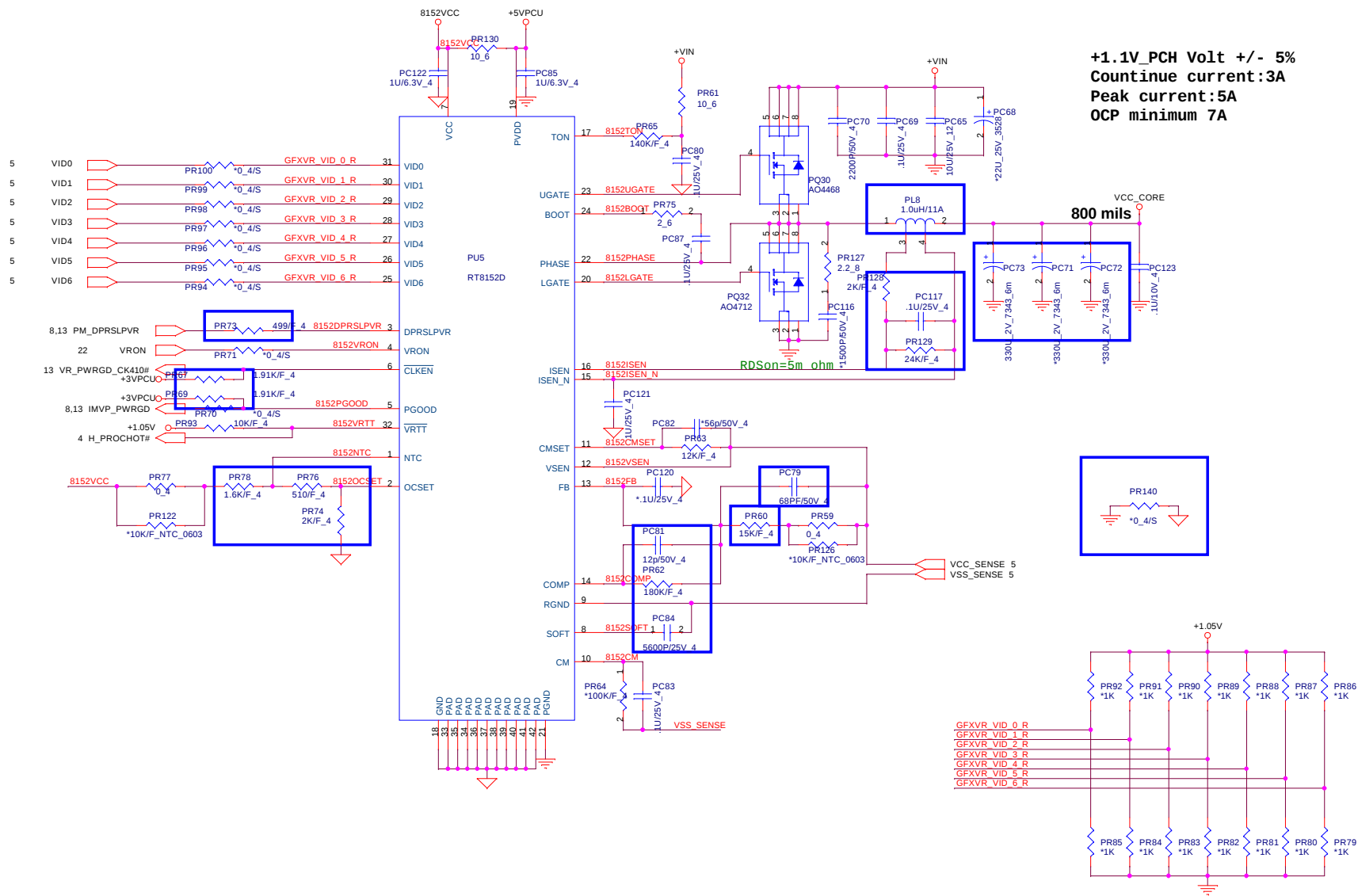
Change connector for LG requirement



PV Add PC126-PC131 for EMI requirement

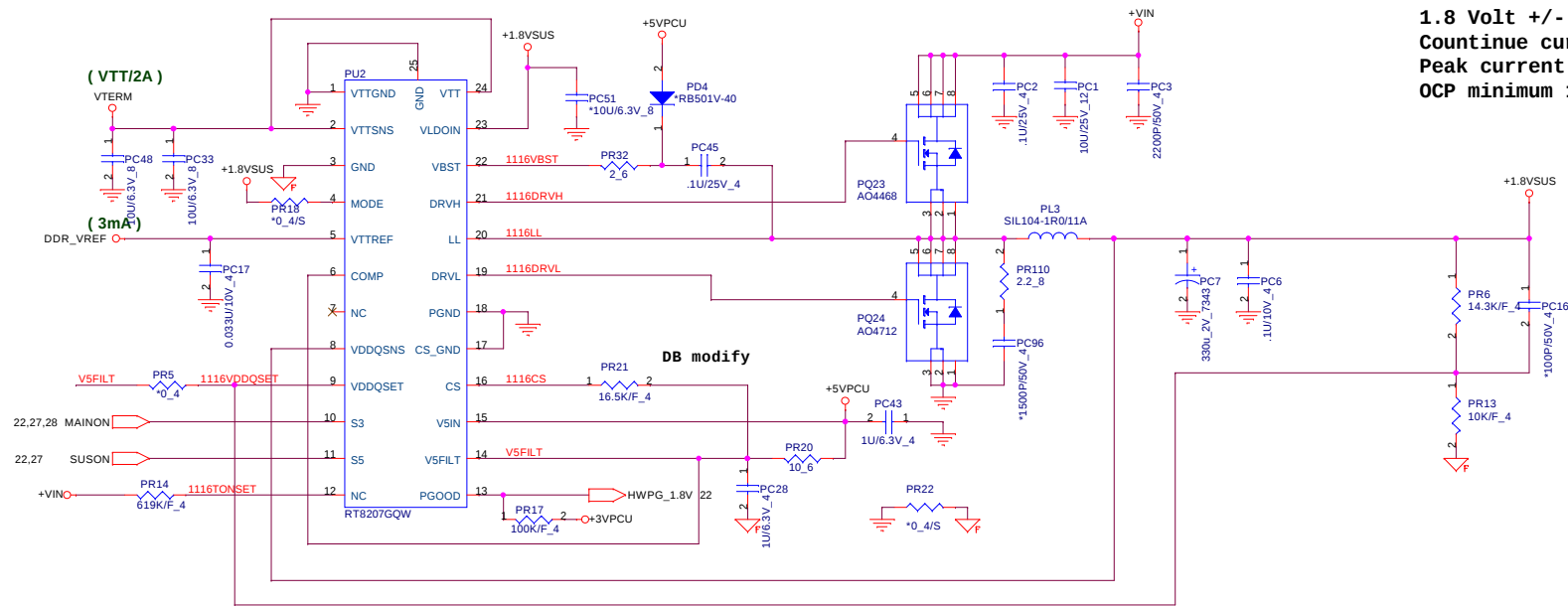
 Quanta Computer Inc. PROJECT : UL1		
Size	Document Number	Rev
		1A
CHARGER (bq24745)		
Date: Friday, May 08, 2009	Sheet 23 of 30	





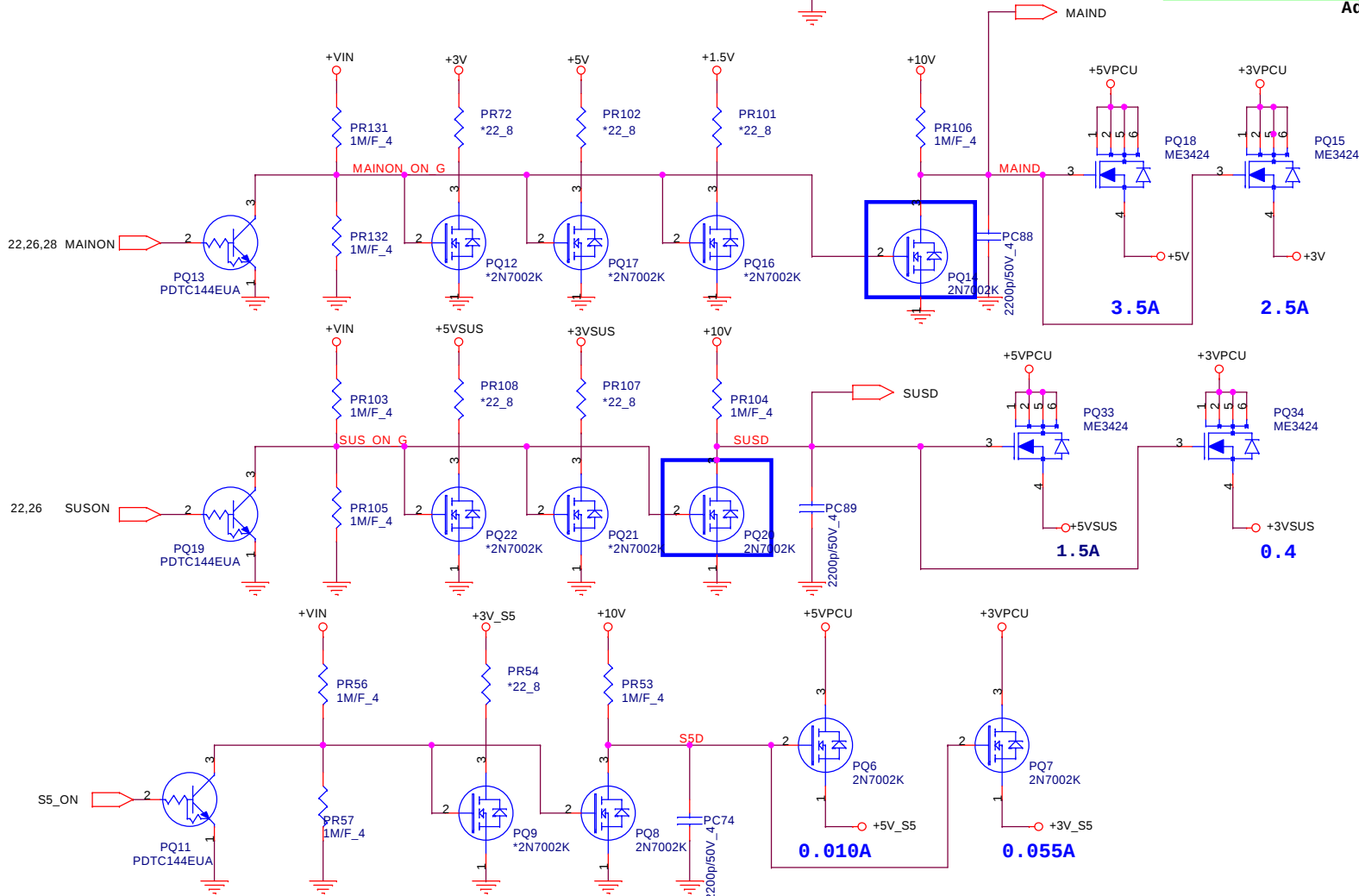
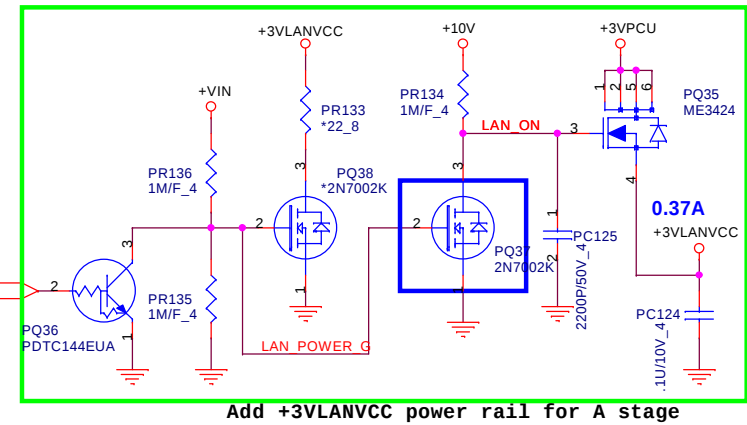
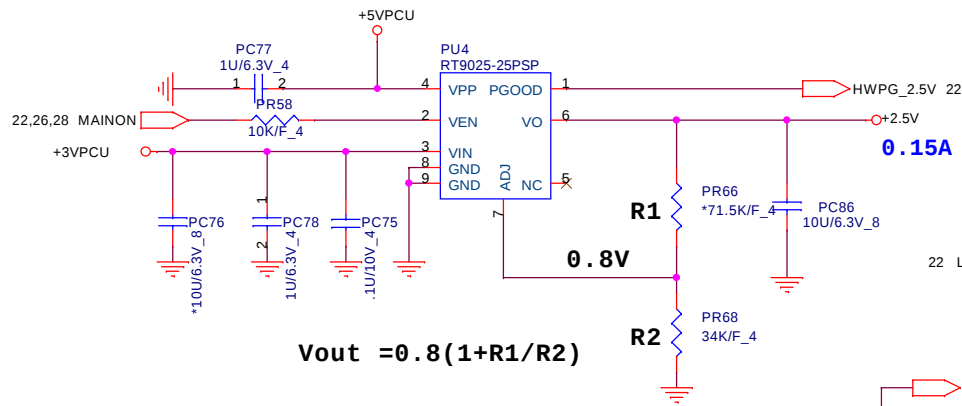
Quanta Computer Inc.
PROJECT : UL1

Size	Document Number	Rev
	VCore(RT8152A)	1A
Date:	Friday, May 08, 2009	Sheet 25 of 30

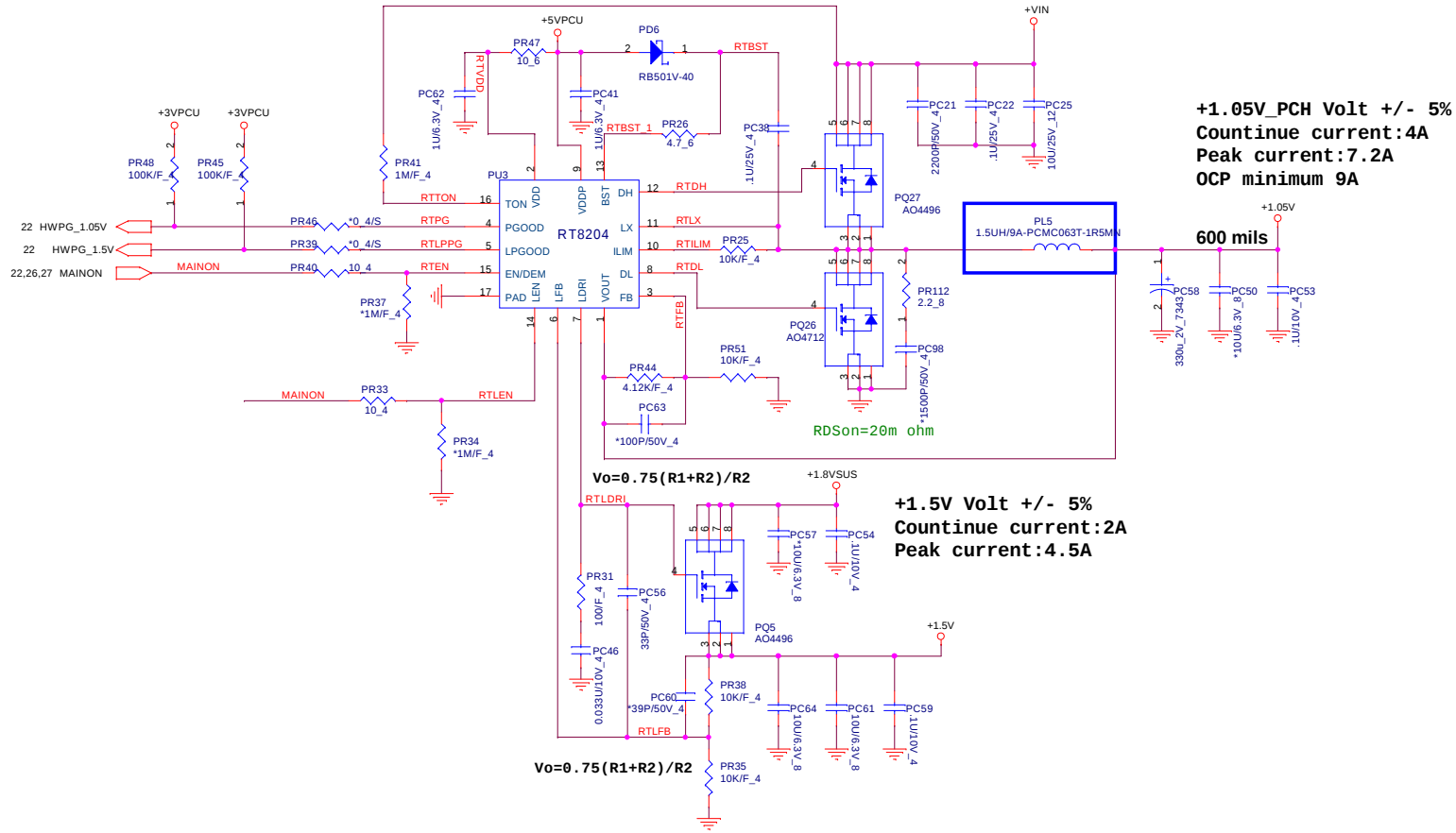


Quanta Computer Inc.
PROJECT : UL1

Size	Document Number	Rev 1A
DDR2 (RT8207)		
Date: Friday, May 08, 2009	Sheet 26 of 30	



 Quanta Computer Inc. PROJECT : UL1		Rev 1A
		Size
Discharge/1.5V		Sheet 27 of 30
Date: Friday, May 08, 2009		



Quanta Computer Inc.
PROJECT : UL1

Size	Document Number	Rev
		1A
+1.05V VCCP		
Date: Friday, May 08, 2009	Sheet 28 of 30	