

**Project Name : I4xSlx**

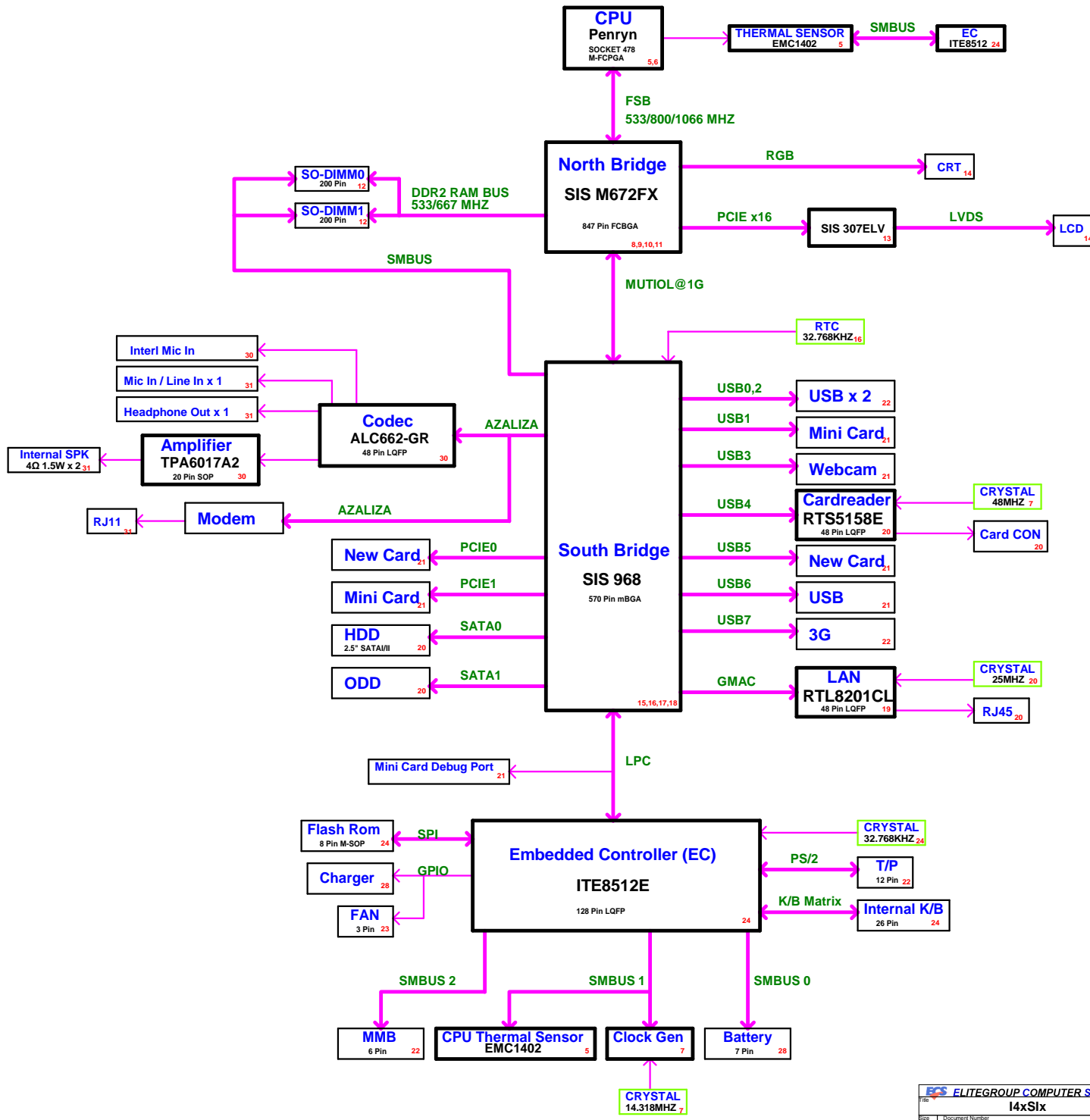
**Platform :Penryn(CPU)+SIS M672FX(NB)+SIS 968(SB)**

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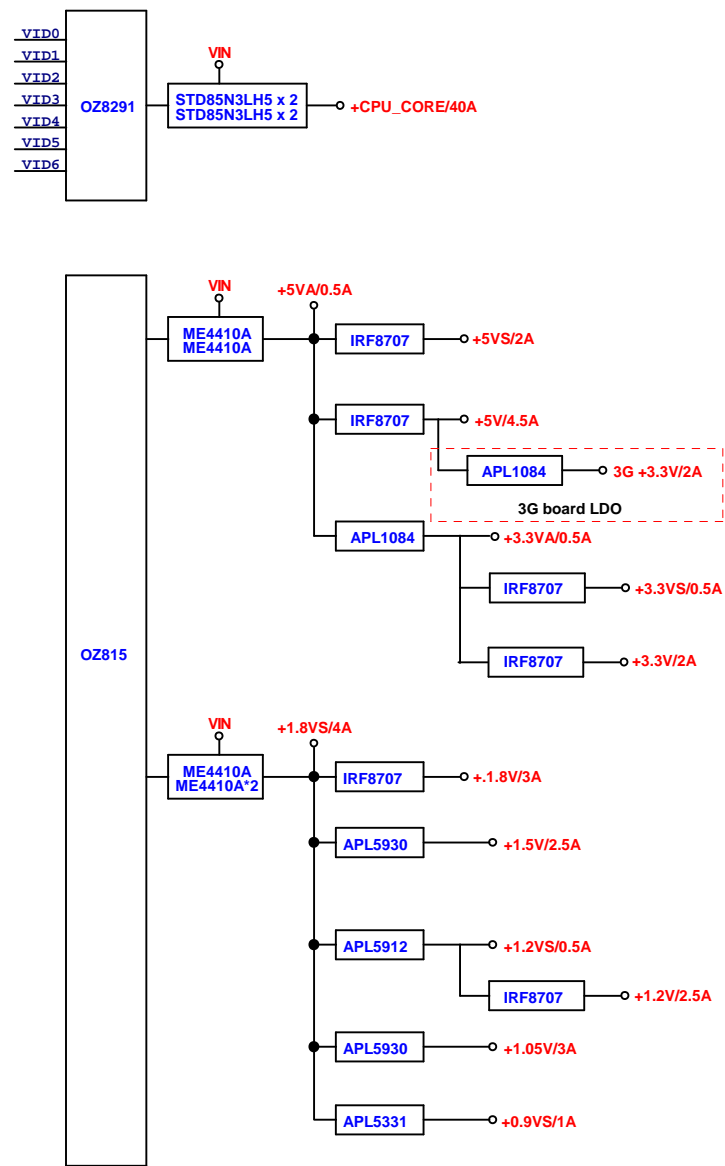
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**Schematic Version Change History**

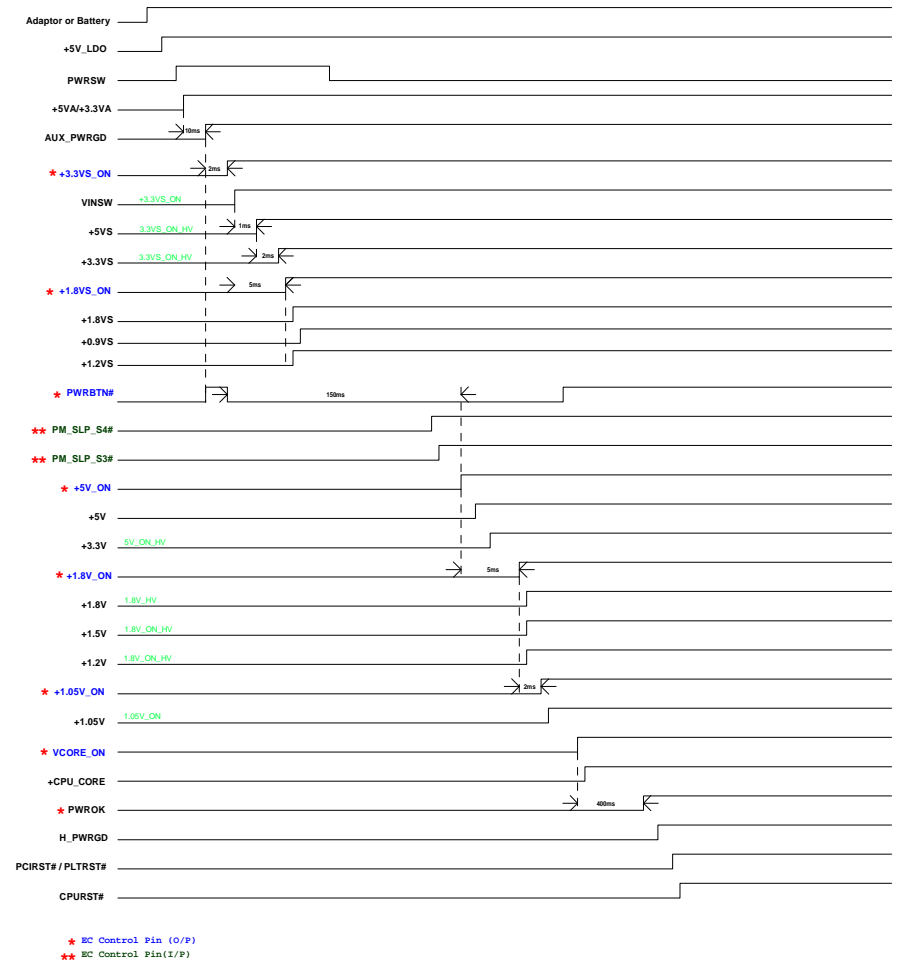
Release Date	Version	PCB P/N	PCBA P/N	Note
2008/09/16	Rev.A	37GI41000-A0	82GI41000-A0	Initial
2008/10/30	Rev.B	37GI41000-B0	82GI41000-B0	Update
2008/12/18	Rev.C	37GI41000-C0	82GI41000-C0	Update
2009/01/20	Rev.01	37GI41000-10	82GI41000-10	Update



POWER BLOCK DIAGRAM



System Poewr On Sequence



SIS968 GPIO	
GPIO0	NC
GPIO1	NC
GPIO2	PM_THROTTING#
GPIO3	EC_EXTSMI#
GPIO4	PM_CLKRUN#
GPIO5	NC
GPIO6	NC
GPIO7	NC
GPIO8	NC
GPIO9	NC
GPIO10	SLP_S5#
GPIO11	AGPSTOP_N
GPIO12	DPSLP#
GPIO13	SB_DPRSLPVR
GPIO14	NC
GPIO15	SLP_S3#
GPIO16	NC
GPIO17	H_A20GATE
GPIO18	H_RCIN#
GPIO19	SB_SMB_CLK
GPIO20	SB_SMB_DATA

ITE8512E GPIO	
GPA0	AUX_PWRGD
GPA1	DDR_V_SW#
GPA2	BTL_BEEP
GPA3	RPLED_ON
GPA4	SCROLL/3G_LED
GPA5	NUM_LED
GPA6	CAPS_LED
GPA7	PWRON_LED
GPB0	PM_SLP_S5#
GPB1	PM_SLP_S3#
GPB2	WEBCAM_ON
GPB3	BAT_SMBCLK
GPB4	BAT_SMBDAT
GPB5	H_A20GATE
GPB6	H_RCIN#
GPB7	BT_ON
GPC0	EC_VID5
GPC1	SMBCLK_EC
GPC2	SMBDAT_EC
GPC3	EC_VID2
GPC4	RF_SW_ON#
GPC5	EC_VID1
GPC6	INTERNET#
GPC7	SILENT#
GPD0	EC_PREST#
GPD1	PWRBTN#
GPD2	EC_LPCRST#
GPD3	EC_EXTSCI#
GPD4	EC_EXTSMI#
GPD5	H_PROCHOT#
GPD6	CHG_ON
GPD7	LCDSW
GPE0	EC_PWR_ON
GPE1	SET_V
GPE2	PWROK
GPE3	VCORE_ON
GPE4	LID#
GPE5	AC_IN/OUT#
GPE6	FAN_SPD# or RTCRST
GPE7	AMP_MUTE#
GPF0	3G_ON
GPF1	EC_BSEL1
GPF2	CHG_G_LED
GPF3	CHG_R_LED
GPF4	TP_CLK
GPF5	TP_DATA
GPF6	VGA_SMBCLK
GPF7	VGA_SMBDAT
PGP0	EC_VID3
PGP1	EC_WDOG_OK
PGP2	FLFRAME#
PGP6	NEW_CARD_PWR_ON#
GPH0	+1.8V_ON
GPH1	+1.8VVS_ON
GPH2	SENBAT_V
GPH3	+3.3VVS_ON
GPH4	+5V_ON
GPH5	VDD_CORE_ON
GPH6	EC_VID4

ITE8512E GPIO	
GPIO	BATT_TEMP
GPI1	ADAPTOR_I
GPI2	NC
GPI3	FAN_SPD#
GPI4	BAT_I
GPI5	EC_CPU_PWR
GPI6	DDR2_TEMP
GPI7	BAT_V
GPJ0	EC_BRGHT
GPJ1	CHG_I
GPJ2	FAN_CTRL0
GPJ3	MMB_RST#
GPJ4	CHG_REF
GPJ5	PM_THROTTING#

CPU				
CPU	CORE(V)	ICC(mA)	W	TEMP(°C)
2.0G	1.525	35.7	54.3	69
2.2G	1.525	37.5	57.1	70
2.26G	1.525	38.1	58.0	70
2.4G	1.525	39.3	59.8	71
2.5G	1.525	40	61.0	72
2.53G	1.525	40.4	61.5	72
2.6G	1.525	41.05	62.6	72
2.66G	1.525	43.35	66.1	74
2.8G	1.525	44.86	68.4	75
3.06G	1.525	55.9	85.2	81
VCC	ICC(mA)	W	TEMP(°C)	
+1.5V	120	0.18	70	
+1.05V	2500	2.625		

672FX			
VCC	ICC(mA)	W	TEMP(°C)
+1.2V	2303	2.76	70
+1.8V	1215	2.18	
+1.05V	80	0.084	

SIS968			
VCC	ICC(mA)	W	TEMP(°C)
+3.3V	86	0.283	70
+1.8V	851	1.531	
+1.05V	22	0.022	

307LV			
VCC	ICC(mA)	W	TEMP(°C)
+3.3V	236	1.107	70
+1.8V	565	0.778	

CLOCK GENERATOR+BUFFER			
VCC	ICC(mA)	W	TEMP(°C)
+3.3V	400	1.32	70
+1.8V	300	0.54	

ITE8512E			
VCC	ICC(mA)	W	TEMP(°C)
+3.3V	200	0.66	70
+3.3VA	500	1.65	

RTS5158			
VCC	ICC(mA)	W	TEMP(°C)
+5V	76	0.38	85

RTL8201CL			
VCC	ICC(mA)	W	TEMP(°C)
+3.3V	20	0.396	85

ALC662-GR			
VCC	ICC(mA)	W	TEMP(°C)
+3.3V	23	0.075	70
+5VA	38	0.19	

TPA6017A2			
VCC	ICC(mA)	W	TEMP(°C)
5V	20	0.1	85

ADM1032			
VCC	ICC	W	TEMP(°C)
+3.3V	170uA	0.56mW	150

SMART POWER TABLE

VID6	VID5	VID4	VID3	VID2	VID1	VID0	VCORE	+_mV
0	0	0	0	0	0	0	1.5000	-0mV
0	0	0	0	0	0	1	1.4875	-2.5mV
0	0	0	0	0	1	0	1.4750	-5mV
0	0	0	0	1	0	0	1.4500	-50mV
0	0	0	1	0	0	0	1.4000	-100mV
0	0	1	0	0	0	0	1.3000	-200mV
0	1	0	0	0	0	0	1.1000	-400mV
1	0	0	0	0	0	0	0.7000	-800mV
0	0	1	1	0	1	1	1.1625	
0	0	1	0	0	0	1		
0	0	1	0	0	1	0		
0	0	1	0	1	0	0		
0	0	1	0	1	1	0		
0	0	1	1	0	0	1		
0	0	1	1	0	1	0		

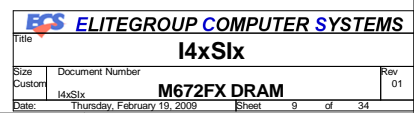


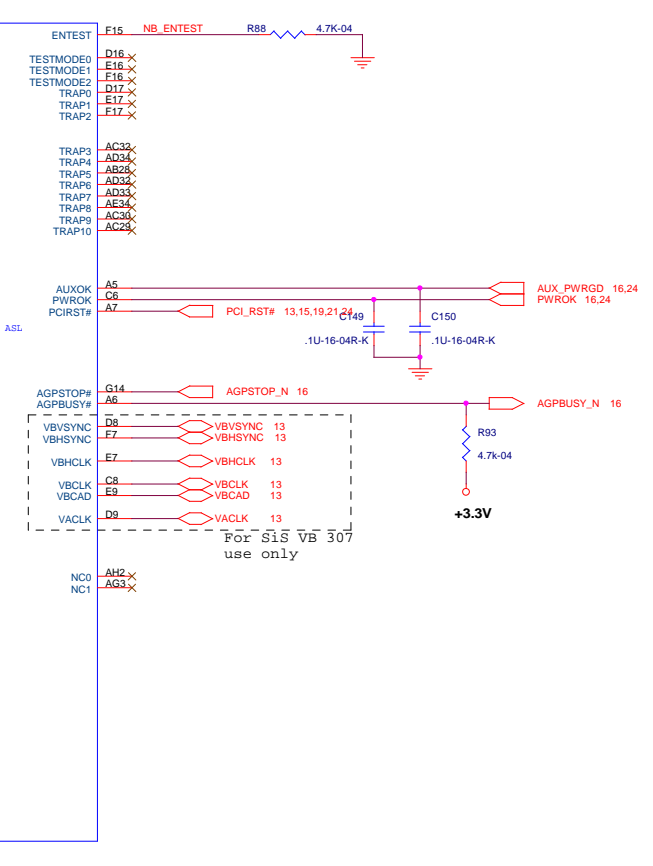
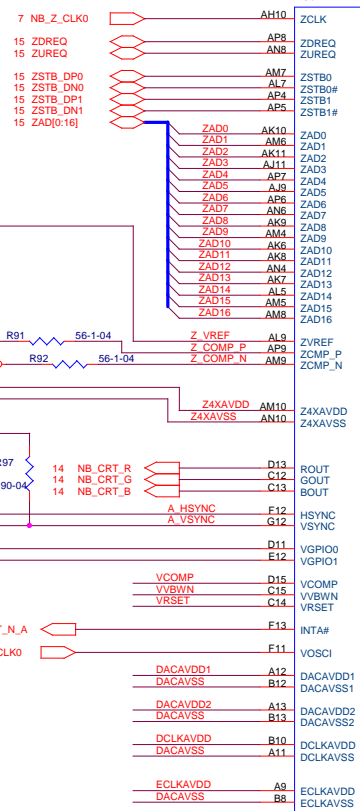
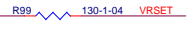
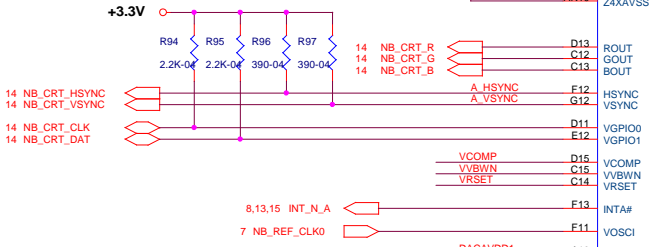
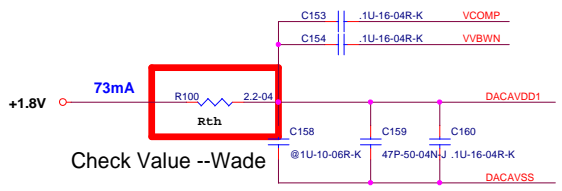
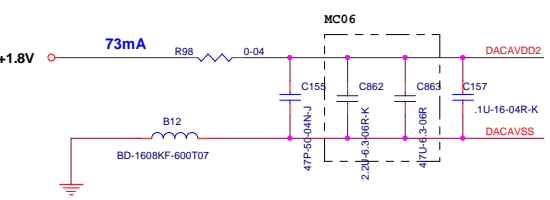
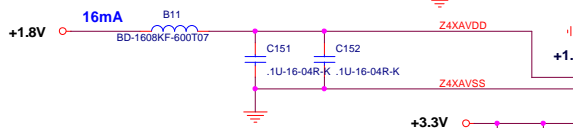
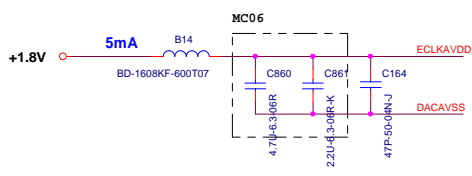
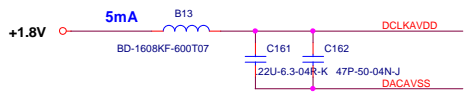






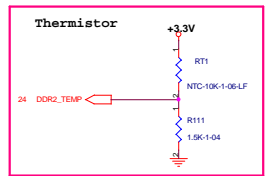
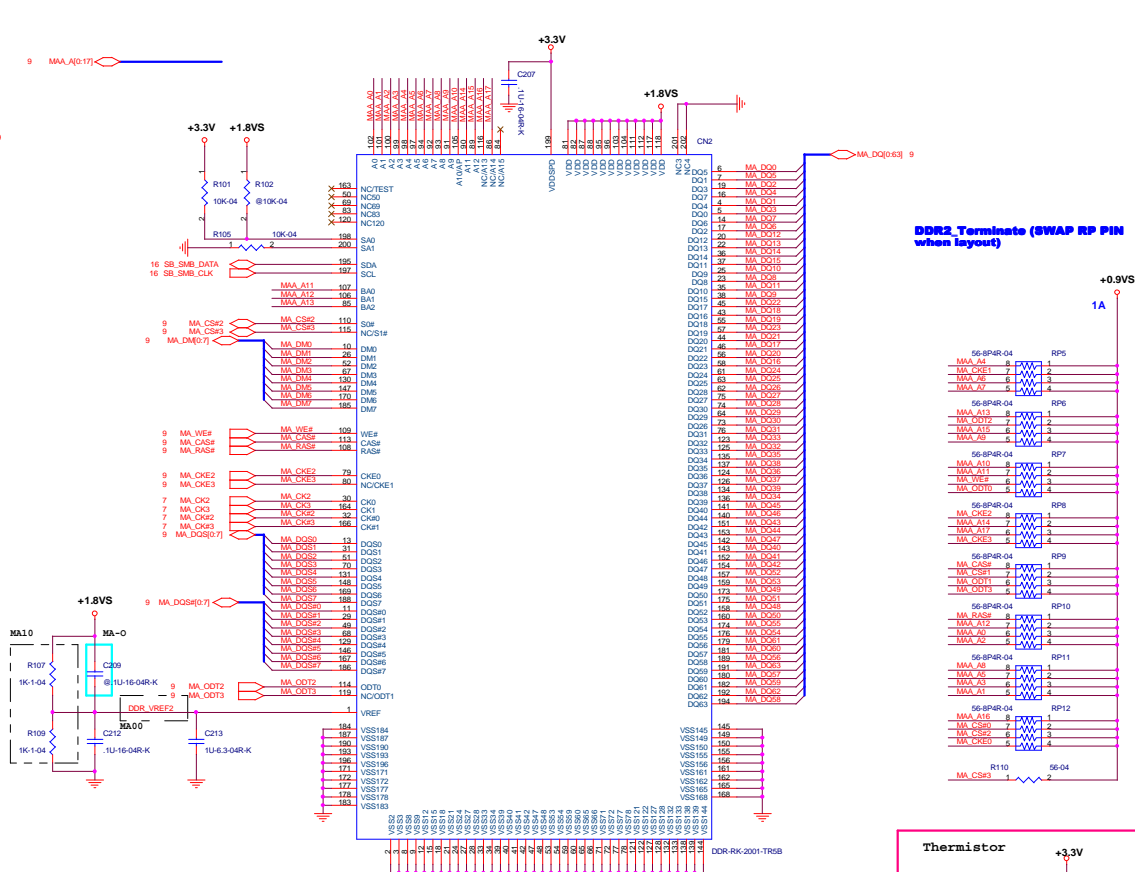
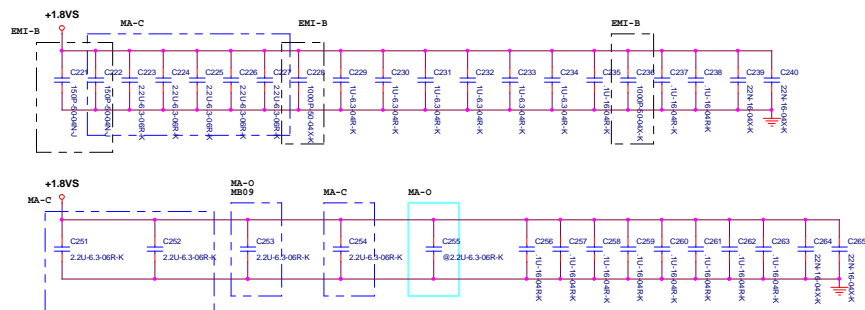
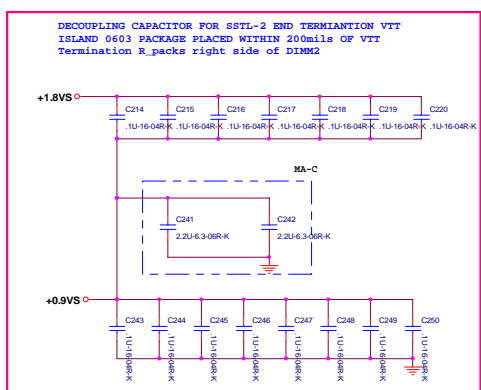
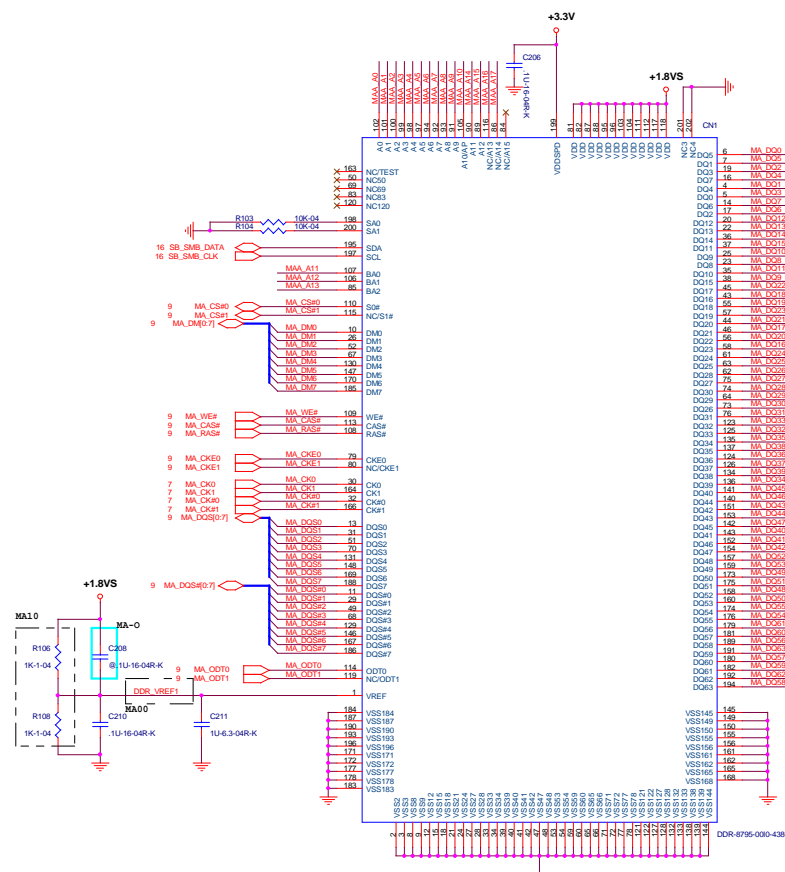


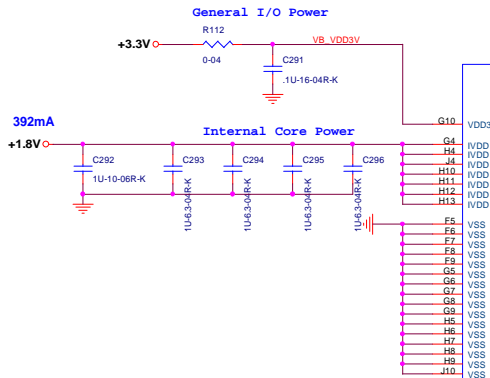
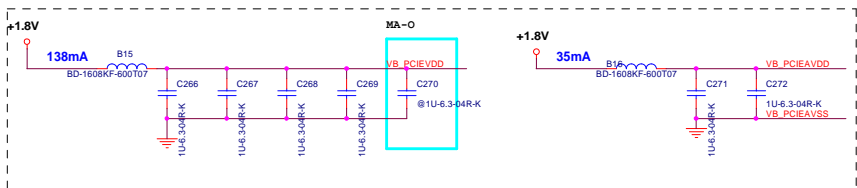




DACAVDD1 Spec.  
Voltage: 1.5V +/- 5%  
Current: 100mA  
Rth use a 3.3 ohm resistor make a voltage drop about 0.3V to meet the voltage above.

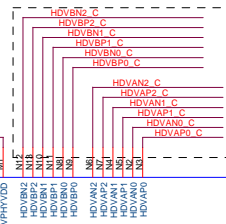
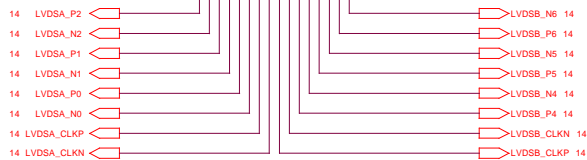






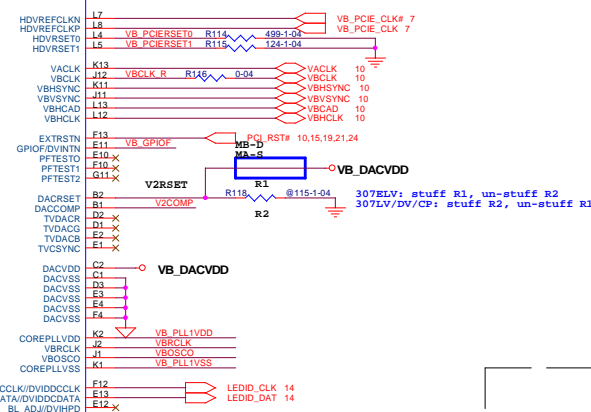
For 307LV/ELV only

14 VB\_LCDVDD\_EN  
14 VB\_BI\_EN

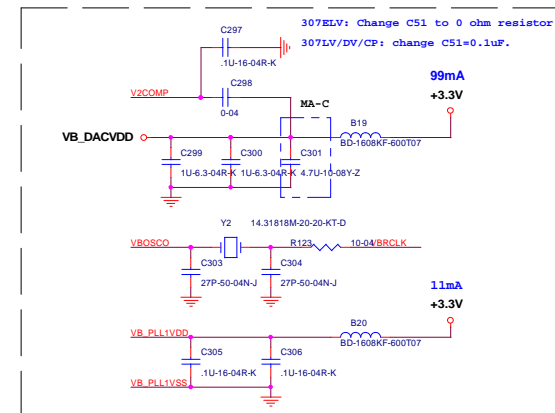
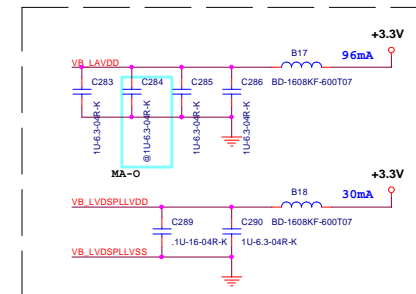
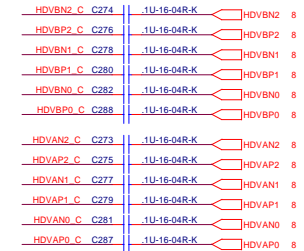


## HDV Signals

VB\_GPIOF R113 @0-04 INT\_NA 8.10.15  
un-stuff => for 307LV/ELV

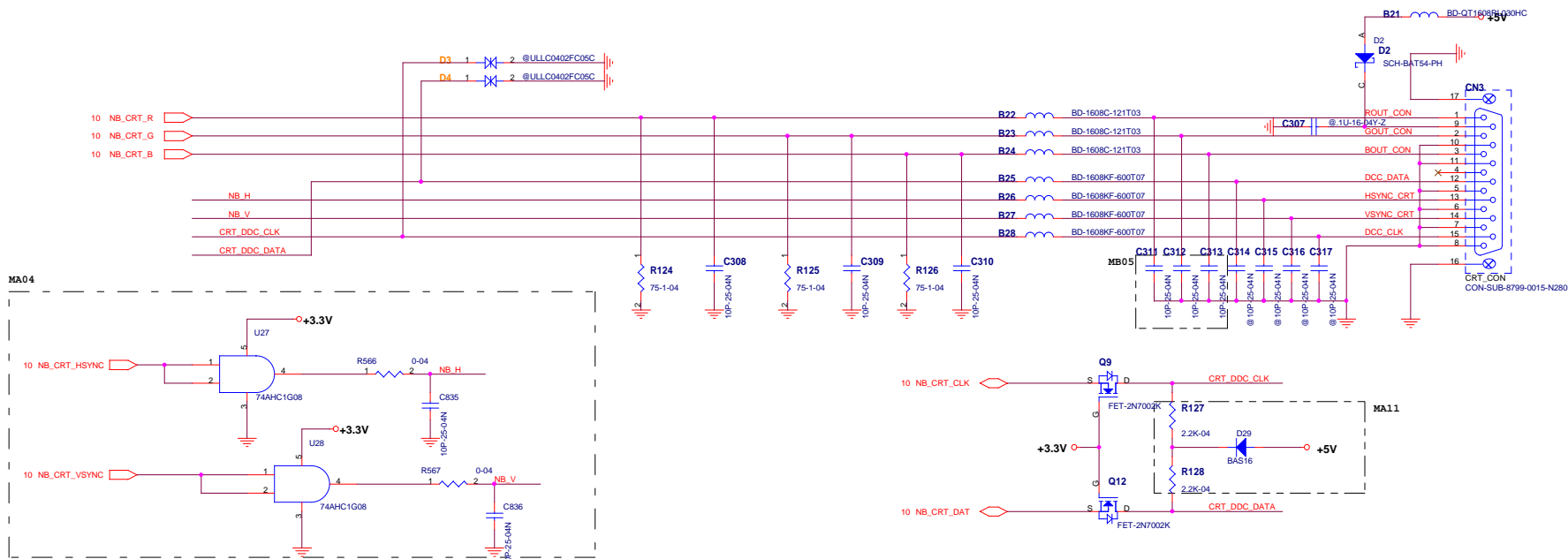


We "must" put the capacitors for each HDV lane  
The capacitors can be  
1) close to NB or 307 side(both NB and 307 are on board).  
2) close to PCIe slot side(when 307 on the daughter card)

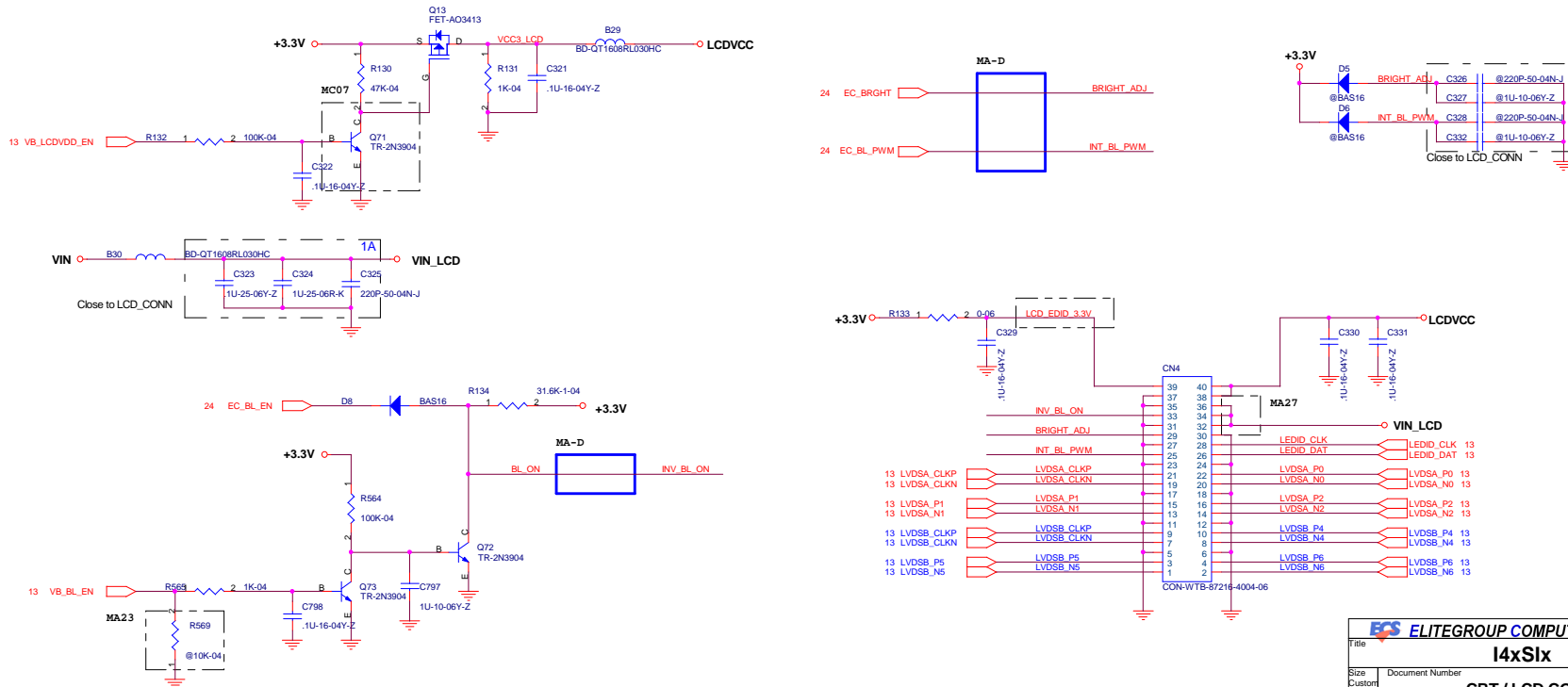


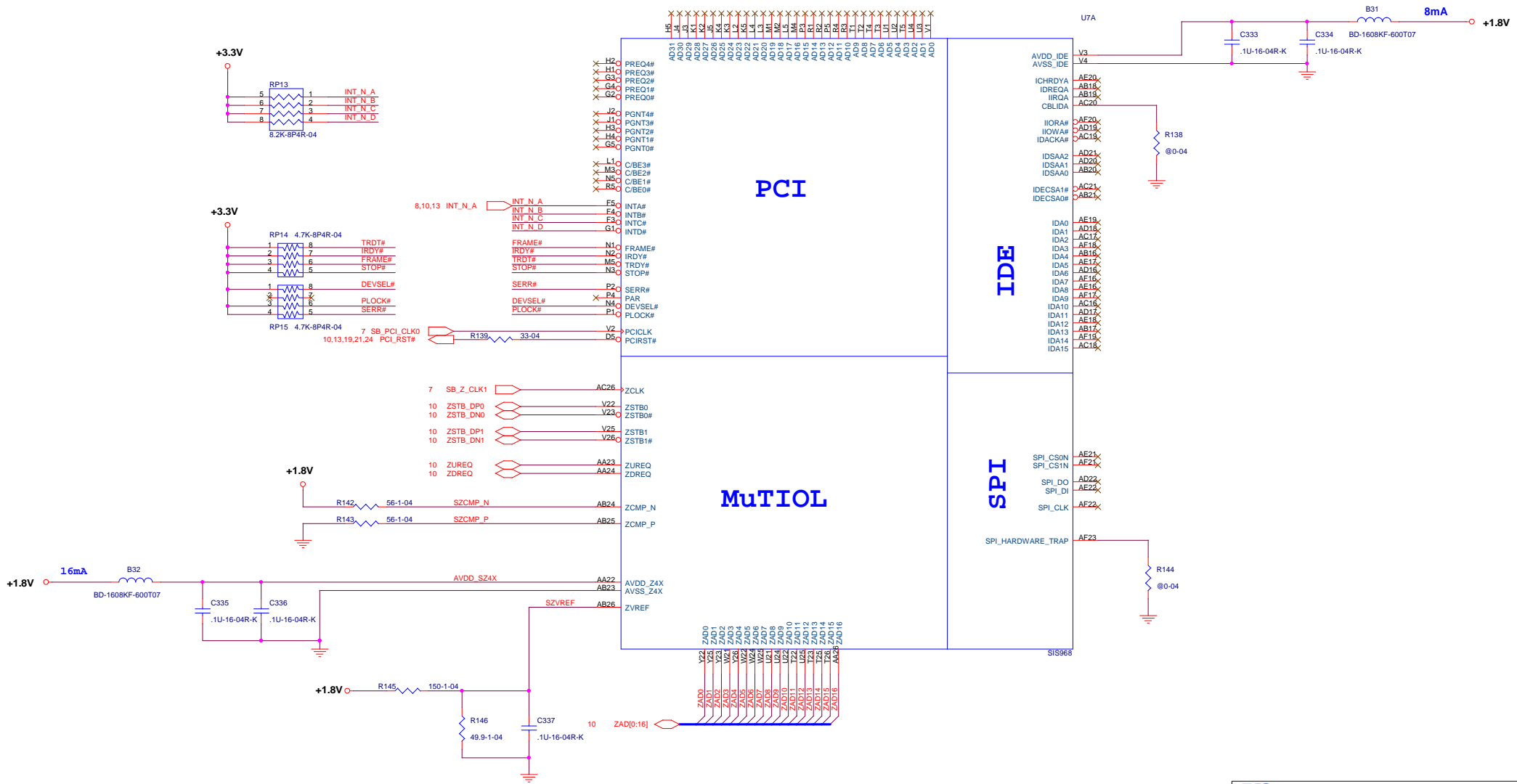
ECS ELITEGROUP COMPUTER SYSTEMS				
14xS1x				
Size	Document Number	SIS 307LV LVDS / TV		Rev
Custom	14xS1x	Thursday, February 19, 2009		01
Date	Thursday, February 19, 2009	Sheet	13	of 34

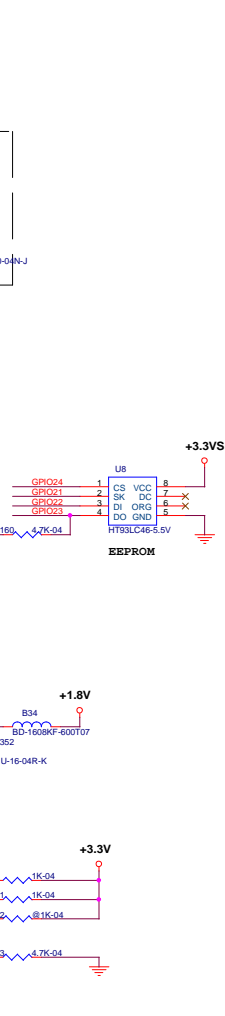
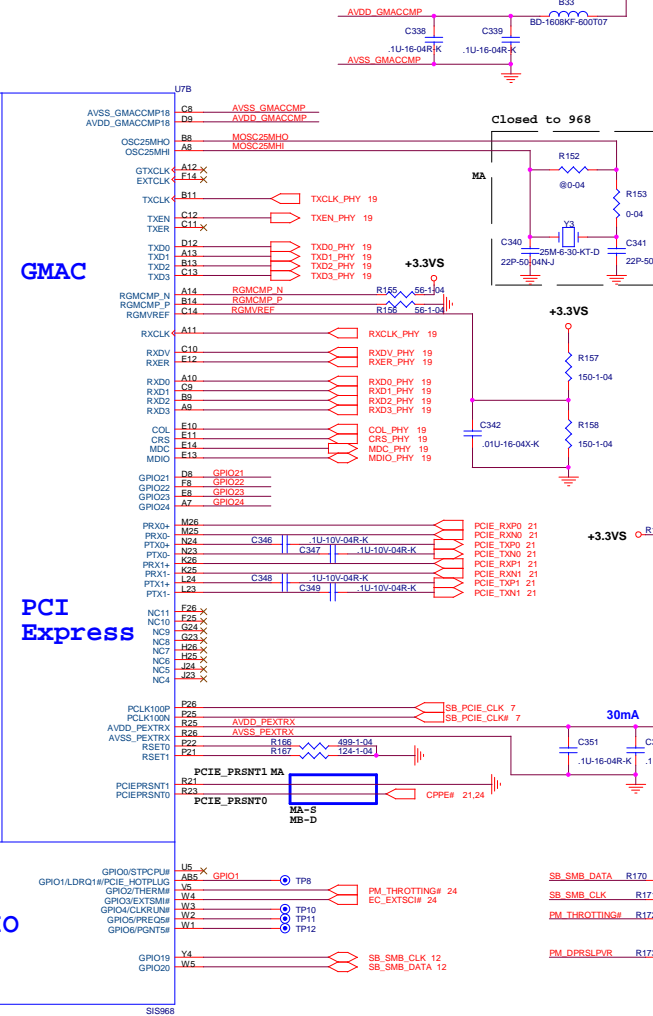
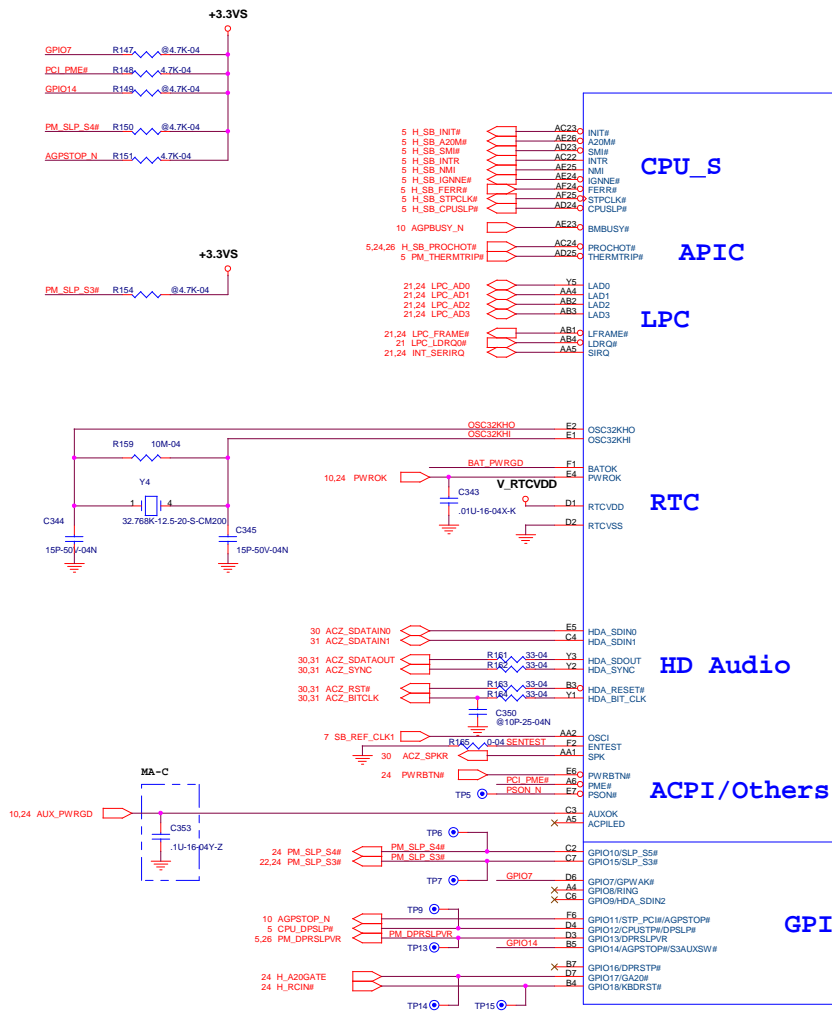
**CRT CON**



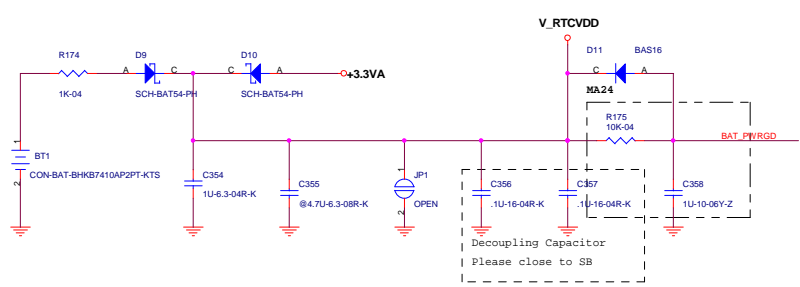
**LCD CON**



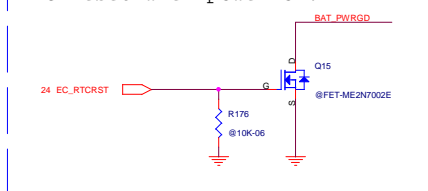




# RTC

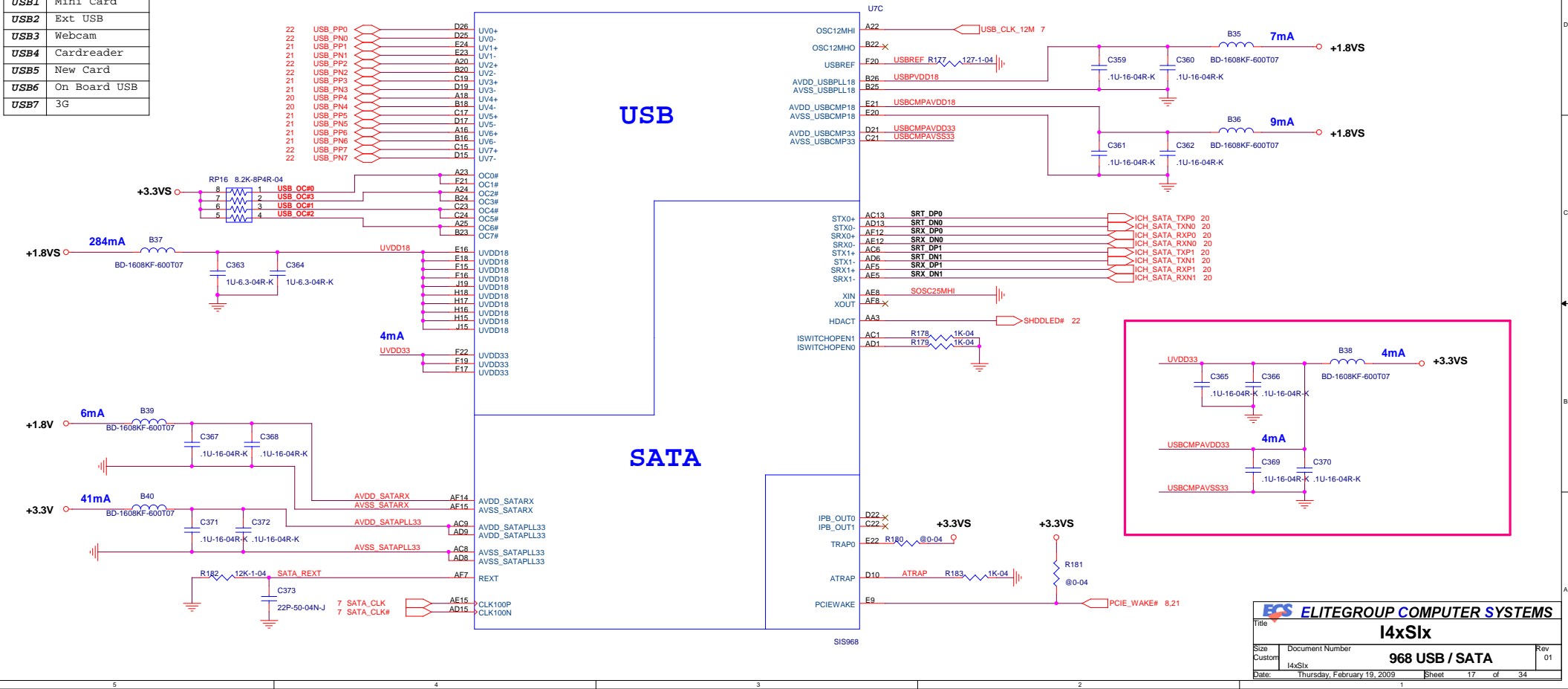


# RTC reset when power on.



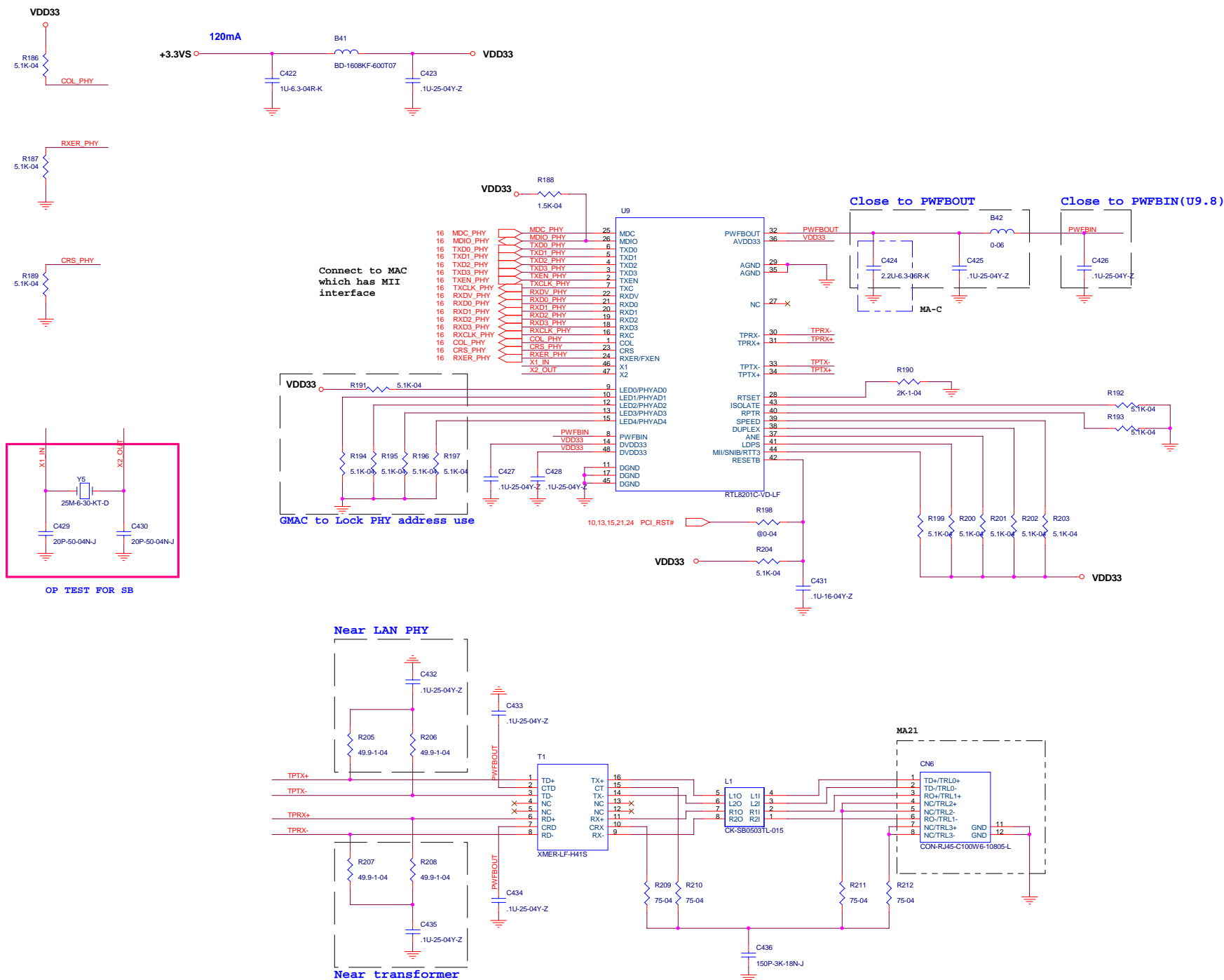


	I41SiX
USB0	Ext USB
USB1	Mini Card
USB2	Ext USB
USB3	Webcam
USB4	Cardreader
USB5	New Card
USB6	On Board USB
USB7	3G

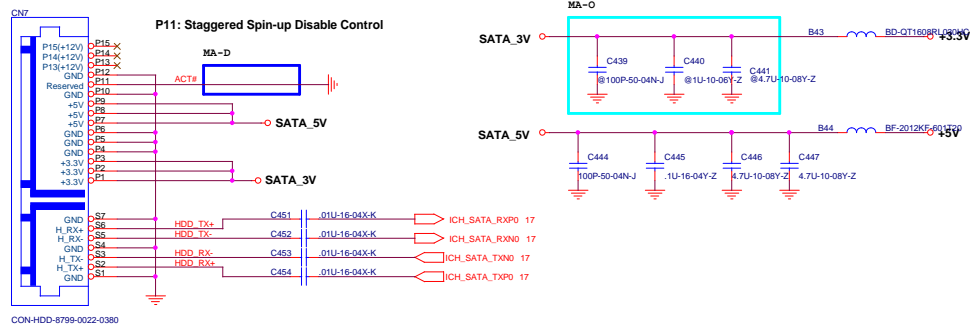


<div> <div> <div></div> <div>ELITEGROUP COMPUTER SYSTEMS</div> </div> <div> <div>I4xSix</div> <div>968 USB / SATA</div> </div> </div>			
Size	Document Number	Rev	
Custom	I4xSix	01	
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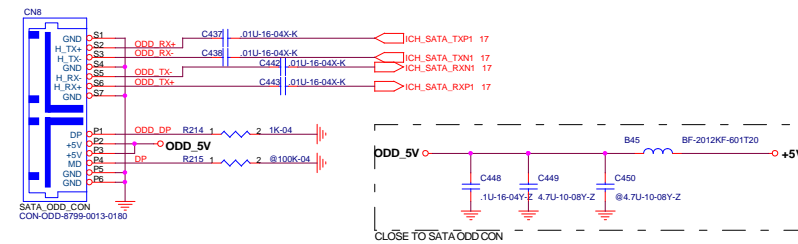




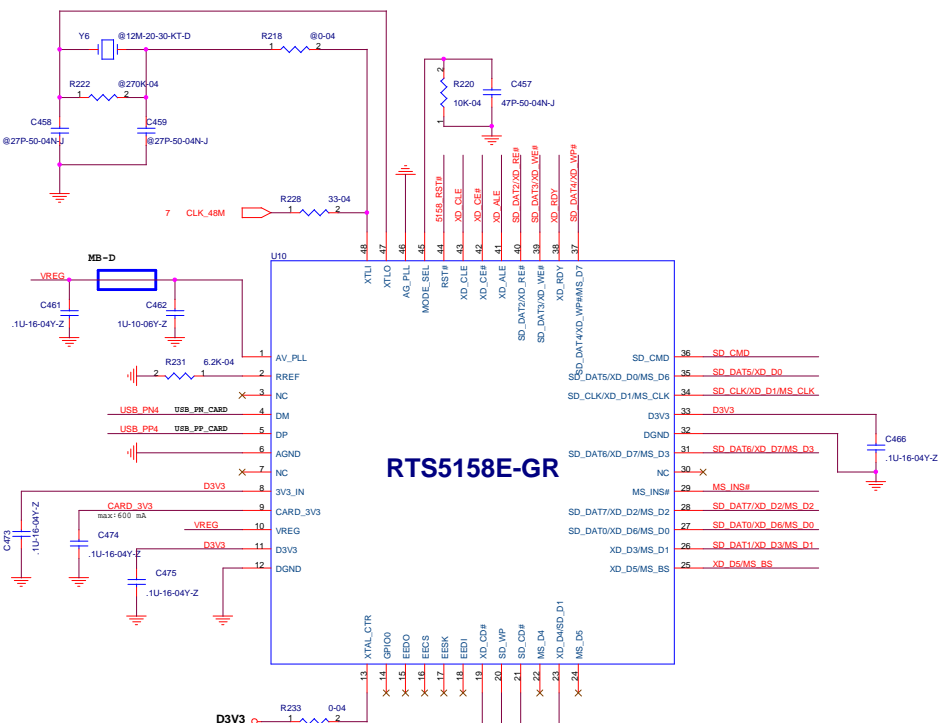
## MASTER HDD CON



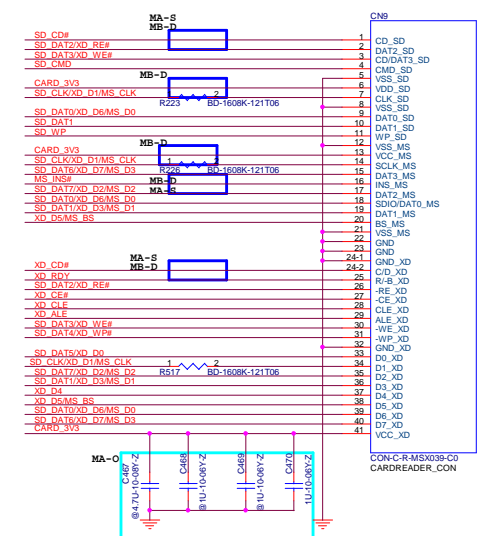
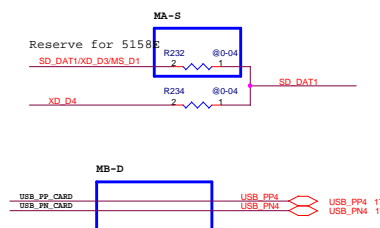
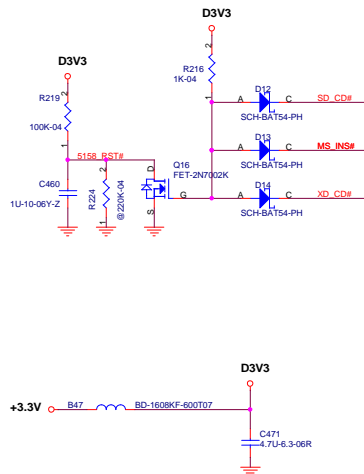
## SATA ODD CON



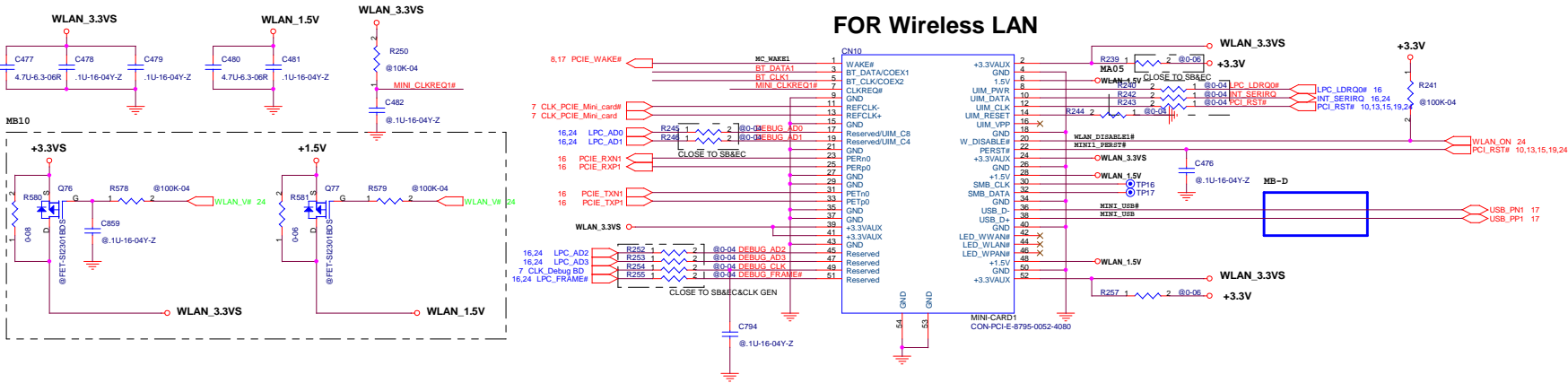
## CARDREADER



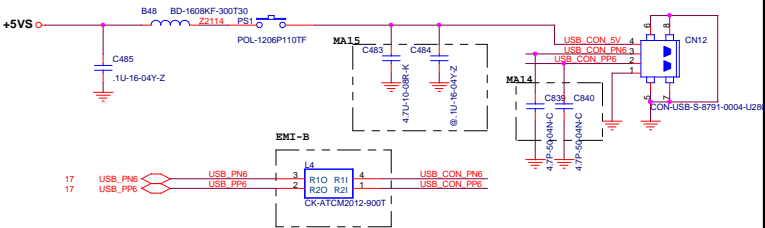
using RTS5158E, don't need hard ware reset circuit. But change AR65 to CHIP-R KOHM 100 1/16W J SMD 0402 LF, AC72 to MC UF 1 10V Y5V Z 0603 LF.



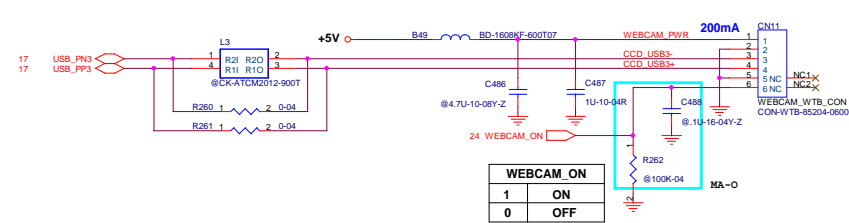
MINI CARD CON



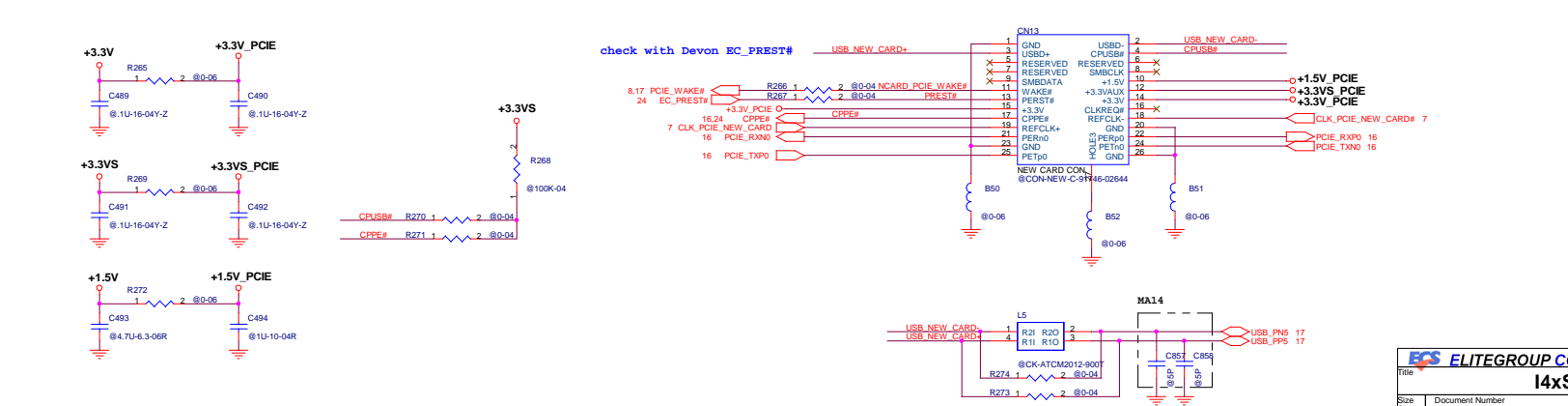
USB CON



WEBCAM CON

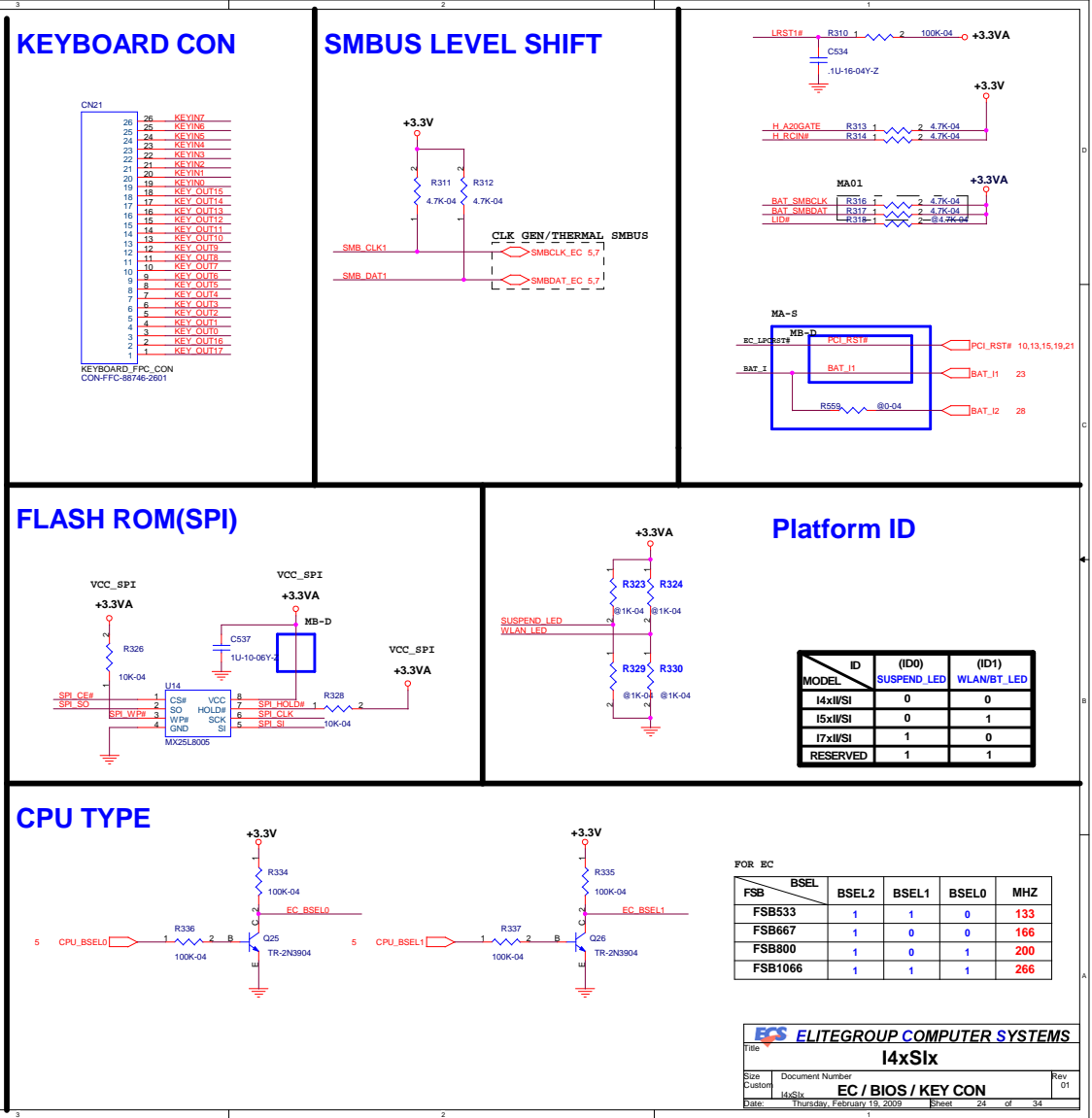
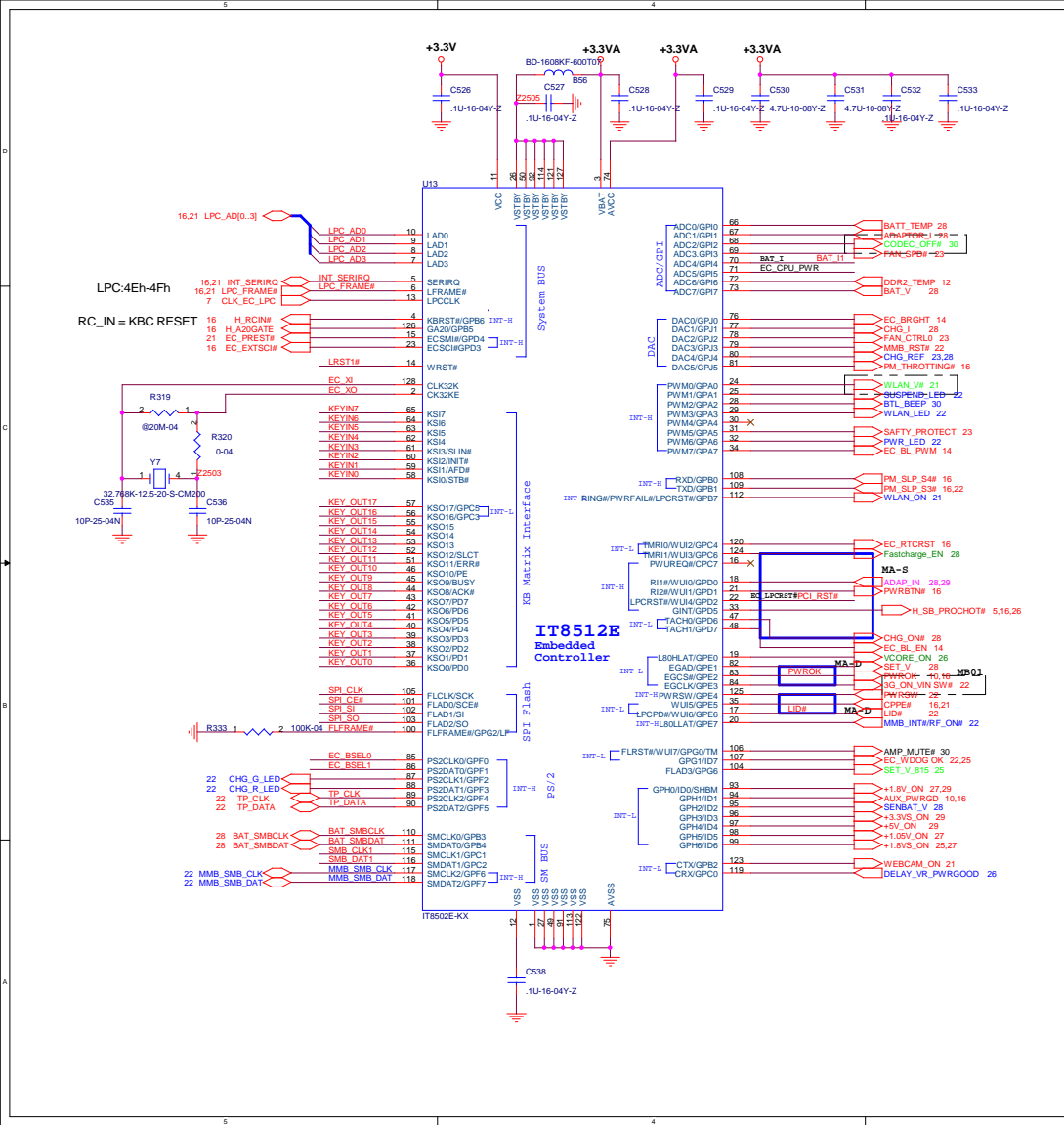


NEW CARD SOCKET





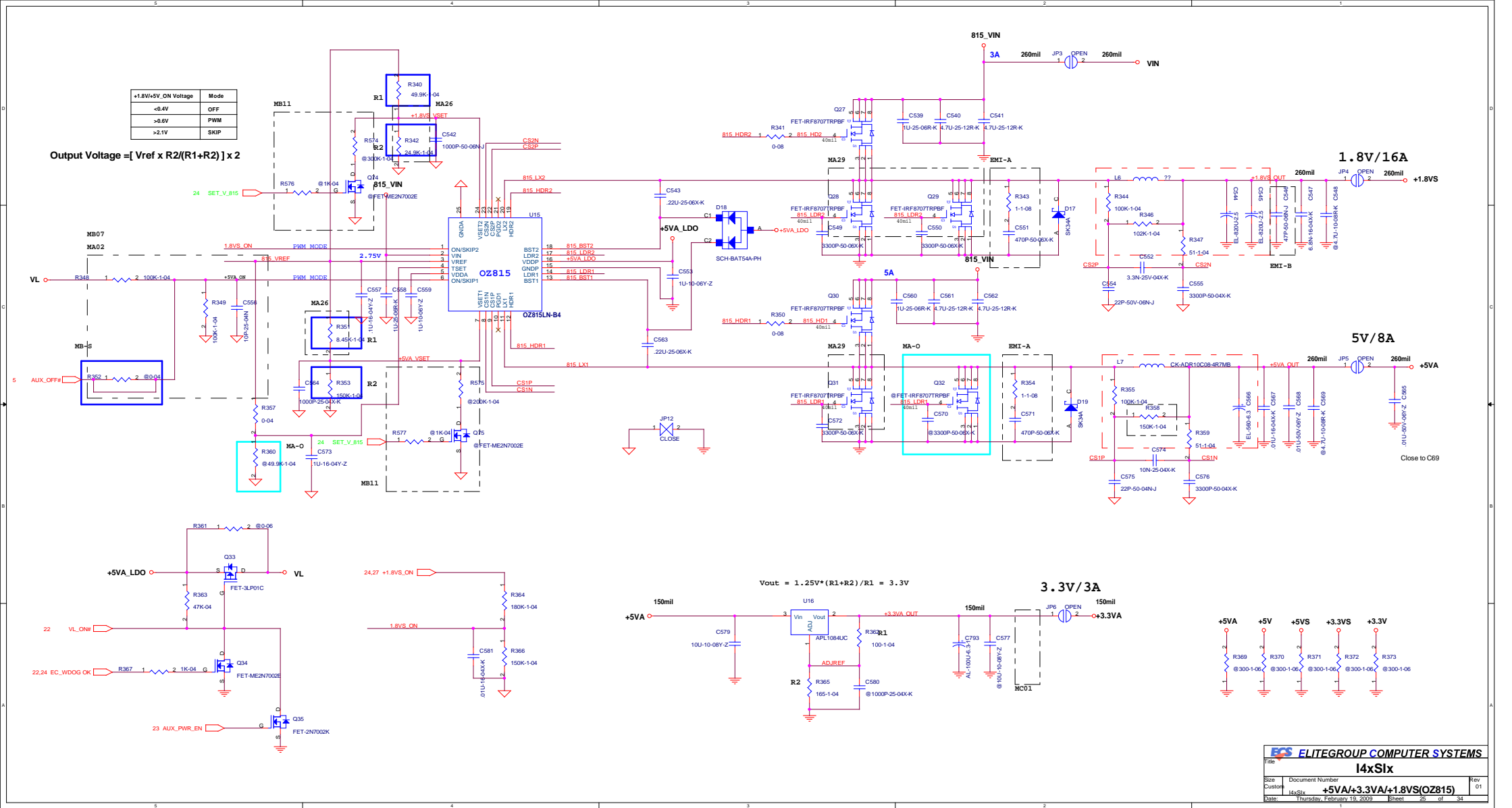


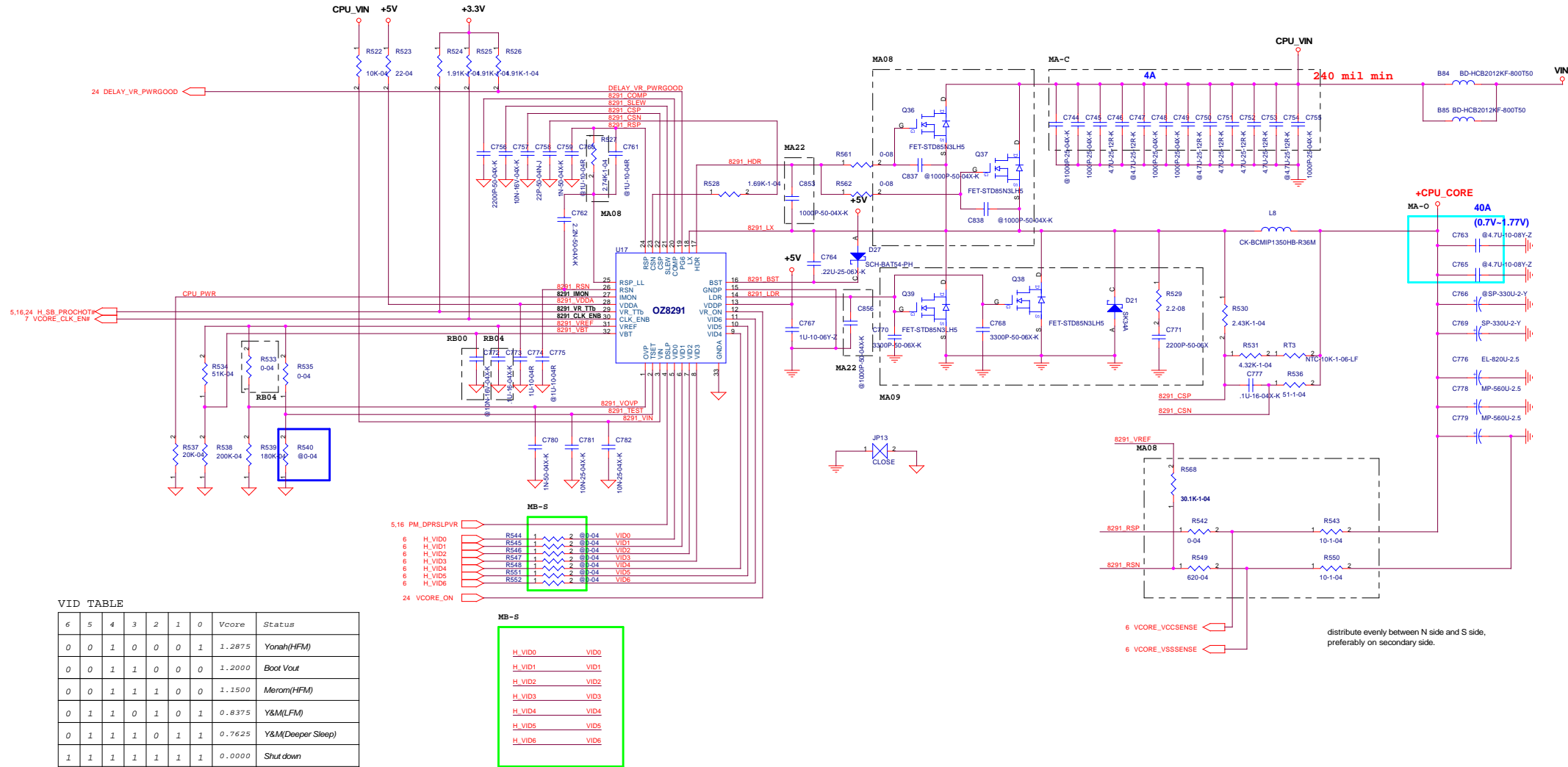




+1.8V/+5V_ON Voltage	Mode
<0.4V	OFF
>0.6V	PWM
>2.1V	SKIP

$$\text{Output Voltage} = [V_{\text{ref}} \times R2 / (R1 + R2)] \times 2$$

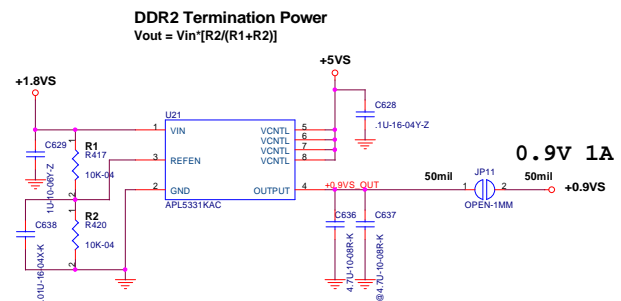
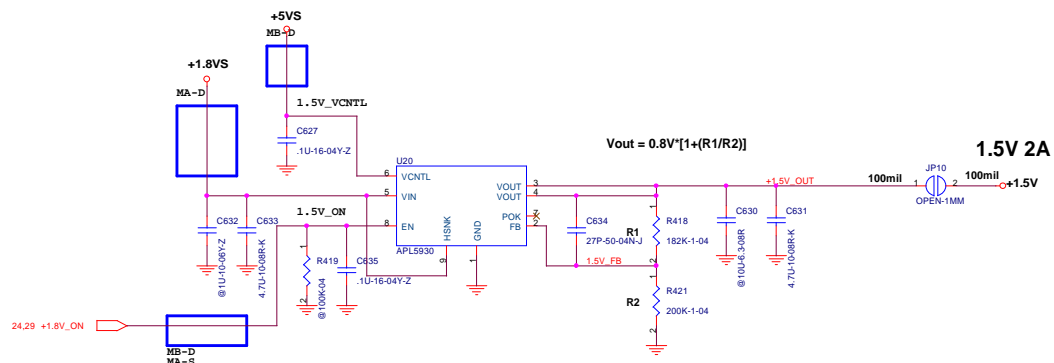
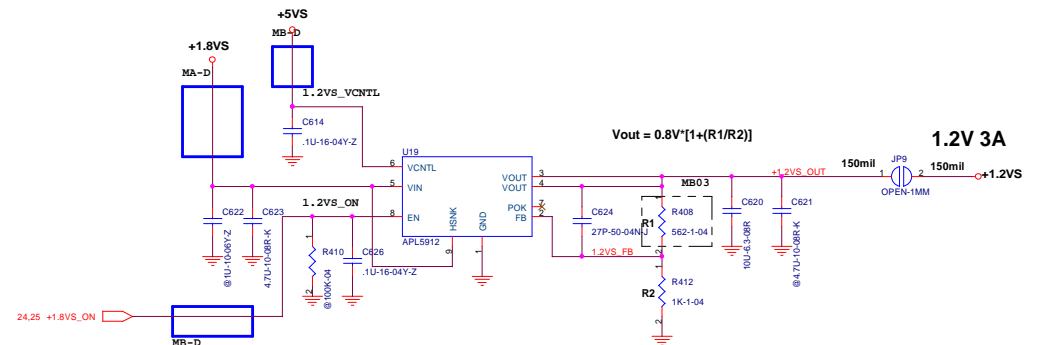
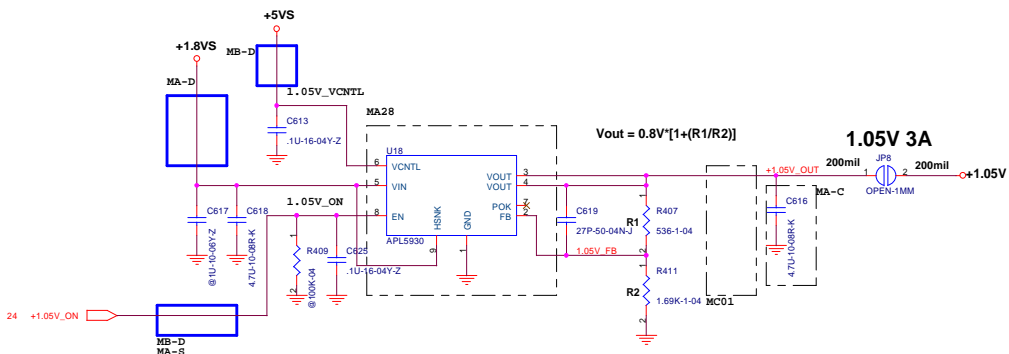




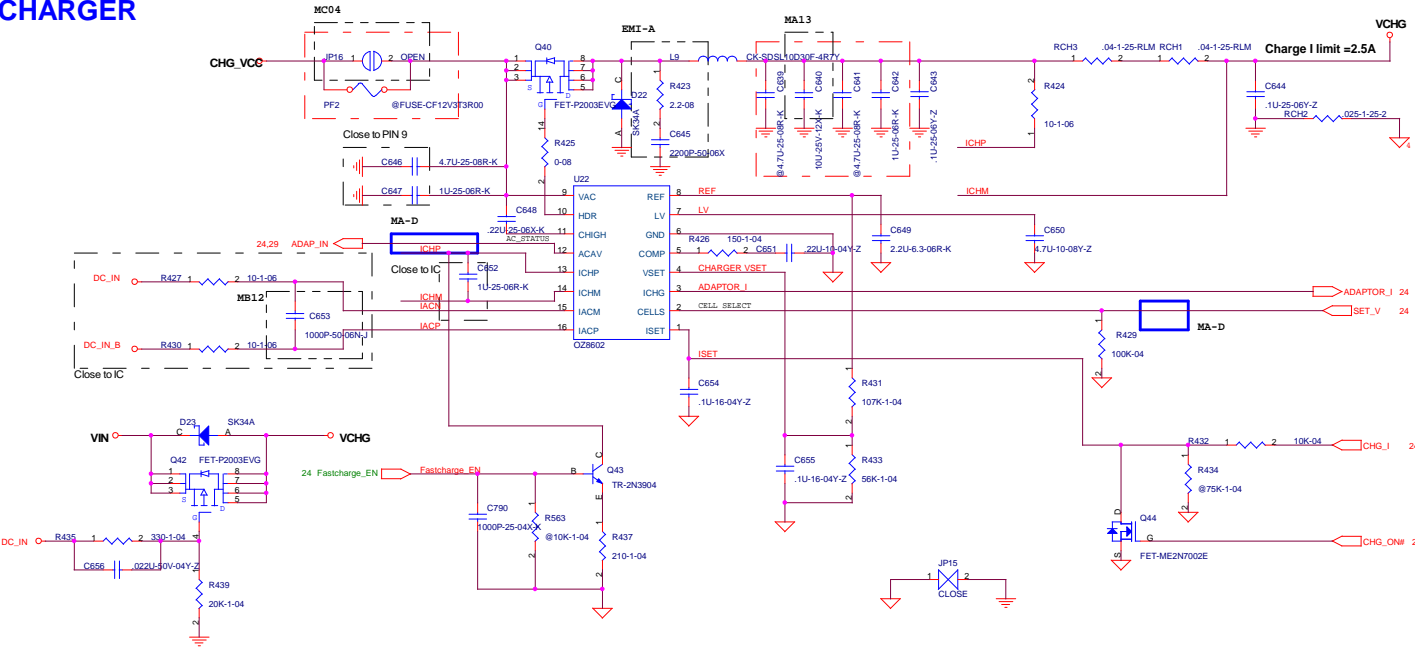
VID TABLE

6	5	4	3	2	1	0	Vcore	Status
0	0	1	0	0	0	1	1.2875	Yonah(HFM)
0	0	1	1	0	0	0	1.2000	Boot Vout
0	0	1	1	1	0	0	1.1500	Merom(HFM)
0	1	1	0	1	0	1	0.8375	Y&M(LFM)
0	1	1	1	0	1	1	0.7625	Y&M(Deeper Sleep)
1	1	1	1	1	1	1	0.0000	Shut down





CHARGER



SET_V	
H	16.84V (4CELL)
L	12.71V (3CELL)

Vch =Nx(4.1 +Vset/10)  
N=Cell (pin2 =high  
-->4, low -->3)

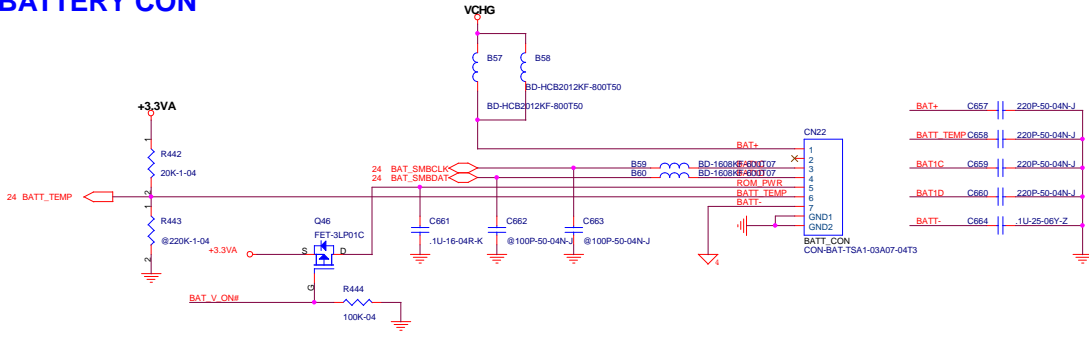
CHG_ON	
L	CHARGER ON
H	CHARGER OFF

ADAPTOR_I	
F50H0	
Voltage	W
330mV	20W
660mV	40W
990mV	60W
1.32V	80W
X	X
X	X
Vichg =RAD1*Irsense*10	

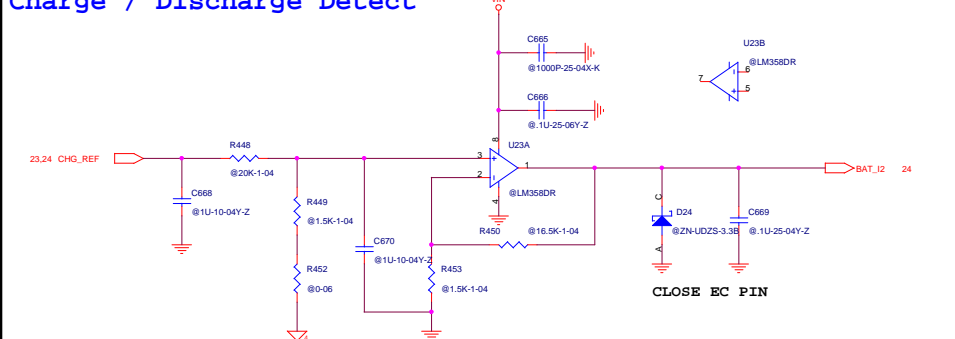
CHARGER CURRENT CGH\_I=([Ich\*Rch-V\_R424]\*30

Fast-charge-EN	CHG_I	Ich
H	3.3V	3A
H	2.82V	2.8A
H	2.1V	2.5A
H	0.9V	2A
H	0.3V	1.6A
L	3V	1.25A
L	2.4V	1A
L	0.48V	0.200A
L	0.3V	0.125A

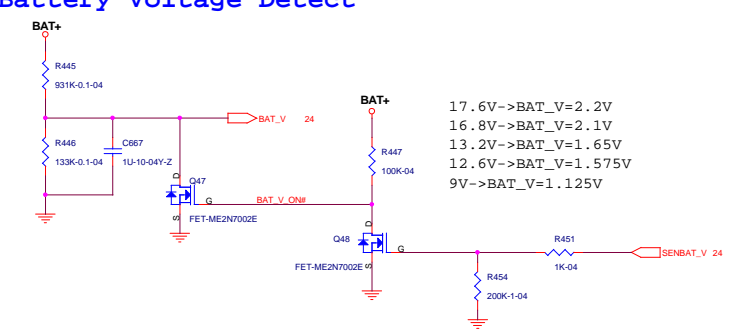
BATTERY CON



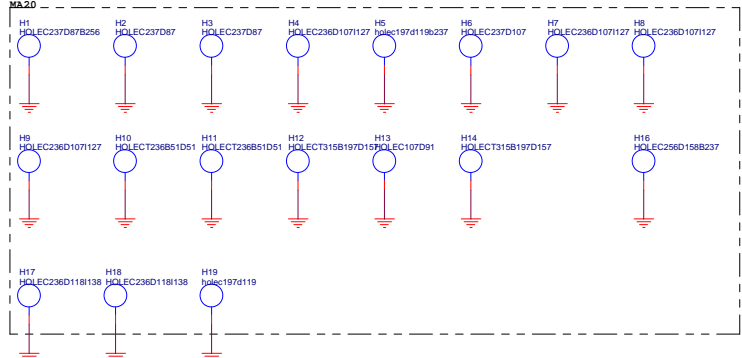
Charge / Discharge Detect



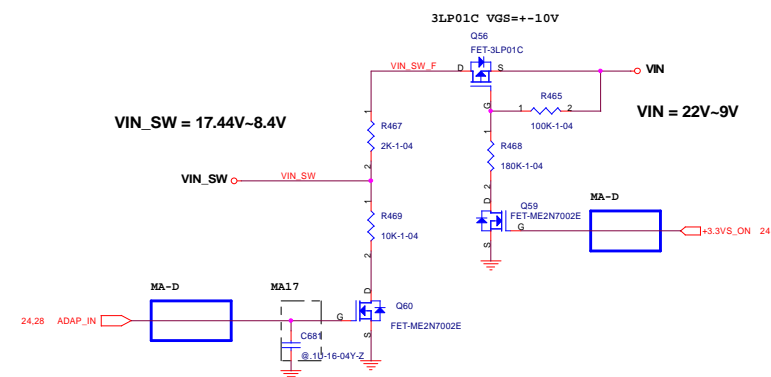
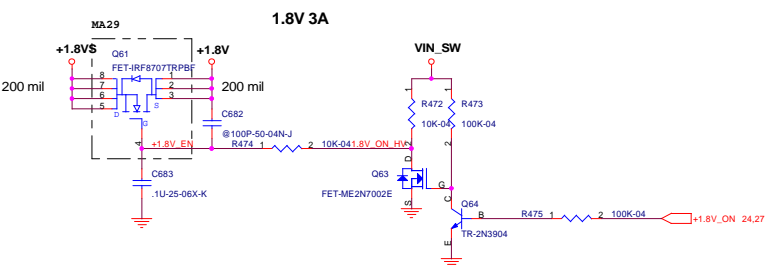
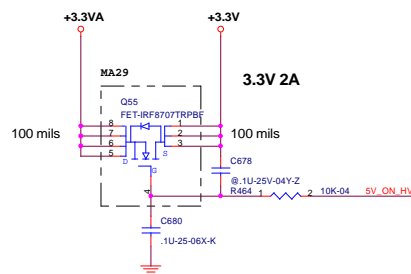
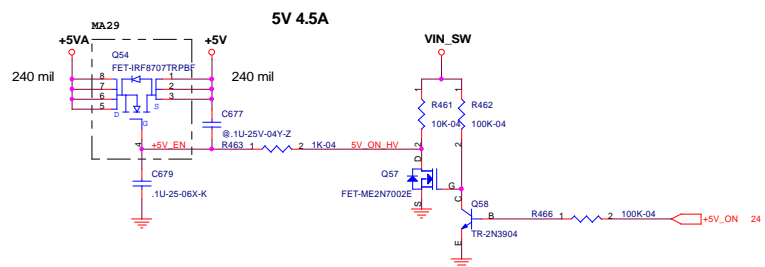
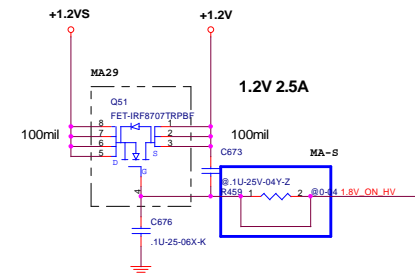
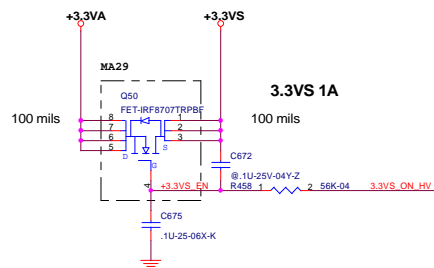
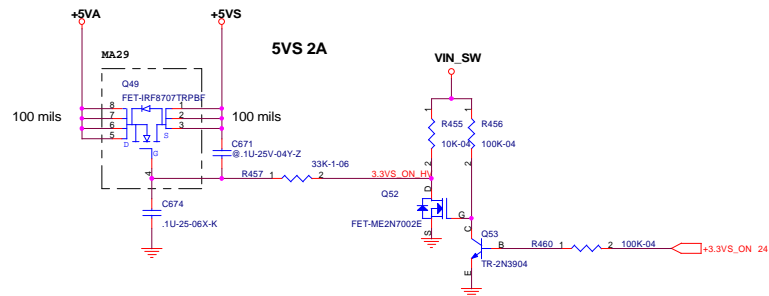
Battery Voltage Detect



17.6V->BAT\_V=2.2V  
16.8V->BAT\_V=2.1V  
13.2V->BAT\_V=1.65V  
12.6V->BAT\_V=1.575V  
9V->BAT\_V=1.125V

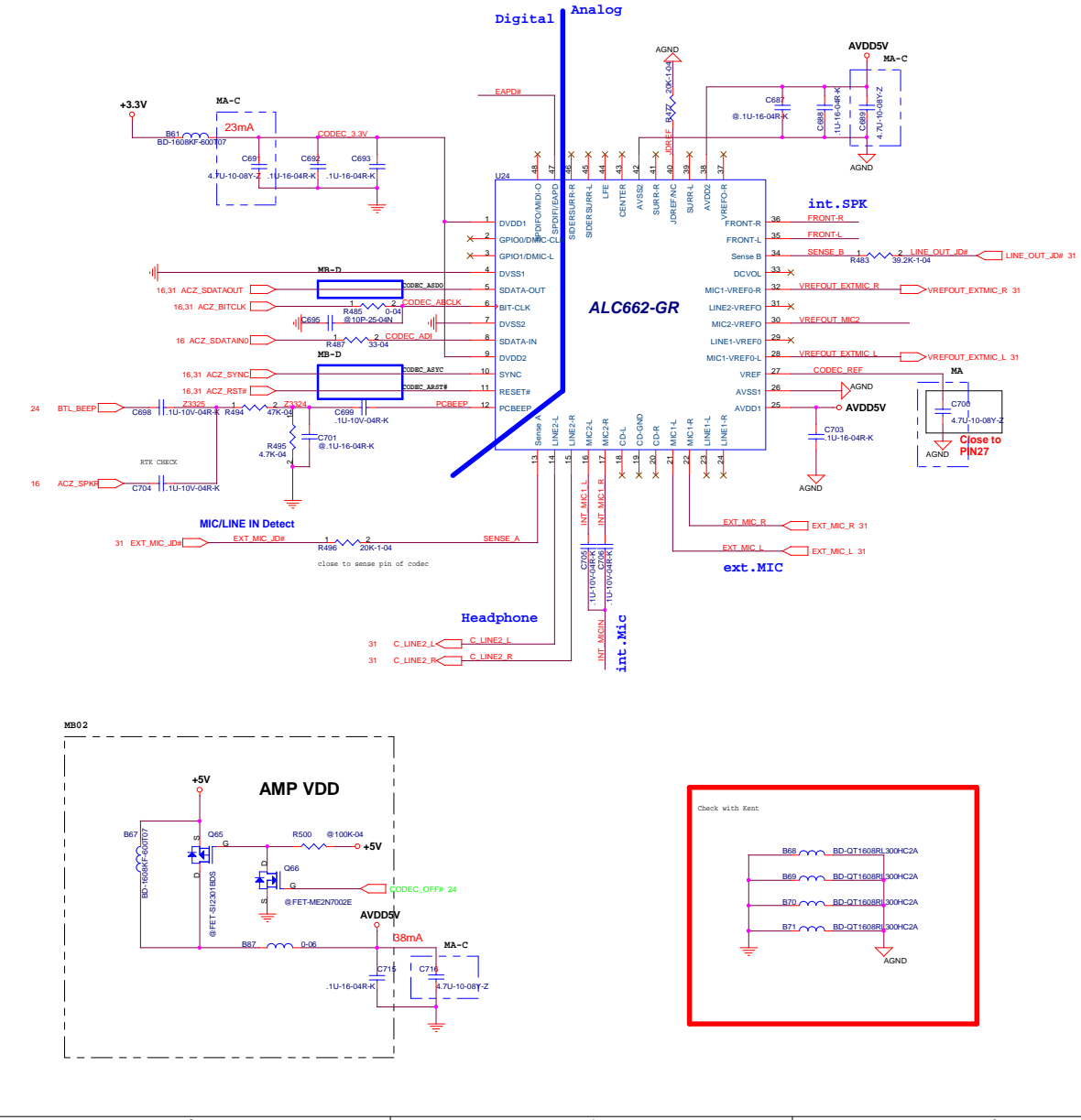


Item	drill	Ring(TOP)	Ring(BOT)	Footprint Name
1	2.7	6	6	HOLEC236D107H127
2	1.3	6	0	HOLEC236B51D51
3	4	8	5	HOLEC315B197D157
4	4	6	6	HOLEC236D157H177
5	3	6	6	HOLEC236D118H138
6	1.5	5	5	HOLEC197D59
7	2.7	7.5	7.5	HOLEC236B295D107

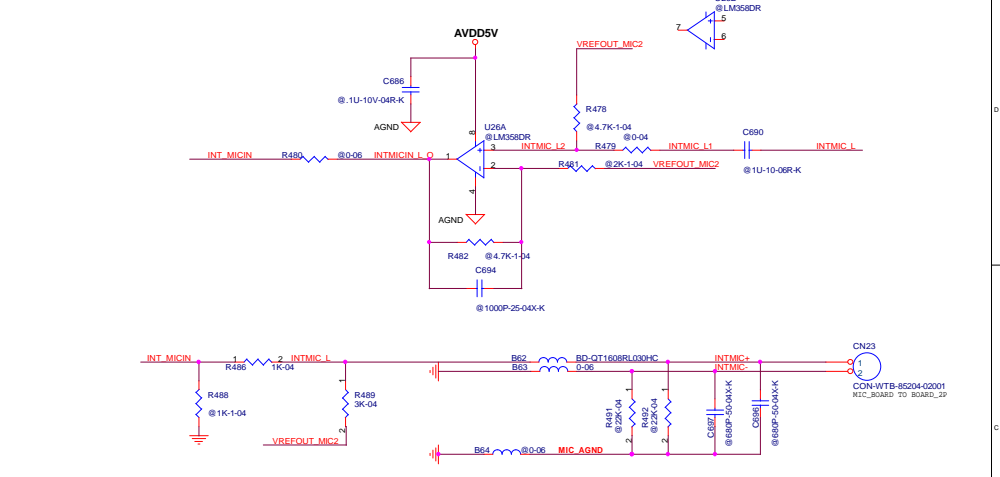


ELITEGROUP COMPUTER SYSTEMS			
I4xSix			
Size	Document Number	VCC SW	
Custom	I4xSix	Rev 01	
Date:	Thursday, February 19, 2009	Sheet	29 of 34

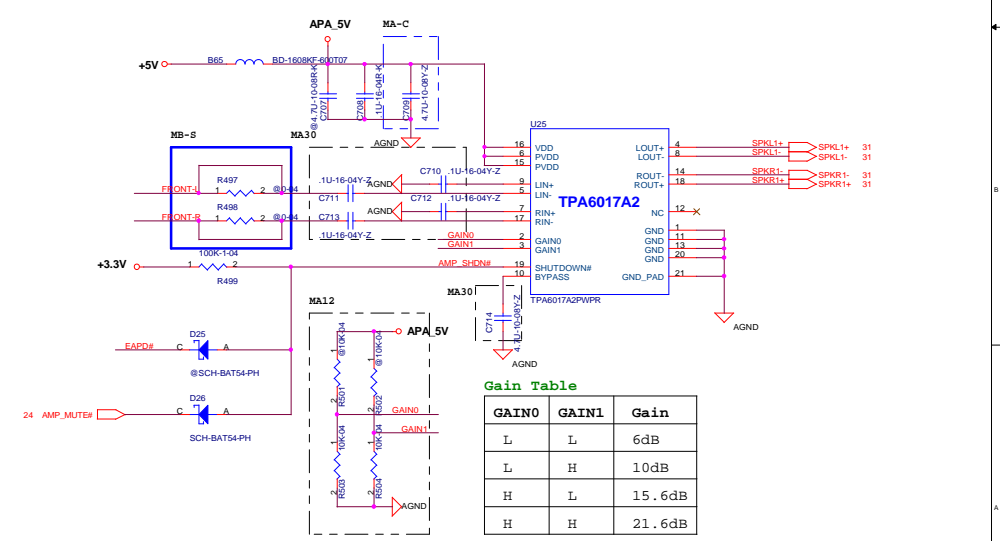
CODEC 662



INT MIC & MIC PRE-AMP



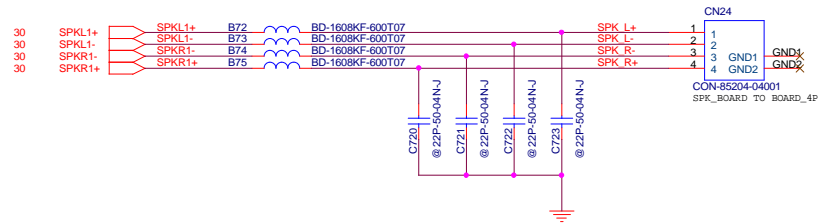
INT SPK AMP



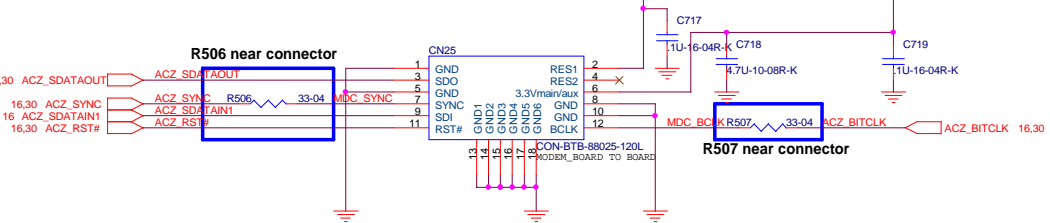
Gain Table

GAIN0	GAIN1	Gain
L	L	6dB
L	H	10dB
H	L	15.6dB
H	H	21.6dB

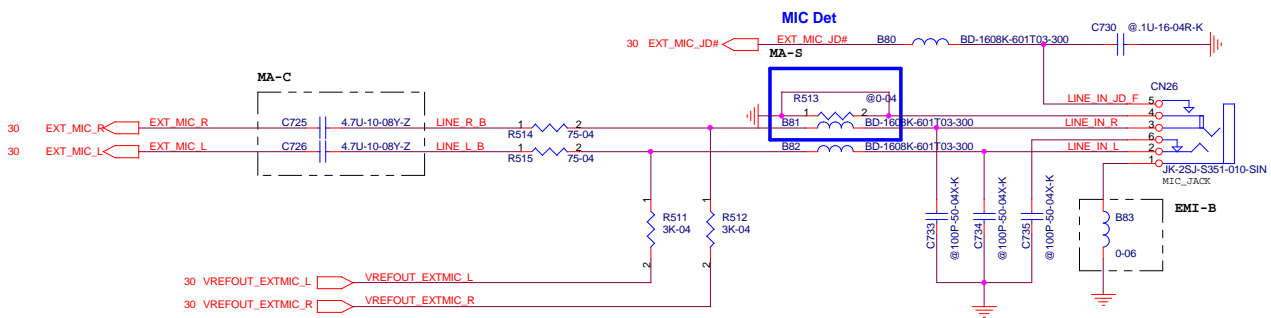
Int SPK



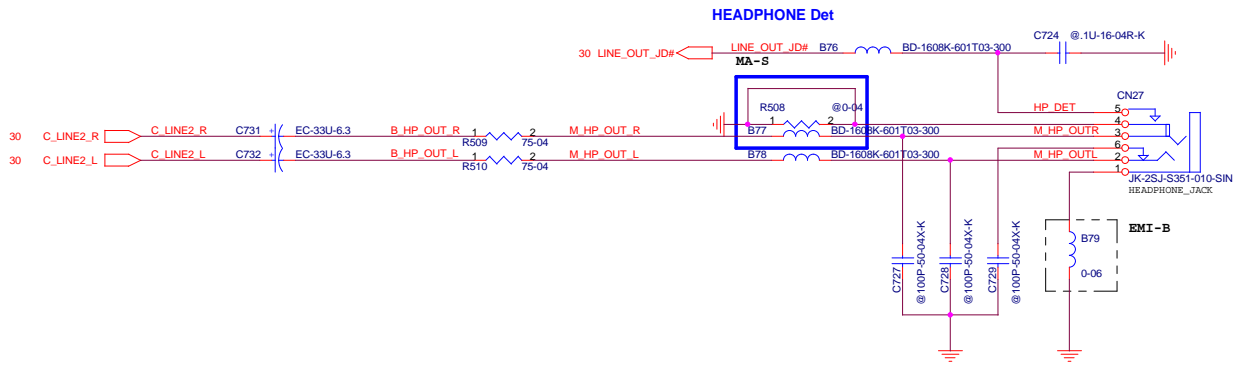
MDC



EXTERNAL MIC



HEADPHONE



RA to RB Modify list:

Symbol	Modify Item	Modify Reason	Page	Note	Symbol	Modify Item (Component count less than 10% with U50)	Page
MA00	NET NAME CHANGE	Schematic ERROR	PAGE 12		MA	MA-O(OP) R23,R29,R39,R34	PAGE 5
MA01	SMBUS HIGH 3.3V	BATTERY SMBUS,BOM ERROR	PAGE 24			MA-S(SHORT) R25,R31,R37	
MA02	MODIFY NET AUX OFF TO VL	CANNOT POWER ON	PAGE 25			MA-O(OP) C12,C13,C15,C17,C20,C22,C25,C27,C29,C41,C47,C48,C49 C51,C52,C53,C54,C59,C60,C61,C68,C69,C74	PAGE 6
MA03	ADD JP14, D15 OP	COST DOWN	PAGE 23			MA-O(OP) C98,C99,C126,C127	PAGE 7
MA04	DELL Q10,Q11 ADD U27,U28,R566,R567,C835,C836	FOR DQA H,V VOLTAGE TO LOW FOR DQA	PAGE 14			MA-S(SHORT) R44-R56,R58-R60	
MA05	R239 CHANGE TO 0603	Schematic ERROR	PAGE 21			MA-O(OP) C131	PAGE 8
MA06	MODIFY TP CON PIN NET CN18	Schematic ERROR	PAGE 22			MA-O(OP) C144	PAGE 9
MA07	CN17 CHANGE 180 DEGREE	Layout ERROR	PAGE 22			MA-O(OP) C147	PAGE 10
MA08	CPU ADD C837,C838,R568	Vcore MODIFY	PAGE 26			MA-O(OP) C174,C175,C183,C185,C186,C188,C189,C194,C197,C198,C200	PAGE 11
MA09	Vcore POWER MODIFY	Vcore MODIFY	PAGE 26			MA-O(OP) C208,C209,C221,C222,C228,C253,C255	PAGE 12
MA10	R106,R107 CHANGE TO 10K	MODIFY DDR VREF VOLTAGE	PAGE 12			MA-O(OP) C270,C284	PAGE 13
MA11	5V POWER OFF HAVE 1V(CRT DDC)	FOR S3 5VA OFF HAVE 1V	PAGE 14			MA-S(SHORT) R117	
MA12	Modifv AMP gain(6DB)	FOR DQA TEST	PAGE 30			MA-S(SHORT) R168,R169	PAGE 16
MA13	C640 CHANGE TO 1206	COST DOWN	PAGE 28			MA-O(OP) C375,C379,C383,C384,C386,C392,C395,C396,C397,C401,C402,C405 C406,C407,C409,C412	PAGE 18
MA14	USB ADD 5P CAP	FOR DQA TEST(USB PORT)	PAGE 21,22			MA-O(OP) C439,C440,C441,C467,C468,C469	PAGE 20
MA15	USB CAP CHANGE TO 4.7UF OP 1UF	COST DOWN	PAGE 21			MA-S(SHORT) R222,R217,R227,R229	
MA16	MME 3.3VA CAP OP	COST DOWN	PAGE 22			MA-S(SHORT) R321,R323	PAGE 21
MA17	C681 OP	COST DOWN	PAGE 29			MA-S(SHORT) R413,R422,R414	PAGE 27
MA18	MODIFY CN6 FOOTPRINT	ME CHANGE	PAGE 19			MA-D(DEL) R405,R406,R416	
MA19	MODIFY CN15 CON 20PIN TO 16PIN,ADD USP CAP	ME CHANGE	PAGE 22			MA-S(SHORT) R459	PAGE 29
MA20	MODIFY HOLE FOOTPRINT	ME CHANGE	PAGE 28			MA-D(DEL) R332,R338,R339	PAGE 24
MA21	CN6 FOOTPRINT CHANGE		PAGE 19			MA-D(DEL) R135,R136,R137	PAGE 14
MA22	ADD CAP FOR Vcore dead time		PAGE 26			MA-S(SHORT) B53	PAGE 23
MA23	FOR LCD BL ON	PANEL BL ON FOR WHITE DISPLAY	PAGE 14			MA-O(OP) Q32,C570	PAGE 25
MA24	CHANGE FOR BAT PWRGD TIME	COST DOWN	PAGE 16			MA-O(OP) C763,C765	PAGE 26
MA25	FOR BATTERY FUNTION(OP R563)	Schematic ERROR	PAGE 28			MA-D(DEL) R428,R441	PAGE 28
MA26	change 5V,1.8V VOLTAGE	FOR 5V, 1.8V VOLTAGE TO LOW	PAGE 25			MA-D(DEL) R505	PAGE 31
MA27	MODIFY PIN32,34,36 NET VIN LCD	FOR 16:9 PANEL	PAGE 14				
MA28	U18 IC:5912 CHAGE TO 5930		PAGE 27				
MA29	MODFIY MOS MA4410TO IR8707	FOR POWER	PAGE 25,29				
MA30	CHANGE C711,C713,C714 VULE	FOR AMP POP NOISE	PAGE 30				



RB to R01 Modify list:

Symbol	Modify Item	Modify Reason	Page	Note	Symbol	Modify Item (Component count less than 10% with U50)		Page
MB00	OP C772	FOR CPU POWER UP	PAGE 26		MB	MB-D(DEL)	MC-O(OP)	PAGE 5
MB01	Net change 3G VIN SW add #	MODIFY EC CONTROL NET NAME	PAGE 22,24			R42,R25,R31,R37	R35,R40,Q6,Q3,C7,C8	
MB02	Add CODE 662 AMP 5V power control	FOR ENRGY STAR AND BATTERY LIFE	PAGE 30			MB-D(DEL)		PAGE 13
						R117		
MB03	Modify 1.2V voltage		PAGE 27			MB-D(DEL)		PAGE 16
						R168,R169		
MB04	Modify R533 to 0-04,C773 to .1uf	FOR VCORE POWER MODIFY	PAGE 26			MB-D(DEL)		PAGE 20
MB05	Modify C311,C312,C313 TO 10P	FOR QDA TEST	PAGE 14			R217,R221,R225,R227,R229,R230		
MB06	ADD MMB SMBUS FOR 3.3V	FOR MMB FUNTION	PAGE 22			MB-D(DEL)		PAGE 21
						R518,R519		
MB07	PM THERMTRIP# HIGH VOLTAGE TO 1.05V(NET AUX_OFF TO +5VA_ON)	FOR AUX_OFF FUNTION	PAGE 5,25			MB-D(DEL)		PAGE 23
						B53		
MB08	CPU Vcore C4 net cheage to PM DPRSLPVR	FOR A PHASE C4 OPEN SYSTEM WILL HAND UP	PAGE 5,26			MB-D(DEL)		PAGE 24
						R520,R558,R322		
MB09	ADD 2.2UF FOR PMEM TEST	FOR QE TEST	PAGE 12			MB-S (SHORT)		PAGE 25
						R352		
MB10	FOR PCIE CUT OFF POWER 3.3VS/V AND 1.5V	CUT OFF PCIE POWER TO WLAN ADD BATTEY LIFE	PAGE 21			MB-S (SHORT)		PAGE 26
						R544-R548,R551,R552		
MB11	FOR SETTING 5V AND 1.8V VOLTAGE	CHANGE 5V AND 1.8V VOLTAGE TO ADD BATTEY LIFE	PAGE 25			MB-D(DEL)		PAGE 27
						R403,R404,R413,R414,R422		
MB12	C653 0.1UF CHANGE TO 1000P	FOR R427,R430 TO BURN	PAGE 28			MB-D(DEL)	MB-S (SHORT)	PAGE 30
MC01	Del C578,C615,C89,C90	For M1 request	PAGE 25,27,7			R484,R490,R493	R497,R498	
MC02	MODIFY 3G CON FOOTPRINT	For M1 request	PAGE 22					
MC03	FOR USB EYE FAIL ADD CAP	For DQA bug	PAGE 22					
MC04	SAFETY FUNTION,DEL JP2,PF1,ADD JP16	For SAFETY	PAGE 23,28					
MC05	FOR AUX OFF FUNTION R40 TO 1M	FOR POWER ON EC WILL GET TURN ON THE AUX OFF	PAGE 5					
MC06	ADD C860,C863(4.7U) C861,C862(2.2U)	For DQA bug(CRT JITTER)	PAGE 10					
MC07	MODIFY THE Q71 NET ERROR	Schematic ERROR	PAGE 14					

Symbol	Modify Item	Page	Note
EMI-A	1.CLK_GEN:NB_REF_CLK0,SB_REF_CLK1,SB_PCI_CLK0, PART:C111,C112,C115(10P) 2.DDR BUFFER CAP: C841~C848@10P-25-04N	PAGE 7	
	ADD C736~C739,C791~C792,C740~C743(10P) FOR I/O	PAGE 22	
	1.ADD R343(10HM),C551(470P) FOR 5V 2.ADD R354(10HM),C571(470P)	PAGE 25	
	ADD R423(2.20HM),C645(2200P) FOR CHG	PAGE 28	
EMI-B	FOR VCORE POWER ADD CAP:C29,C41,C59,C60,C61,C68(150P) CAP:C47,C48,C49,C50,C51,C52,C53,C54(1000P)	PAGE 5	
	1.CLK_GEN:CPU_CLK_BLK#,CPU_CLK_BLK#,NB_H_CLK,NB_H_CLK#,CLK_EC_LPC(10P) 2.R69:CHANGE BEAD 1005KF-600T03	PAGE 7	
	FOR 1.8VS POWER ADD CAP:C221,C222(150P) CAP:C228,C238(1000P)	PAGE 12	
	USB PORT ADD L4(CK-ATCM2012-900T)	PAGE 21	
	1.ADD CAP:C523(150P) FOR DCIN 2.+1.8V TO +1.8VS:C800(0.1U) 3.+1.8VS TO GND:C854,C855(0.1U) 4.+3.3V TO +5V:C812(0.1U) 5.+3.3V TO +1.8V:C823(0.1U)	PAGE 23	
	B79,B83(00HM)	PAGE 31	
EMI-C	1.+3.3V TO +5V:C815(0.1U) 2.+3.3V TO +1.8V:C818(@0.1U) 3.+3.3V TO +1.8V:C823(@0.1U)	PAGE 23	