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11	RS690M PLL&VIDEO I/F
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14	SB600 ACPI/GPIO/USB/AUDIO
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29	+1.8V_DDR (OZ811)
30	+0.9V_DDR/+1.5V
31	DC_IN/BATT_IN/CHARGER
32	REV. HISTORY
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MADE IN TAIWAN -- DC1-DT1

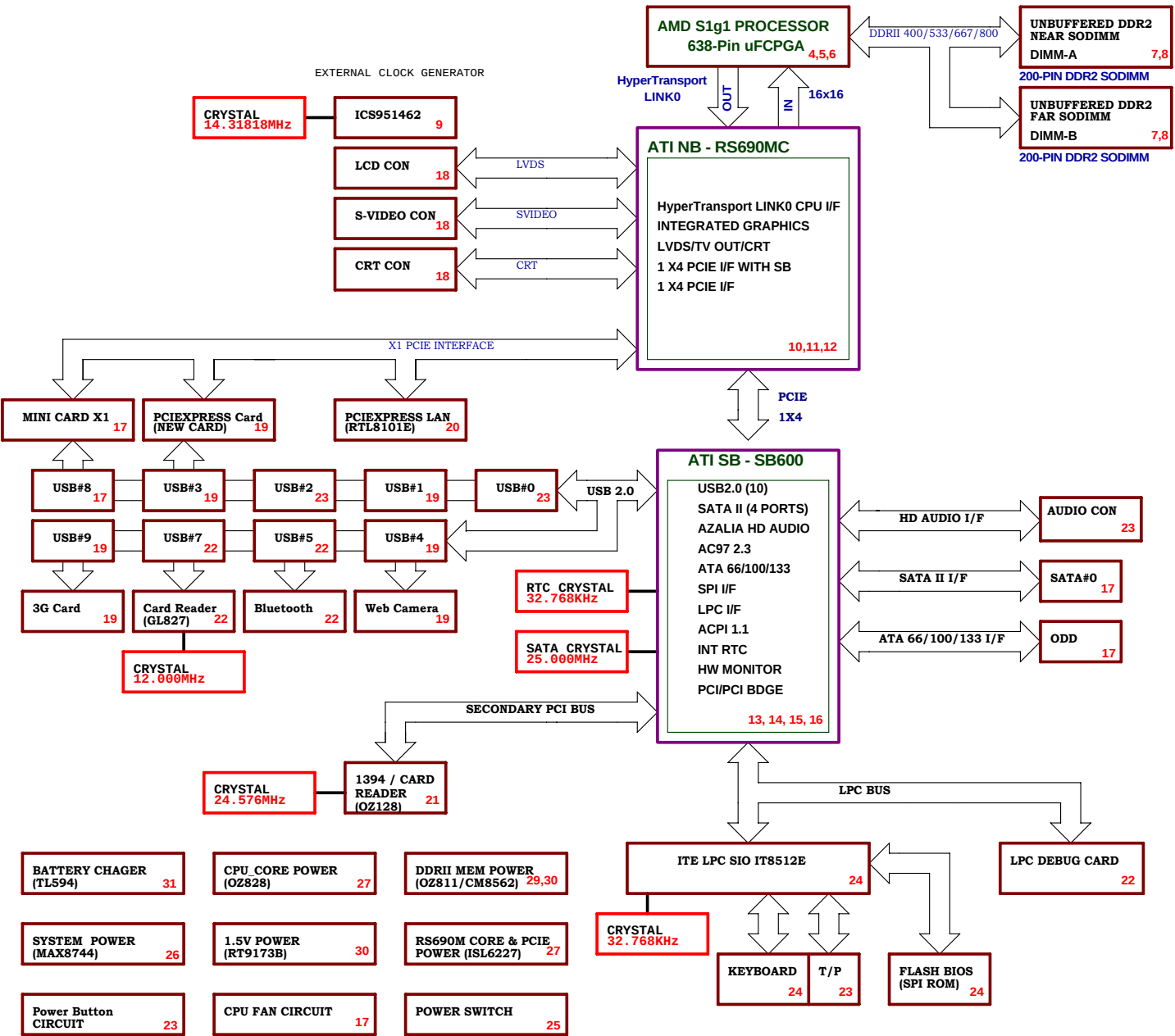
L53R10 M/B and Daughter P/N LIST:

82GL53000-B0	MAIN BOARD ASSY L53R10 REV.B
37GL53000-B0	PCB MAIN BD FOR L53R10 REV:B
80G2L7020-C0	AUDIO BD ASSY L70110 REV:C
35G2L5020-C0	PCB AUDIO BD FOR L50110 REV:C
80G8L5000-C0	TOUCHPAD BD FOR L50R10 R:C
35G8L5000-C0	PCB TOUCHPAD BD FOR L50R10 R:C
80G9L5000-C0	MODEM BD FOR L50R10 R:C
35G9L5000-C0	PCB MODEM BD FOR L50R10 R:C
80G5L5000-C0	SWITCH BD FOR L50R10 R:C
35G5L5000-C0	PCB SWITCH BD FOR L50R10 R:C
80GPL5000-C0	ODD BD FOR L50R10 R:C
35GPL5000-C0	PCB ODD BD FOR L50R10 R:C
80GJL5100-B0	3G BD ASSY L51A1x REV:B
35GJL5100-B0	PCB 3G BD FOR L51A1X REV:B
80GYL5310-A0	IR BD ASSY L5311X VER.A
35GYL5310-A0	PCB IR BD FOR L5311X VER:A

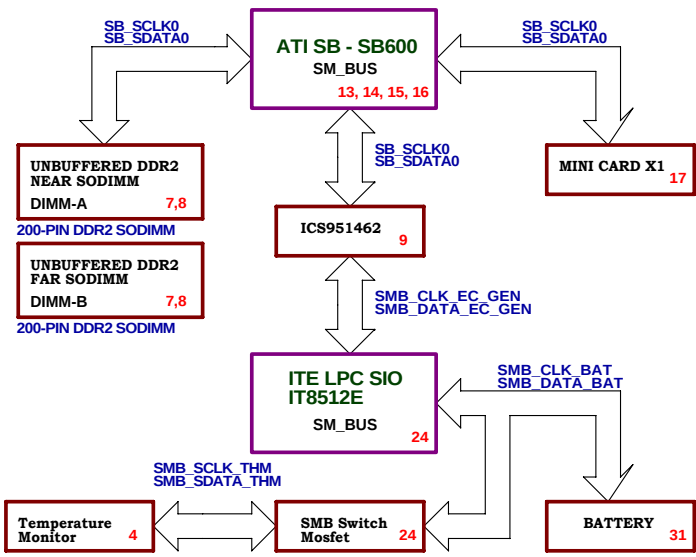
Elitegroup Computer System			
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COVER PAGE			
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L53RI0 BLOCK DIAGRAM

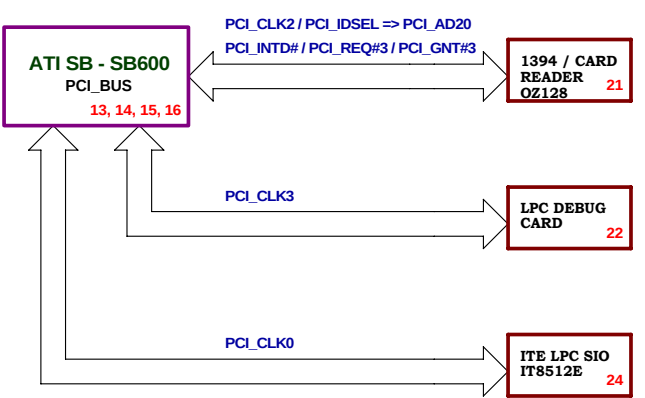
SYSTEM BLOCK DIAGRAM



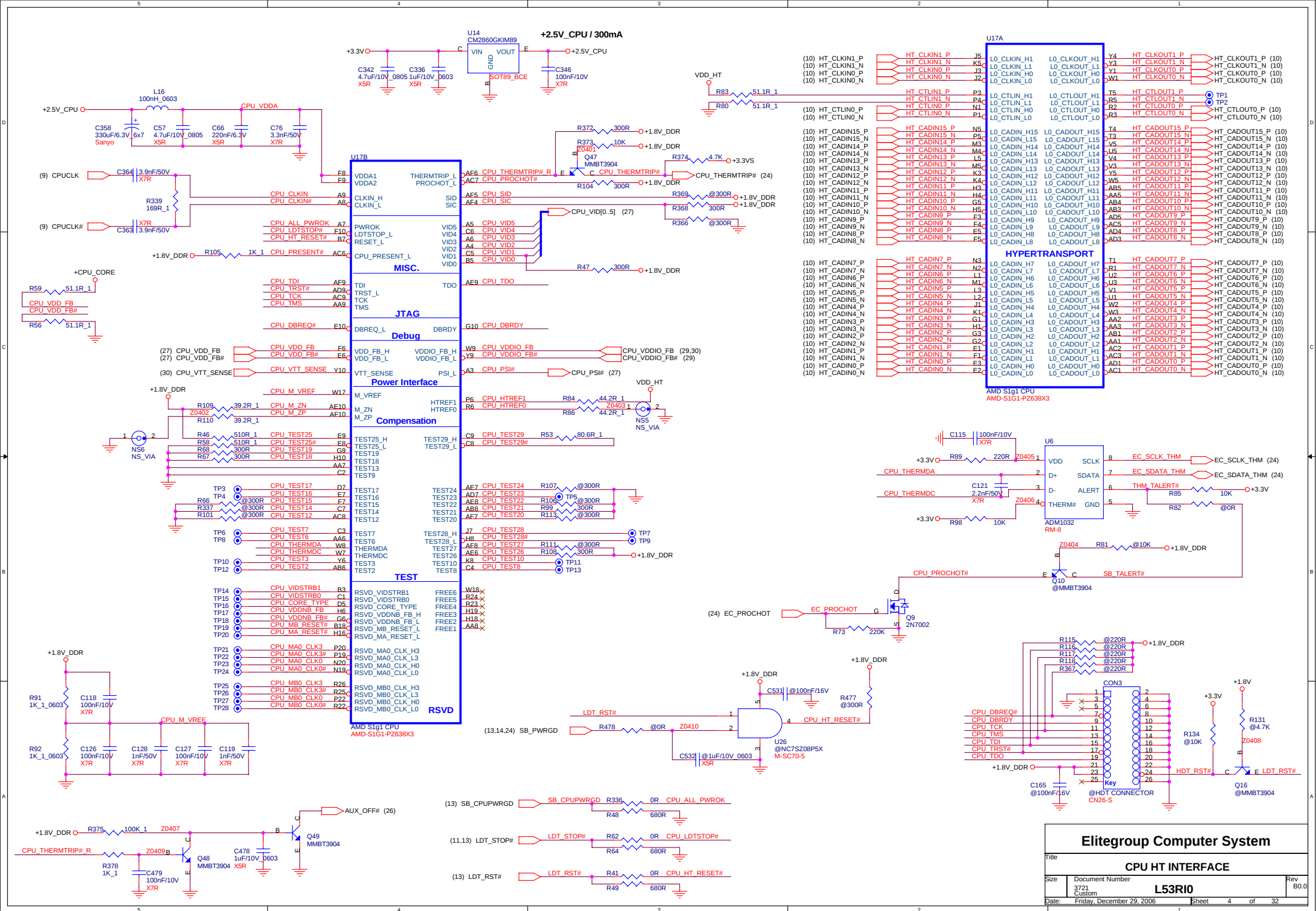
SB_BUS BLOCK DIAGRAM

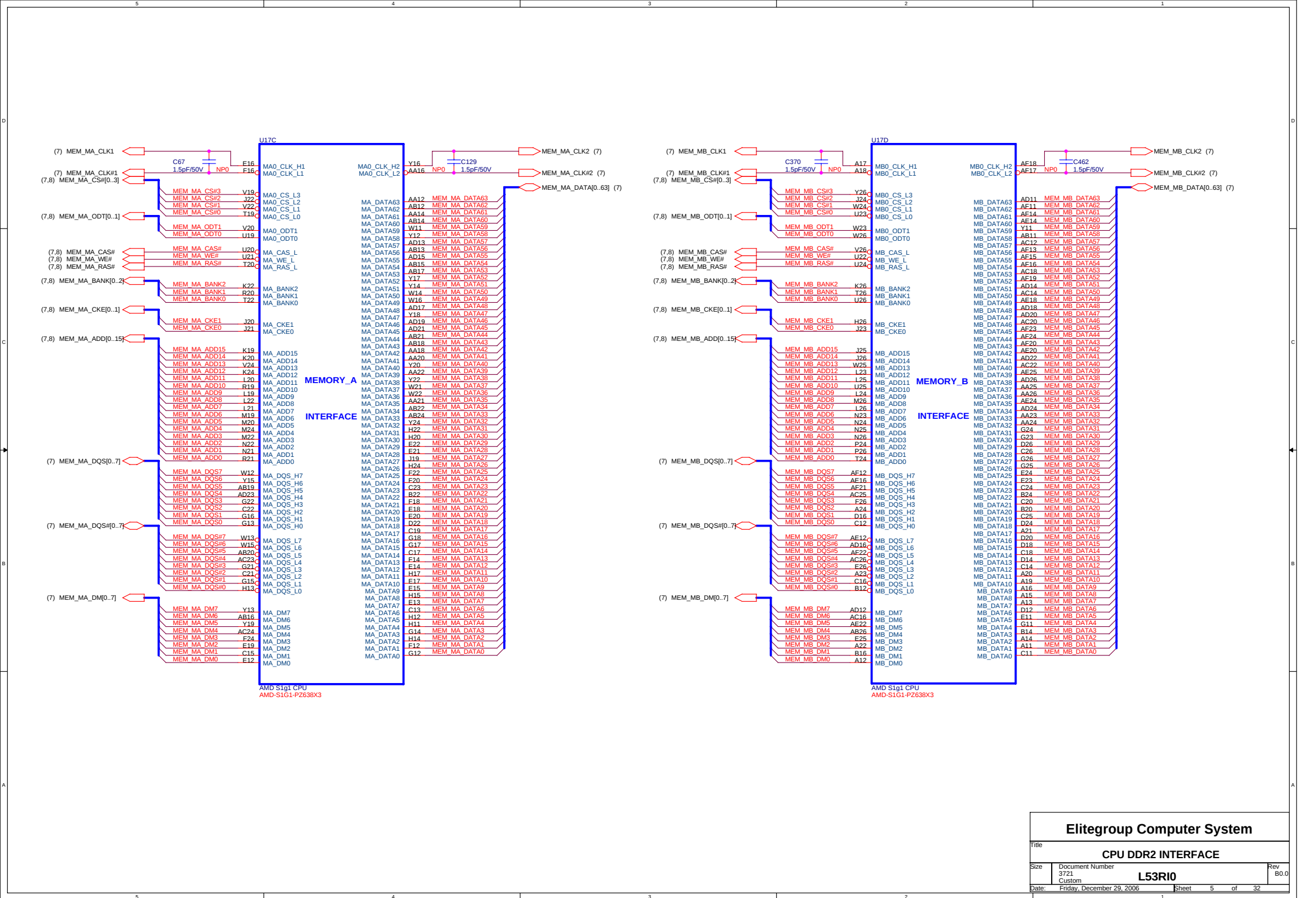


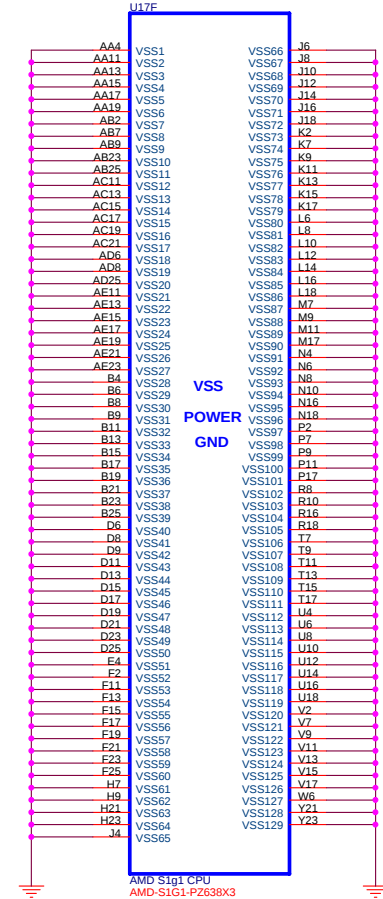
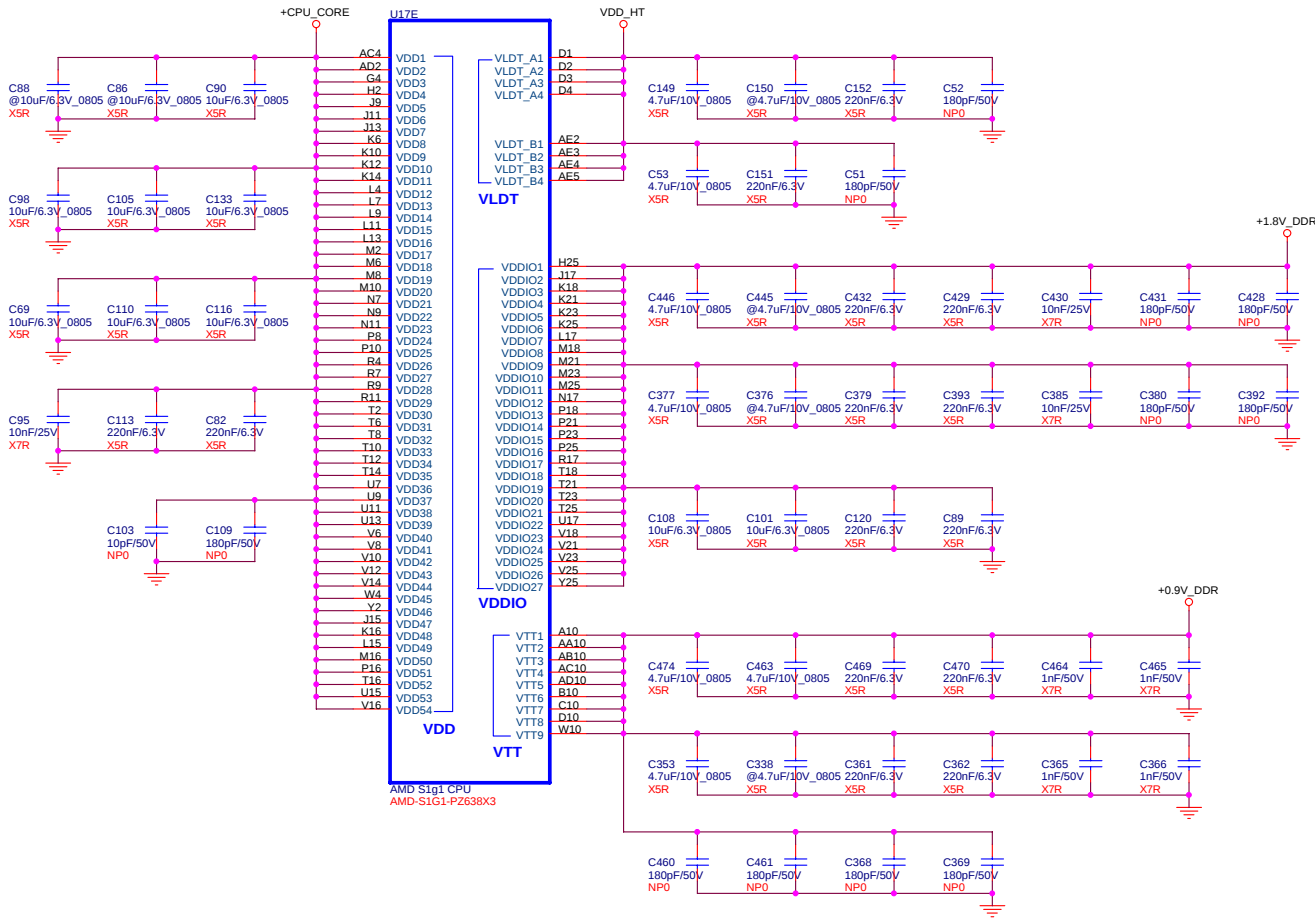
PCI_BUS BLOCK DIAGRAM

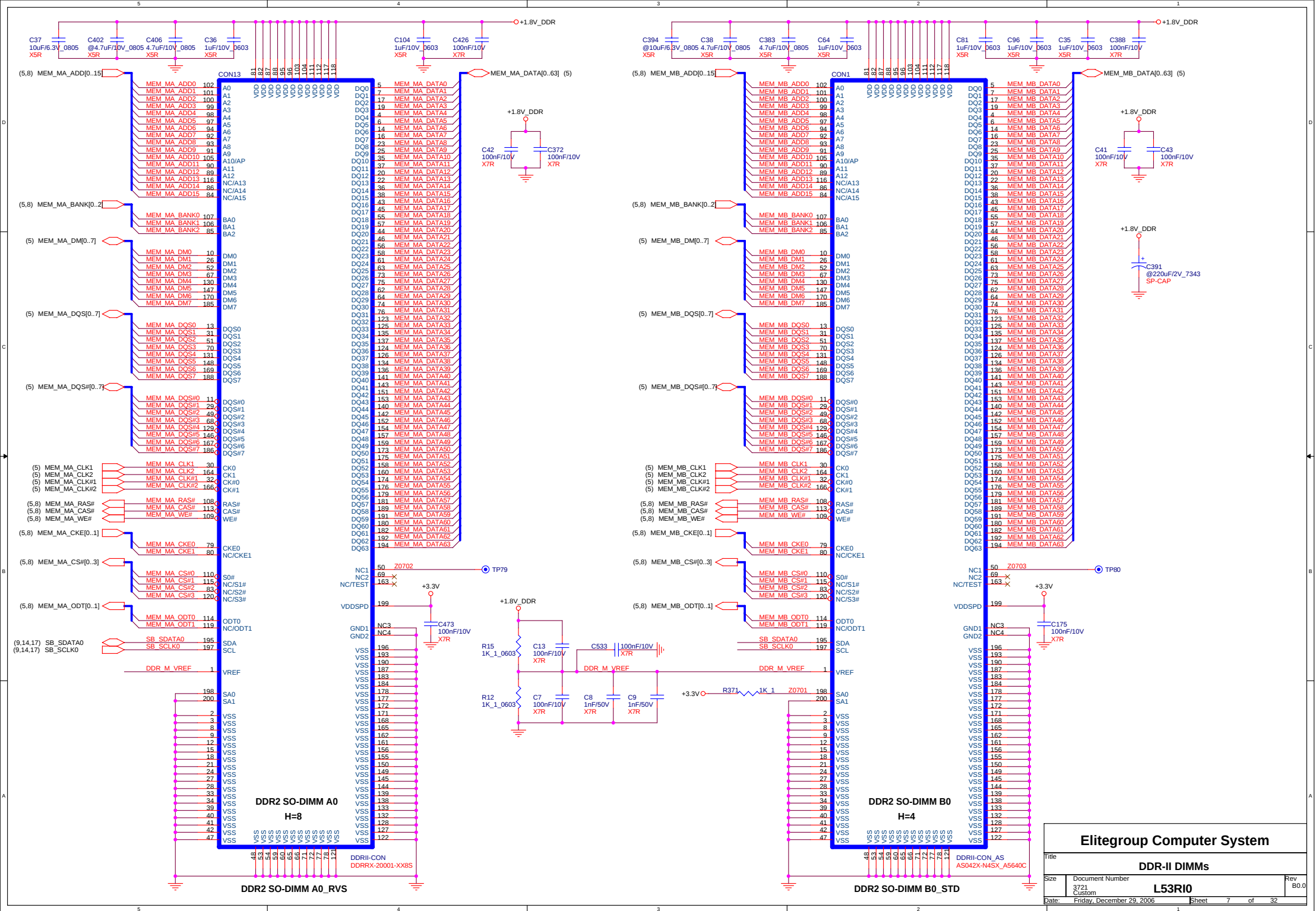


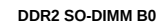
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BLOCK DIAGRAM			
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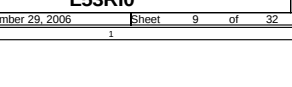
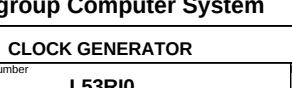
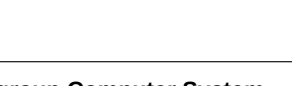
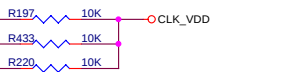
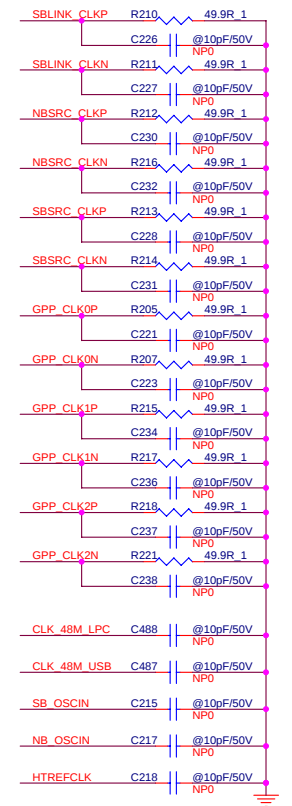
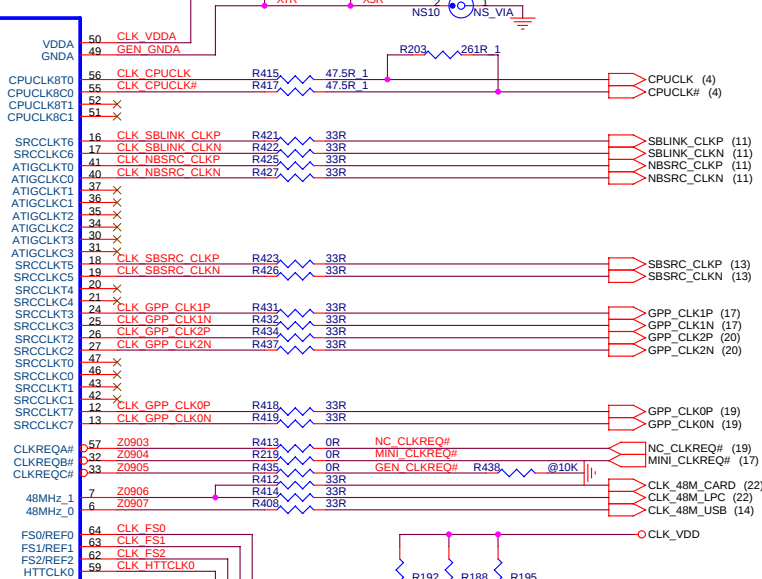
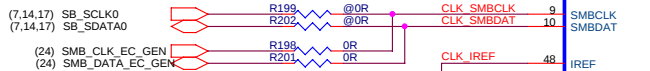
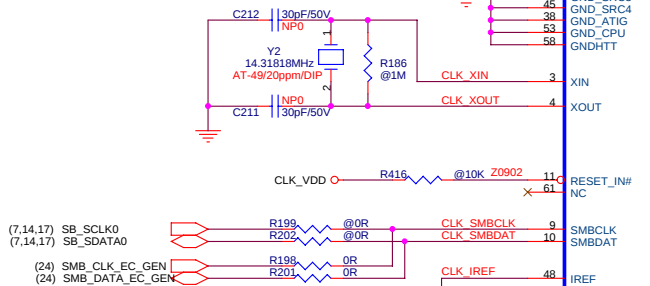
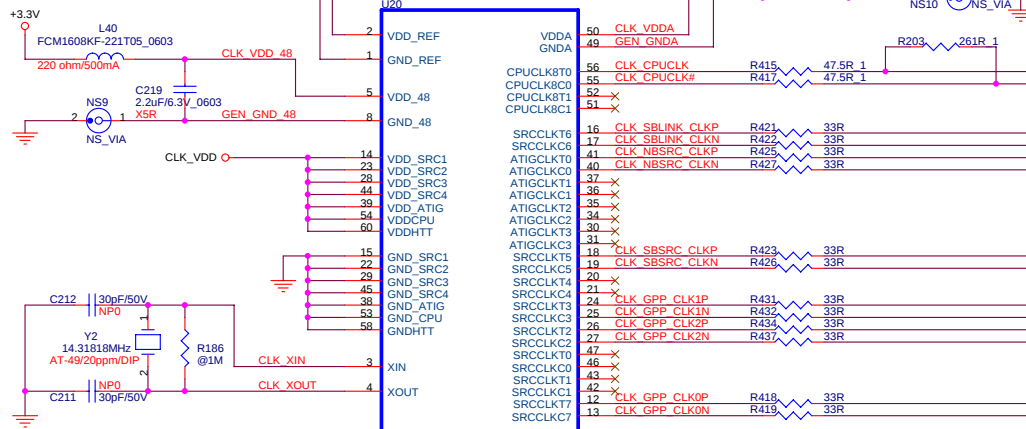
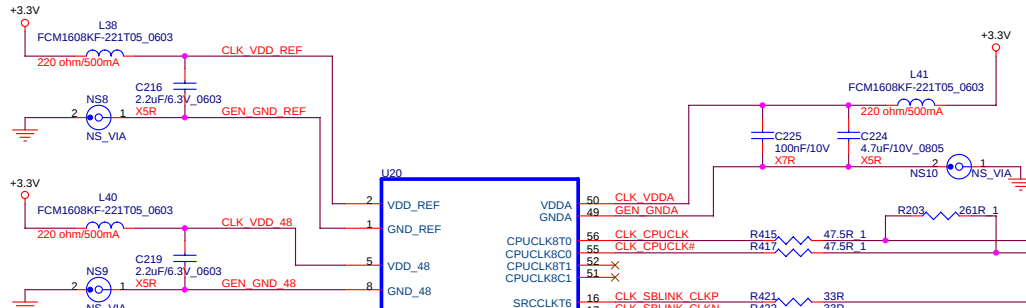
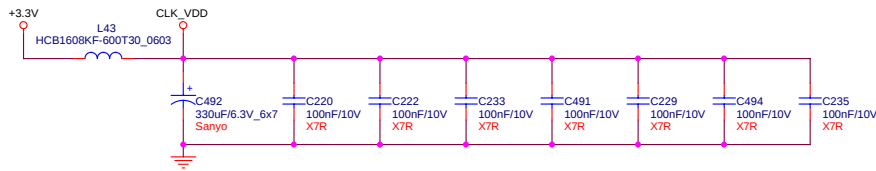




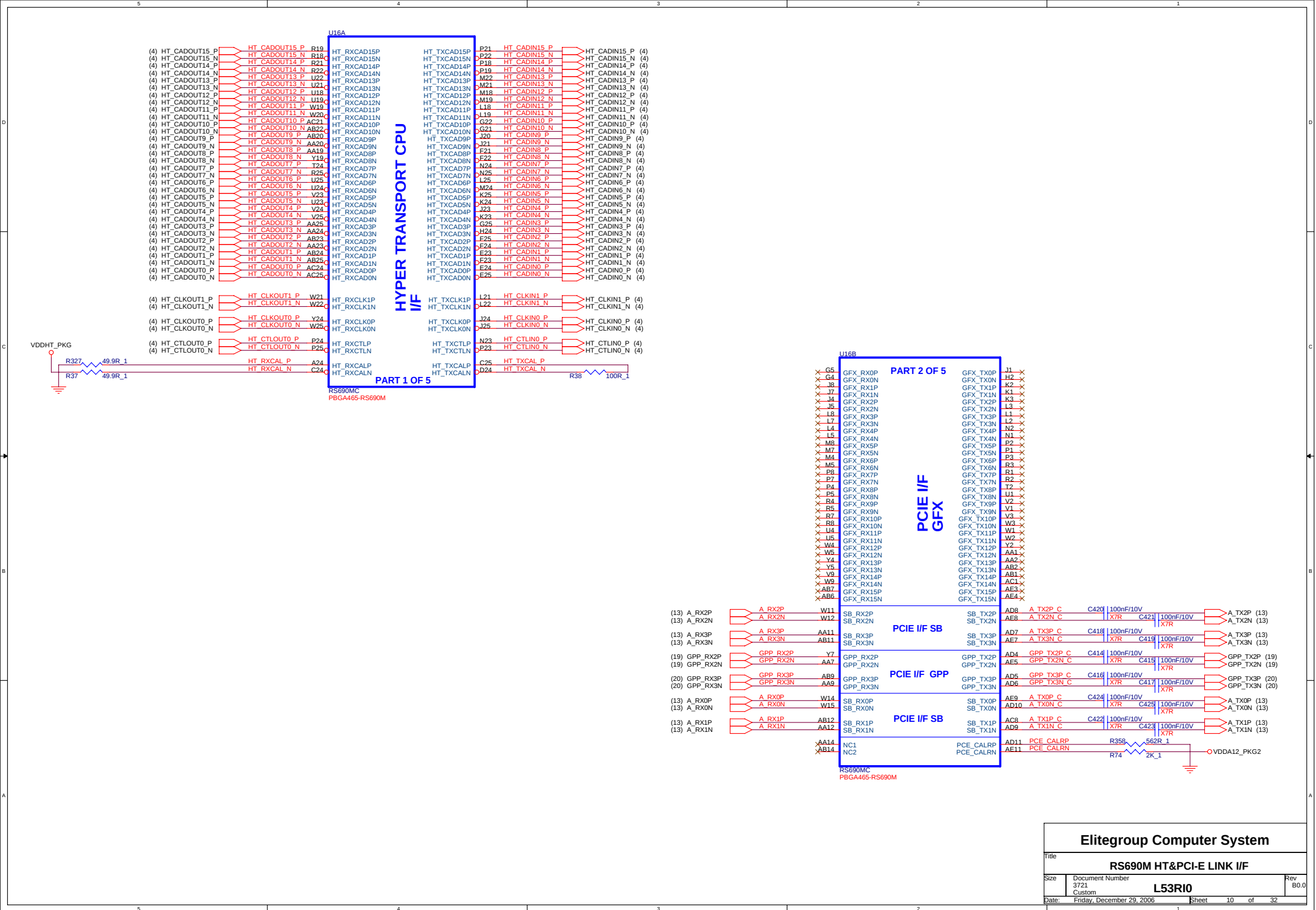


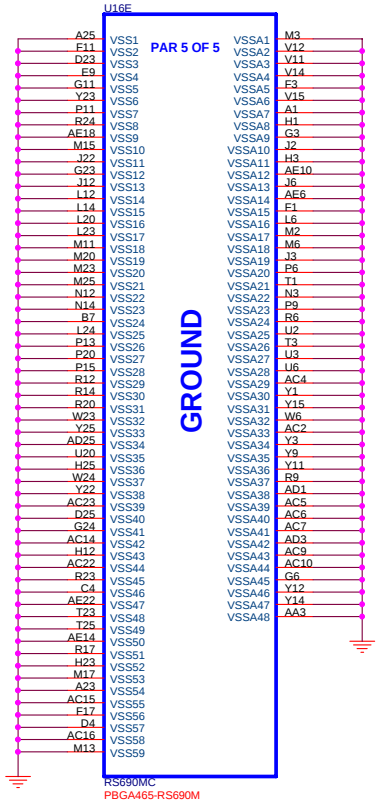
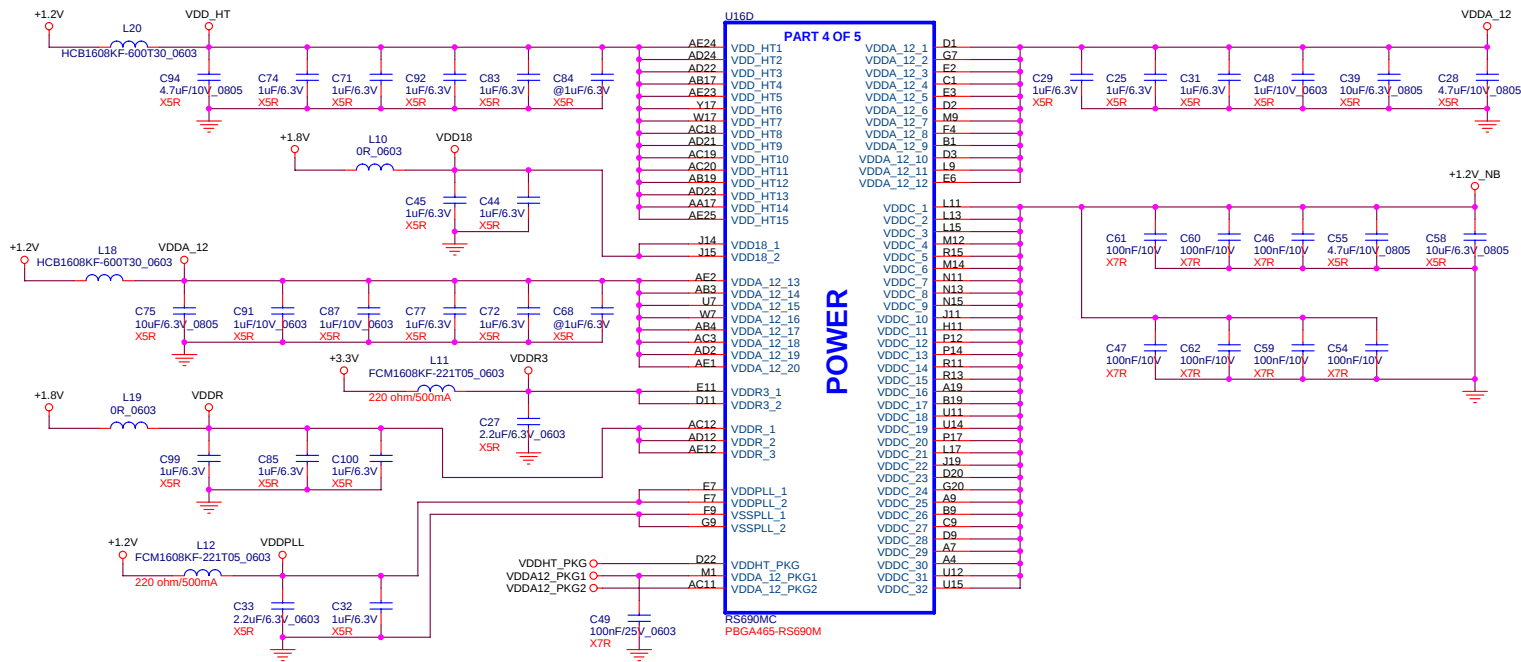


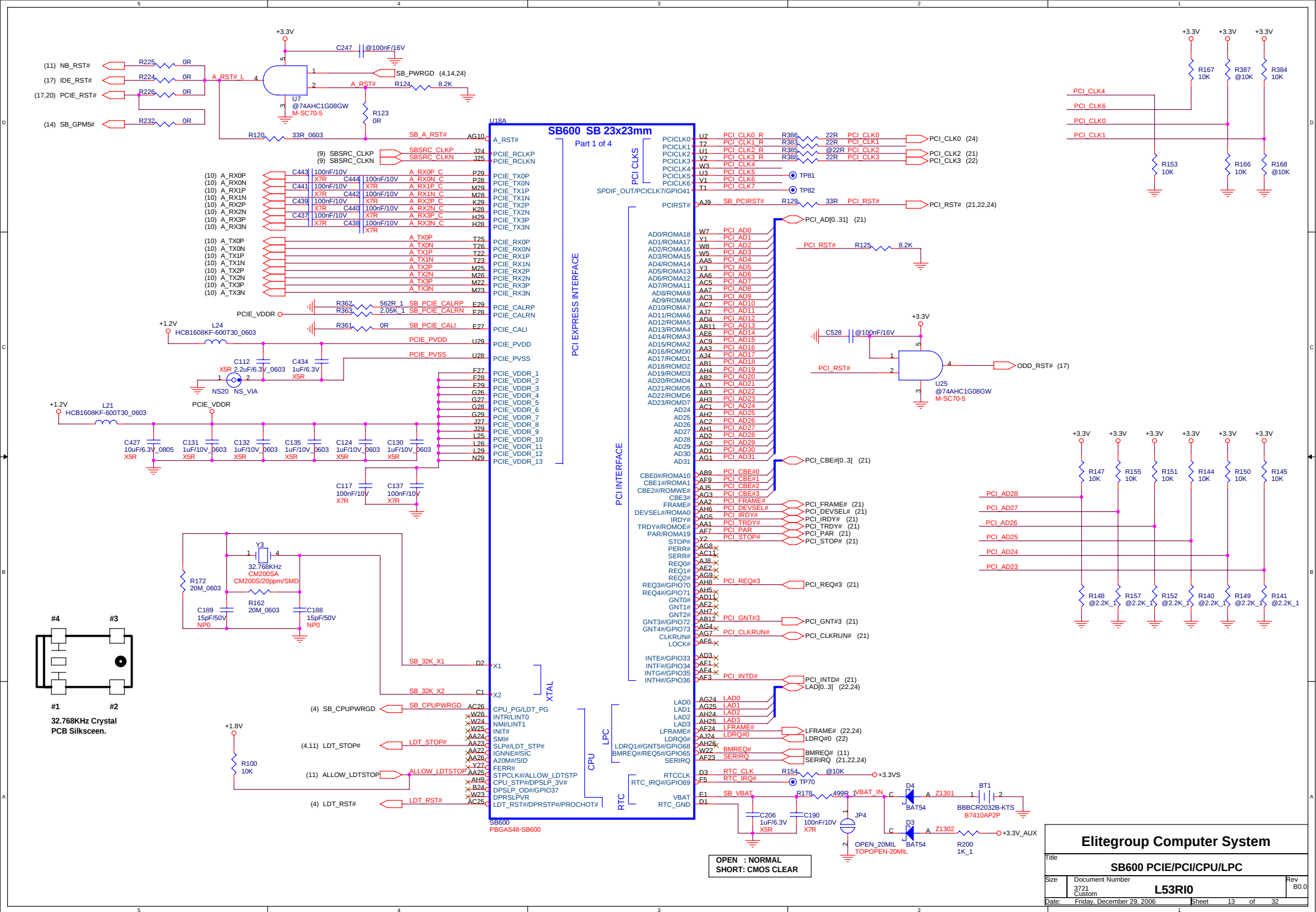


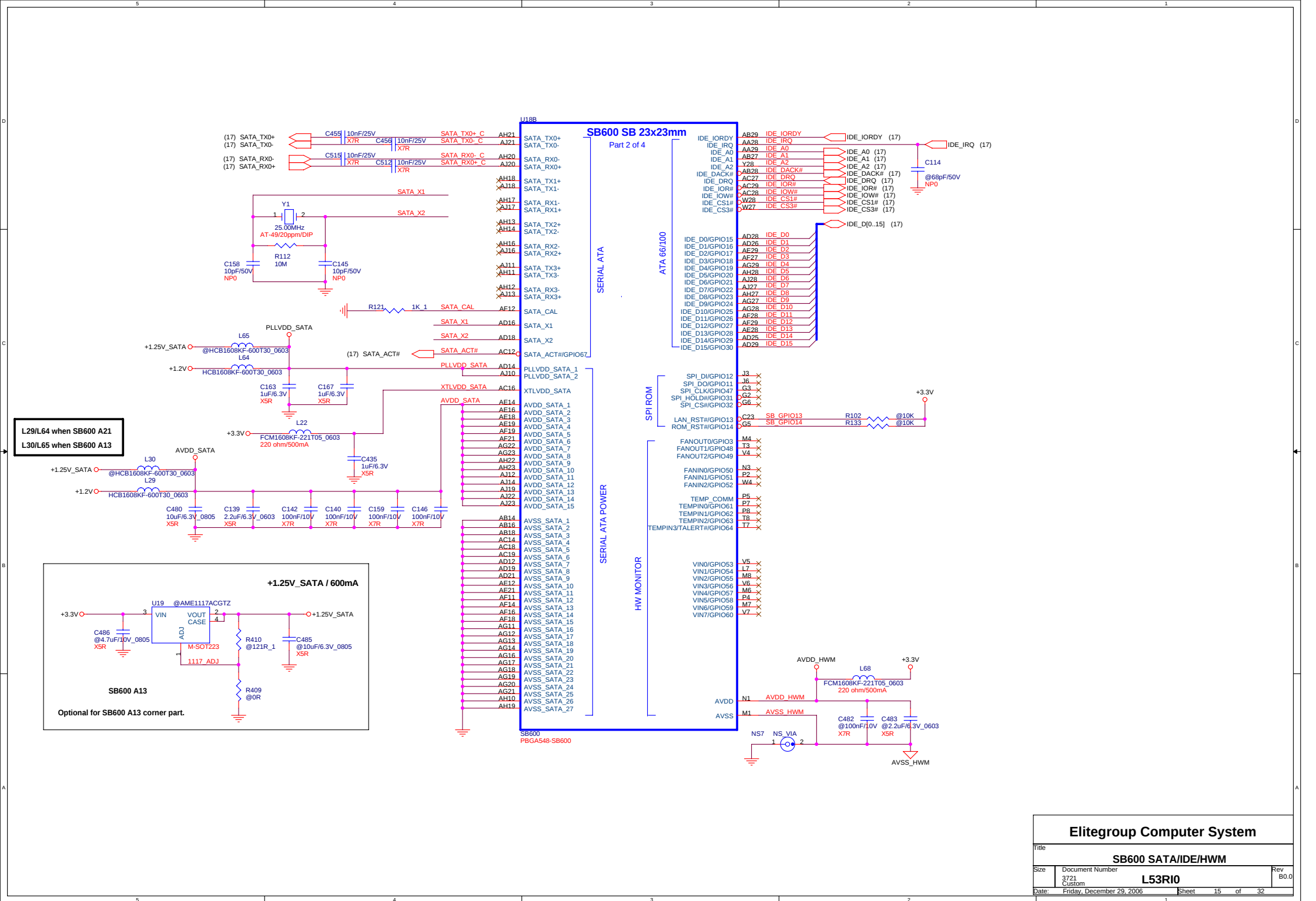


Elitegroup Computer System			
Title			
CLOCK GENERATOR			
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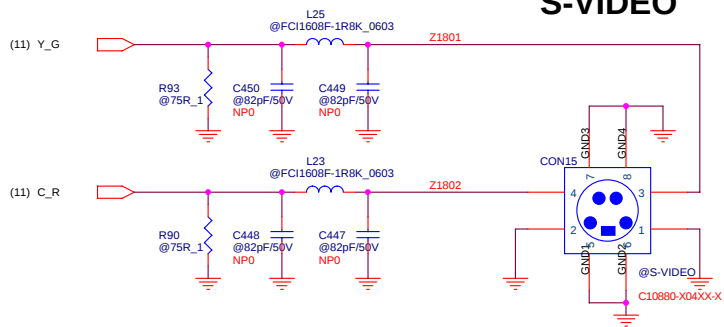






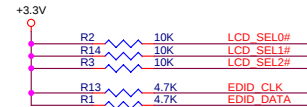


S-VIDEO

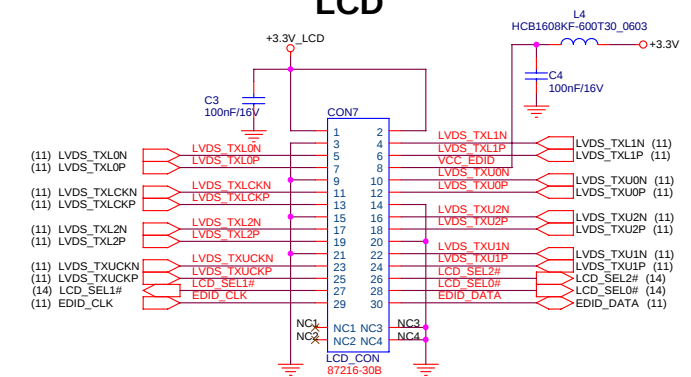


LCD Panel SELECT

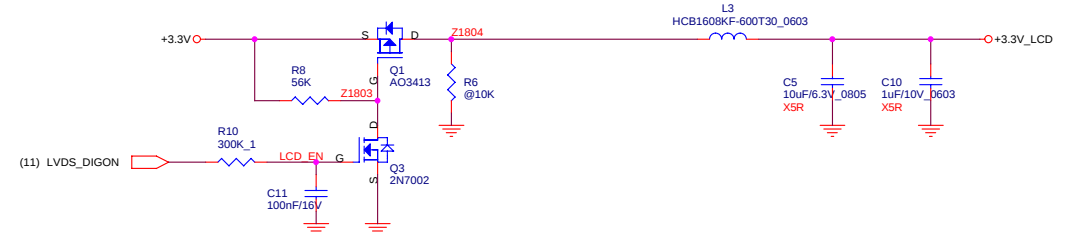
LCD_SEL2#	LCD_SEL1#	LCD_SEL0#	
L	L	L	reserved
L	L	H	1024X768
L	H	L	1400X1050
L	H	H	1280X800
H	L	L	reserved
H	L	H	1680X1050
H	H	L	1920X1200
H	H	H	1440X900



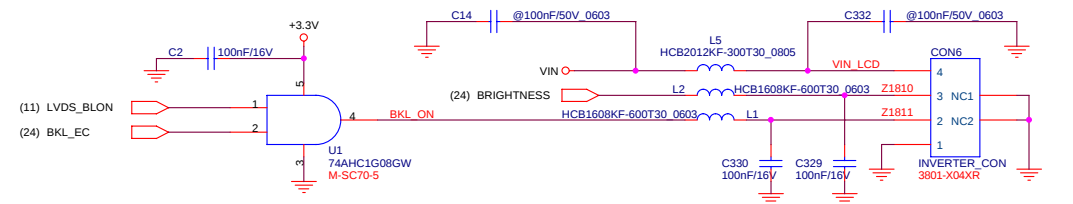
LCD



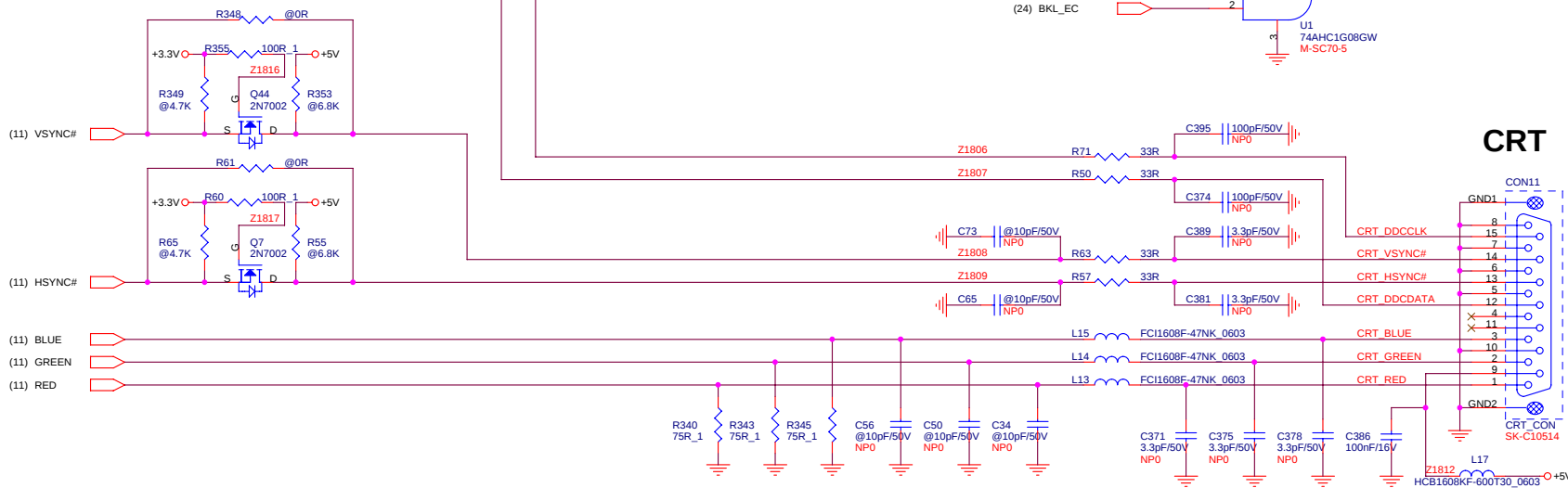
LCD VCC



INVERTER



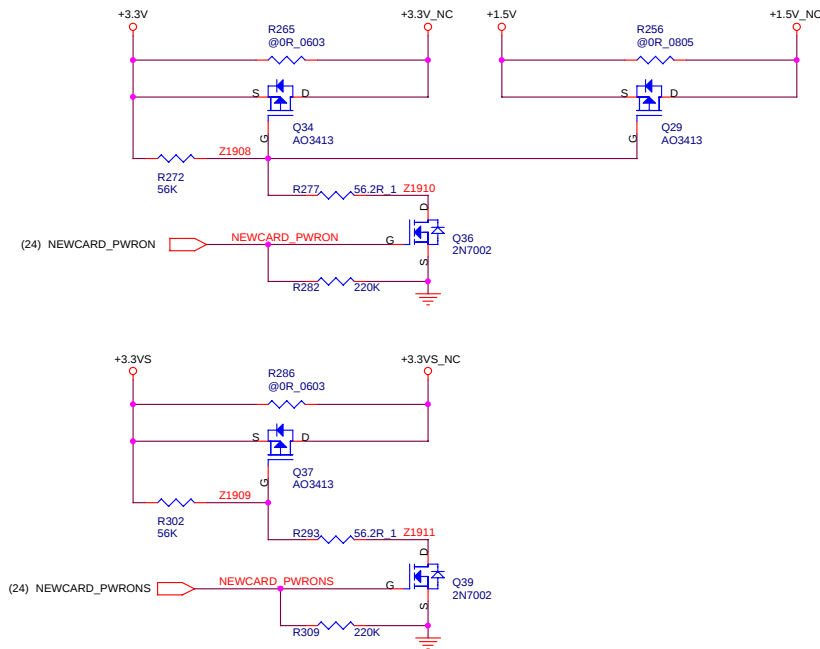
CRT



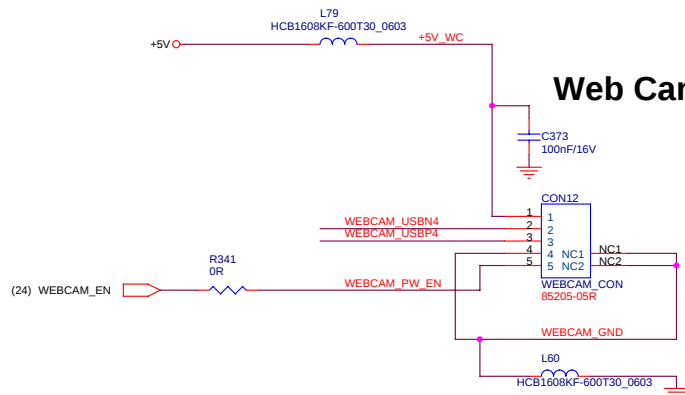
Elitegroup Computer System

CRT/LCD/S-VIDEO CON		
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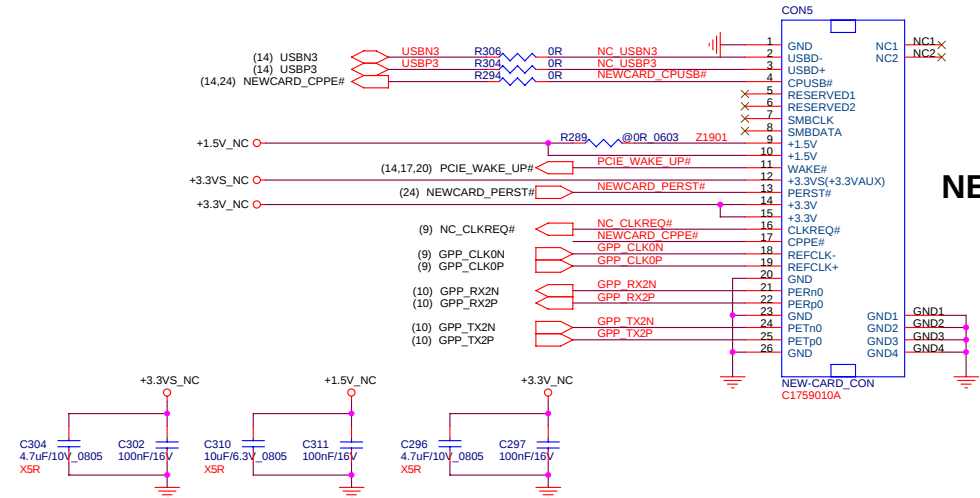
NEW CARD POWER



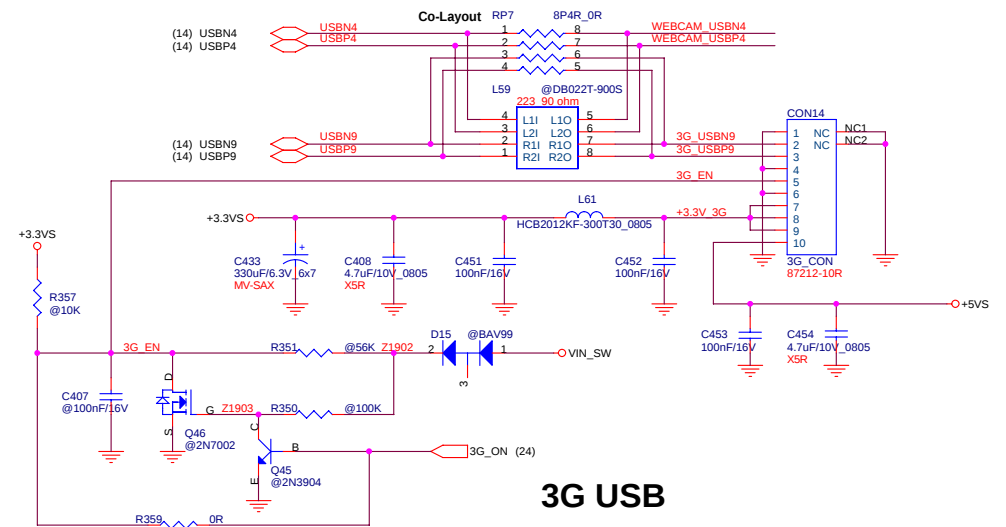
Web Camera



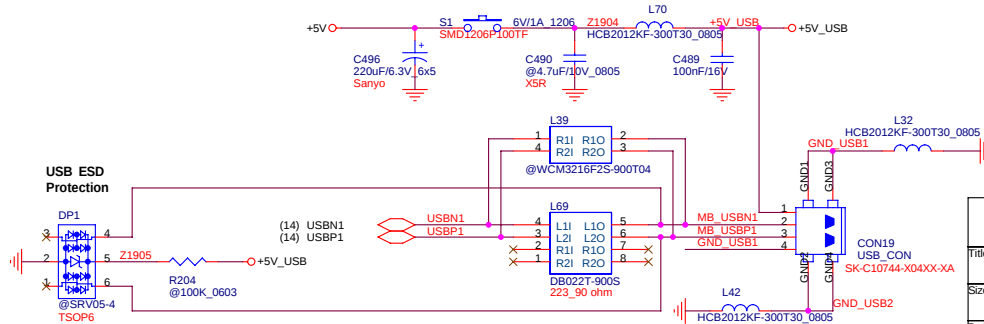
NEW CARD



3G USB



ON BOARD USB



Elitegroup Computer System

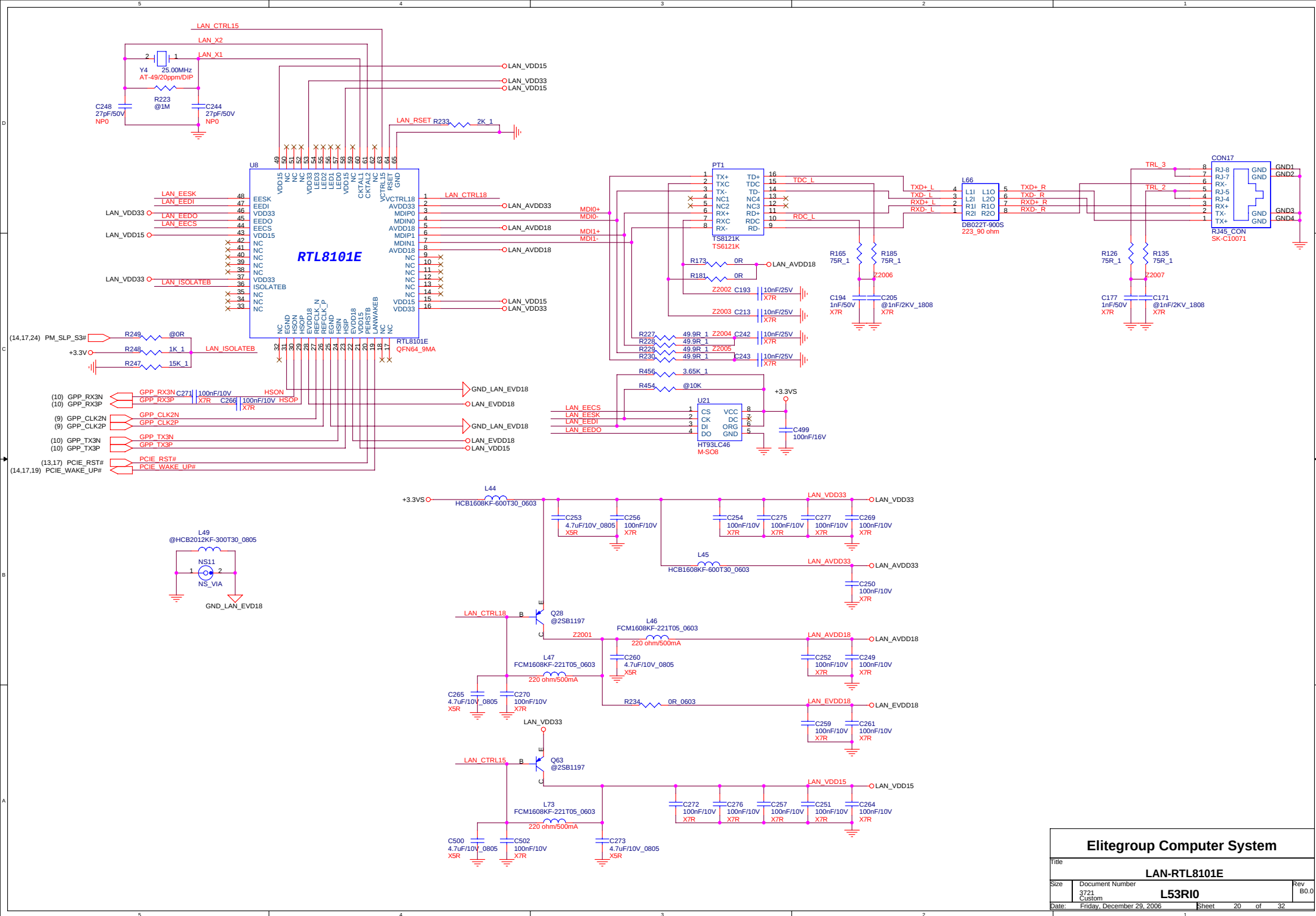
3G/WEB CAM/NEW CARD/USB CON

Size: 3721

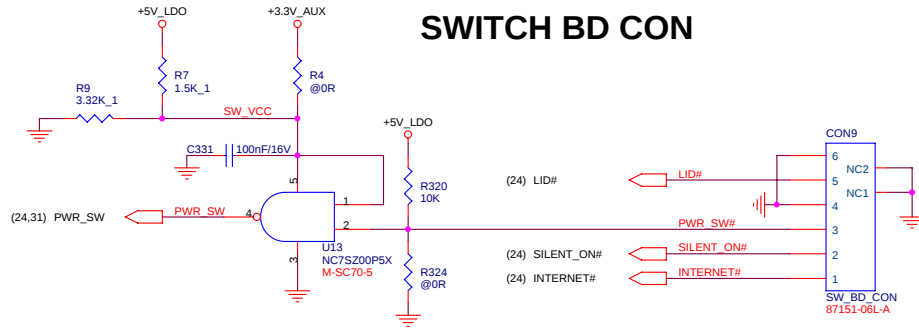
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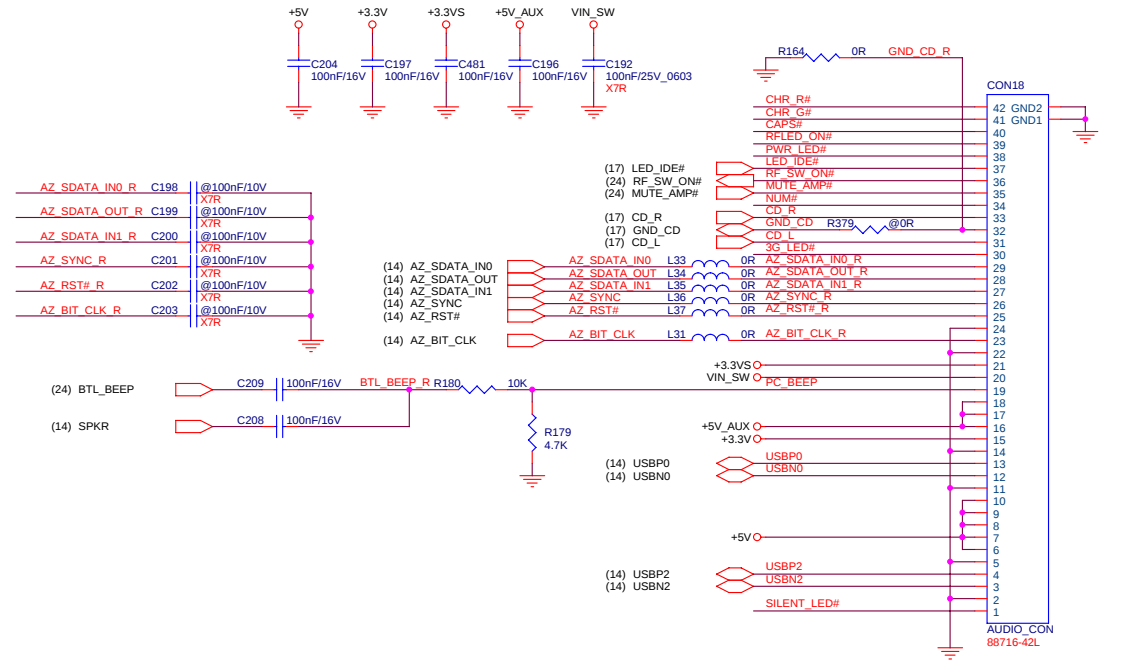
Rev B0.0



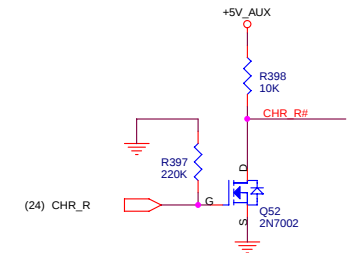
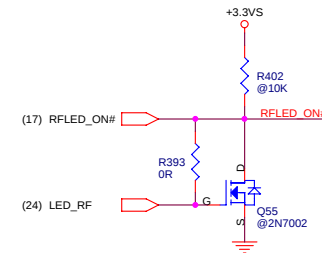
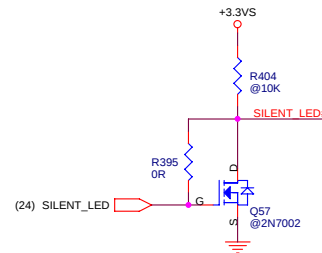
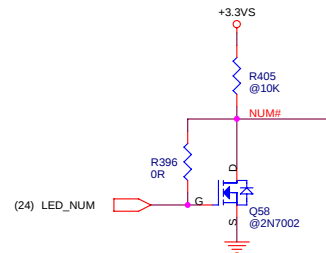
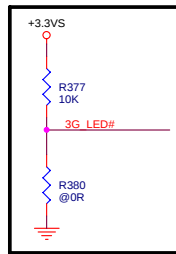
SWITCH BD CON



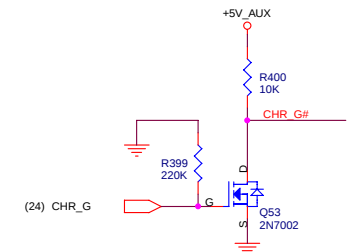
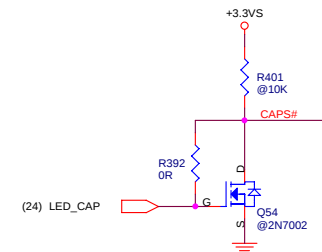
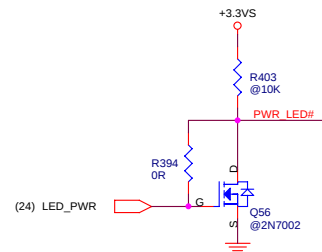
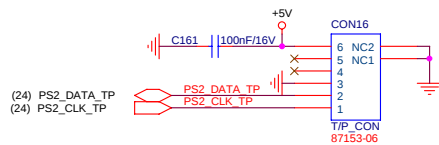
AUDIO / LED BD CON



	L50IIX Audio BD	L51A11 Audio BD
R377 10K	Add	Remove
R380 0R	Remove	Add

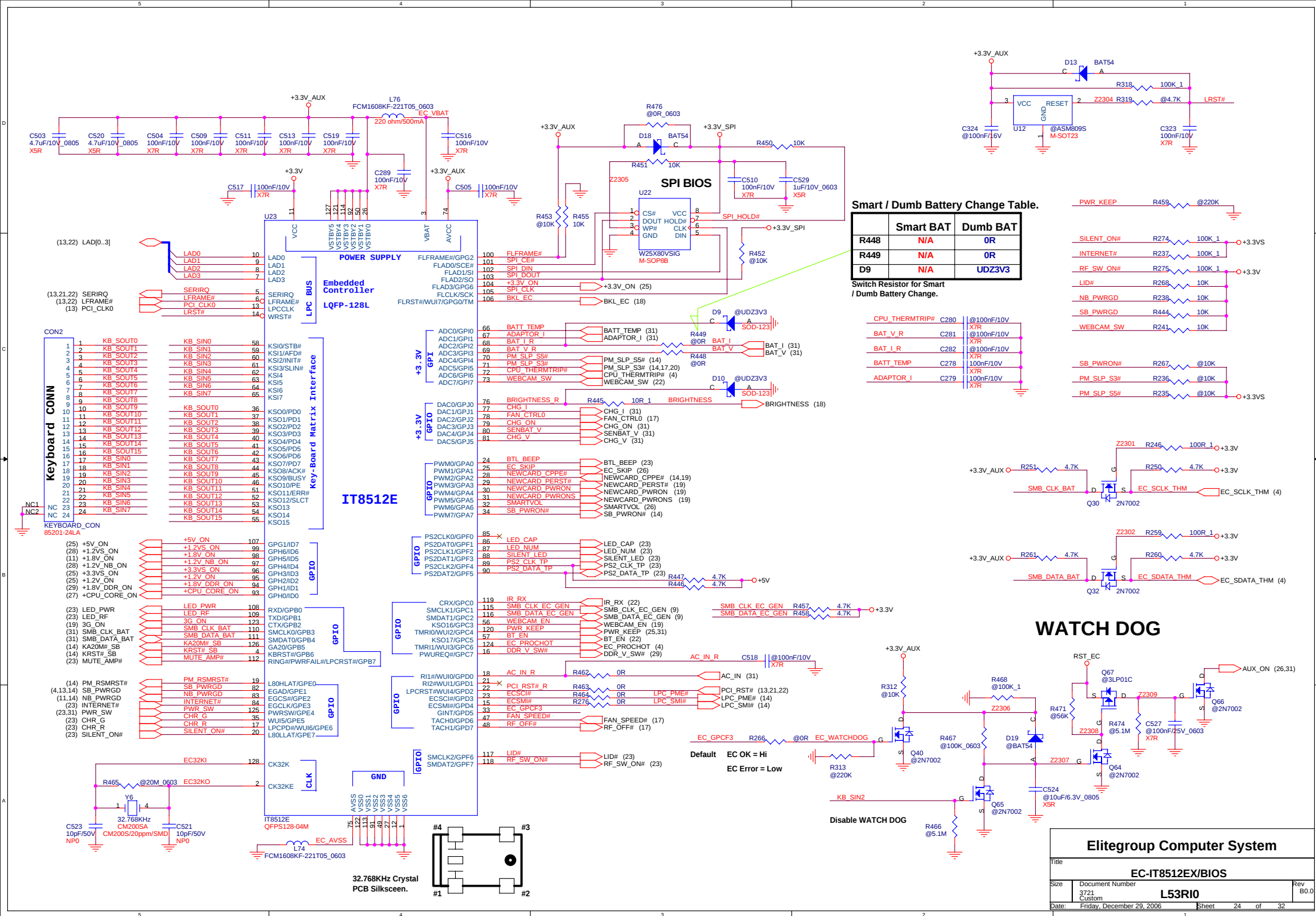


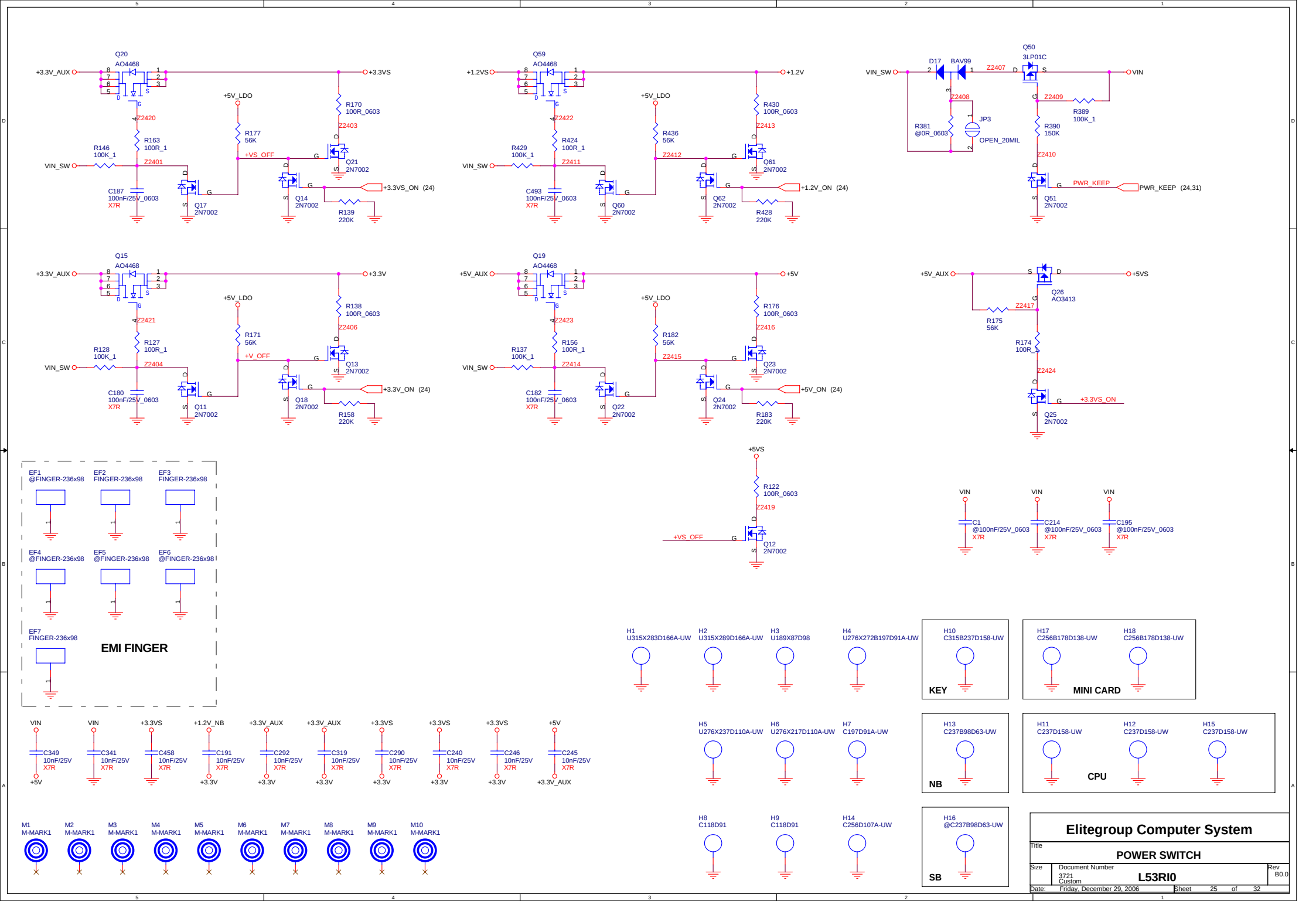
TOUCH PAD CON



Elitegroup Computer System

AUDIO/LED/SW BD/TP CON		
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MAX8744 shutdown current : 8~ 20 uA (SHDN# pin = low)
 MAX8744 standby current : 65 ~ 120 uA
 MAX8744 idle power : 3.5mW ~ 4.5mW

+3.3V_AUX

**+3.3V/6A
PK=8A**

Vout=3.331V

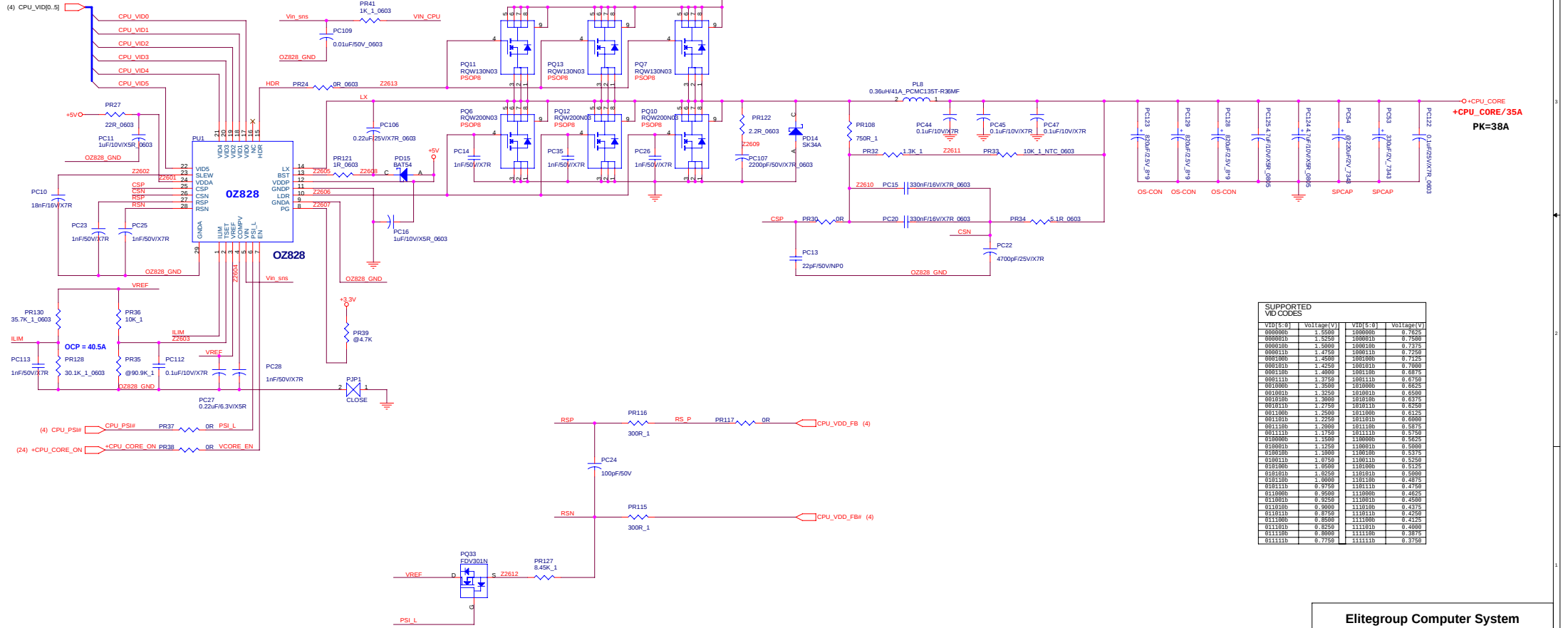
+5V_AUX

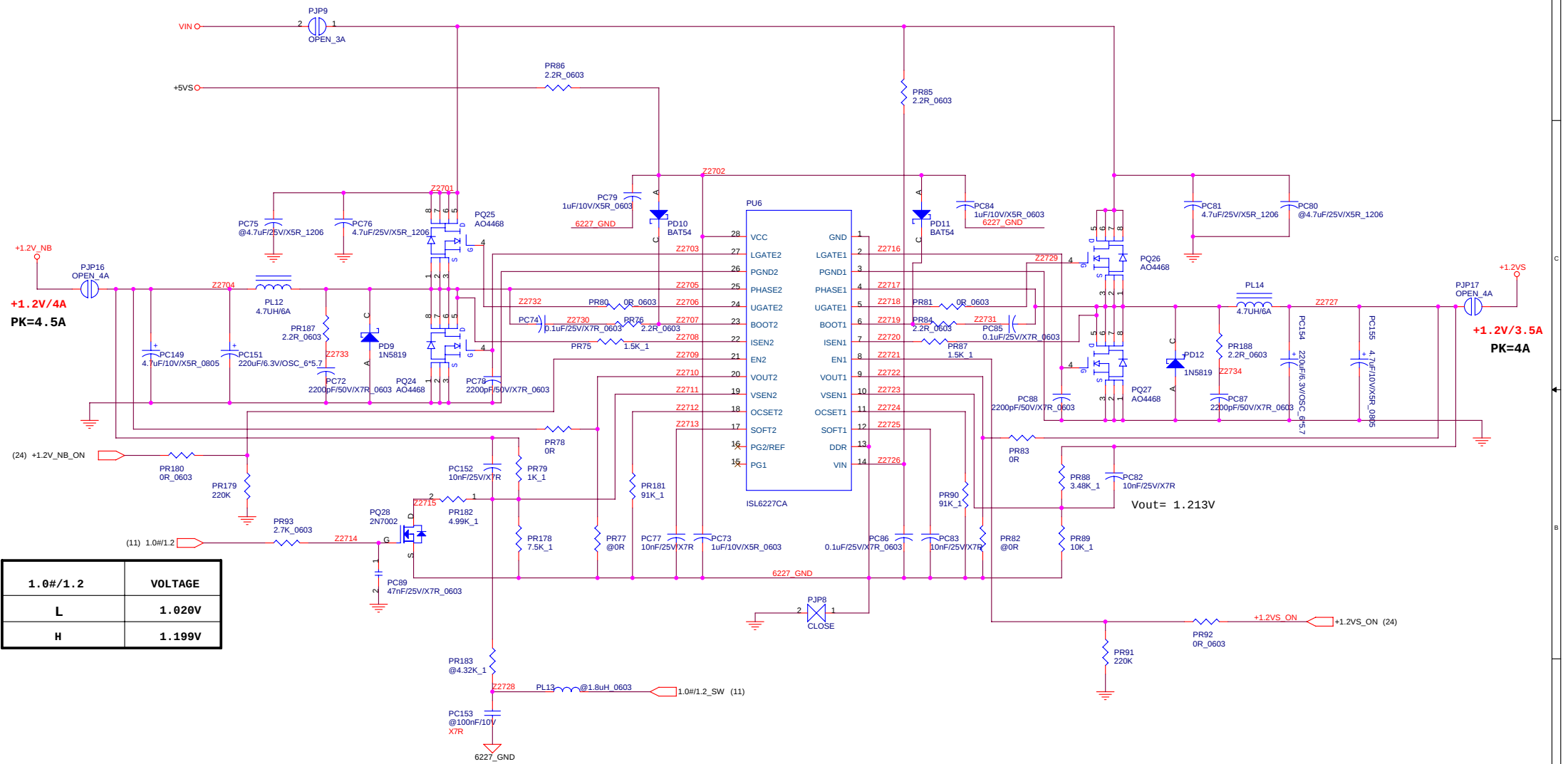
**+5V/6A
PK=8A**

Vout= 5.065V

"High"=5.065V
"Low"=4.865V

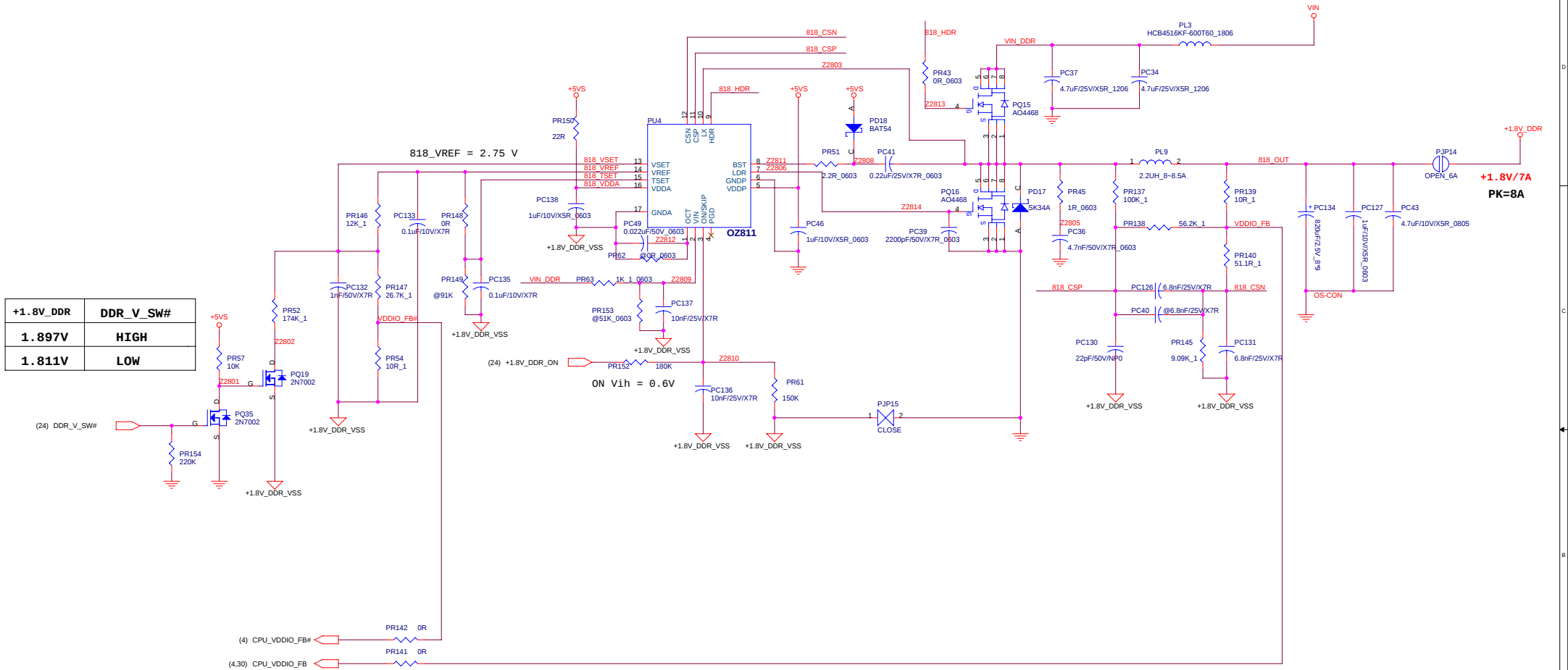
Elitegroup Computer System			
Title			
SYSTEM POWER (MAX8744)			
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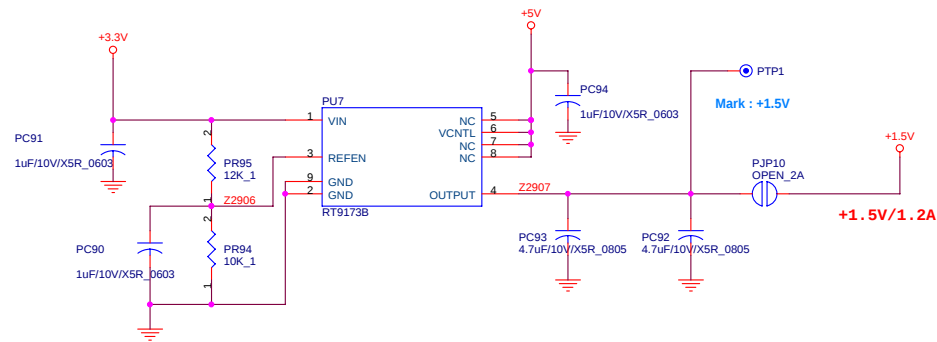
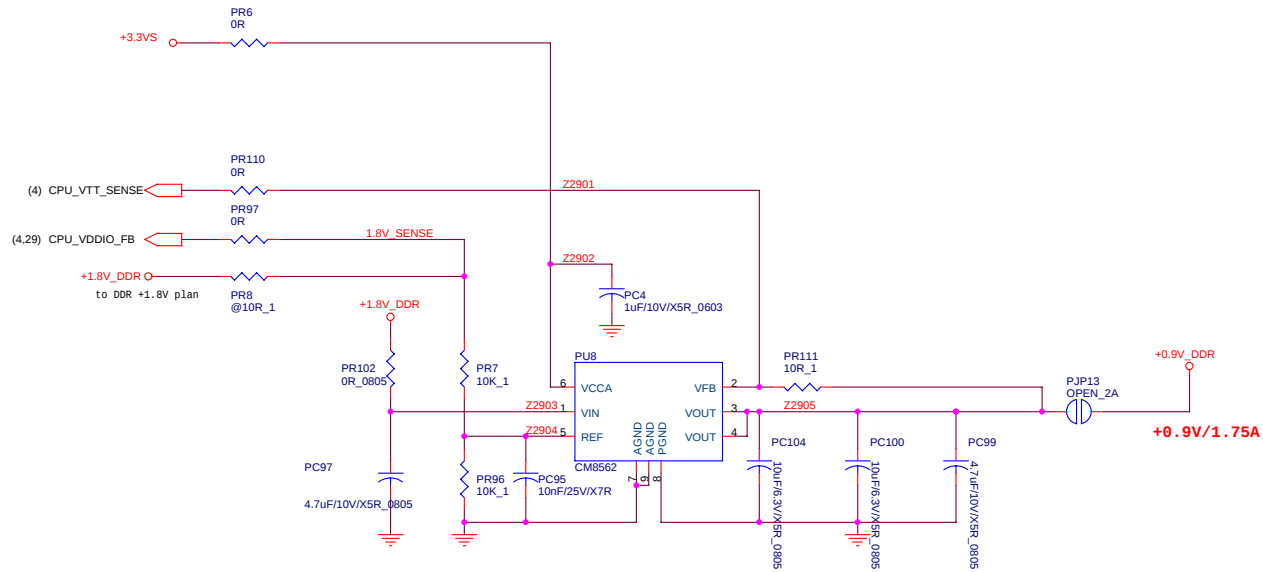
1.0#/1.2	VOLTAGE
L	1.020V
H	1.199V

+1.8V_DDR	DDR_V_SW#
1.897V	HIGH
1.811V	LOW

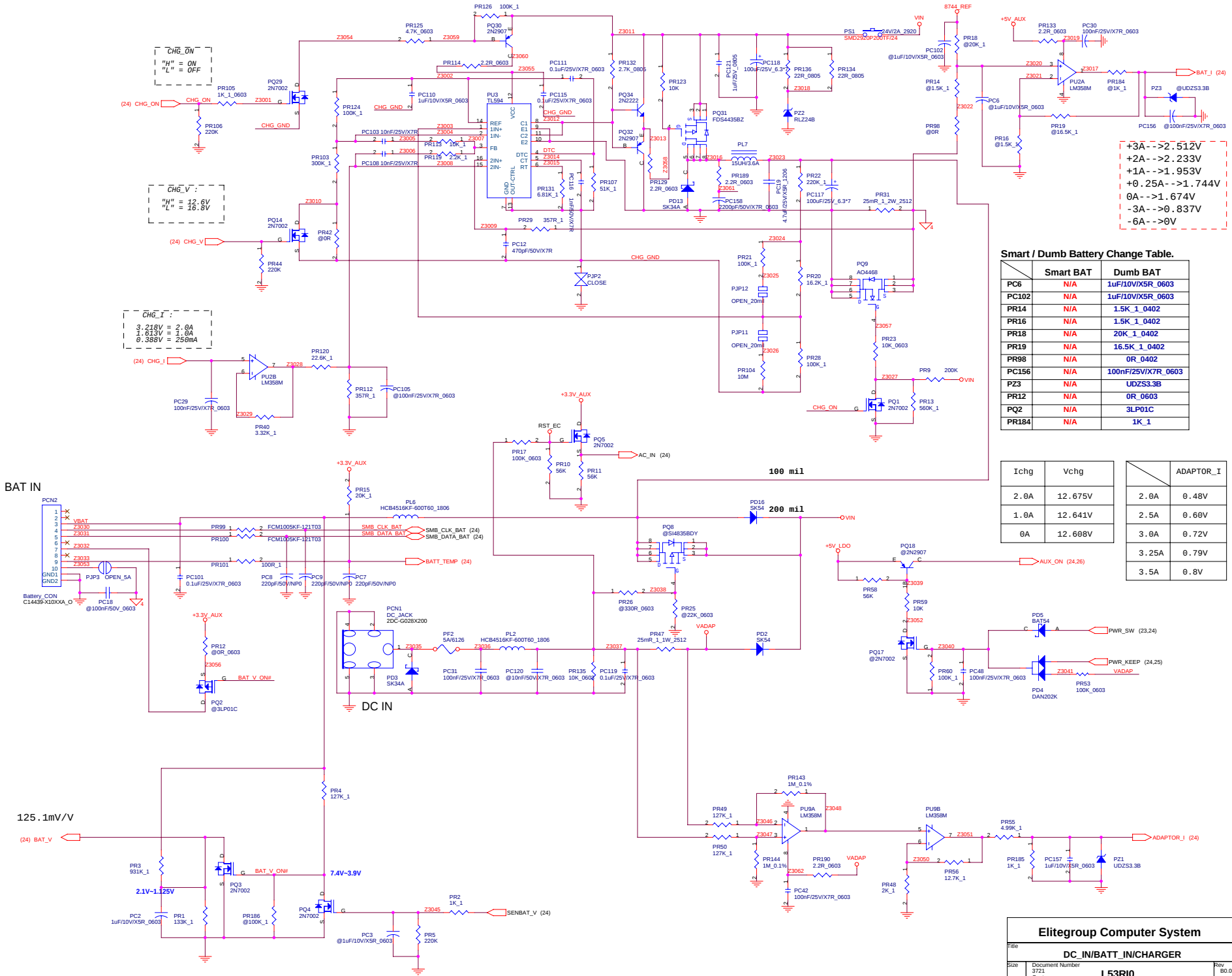


Elitegroup Computer System			
Title			
+1.8V_DDR (OZ811)			
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DDR Termination Power



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+3A-->2.512V
+2A-->2.233V
+1A-->1.953V
+0.25A-->1.744V
0A-->1.674V
-3A-->0.837V
-6A-->0V

Smart / Dumb Battery Change Table.

	Smart BAT	Dumb BAT
PC6	N/A	1uF/10V/X5R_0603
PC102	N/A	1uF/10V/X5R_0603
PR14	N/A	1.5K_1_0402
PR16	N/A	1.5K_1_0402
PR18	N/A	20K_1_0402
PR19	N/A	16.5K_1_0402
PR98	N/A	0R_0402
PC156	N/A	100nF/25V/X7R_0603
PZ3	N/A	UDZS3.3B
PR12	N/A	0R_0603
PQ2	N/A	3LP01C
PR184	N/A	1K_1

Ichg	Vchg	ADAPTOR_I	
2.0A	12.675V	2.0A	0.48V
1.0A	12.641V	2.5A	0.60V
0A	12.608V	3.0A	0.72V
		3.25A	0.79V
		3.5A	0.8V

Elitegroup Computer System

DC_IN/BATT_IN/CHARGER		
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Sch Rev.	PCB Rev.	Data	REVISION DESCRIPTION	Sch Rev.	PCB Rev.	Data	
A.01	37GL53000-A0	2006/10/14	1. Change R311/R314/R319 2.2K 1 to @2.2K_1 (Page.14) 2. Modify System Block Diagram (Page.2) 3. Change R426 @220K to 91K_1 (Page.23) 4. Add PCI DEVICES IRQ ROUTING TABLE (Page.3) 5. Add USB PORTS DEVICES TABLE (Page.3) 6. Add Power Block Diagram (Page.3) 7. Add CPUINB/ISB/SYSTEM POWER RAIL TABLE (Page.3) 8. Add Disable WATCH DOG circuit WQ1 2N7002 / WR1 5.1M (Page.23) 9. Change PC8 @1uF/10VX5R 0603 to 100K_0603, PR16 @1.5K_1 to 100K, PR22 @16.5K_1 to 100K (Page 30.) 10. Add Smart / Dumb Battery Change Table (Page.30) 11. Change U2/U6/U18 @NC7SZ08M5 to @NC7SZ08P5X (Page.4) 12. Change U4 74HC1G32GW to NC7SZ32PSX_U27 @74AHC1G126DCKR to @NC7SZ126P5X (Page.11) 13. Change U3/U5 74AHC126DCKR to NC7SZ126P5X (Page.18) 14. Change U15 74HC1G00 to NC7SZ00P5X (Page.22) 15. Change R202 10K to @10K (Page.14) 16. Modify Battery mode +xV_AUX ON/OFF TABLE (Page.25) 17. Add Battery mode +xV_AUX ON/OFF TABLE (Page.22) 18. Change R428 10K to @10K (Page.23) 19. Change R108/R337 @100R_0603 to 100R_0603, Q11/Q53 @2N7002 to 2N7002 (Page.24) 20. U15 pin10 (NEWCARD_CPPE#) jump the line to connect CON5 pin17 (EXPCARD_CPPE#) (Page.19) 21. Add Add to stop leakage voltage circuit, WD1 BA154 (Page.16) 22. Change PR10 1mR_1 2W_2512 to 0.5mR_1 2W_2512, PR121 30K_1 0603 to 24K_1_0603 (Page.26) 23. Change R325 @100K_1 to 100K_1 (Page.4)	B0.0	37GL53000-B0	2006/12/27	1. Add C531 @100nF/16V, C532 @1uF/10V/X5R 0603, R477 @300R, R478 @0R, U26 @NC7SZ08P5X. (Page.04) 2. Change U14 AME8800DEFTZ to CM2860GKM89, C358 220uF/6.3V_6*5 to 330uF/6.3V_6*7. (Page.04) 3. Change R91 / R92 1K_1 to 1K_1_0603, R48 / R49 / R64 10K to 680R. (Page.04) 4. Add C533 100nF/10V/X7R. (Page.7) 5. Change R12 / R15 1K_1 to 1K_1_0603. (Page.7) 6. Change C492 220uF/6.3V_6*5 to 330uF/6.3V_6*7. (Page.9) 7. Change C97 100pF/50V/NP0 to 100nF/10V/X7R, R76 2.05K_1 to @220K, U5 AME804AEEYZ to FP6133-18S5P. (Page.11) 8. Del R75 1K_1 (Page.11) 9. Add C528 @100nF/16V, U25 @74AHC1G08GW. (Page.13) 10. Change Y3 PCB Footprint CM200S to CM200SA, R385 22R to @22R, R178 1K_1 to 499R_1. (Page.13) 11. Change C188 / C189 18pF/50V/NP0 to 15pF/50V/NP0, C112 10uF/6.3V/X5R_0805 to 2.2uF/6.3V/X5R_0603. (Page.13) 12. Add C530 @100nF/10V/X7R. (Page.14) 13. Change R119 11.1K_1 to 9.76K_1 (Page.14) 14. Change R322 Net PCI_RST# to ODD_RST#. (Page.17) 15. Originally above parts change to not above parts : C447 / C448 / C449 / C450 / CON15 / L23 / L25 / R90 / R93. (Page.18) 16. Add Net WEBCAM_GND, L79 HCB1608KF-600T30_0603. (Page.19) 17. Change L60 @HCB1608KF-600T30_0603 to HCB1608KF-600T30_0603, link net WEBCAM_PV_EN to WEBCAM_GND. (Page.19) 18. Del Net Z1907, JP2 OPEN 20MIL, Q42 @2N7002, Q43 @AO3413, R342 @56K, R344 @220K. (Page.19) 19. Change R248 Pull-Hi voltage +3.3VS to +3.3V. (Page.20) 20. Add L77 / L78 @HCB2012KF-300T30_0805. (Page.21) 21. Originally above parts change to not above parts : C262 / C263 / C267 / C268 / C274 / C283 / C284 / C285 / C286 / C287 / C293 / C294 / C295 / C303 / C305 / C313 / C314 / C315 / C317 / C322 / CON20 / L48 / L72 / Q33 / Q38 / R239 / R240 / R242 / R243 / R244 / R245 / R269 / R278 / R279 / R296 / R297 / R298 / R299 / R307 / R308 / R311 / U9 / U11 / Y5. (Page.21) 22. Add D20 / D21 BAT54, R475 @0R. (Page.22) 23. Change CON24 pin.1 power +5V to +3.3V_AUX, Q35 @3LP01C to AO3413. (Page.22) 24. Change Change C522 100nF/16V to @100nF/16V, IR_BD_CON to @IR_BD_CON. (Page.22) 25. Del R285 / R288 @0R. (Page.22) 26. Swap Q35 pin.S / D. (Page.22) 27. Originally not above parts change to above parts : D11 / D12 / R280 / R281 / R283 / R290 / R292 / R295 / R303 / R305 / R314 / U10. (Page.22) 28. Change CON9 PCB Footprint GB1006X-X051-7F_87151 to 87151-06L-A. (Page.23) 29. Change CON18 PCB Footprint 6701-X42N-00X to 88716-42L. (Page.23) 30. Change R7 15K_1 to 1.5K_1, R9 30.1K_1 to 3.32K_1. (Page.23) 31. Add C529 1uF/10V/X5R_0603, R476 @0R_0603. (Page.24) 32. Change Y6 PCB Footprint CM200S to CM200SA. (Page.24) 33. Change U22 S25FL008A to W25X80V/SIG. (Page.24) 34. Change U23 pin.17 Net RF_SW_ON# to CHR_R_U23 pin.35 Net LID# to CHR_G. (Page.24) 35. Change U23 pin.17 Net CHR_G to LID#, U23 pin.118 Net CHR_R to RF_SW_ON#. (Page.24) 36. Change H10 PCB Footprint C315D158A-UW to C315B237D158-UW. (Page.25) 37. Originally not above parts change to above parts : EF2 / EF3 / EF7. (Page.25) 38. Change PC56 1uF/10V/X5R_0603 to 0.1uF/25V/X7R_0603, PC58 4.7uF/25V/X5R_1206 to @4.7uF/25V/X5R_1206. (Page.26) 39. Change PC68 1uF/10V/X5R_0603 to 0.1uF/25V/X7R_0603, PC69 4.7uF/25V/X5R_1206 to @4.7uF/25V/X5R_1206. (Page.26) 40. Change PC139 PCB Footprint @220uF/6.3V/QSC 6*5.7 to @4.7uF/10V/X5R_0805. (Page.26) 41. Change PC148 4.7uF/10V/X5R_0805 to @4.7uF/10V/X5R_0805. (Page.26) 42. Change PR138 63.4K_1 to 56.2K_1, PR145 @6.49K_1 to 9.09K_1. (Page.29) 43. Add PTP1 +1.5V Testpoint (Mark +1.5V). (Page.30) 44. Add PC157 1uF/10V/X5R_0603, PR184 @1K_1, PR185 1K_1, PR186 @100K_1, PR190 2.2R_0603. (Page.31) 45. Change PR29 / PR112 576R_1 to 357R_1, PR48 10K to 2K_1, PR55 10K to 4.99K_1, PR56 10K to 12.7K_1. (Page.31) 46. Change PR31 40mR_1 1W_2512 to 25mR_1 2W_2512, PR47 40mR_1 1W_2512 to 25mR_1 1W_2512.. (Page.31) 47. Change PR49 / PR50 47K_0.5% to 127K_1, PR143 / PR144 560K_0.5% to 1M_0.1%. (Page.31) 48. Change PS1 Net VADAP to VIN, PR123 link Net Z3013 to Z3058. (Page.31) 49. Del Net Z3017 / Z3049, PC38 1uF/10V/X5R_0603, PD1 SK34A, PF1 @3A_1206. (Page.31)
A.02	37GL53000-A0	2006/10/23	1. Change R41 @2K to 2K (Page.11) 2. Modify SB600 Required Straps (Page.13) 3. Change R411 33R to 22R (Page.21) 4. Change PR180 10K_0603 to @560K_0603 (Page.25)	A.03	37GL53000-A0	2006/10/26	1. Change PR55 @10mR_1 1W_2512 to @40mR_1 1W_2512 (Page.26) 2. Change PR124 2.2R_0603 to 0R_0603 (Page.26) 3. Change PR72 15K_0603 to 1K_1_0603, PR166 51K_0603 to @51K_0603 (Page.28) 4. Change PR167 100K_1 to 220K (Page.28)
A.04	37GL53000-A0	2006/11/11	1. Change C105 @10uF/6.3V_0805 X5R to 10uF/6.3V_0805 X5R (Page.6) 2. Change C208 / C209 22pF/50V_NP0 to 30pF/50V_NP0 (Page.9) 3. Change R36 @2K to 2K_1, R37 / R40 / R42 150R_1 to @150R_1 (Page.11) 4. Change L60 QT1608RL060H-CA to FCM1608JF-221T05 (Page.15) 5. Modify U22 SPX111A7M3 to AME1117ACGT2 (Page.15) 6. Change L14 / L15 / L16 100mH_0603 to FC1608-47 Net_0603, R291 / R292 / R293 150R_1 to 75R_1 (Page.18) 7. Modify L25 / L26 QT1608-1R8K-LF_0603 to FC1608F-1R8K_0603 (Page.18) 8. Change PR181 9.76K_1 to 6.98K_1, PR188 15K_1 to 10K_1, PR193 120K_1 to 100K_1 (Page.25) 9. Modify PR194 @20K to @22K (Page.25) 10. Change PC8 22R/10VX5R 0603 to 330uF/2V/7343_SPCAP, PR26 0R to @0R (Page.26) 11. Change PR86 1.33K_1 to 1K_1, PR195 10K_1 to 3.01K_1, PR199 6.04K_1 to 4.53K_1 (Page.27) 12. Change PR63 560K_1 to 174K_1, PR158 20K_1 to 12K_1, PR159 41.2K_1 to 26.7K_1 (Page.28) 13. Change PC88 4.7uF/10V/X5R_0805 to 10uF/6.3V/X5R_0805 (Page.29)	A1.0	37GL53000-A1	2006/11/21	1. Because the revision scope is widespread, all components again rename. 2. Modify Cover Page. (Page.1) 3. Modify Block Diagram. (Page.2) 4. Modify Miscellaneous. (Page.3) 5. Del Voltage level switch circuit. (Page.4) 6. Add EC control CPU_PROCHOT# circuit, CPU_SIC Pull-low resistor. (Page.4) 7. Add Net CLK_48M_CARD resistor, Net GPP_CLK2P / GPP_CLK2N for PCIE-LAN. (Page.9) 8. Add Net GPP_CLK2P / GPP_CLK2N Pull-low resistor / Capacitors. (Page.9) 9. Change Net GPP_TX3P / GPP_TX3N / GPP_RX3P / GPP_RX3N for PCIE-LAN. (Page.10) 10. Modify RS698MC_BMREQ# / Power shift circuit. (Page.11) 11. Add Net GPP_TX0P / GPP_TX0N / GPP_RX0P / GPP_RX0N for MINI Card. (Page.11) 12. Modify SB_A_RST# / CMOS BAT / PCI_CLK4 circuit. (Page.13) 13. Change SB 32.768KHz crystal / CMOS Reset Jump PCB Footprint. (Page.13) 15. Change SB600 pin.B27 Net SB_SMARTVOL to SB_GPIO4, SB600 pin.B29 SB_GPIO6 to SATA_IS1#. (Page.14) 16. Change SB600 pin.A6 Net EXPCARD_CPPE# to NEWCARD_CPPE#. (Page.14) 17. Del SB600 pin.C4 Net NEWCARD_OC#, SB600 RSMRST# HW circuit, SB_TEST0 1 / 1 2 Pull-low resistor. (Page.14) 18. Add SB600 Net USBP4 / USBN4 / USBP5 / USBN5 / USBP7 / USBN7. (Page.14) 19. Change Net MASTER_RST# Pull-Hi resistor voltage +3.3V to +3.3VS. (Page.14) 20. Add Prevention leakage voltage schottky diode. (Page.16) 21. Add Net BT_ACT, WLAN_ACT. (Page.17) 22. Del Net PCIE_WAKE_UP# Pull-Hi resistor. (Page.17) 23. Change FAN power a wave filter capacitor 10uF/6.3V/X5R_0805 to 33uF/6.3V_B2. (Page.17) 24. Change Net GPP_RX3N / GPP_RX3P / GPP_TX3N / GPP_TX3P to GPP_TX0N / GPP_TX0P / GPP_RX0P. (Page.17) 25. Modify CRT_VSYNCH# / HSYNCH# level voltage circuit. (Page.18) 26. Del LCD_VCC protect fuse. (Page.18) 27. Modify NEW_CARD power switch circuit, 3G control circuit, USB ESD protect circuit. (Page.19) 28. Modify 3G Power +3.3VS Trace wide 110mil / 2.6A to 130 mil / 3.25A (Page.19) 29. Change 3G control voltage +12V to VIN_SW, 3G power +5V to +5VS. (Page.19) 30. Add Web Camera control circuit. (Page.19) 31. Rename NEWCARD_Con_pin.17 EXPCARD_CPPE# to NEWCARD_CPPE#. (Page.19) 32. Change LAN_IC_RT18100C to RT18101E. (Page.20) 33. Co-Layout Card Reader IC_GL827 circuit. (Page.22) 34. Add USB Dongle (Bluetooth) and IR_SW circuit. (Page.22) 35. Change LPC Debug Con PCB Footprint 3801-X14XR to 3801-X14XL. (Page.22) 36. Modify PWR_SW circuit. (Page.23) 37. Del Passive type watch-dog circuit. (Page.23) 38. Change SW_Con PCB Footprint to GB1006X-X051-7F_87151. (Page.22) 39. Change Audio_Con PCB Footprint to 6701-X42N-00X. (Page.22) 40. Change Audio_Con pin.20 +12V to VIN_SW. (Page.22) 41. Change EC IC ITE8510Rx to ITE8512E. (Page.24) 42. Modify Power Switch circuit. (Page.25) 43. Del +12V power switch circuit, +1.5V / +12V / CPU_CORE / +1.2V_NB Discharge circuit. (Page.25) 44. Add VIN_SW power switch circuit. (Page.25) 45. Change System power IC MAX8734 to MAX8744. (Page.26) 46. Change CPU power IC MAX8760 to OZ828. (Page.27) 47. Modify ISL6227 power circuit. (Page.28) 48. Add RS690MC_IGP Power Shift Level Table. (Page.28) 49. Modify OZ811 power circuit. (Page.29) 50. Modify RT9173B / CM8562 power circuit. (Page.30) 51. Modify TL594C charger circuit. (Page.31) 52. Modify Dumb Battery circuit. (Page.31)
A1.1	37GL53000-A1	2006/12/12	1. Add Y3 32.768KHz Crystal PCB Silksceen. (Page.13) 2. Change R16 @0R to 0R, R17 0R to @0R. (Page.18) 3. Change R173 / R181 @0R to 0R. (Page.20) 4. Change R248 link power +3.3VS to +3.3V. (Page.20) 5. Change CON24 pin1 +5V to +3.3V_AUX. (Page.22) 6. Add Y6 32.768KHz Crystal PCB Silksceen. (Page.24) 7. Change H16 C237B98D63-UW to @C237B98D63-UW. (Page.25) 8. Change PC148 @4.7uF/10V/X5R_0805 to 4.7uF/10V/X5R_0805, PR163 @0R_0603 to 0R_0603. (Page.26) 9. Change PR128 9.1K_1_0603 to 12.4K_1_0603. (Page.27) 10. Change PL7 4.7UH6A to 15UH5.6A. (Page.31)				

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