

Compal confidential

Schematics Document

Mobile Merom uFCPGA with Intel
Crestline + ICH8-M core logic
IBT00 LA-3262P Discrete VGA (M64)

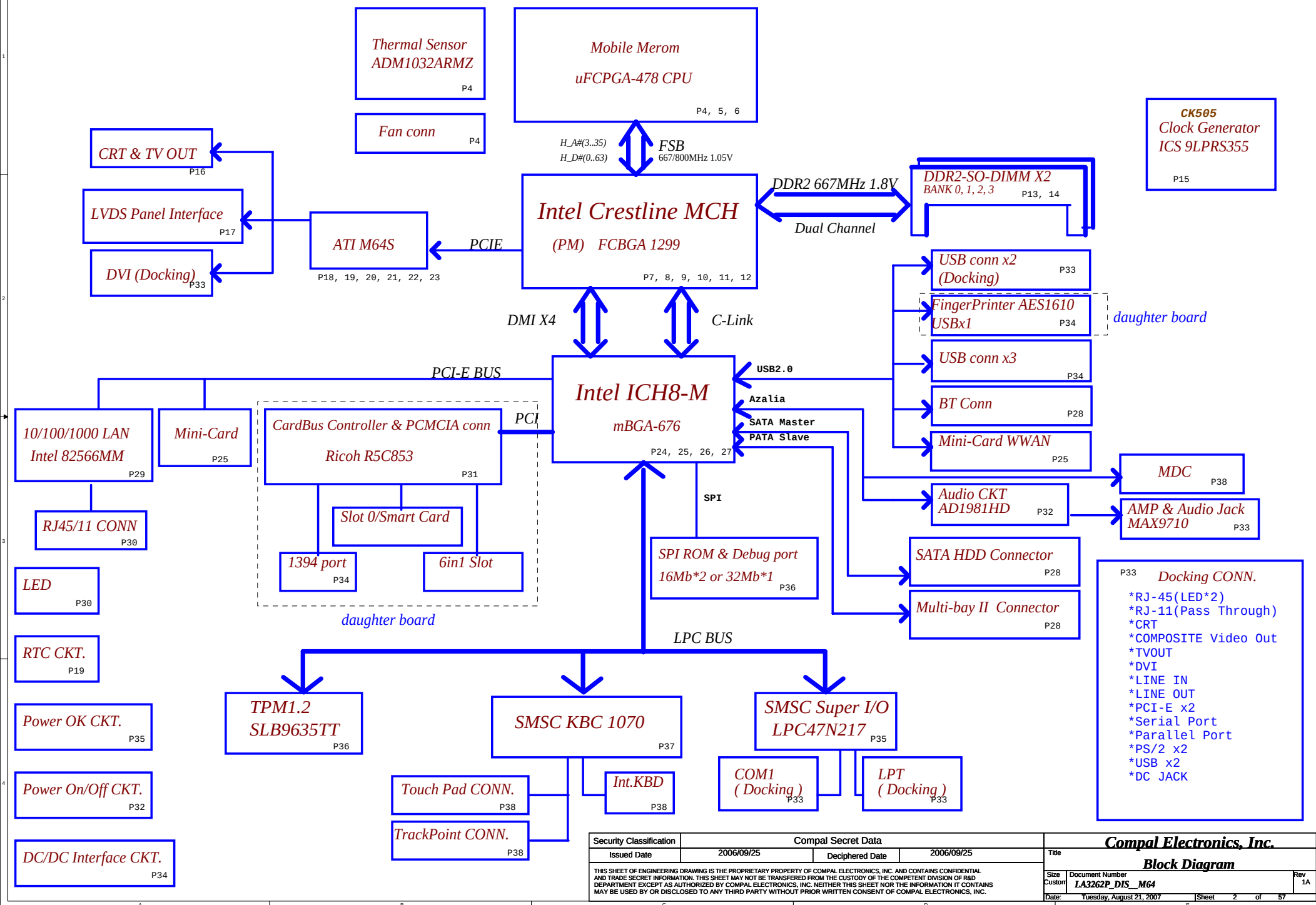
2007-08-02

REV:1A

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	產出人員	
	產出日期	
	解密日期	

Security Classification	Compal Secret Data			Title Compal Electronics, Inc.		
Issued Date	2006/09/25	Deciphered Date	2006/09/25	Cover Sheet		
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Chimay Discrete



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Voltage Rails 0 MEANS ON X MEANS OFF

power plane State	+B LD03 LD05	+5VALW +3VALW	+1.8V +5V +0.9V	+5VS +3VS +2.5VS +1.8VS +1.5VS +1.25VS +VGA_CORE +CPU_CORE +VCCP	+3VM +1.05VM +1.25VM	CLOCK
S0	0	0	0	0	0	0
S3/M1	0	0	0	X	0	0
S3	0	0	0	X	0	0
S5 S4/AC	0	0	X	X	0	0
S5 S4/ Battery only	0	X	X	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X	X	X

PCI Devices

EXTERNAL	IDSEL#	REQ/GNT#	PIRQ
CARD BUS & 1394	AD22	2	C,D,E,G

DMA Channel	Device
DMA0	MODEM / LAN
DMA1	ECP
DMA2	FLOPPY DISK
DMA3	AUDIO
DMA4	(Cascade)
DMA5	Unused
DMA6	Unused
DMA7	Unused

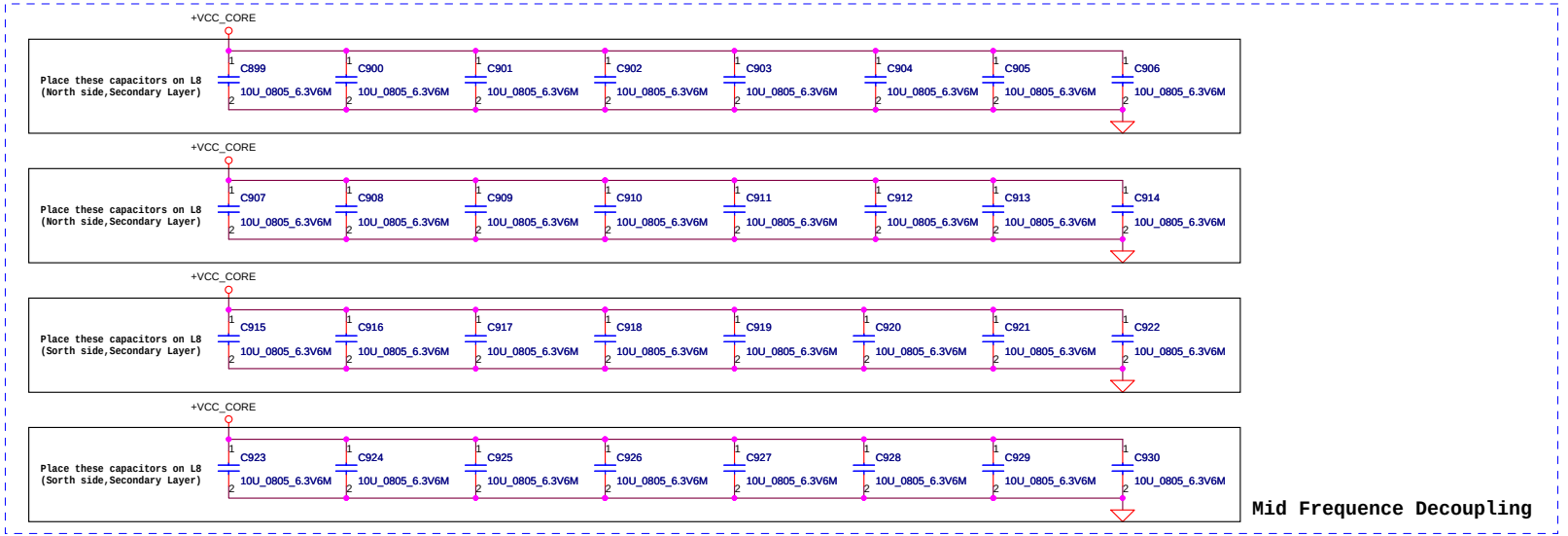
USB PORT#	Destination
0	Walk-up0 (Right side)
1	Fingerprint
2	Reserve
3	WWAN
4	Walk-up1 (Left Side)
5	Walk-up2 (Left Side)
6	Bluetooth
7	Reserve
8	Docking
9	Docking

IRQ	Device
0	System Timer
1	Keyboard
2	N/A
3	Serial port (COM2), LAN/Modem
4	Serial port (COM1)
5	Audio/VGA
6	Floppy
7	Parallel port
8	System CMOS/Real-time clock
9	Microsoft ACPI
10	N/A, Momem, LAN
11	Mass storage control/ PCI simple communication control
12	synactic PS2 port GlidePAD
13	Numeric Data Process
14	Primary IDE interface,HDD
15	Secondary IDE innterface,CD-ROM
16	Mobile Intel Crestline Express Chipset Family Microsoft UAA Bus Driver for High Definition Audio Intel 82801H (ICH8 Family) PCI Express Root Port -27D0 Broadcom NetXtreme Gigabit Ethernet
17	Intel 82801H (ICH8 Family)PCI Express Root Port - 27D2 Broadcom 802.11b/g WLAN Intel 82801H (ICH8 Family)USB Universal Host Controll
18	Intel 82801H (ICH8 Family)USB Universal Host Controll Ricoh R5C853 Cardbus Control Ricoh R5C853 Integrates FlashMedia Control Ricoh R5C853 Gemcore based SmartCard Control
19	Intel 82801H (ICH8 Family)PCI Express Root Port - 27D6 Intel 82801H (ICH8 Family)USB Universal Host Controll
20	Intel 82801H (ICH8 Family)USB Universal Host Controll Intel 82801H (ICH8 Family)USB2 Enhanced Host Controll
21	Intel 82801H (ICH8 Family)USB Universal Host Controll
22	SDA Standard Compliant SD Host Controller
23	HP Mobile Data Protection Sensor

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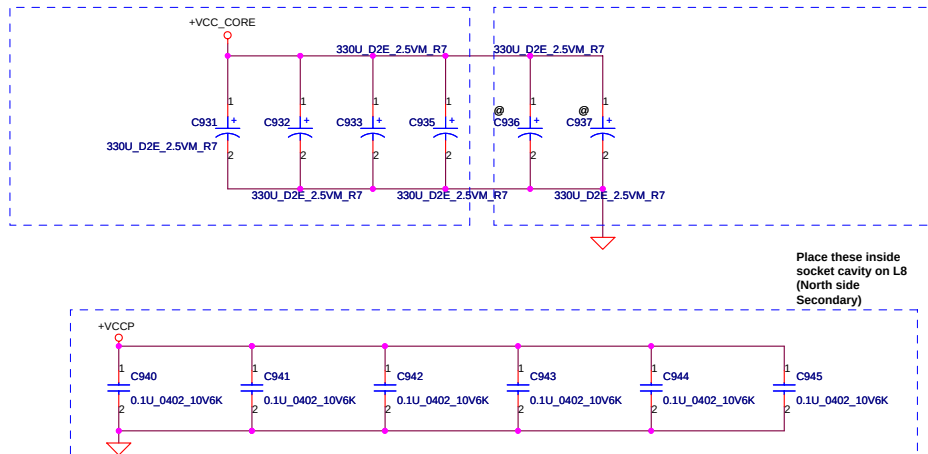
A4	JP12D	P6
A8	VSS[001]	P21
A11	VSS[002]	P21
A14	VSS[003]	P21
A16	VSS[004]	P21
A19	VSS[005]	P21
A22	VSS[006]	P21
A25	VSS[007]	P21
A28	VSS[008]	P21
B5	VSS[009]	P21
B8	VSS[010]	P21
B11	VSS[011]	P21
B12	VSS[012]	P21
B16	VSS[013]	P21
B19	VSS[014]	P21
B21	VSS[015]	P21
B24	VSS[016]	P21
C5	VSS[017]	P21
C8	VSS[018]	P21
C11	VSS[019]	P21
C14	VSS[020]	P21
C16	VSS[021]	P21
C19	VSS[022]	P21
C2	VSS[023]	P21
C22	VSS[024]	P21
C25	VSS[025]	P21
D1	VSS[026]	P21
D4	VSS[027]	P21
D8	VSS[028]	P21
D11	VSS[029]	P21
D13	VSS[030]	P21
D16	VSS[031]	P21
D19	VSS[032]	P21
D22	VSS[033]	P21
D26	VSS[034]	P21
E3	VSS[035]	P21
E6	VSS[036]	P21
E8	VSS[037]	P21
F11	VSS[038]	P21
F14	VSS[039]	P21
F16	VSS[040]	P21
F19	VSS[041]	P21
F21	VSS[042]	P21
F24	VSS[043]	P21
F5	VSS[044]	P21
F8	VSS[045]	P21
F11	VSS[046]	P21
F13	VSS[047]	P21
F16	VSS[048]	P21
F19	VSS[049]	P21
F22	VSS[050]	P21
F25	VSS[051]	P21
G4	VSS[052]	P21
G1	VSS[053]	P21
G23	VSS[054]	P21
G26	VSS[055]	P21
H3	VSS[056]	P21
H6	VSS[057]	P21
H21	VSS[058]	P21
H24	VSS[059]	P21
J2	VSS[060]	P21
J5	VSS[061]	P21
J22	VSS[062]	P21
J25	VSS[063]	P21
K1	VSS[064]	P21
K4	VSS[065]	P21
K23	VSS[066]	P21
K26	VSS[067]	P21
L3	VSS[068]	P21
L6	VSS[069]	P21
L21	VSS[070]	P21
L24	VSS[071]	P21
M2	VSS[072]	P21
M5	VSS[073]	P21
M22	VSS[074]	P21
M25	VSS[075]	P21
N1	VSS[076]	P21
N4	VSS[077]	P21
N23	VSS[078]	P21
N26	VSS[079]	P21
P3	VSS[080]	P21
	VSS[081]	P21
	VSS[082]	P21
	VSS[083]	P21
	VSS[084]	P21
	VSS[085]	P21
	VSS[086]	P21
	VSS[087]	P21
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	VSS[157]	P21
	VSS[158]	P21
	VSS[159]	P21
	VSS[160]	P21
	VSS[161]	P21
	VSS[162]	P21
	VSS[163]	P21

Merom Ball-out Rev 1a
conn@

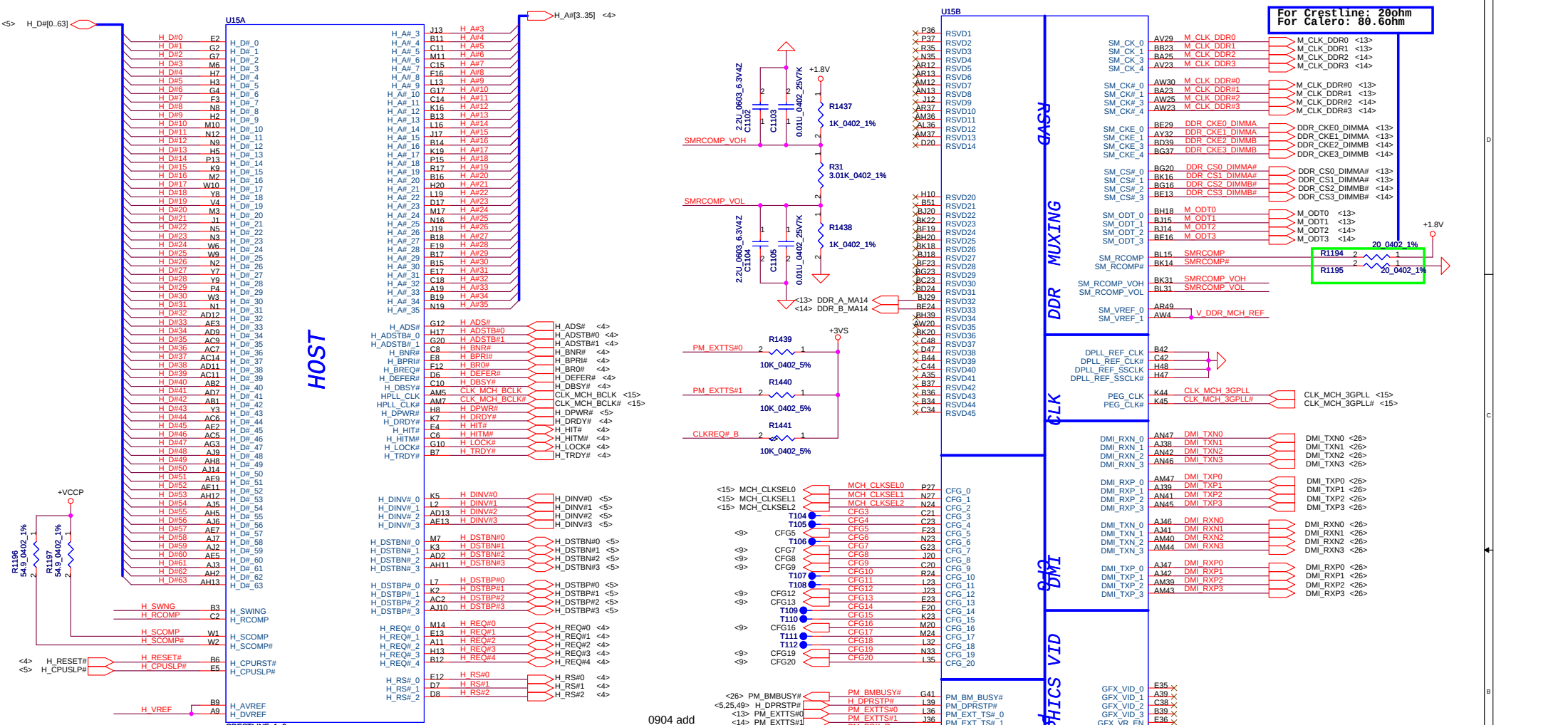


Near CPU CORE regulator

ESR <= 1.5m ohm
Capacitor > 1980uF



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layout note:

Route H_SCOMP and H_SCOMP# with trace width, spacing and impedance (55 ohm) same as FSB data traces

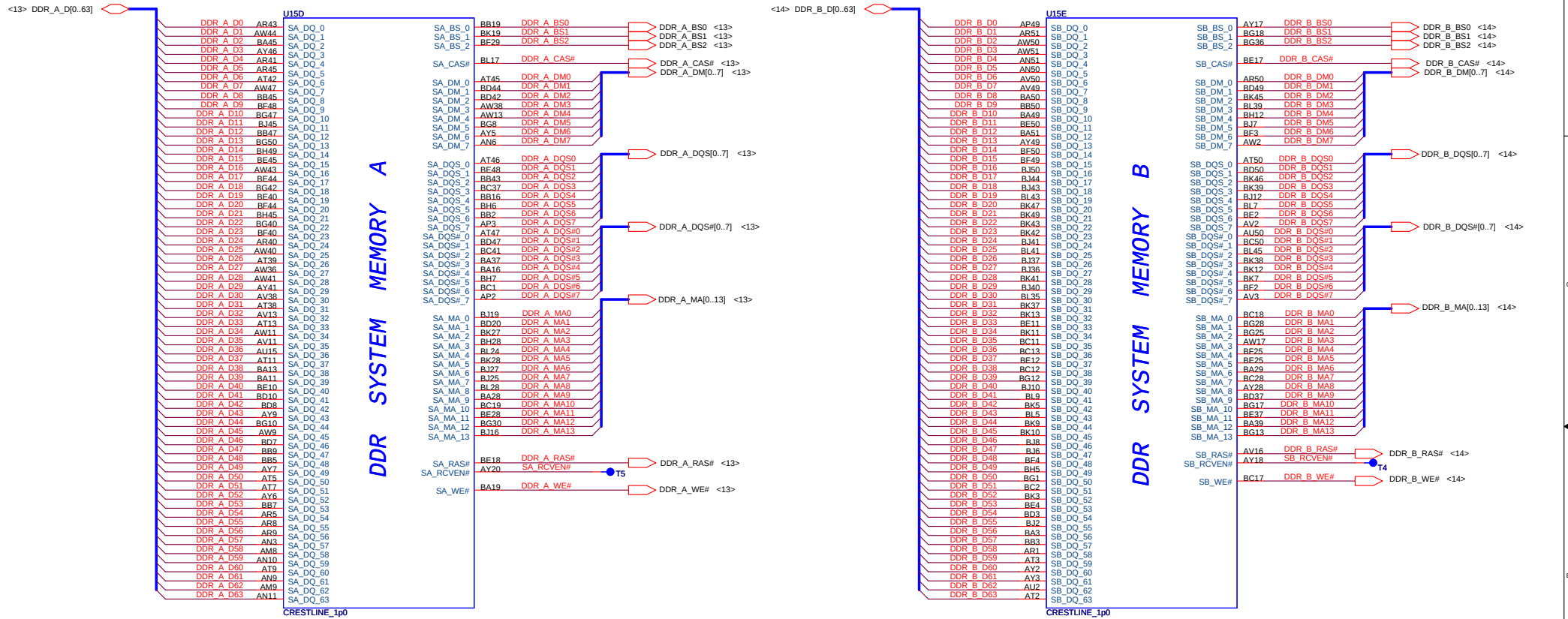
Layout Note:
H_RCOMP / H_VREF / H_SWNG
trace width and spacing is 10/20

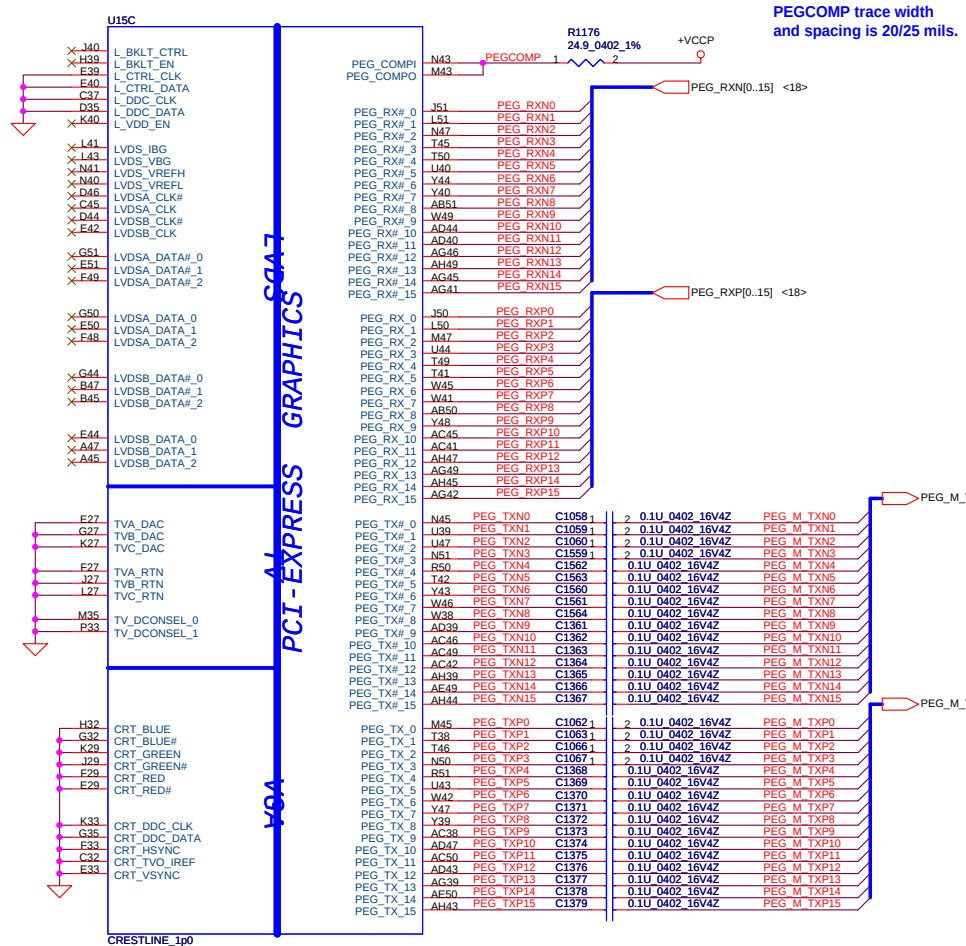
Layout Note:
V_DDR_MCH_REF
trace width and spacing is 20/20.

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Title		Compal Electronics, Inc.	
CRESTLINE(1/6)-AGTL+/DMI/DDR2 <td colspan="2">LA3262P DIS_M64</td>		LA3262P DIS_M64	
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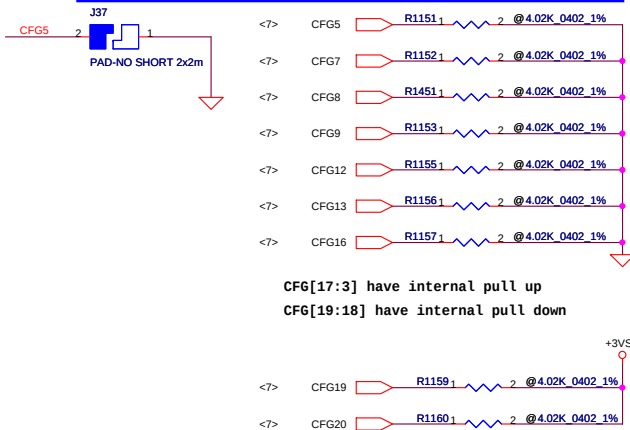


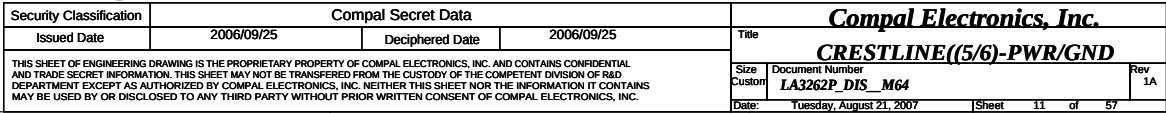


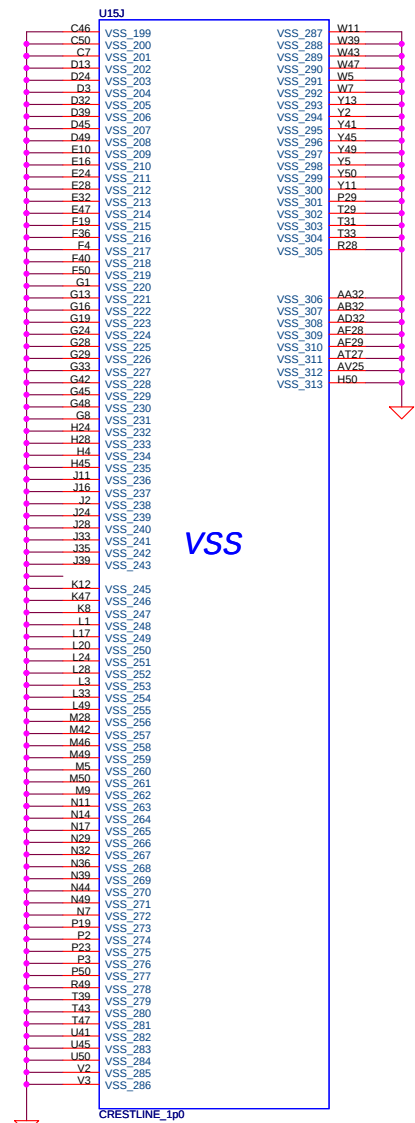
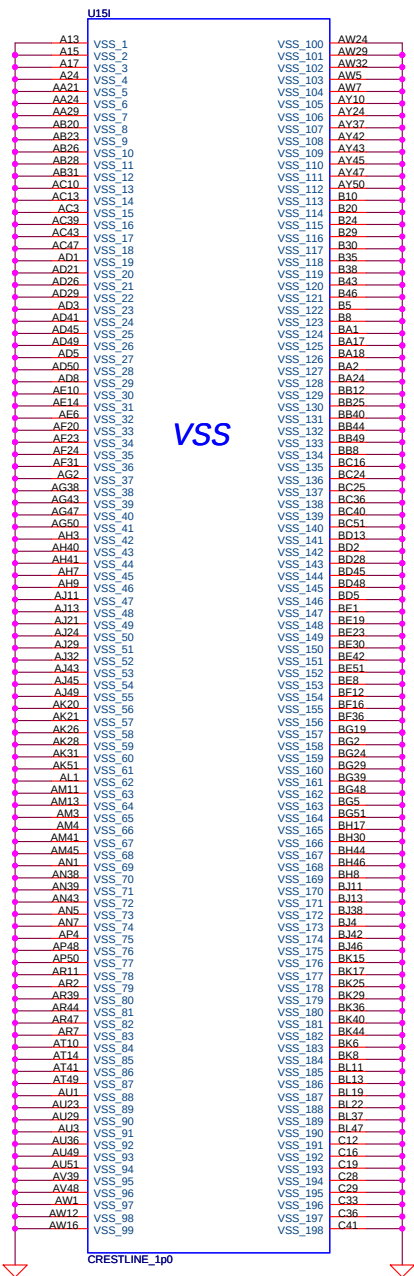
PEGCOMP trace width and spacing is 20/25 mils.

Strap Pin Table

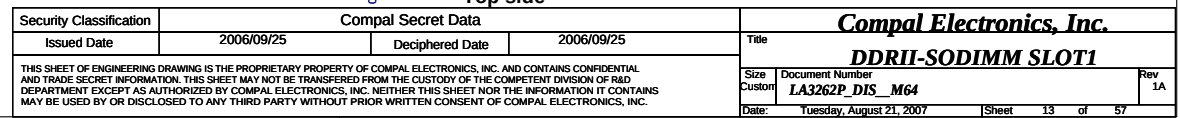
CFG[2:0] FSB Freq select	010 = FSB 800MHz 011 = FSB 667MHz Others = Reserved
CFG5 (DMI select)	0 = DMI x 2 1 = DMI x 4 *
CFG6	Reserved
CFG7 (CPU Strap)	0 = Reserved 1 = Mobile CPU *
CFG8 (Low power PCIE)	0 = Normal mode 1 = Low Power mode *
CFG9 (PCIE Graphics Lane Reversal)	0 = Reverse Lane 1 = Normal Operation *
CFG[11:10]	Reserved
CFG[13:12] (XOR/ALLZ)	00 = Reserved 01 = XOR Mode Enabled 10 = All Z Mode Enabled 11 = Normal Operation(Default) *
CFG[15:14]	Reserved
CFG16 (FSB Dynamic ODT)	0 = Disabled 1 = Enabled *
CFG[18:17]	Reserved
SDVO_CTRLDATA	0 = No SDVO Device Present * 1 = SDVO Device Present
CFG19 (DMI Lane Reversal)	0 = Normal Operation (Lane number in Order) * 1 = Reverse Lane
CFG20 (PCIE/SDVO concurrent)	0 = Only PCIE or SDVO is operational. * 1 = PCIE/SDVO are operating simu. *

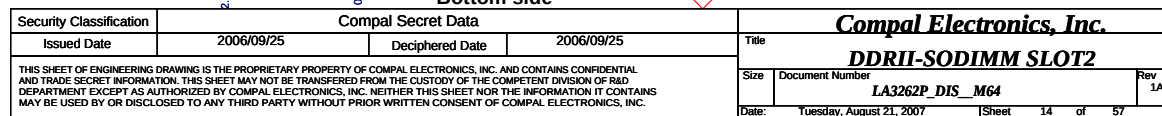




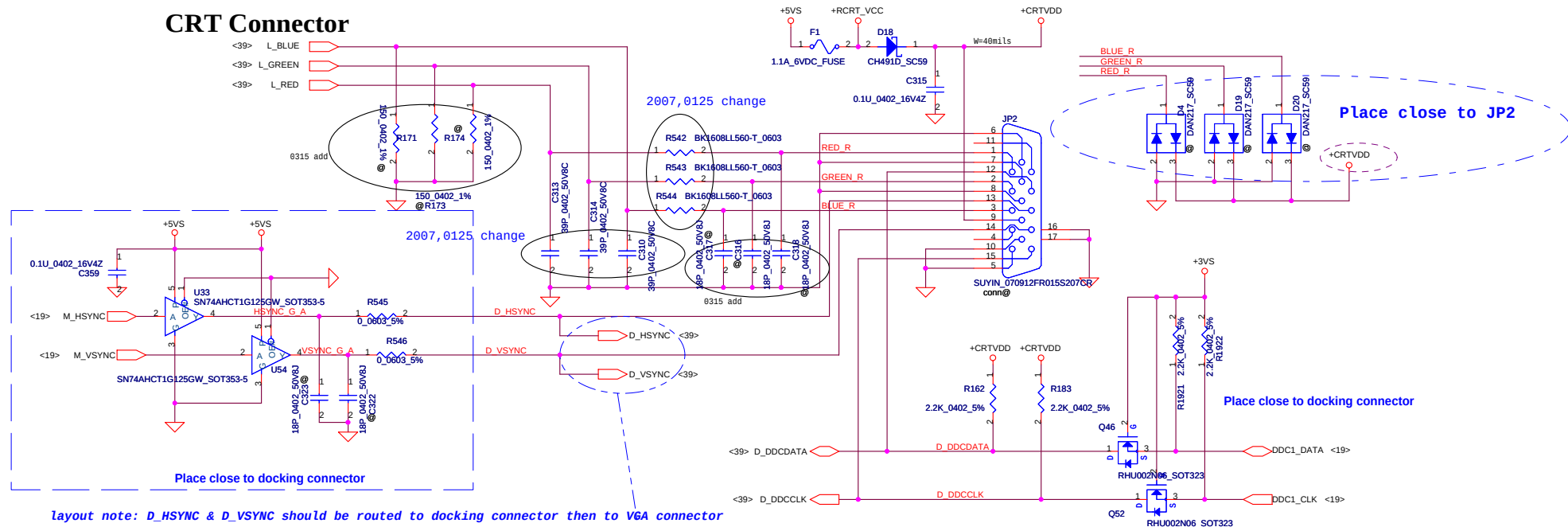


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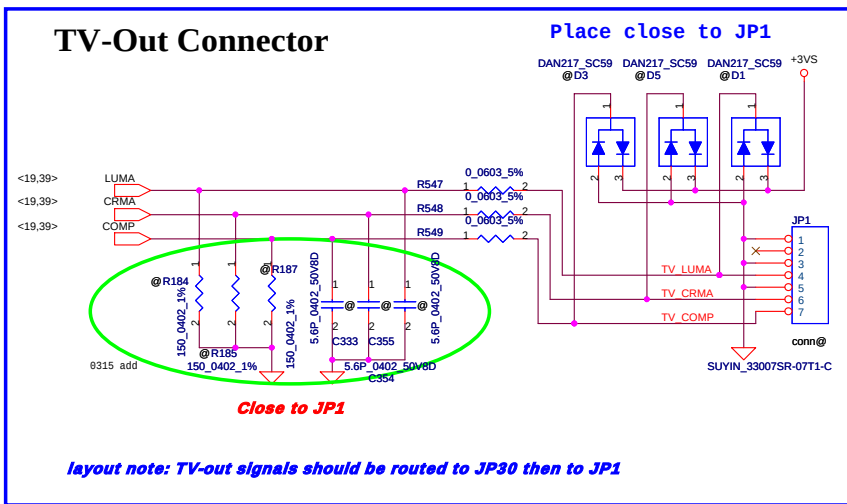




CRT Connector

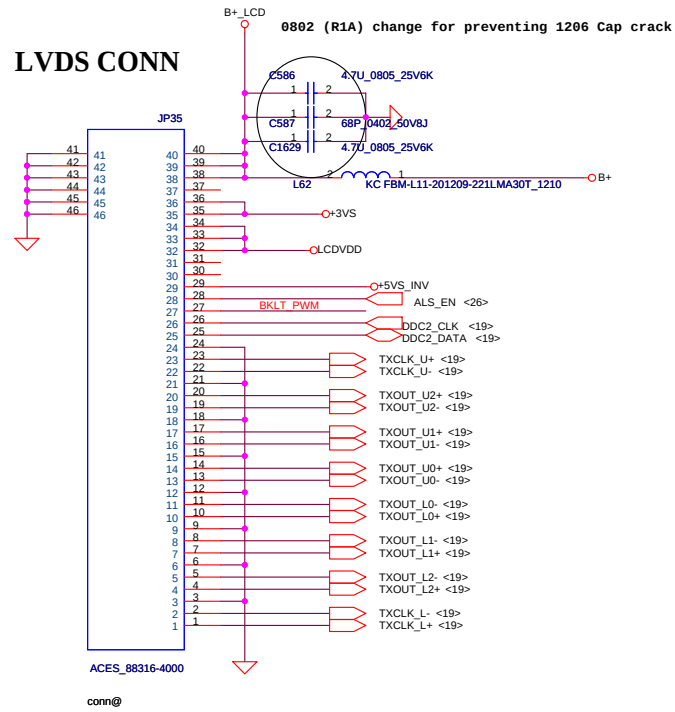


TV-Out Connector

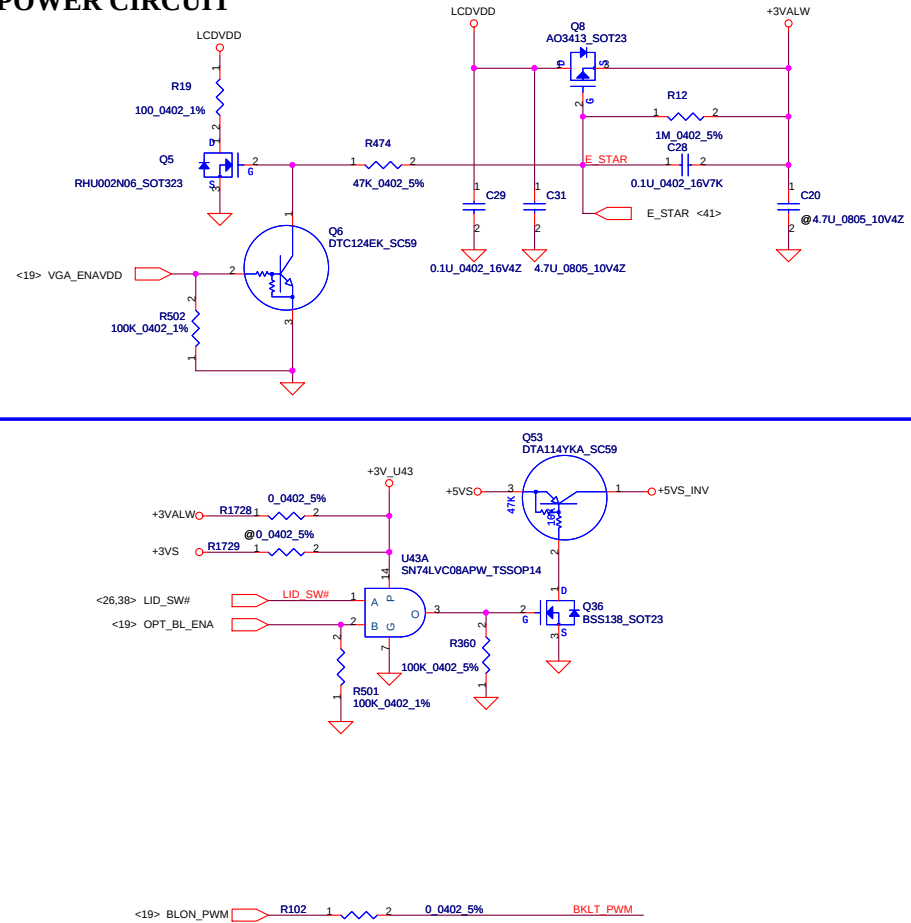


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LVDS CONN

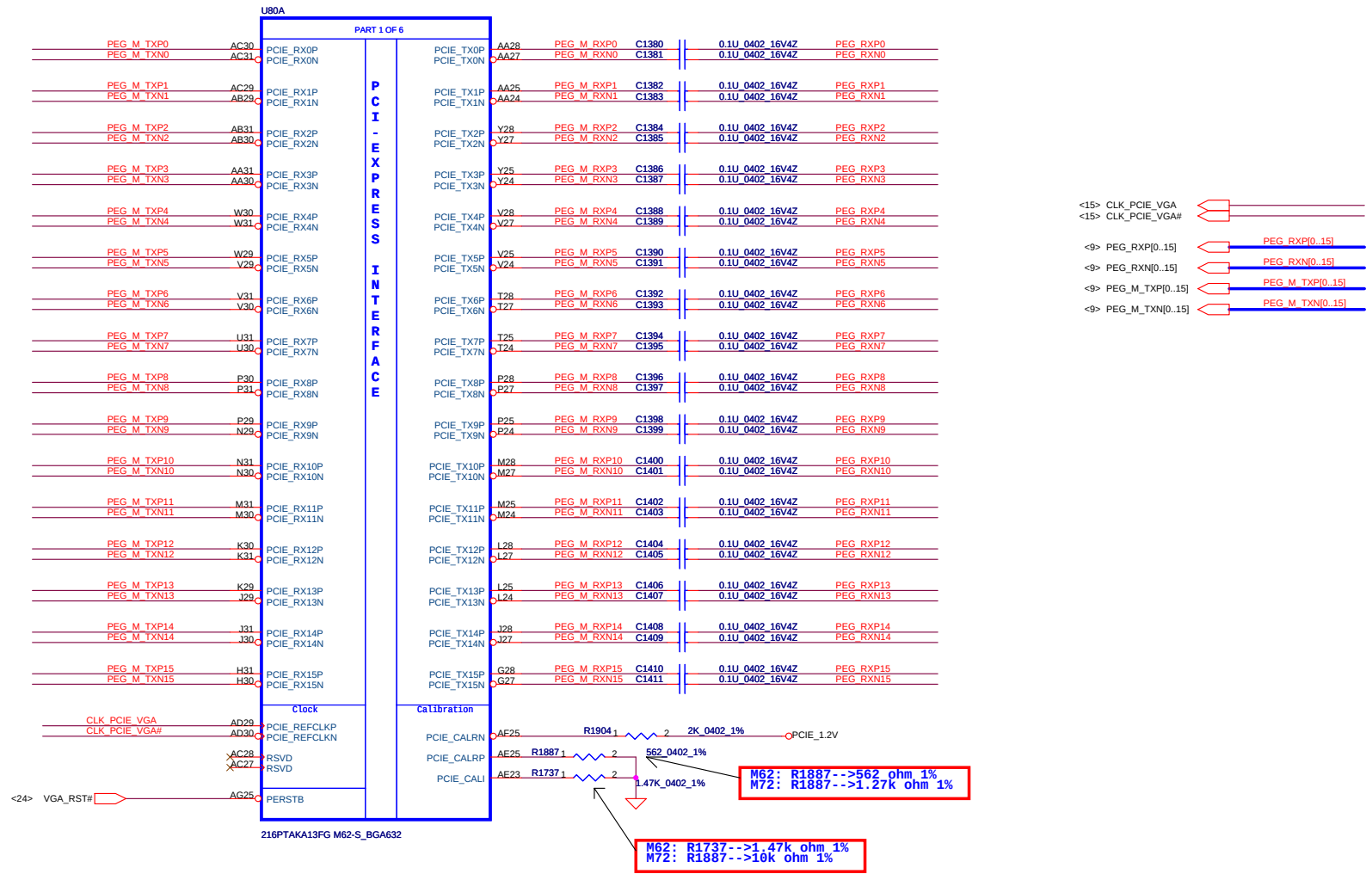


LCD POWER CIRCUIT



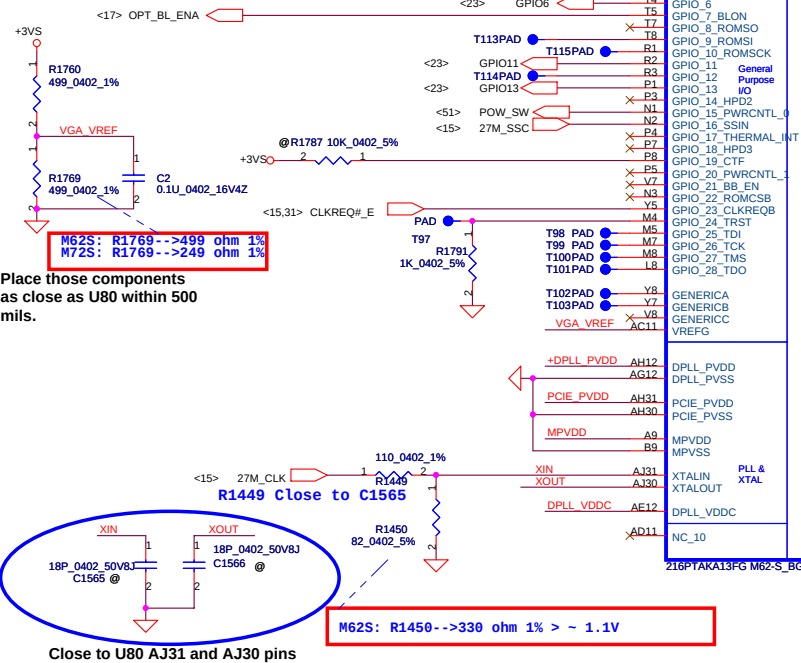
Support 3V inverter

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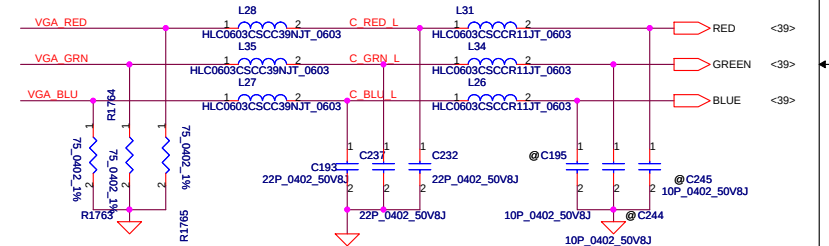


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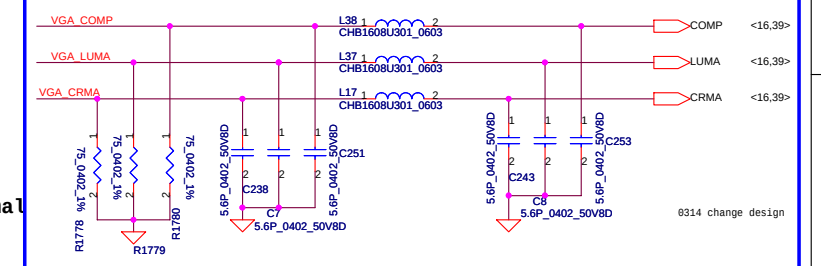
The schematic diagram illustrates the electrical connection between two components, BLM18PG121SN1D_0603 L87 and BLM18PG121SN1D_0603 R1891. The top component, L87, is connected to a 2.5V5V supply. A current of 170mA is indicated, and a pulse width of 20m1s is shown. The circuit includes several capacitors: C1584 and C1585 are connected to the supply, while C1427 and C1428 are connected to the output. A 10U_0603_6.3V6M capacitor is also present. The bottom component, R1891, is connected to a PCIE_1.2V supply. It includes capacitors C1435 and C1436, and a 10U_0402_6.3V4Z capacitor. A DPLL_PVDD/DPLL_VDDC signal line is shown connecting the two components. The diagram also shows a ground connection for the output signal.

[illegible][illegible]

CRT Termination/EMI Filter *Place Closed to U80*

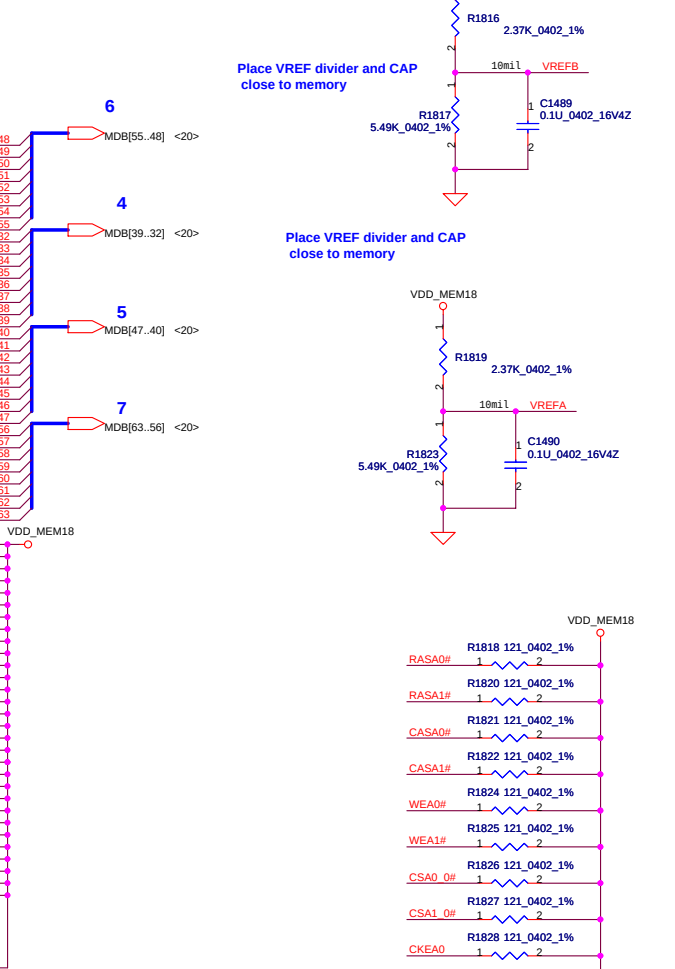
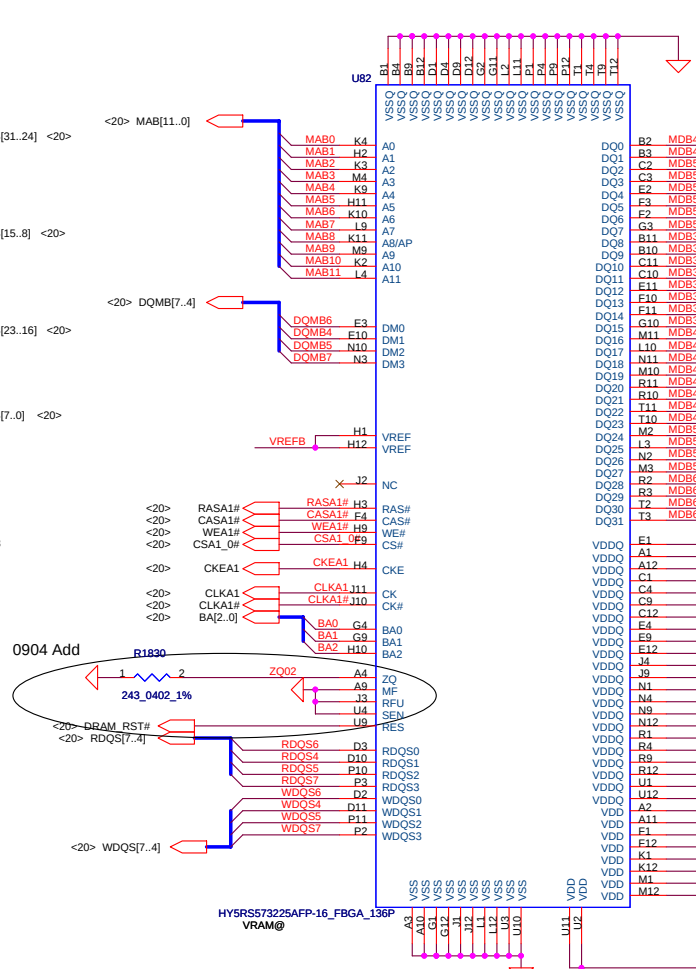
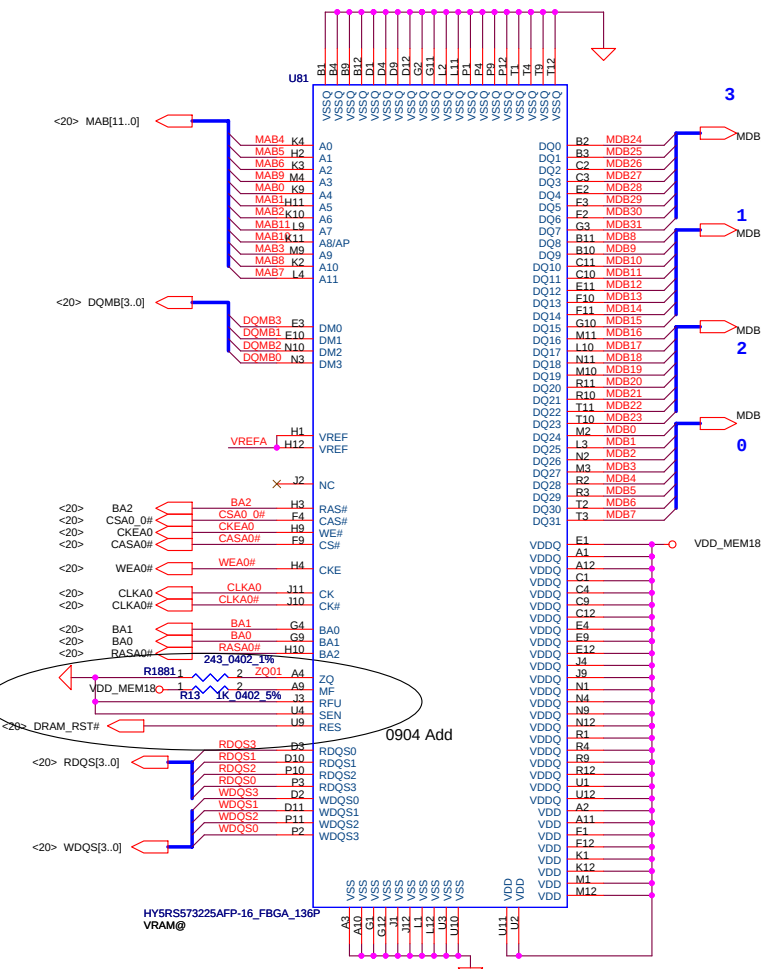


TV-Out Termination/EMI Filter *Place close to U80*

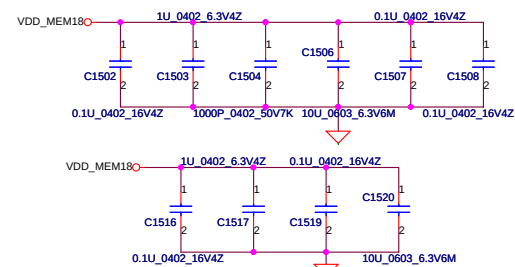


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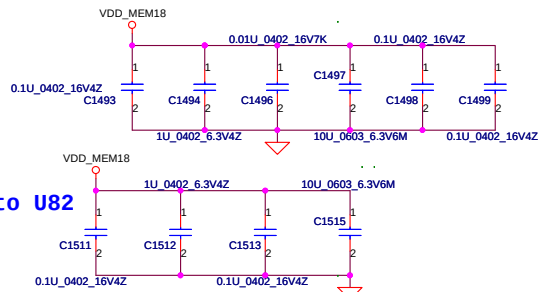
DDR3 VRAM: 8Mx32/16Mx32 FBGA_136P 2 pcs



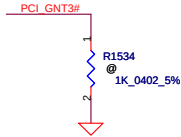
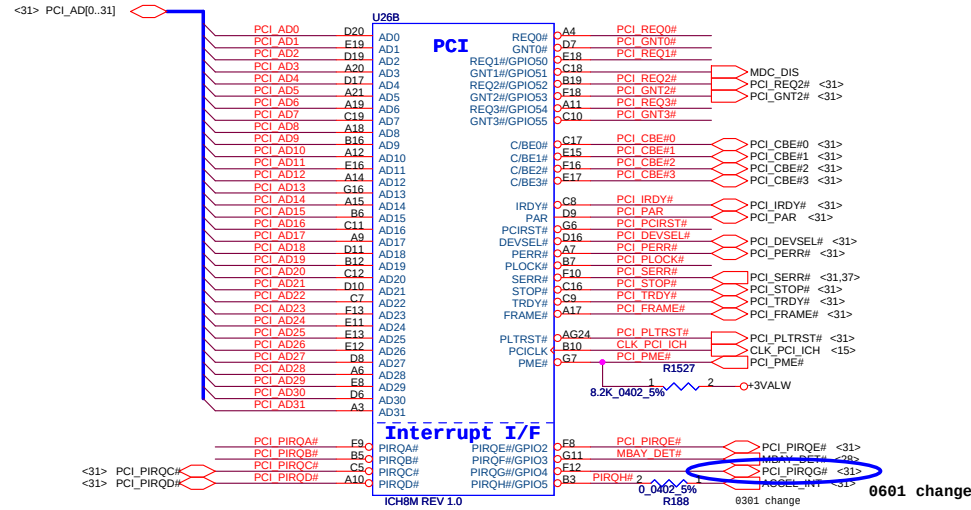
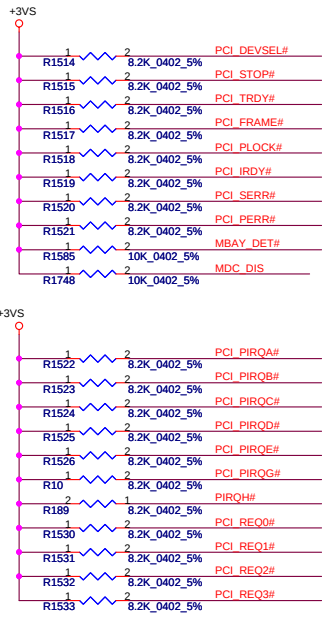
Place close to U81



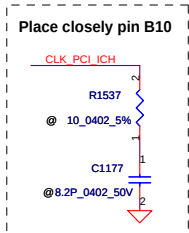
Place close to U82



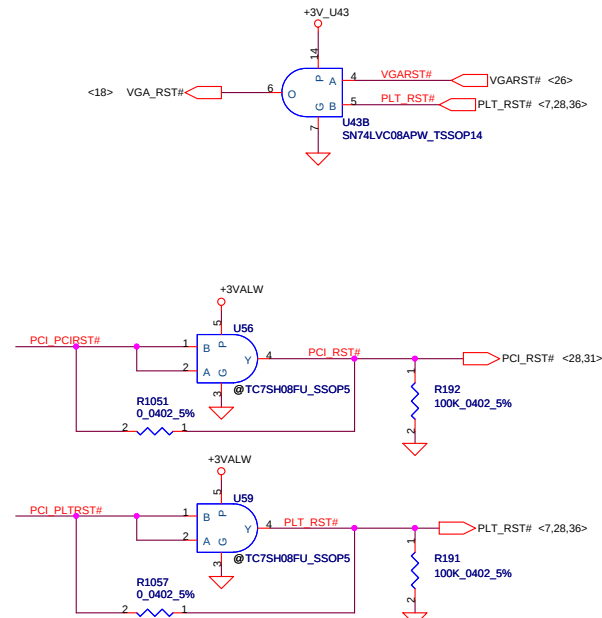
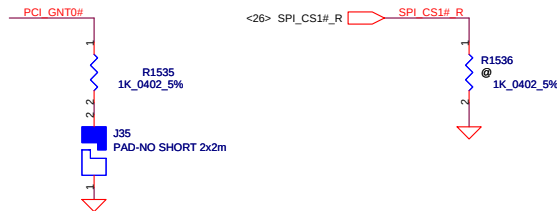
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Issued Date		2006/09/25	Deciphered Date		2006/09/25		Title
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						Size	Document Number
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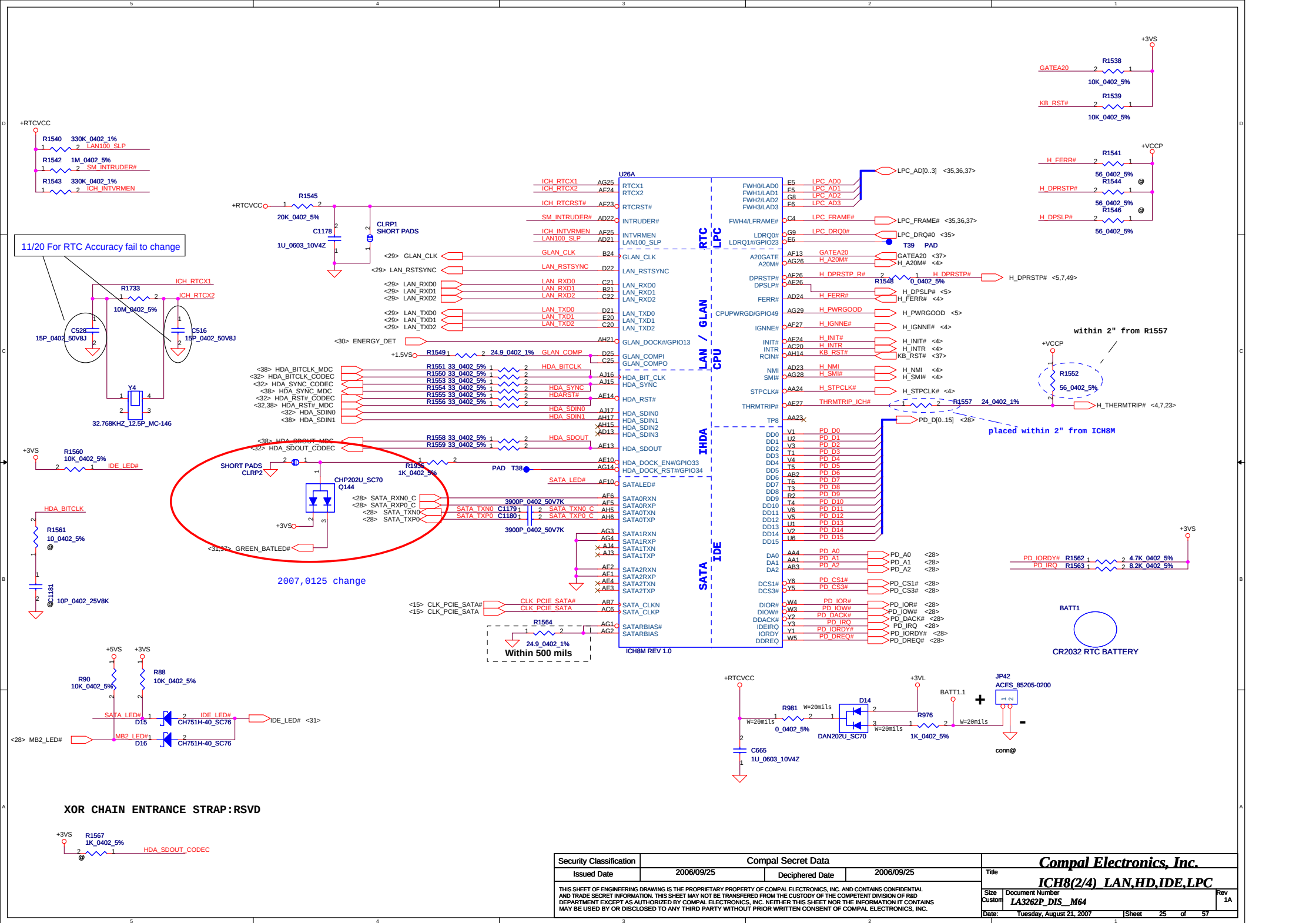
A16 swap override Strap	
PCI_GNT3#	Low= A16 swap override Enble High= Default*

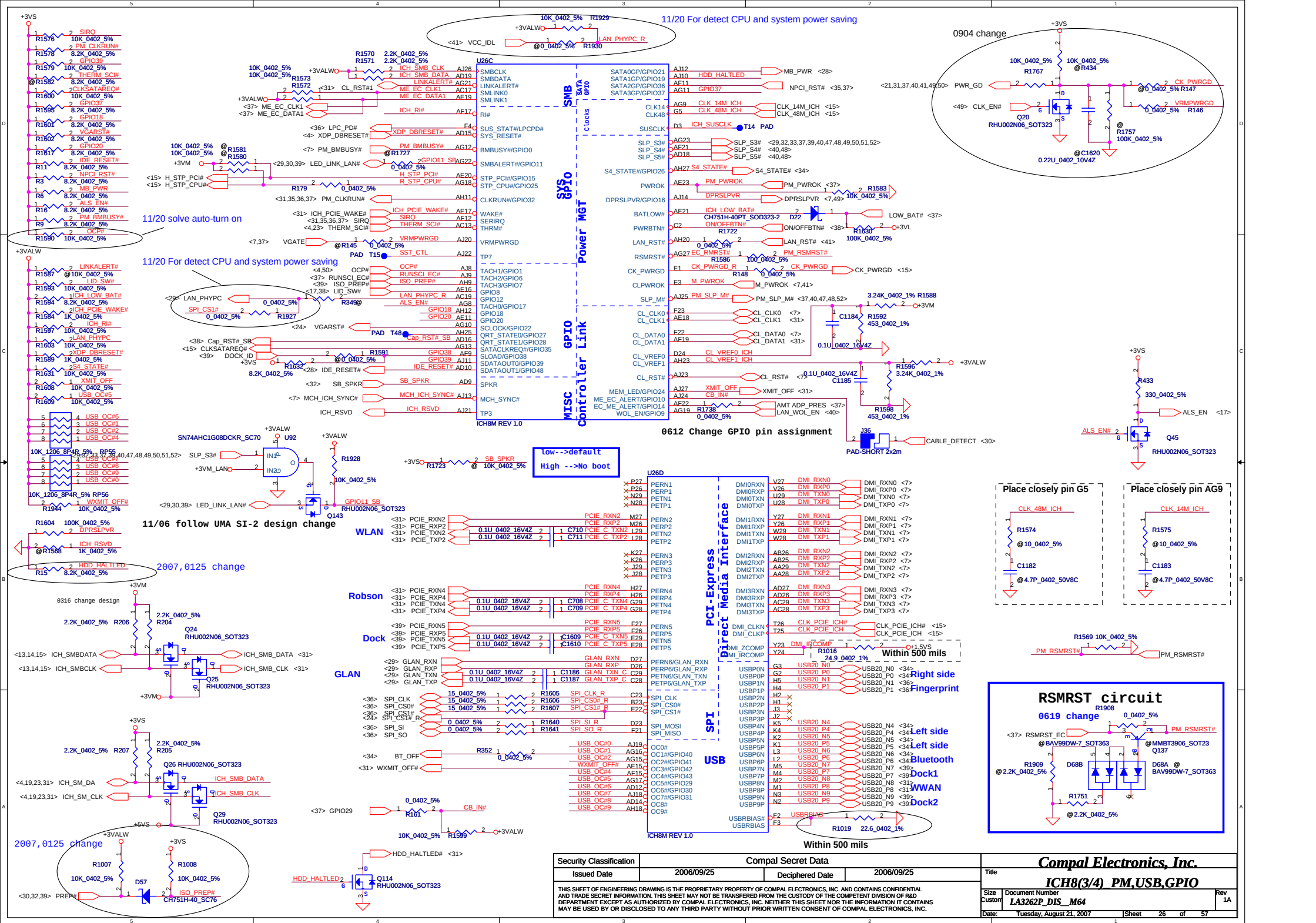


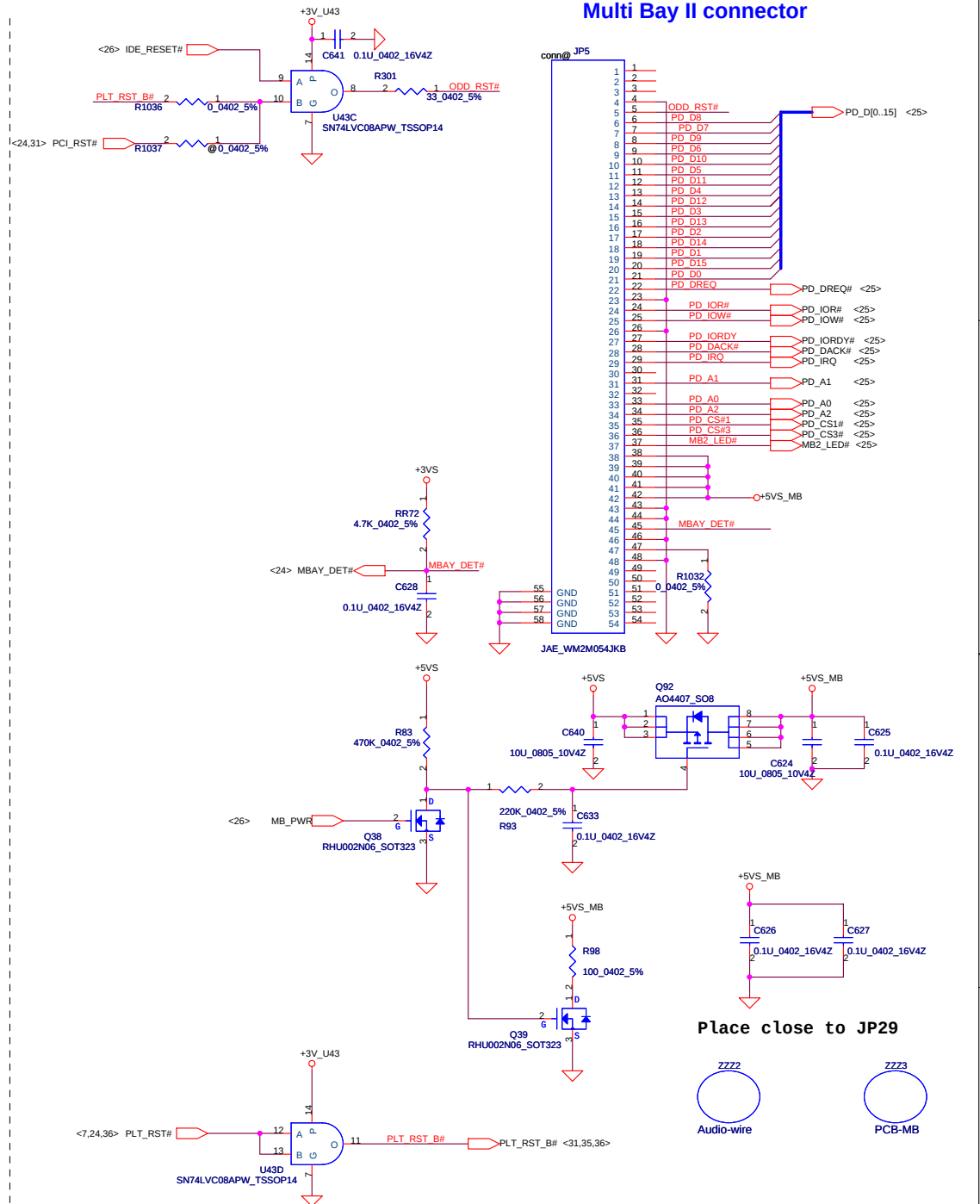
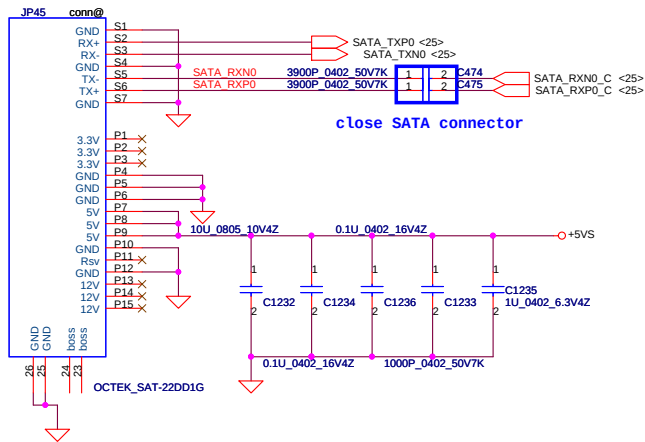
Boot BIOS Strap		
PCI_GNT0#	SPI_CS#1	Boot BIOS Location
0	1	SPI *
1	0	PCI
1	1	LPC



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				LA3262P_DIS_M64 Date: Tuesday, August 21, 2007	Rev 1A Sheet 24 of 57

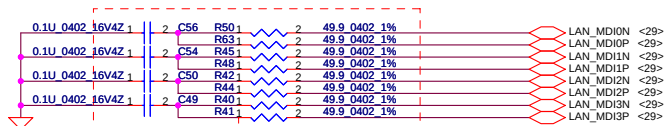
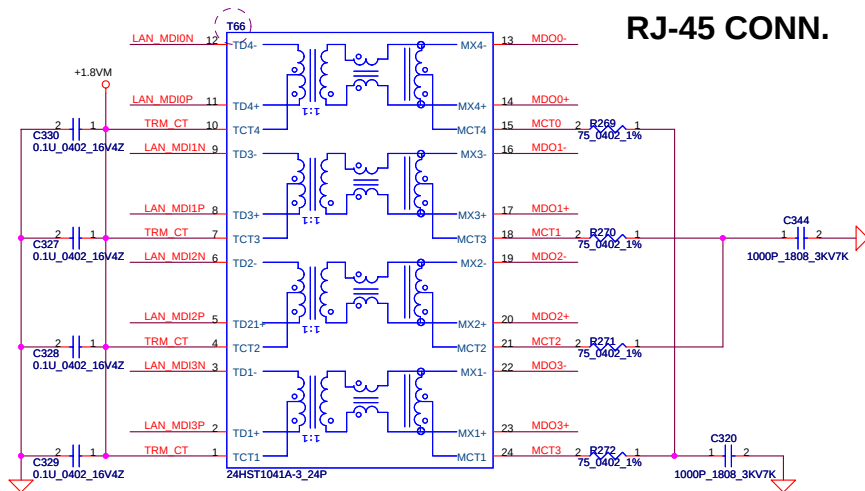






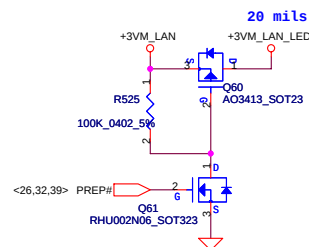
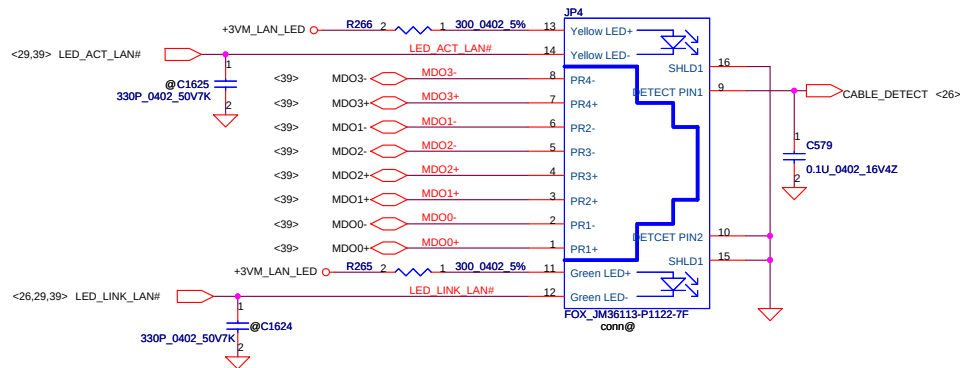
Security Classification		Compal Secret Data		Title	
Issued Date	2006/09/25	Deciphered Date	2006/09/25	HDD & CDROM	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size Custom	Document Number
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RJ-45 CONN.



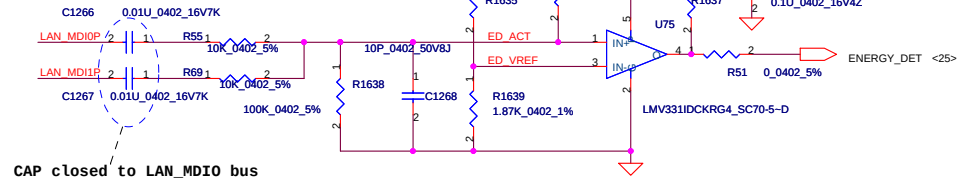
Layout Notice : Place termination as close as Intel 82566 as possible

Note: MDO[3..0]+/- signals should route to JP4 first then to JP30.

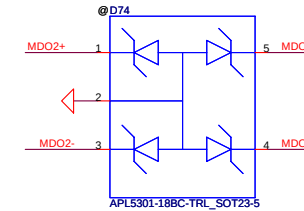
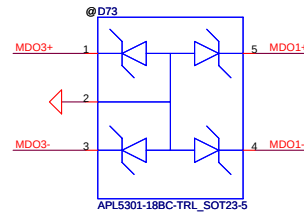


LAN ENERGY DET

02/27 change



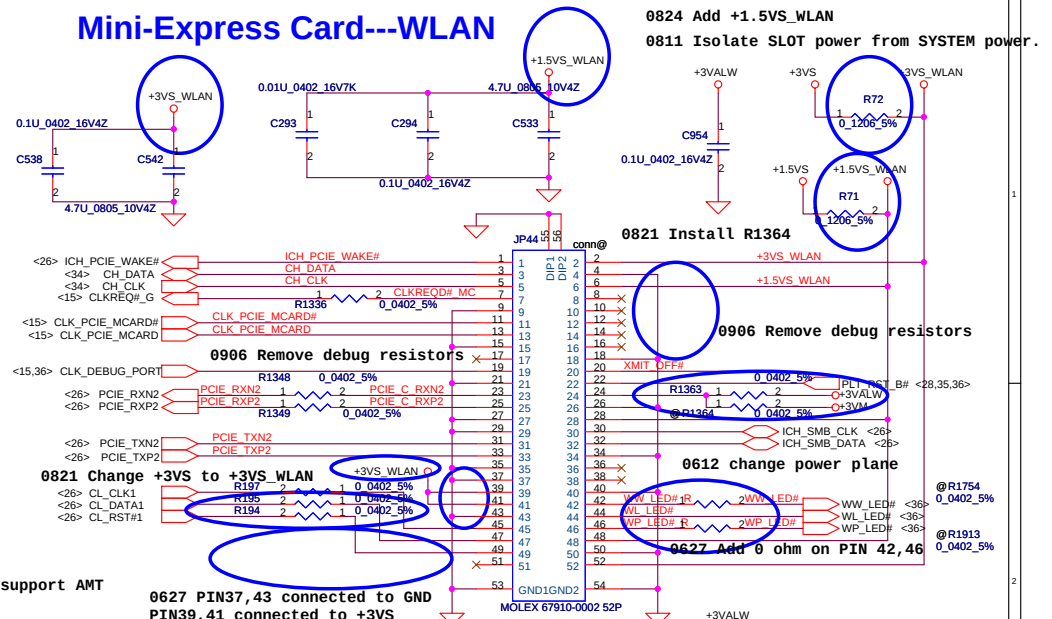
CAP closed to LAN_MDI0 bus



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Issued Date				2006/09/25				Title			
Deciphered Date				2006/09/25				Magnetic & RJ45/RJ11			
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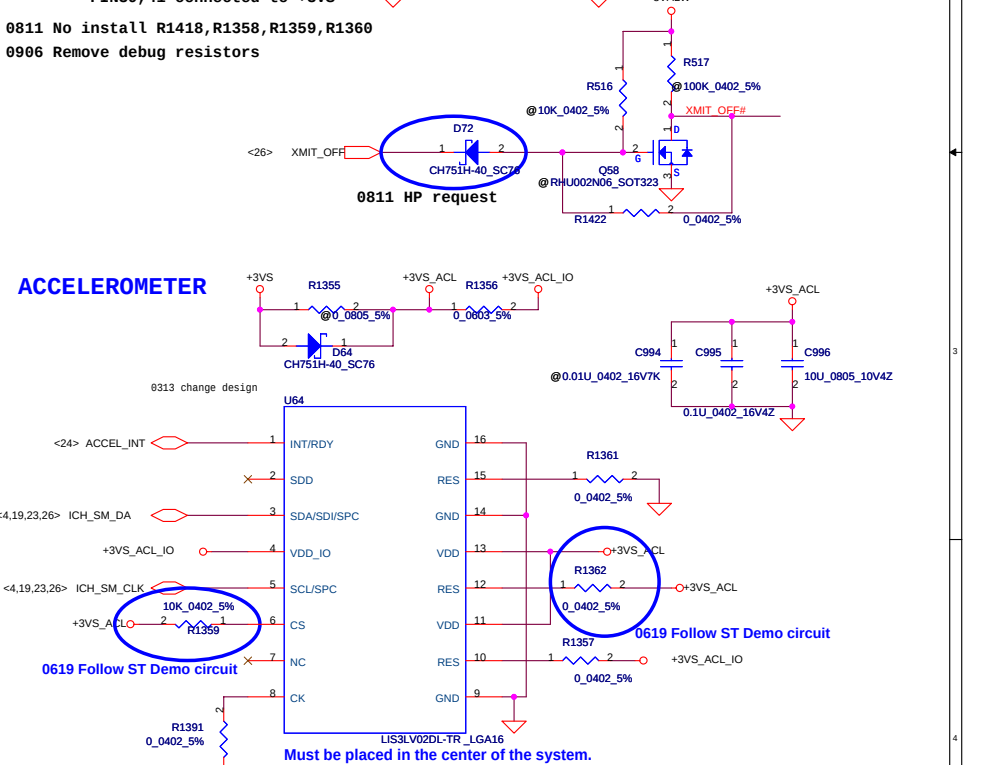
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Mini-Express Card---WLAN

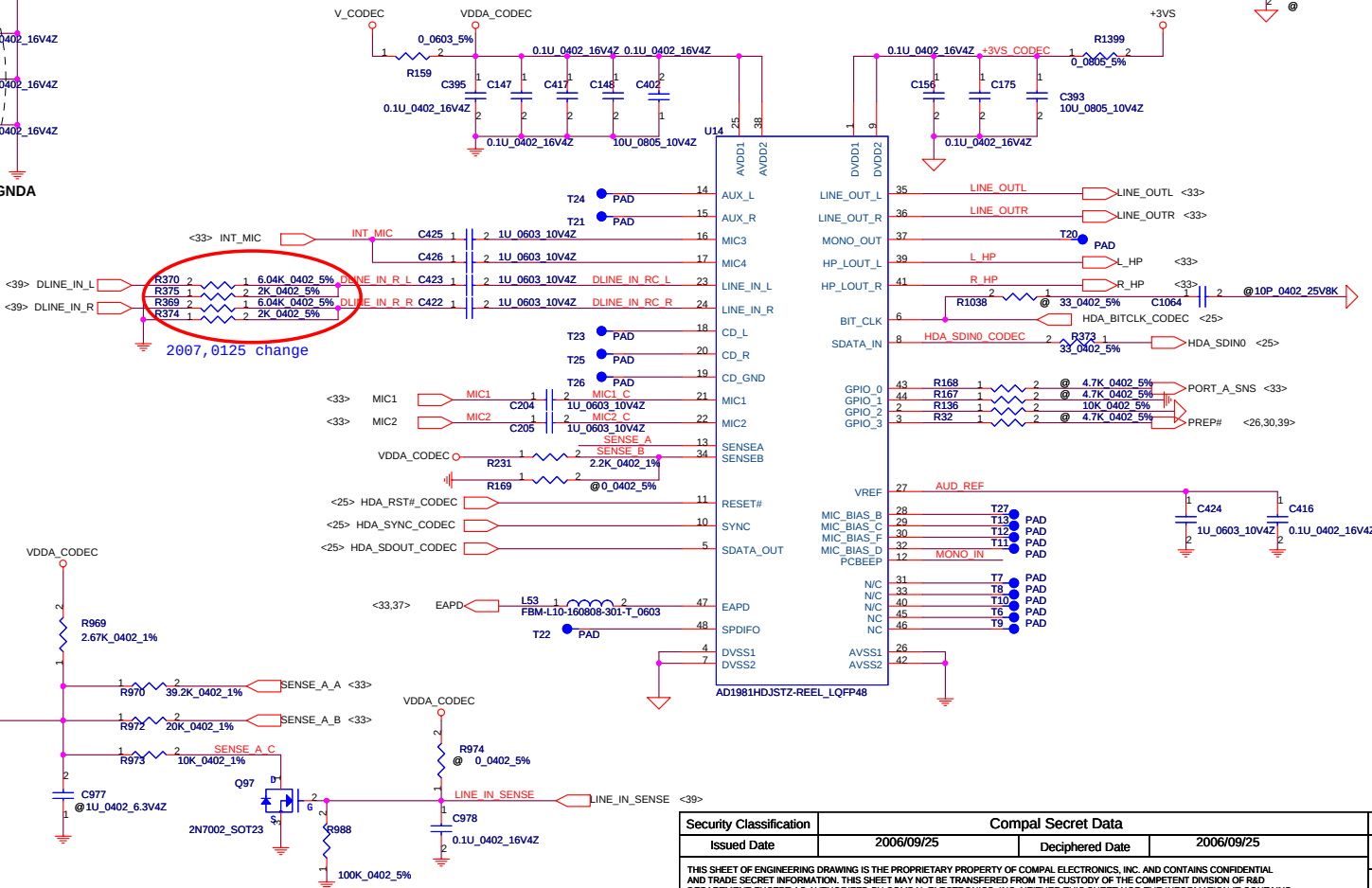
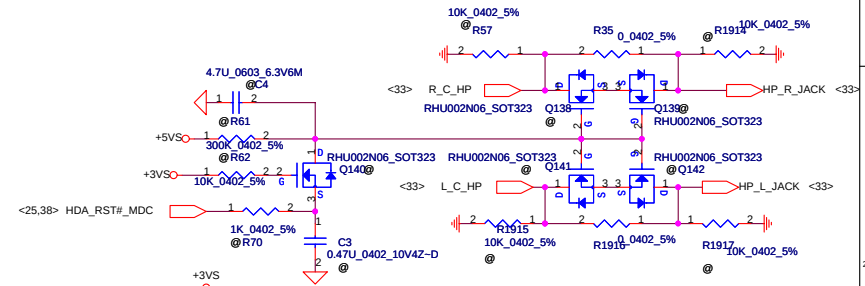
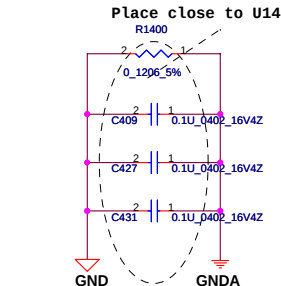
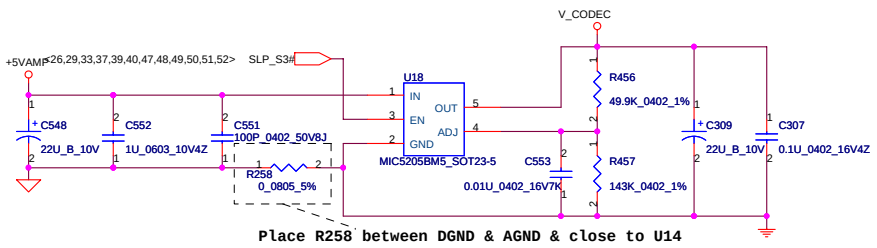
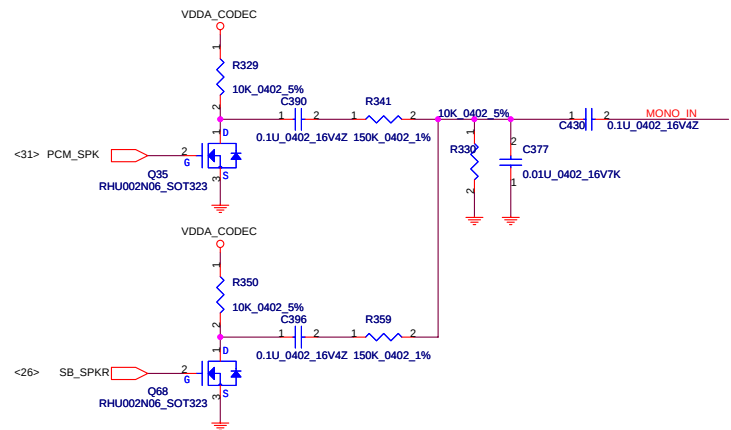


0811 Isolate SLOT power from SYSTEM power.

ACCELEROMETER

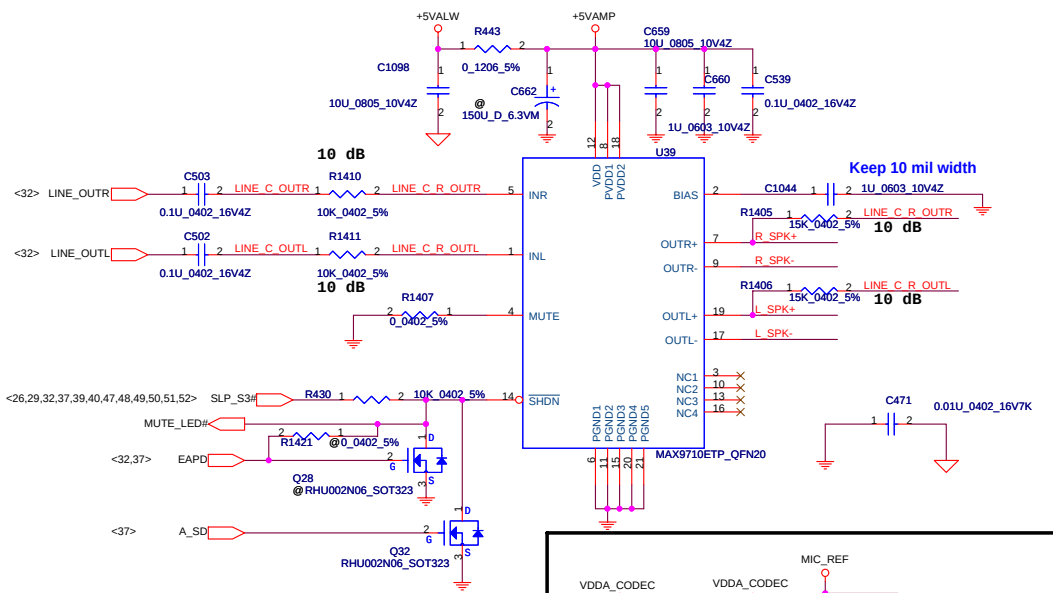


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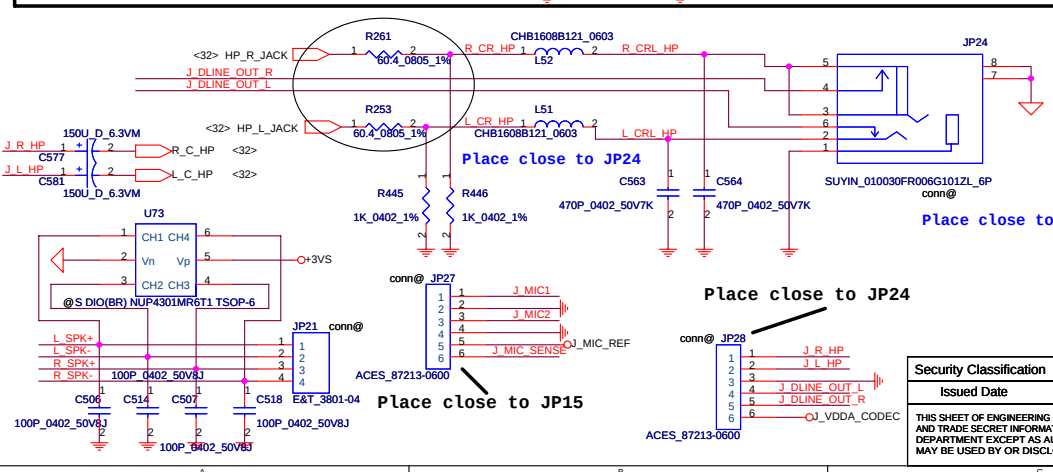
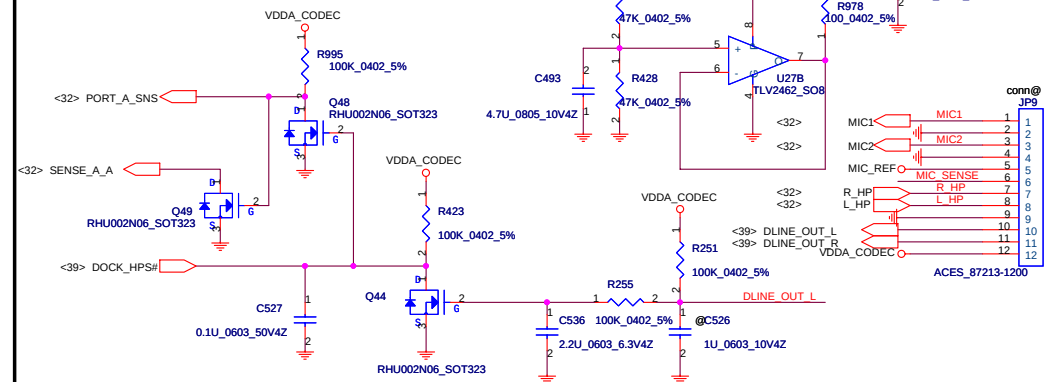


PORT	PLACE TO
MONO_OUT	X
PORT A	HP OUT, DOCK HP LO
PORT B	M/B MIC
PORT C	DOCK LI
PORT D	M/B SPK
PORT E	X
PORT F	Internal MIC

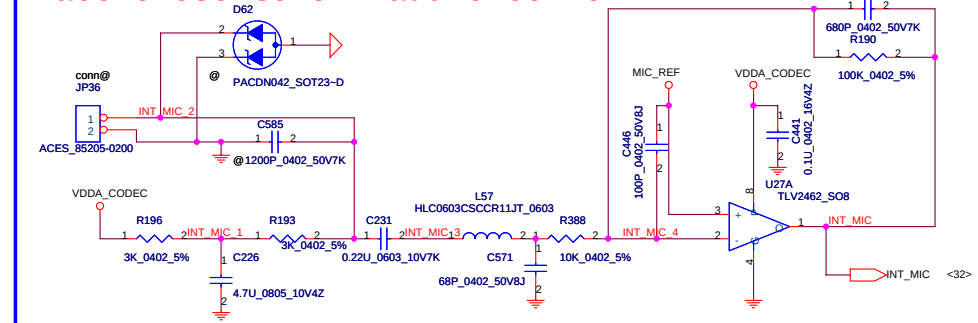
AMP. FOR INTERNAL SPEAKER



Place close to U14 audio CODEC

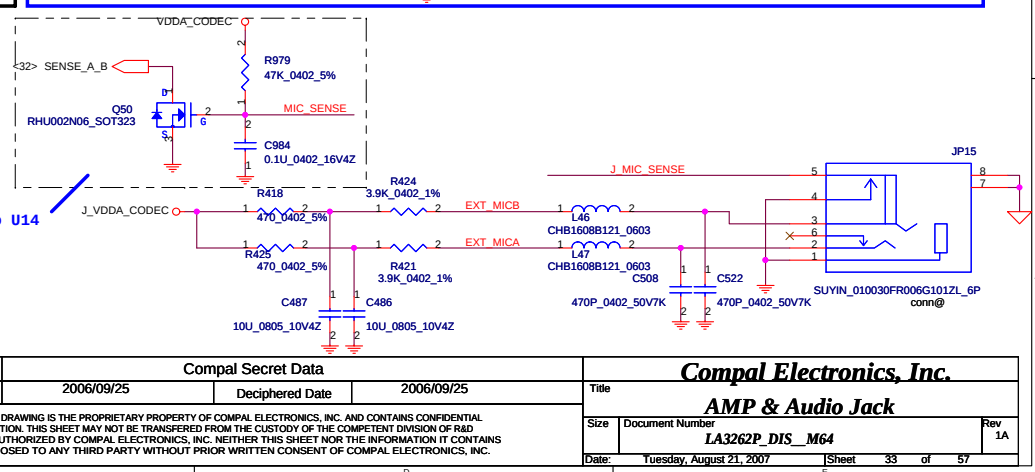
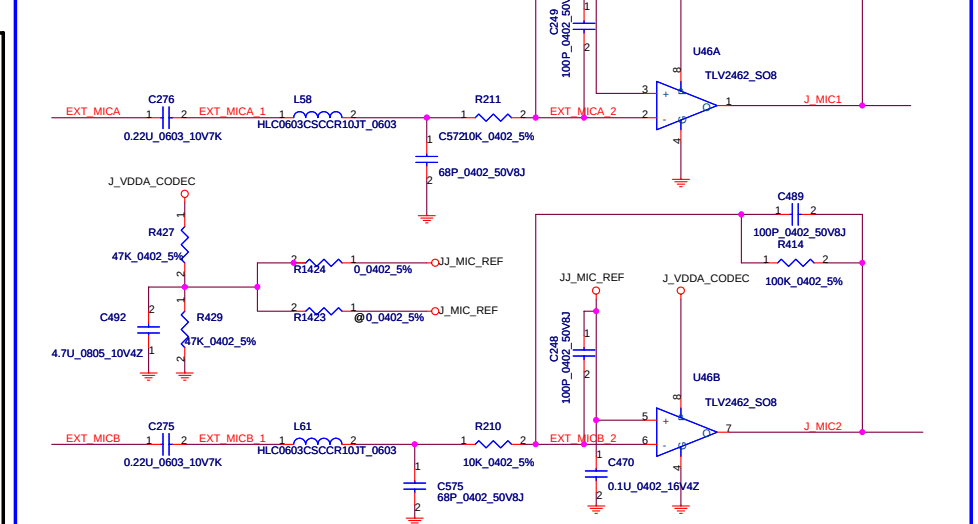


AMP. FOR INTERNAL MICROPHONE
Place close to U14 audio CODEC



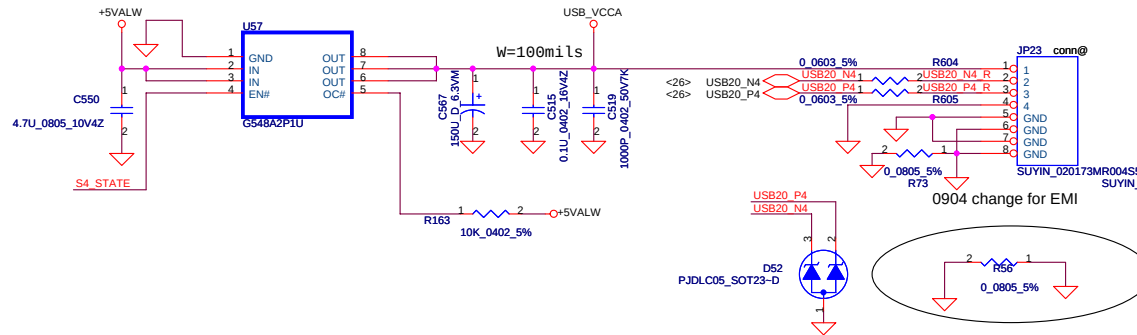
AMP. FOR EXTERNAL MICROPHONE

Place close to JP15

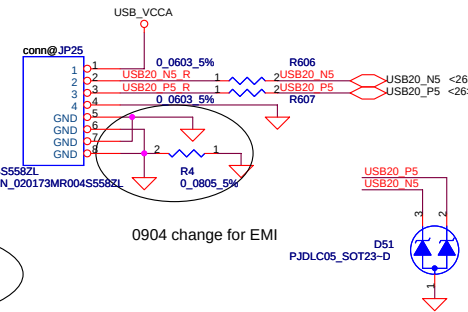


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					LA3262P_DIS_M64 Date: Tuesday, August 21, 2007
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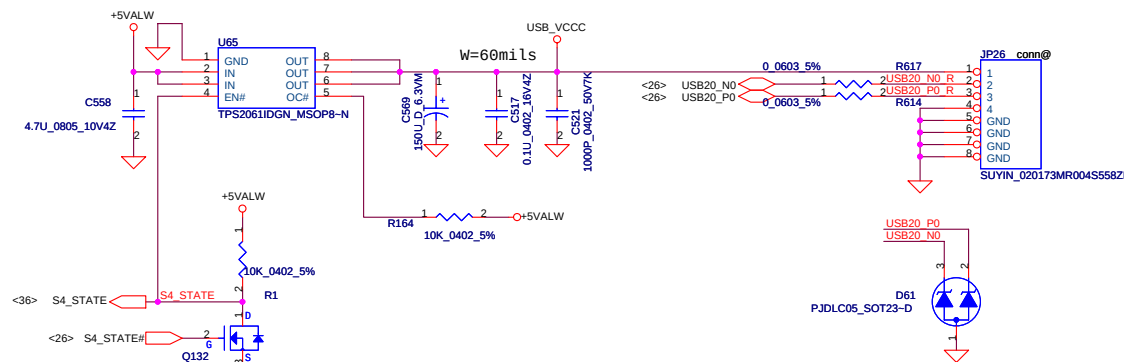
Left side USB CONNECTOR 0



Left side USB CONNECTOR 1



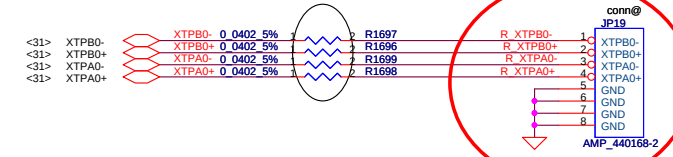
Right side USB CONNECTOR 0



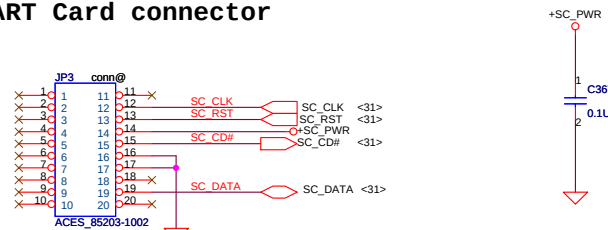
1394 connector

11/06 fix DB2 1394 can not detect issue

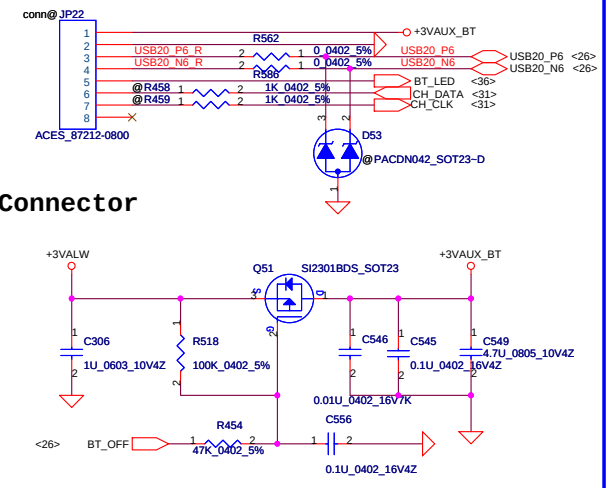
2007,0125 change



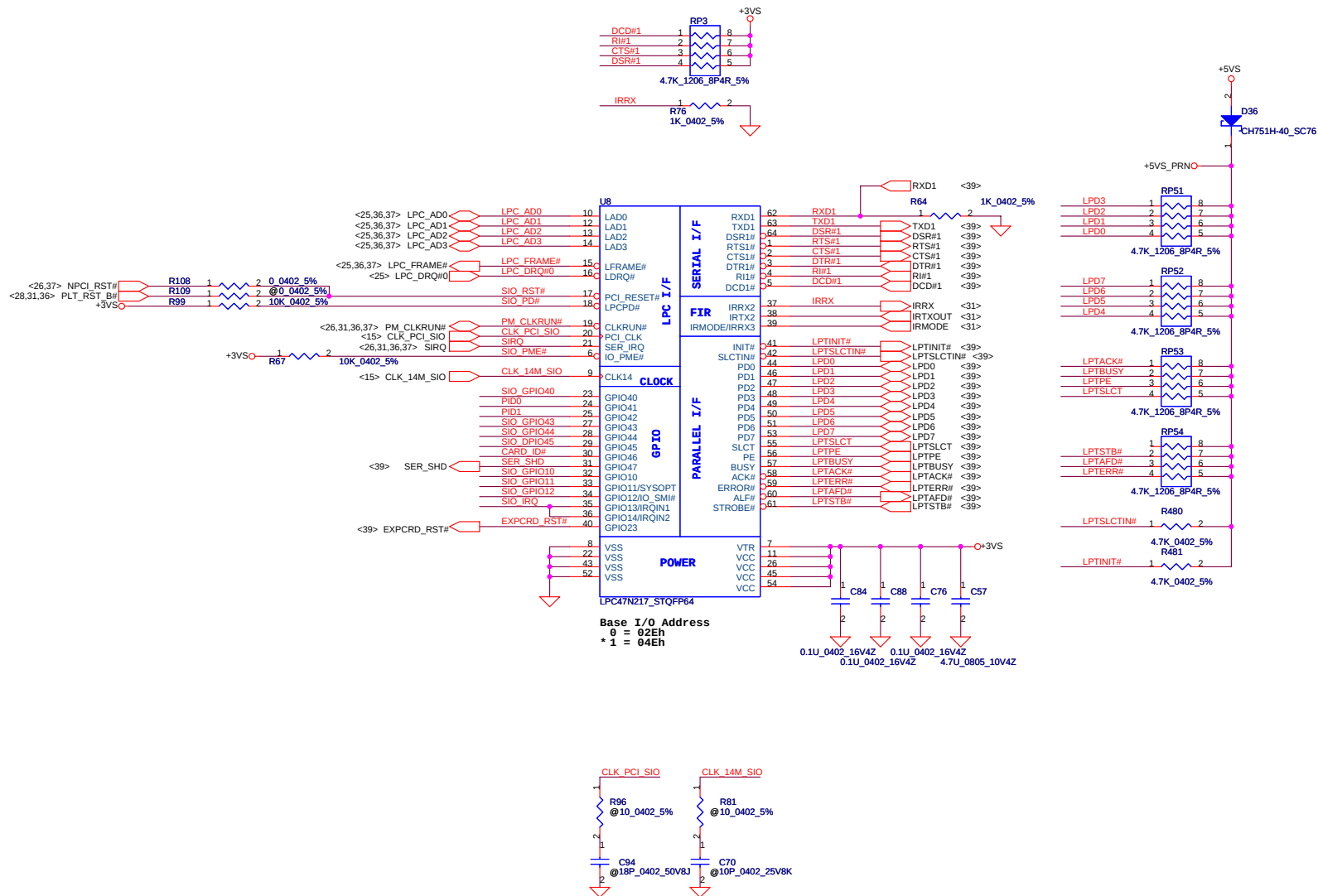
SMART Card connector



BT Connector

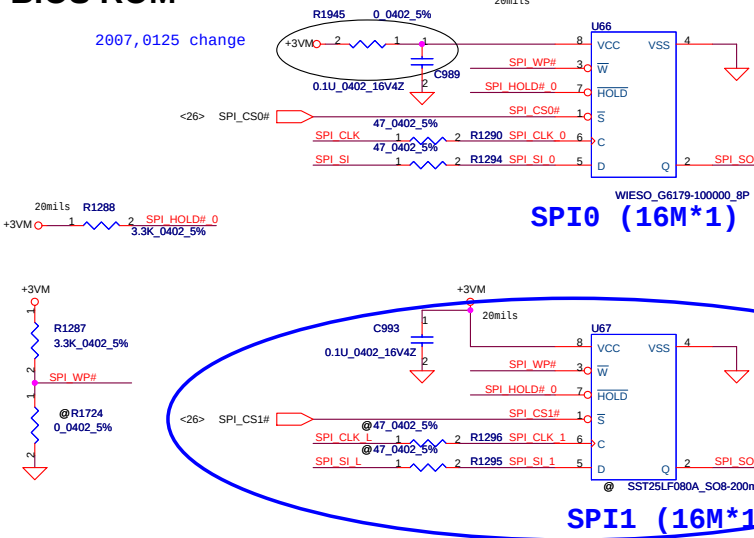


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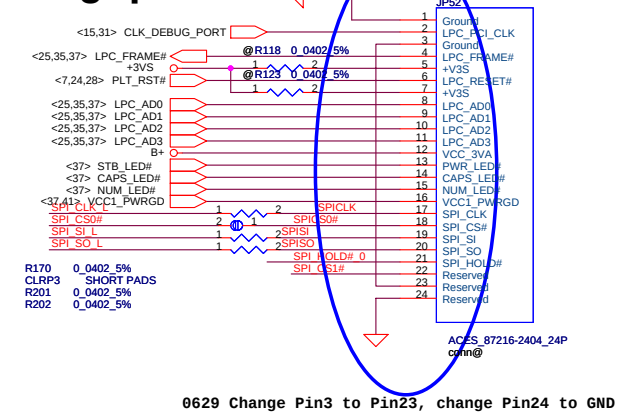
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BIOS ROM

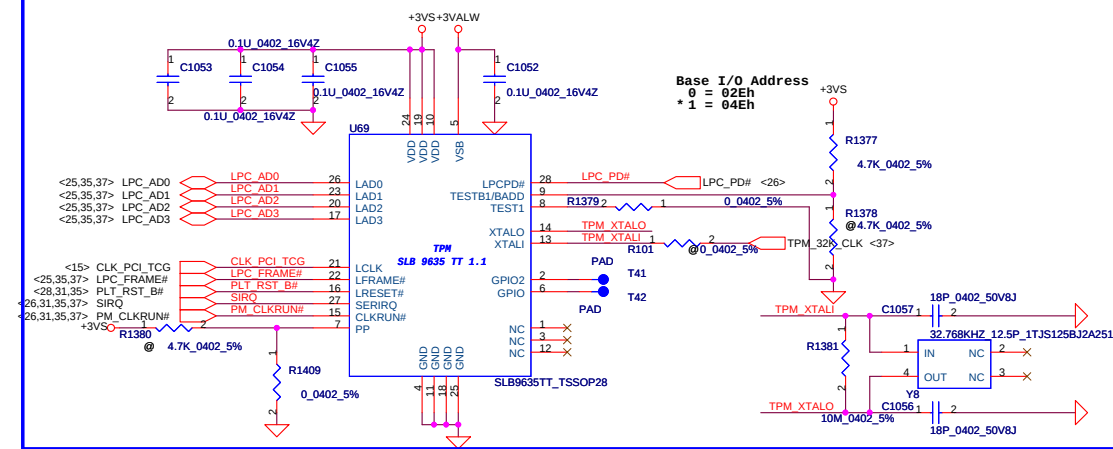


0821 SPI1 no install
0996 SPI1 install

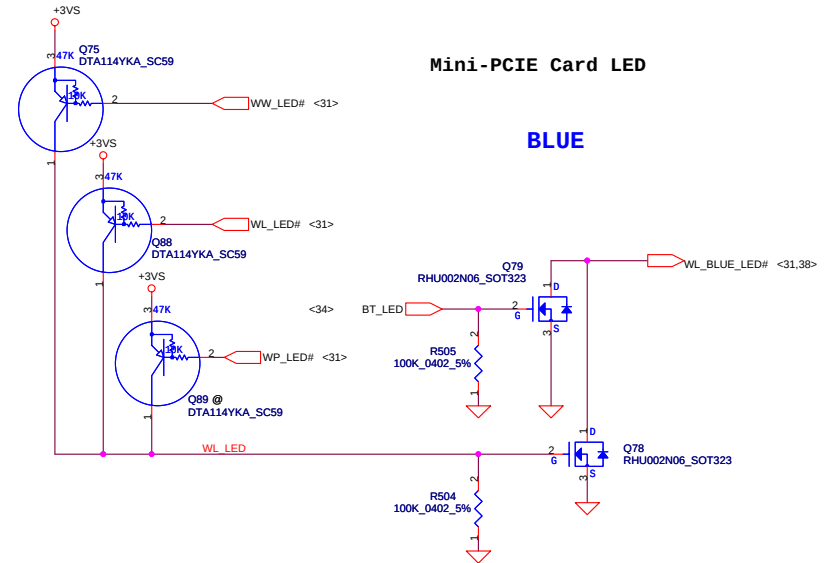
Debug port



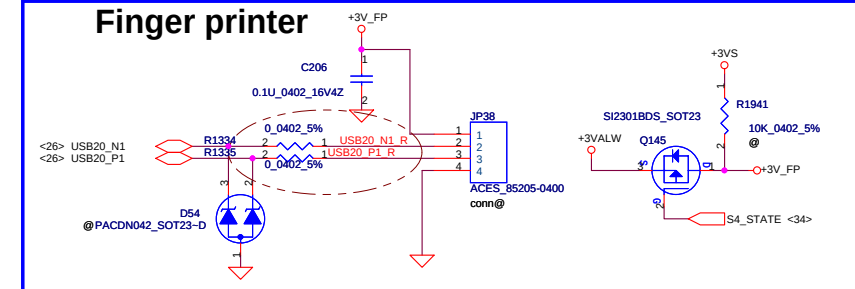
TPM1.2



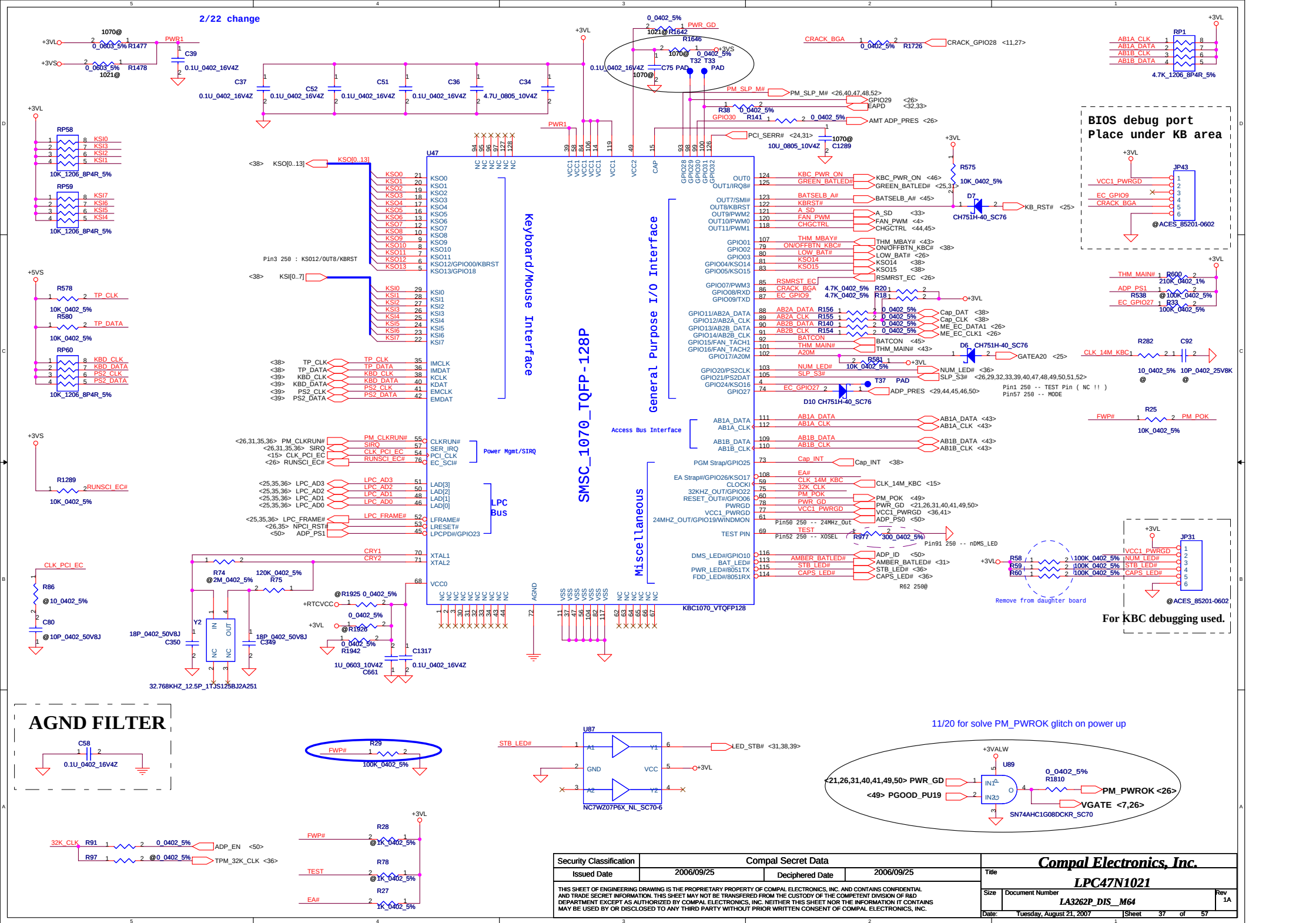
Mini-PCIE Card LED



Finger printer

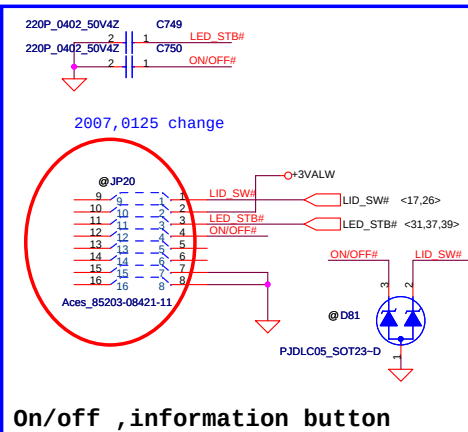
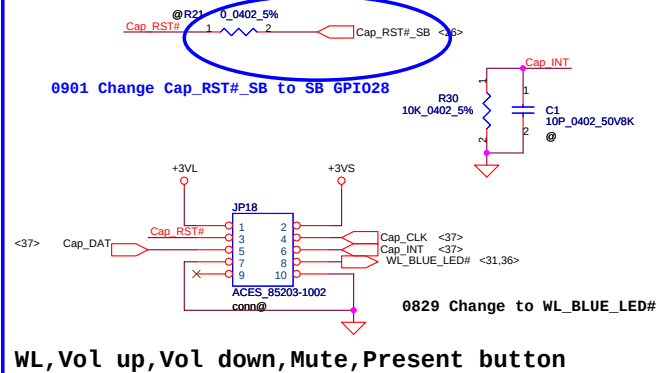


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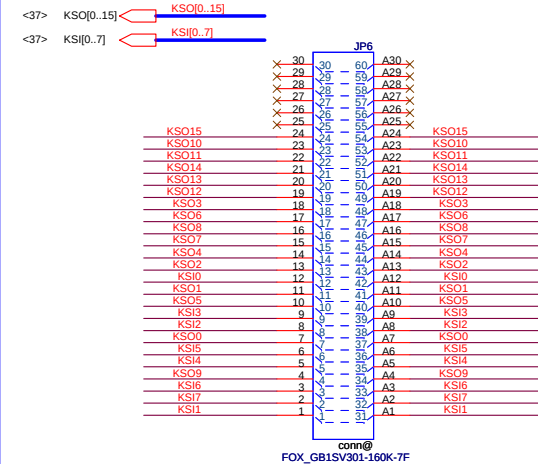


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				Size	Document Number
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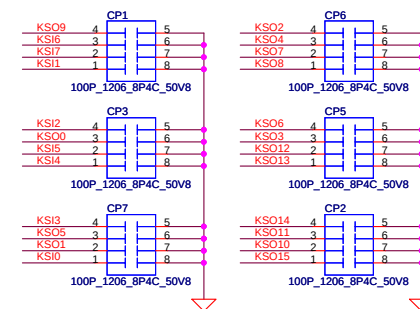
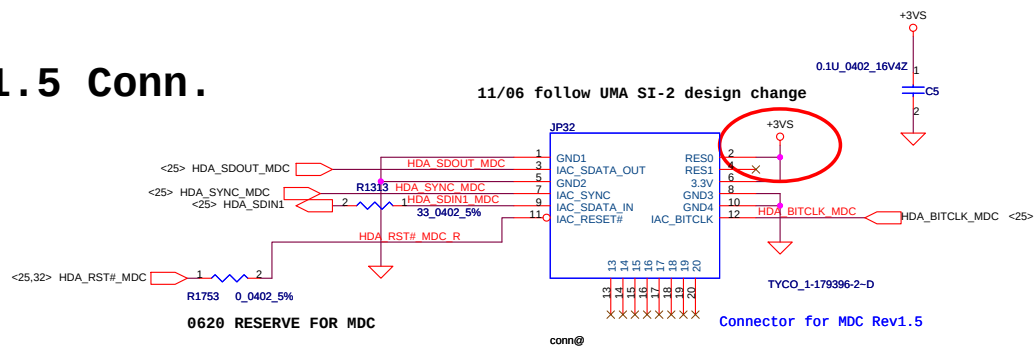
SWITCH BOARD. 0622 change



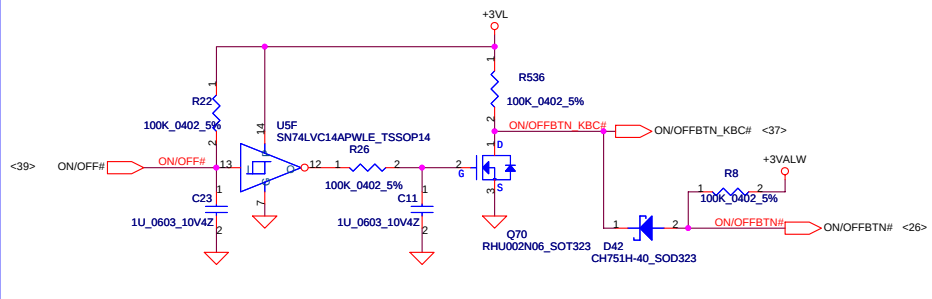
INT_KBD CONN.



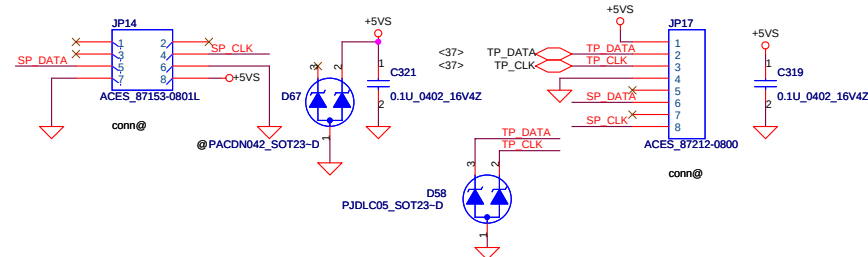
MDC 1.5 Conn.



Power button



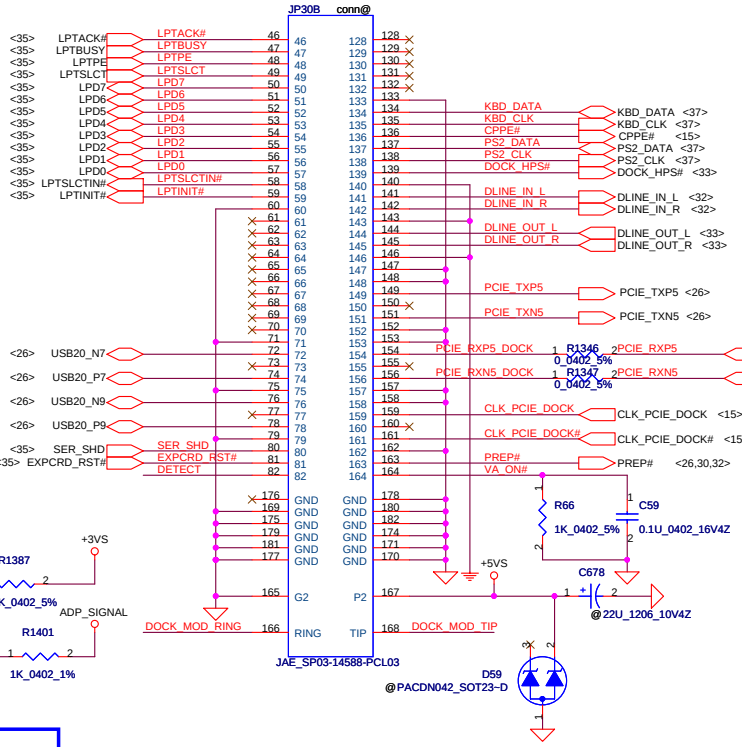
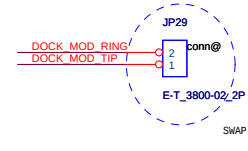
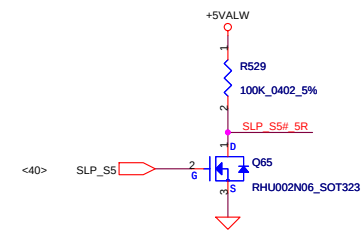
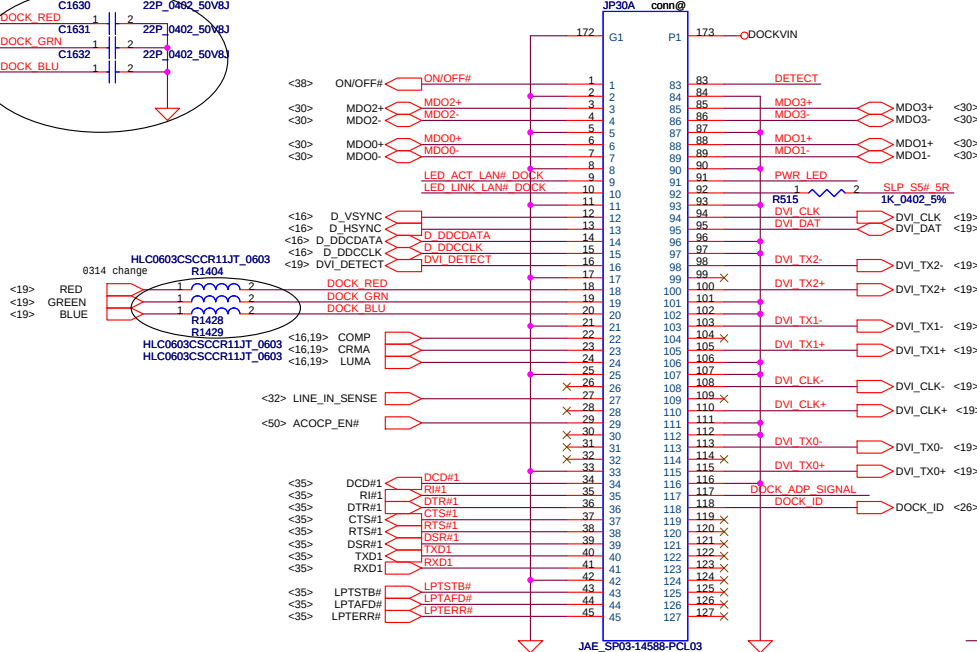
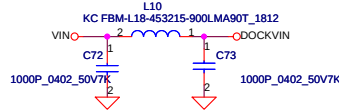
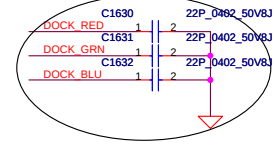
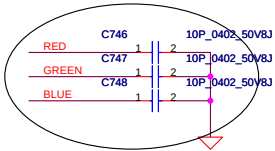
TrackPoint CONN.



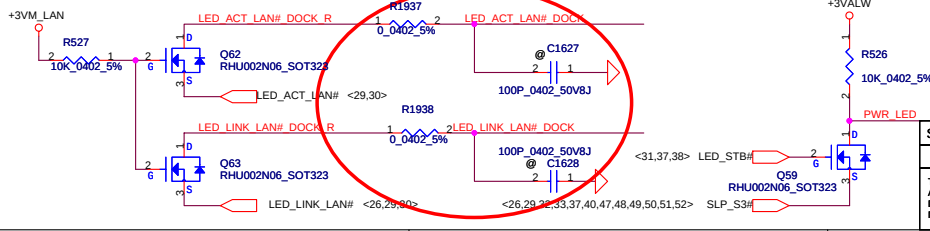
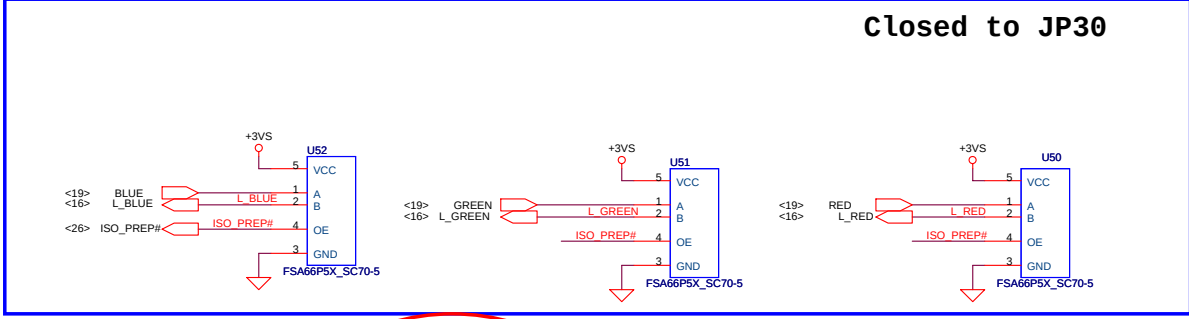
T/P BOARD.

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DOCK CONN. 184PIN

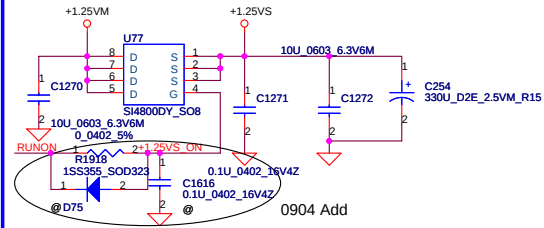


Closed to JP30

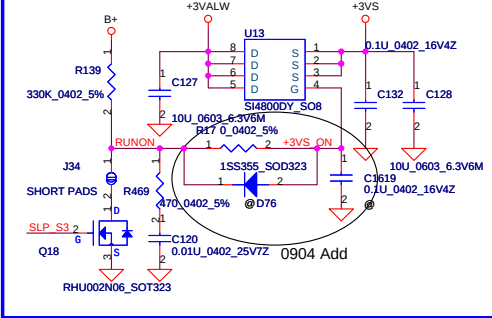


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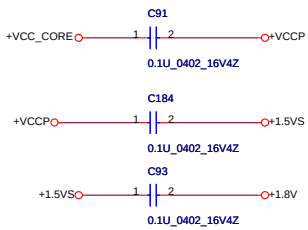
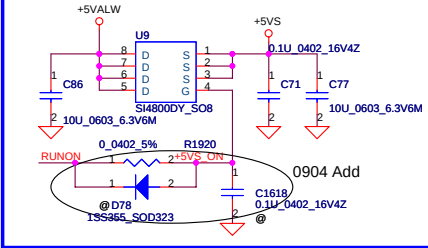
+1.25VM to +1.25VS Transfer



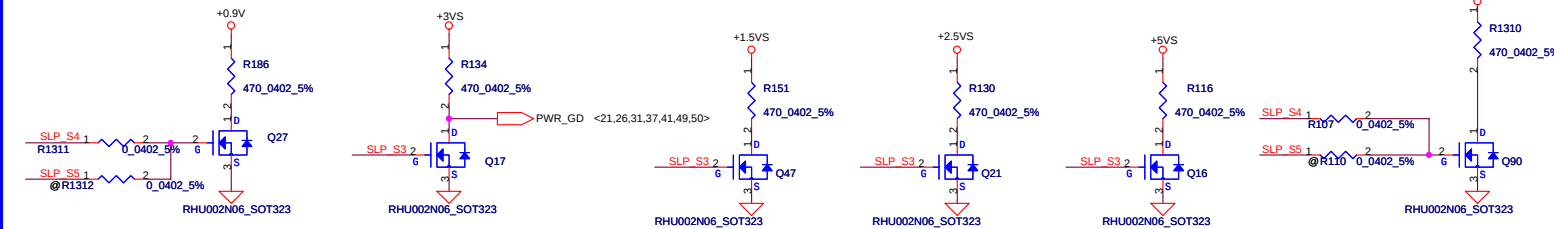
+3VALW to +3VS Transfer



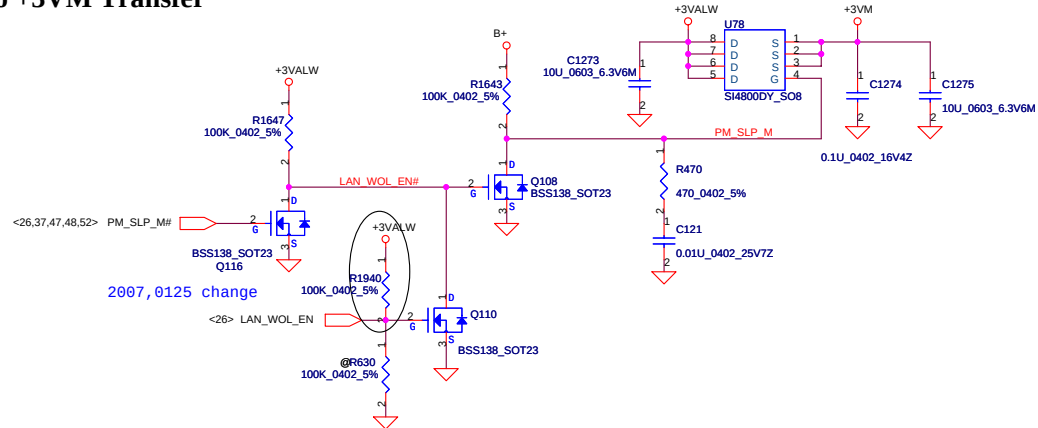
+5VALW to +5VS Transfer



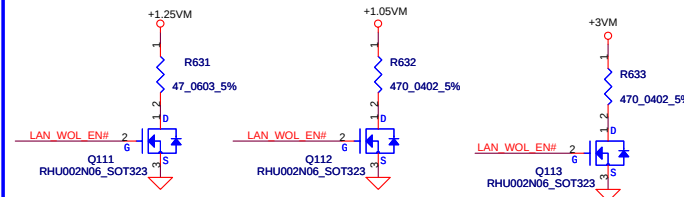
Discharge circuit-1



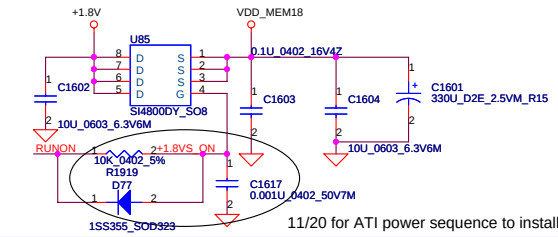
+3VALW to +3VM Transfer



Discharge circuit-2 for V-M



+1.8V to VDD_MEM18 Transfer



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[illegible]

LAN_RST circuit

11/20 Enable ACBS (power management for NIC)

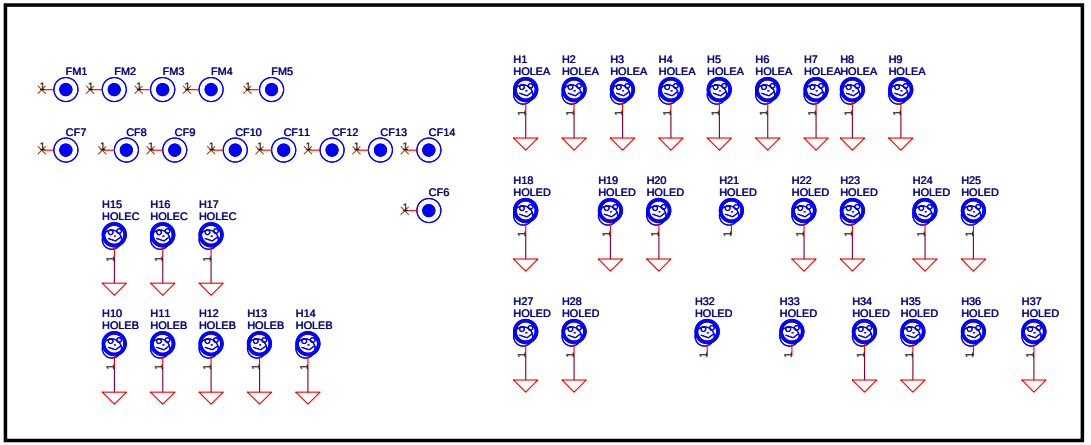
Need be tune to 10msec time delay

KBC PWR_OK circuit

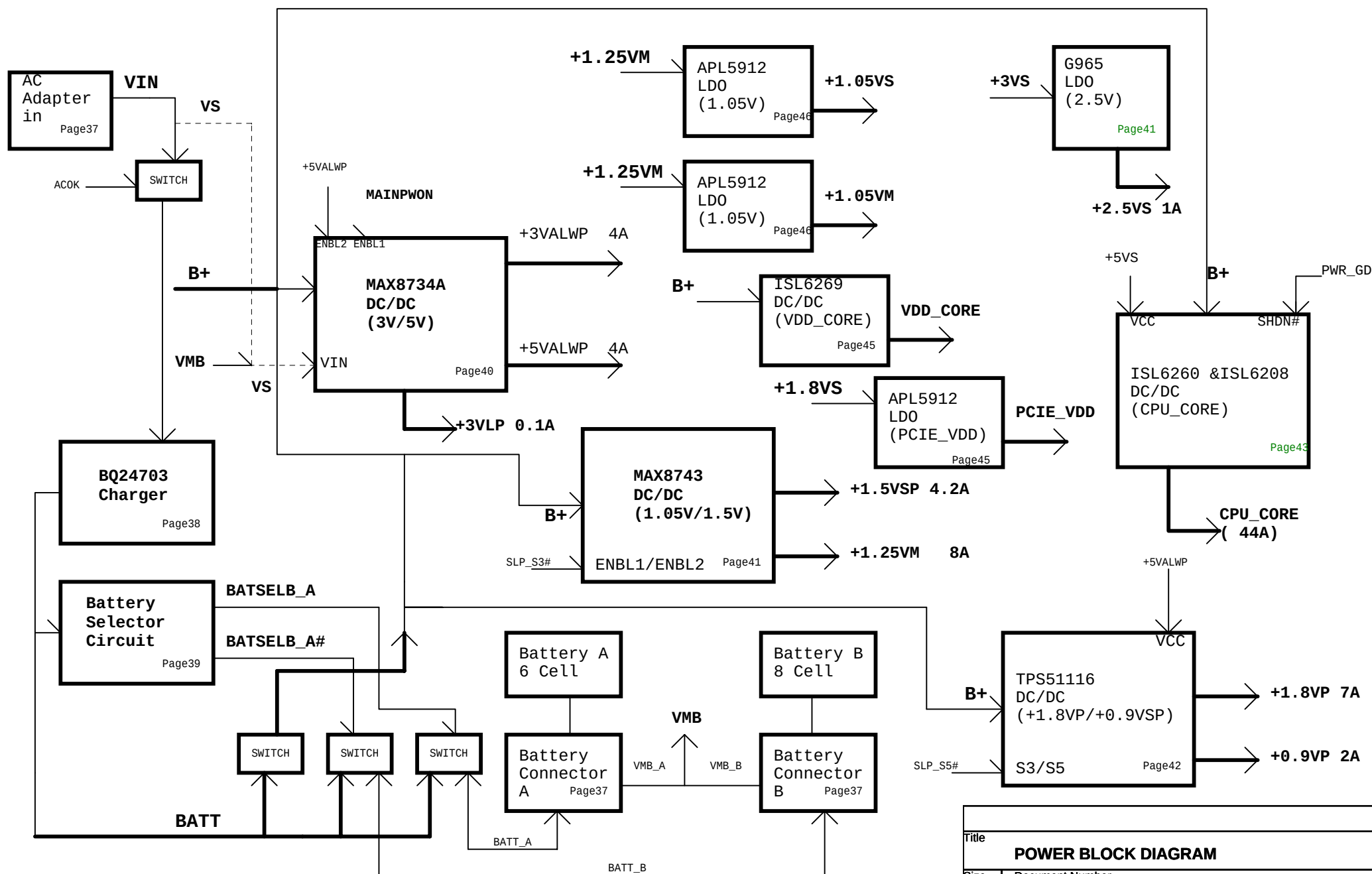
The diagram illustrates the KBC PWR_OK circuit. It starts with a +3VL input connected to a 100K_0402_5% resistor (R24) and a 0.1uF_0402_16V4Z capacitor (C26) to ground. The output of the resistor is connected to the non-inverting input (pin 9) of a first SN74VLC14APWLE_TSSOP14 Schmitt trigger (U5D). The output of U5D (pin 8) is connected to the non-inverting input (pin 5) of a second SN74VLC14APWLE_TSSOP14 Schmitt trigger (U5C). The output of U5C (pin 6) is connected to a 100K_0402_5% resistor (R1939) to ground and a 0.0402_5% resistor (R1943) to the VCC1_PWRGD pin. A red circle highlights the second Schmitt trigger (U5C) and its associated resistors.

2119 Add Schmitt Trigger to eliminate glitch and pull down resistor

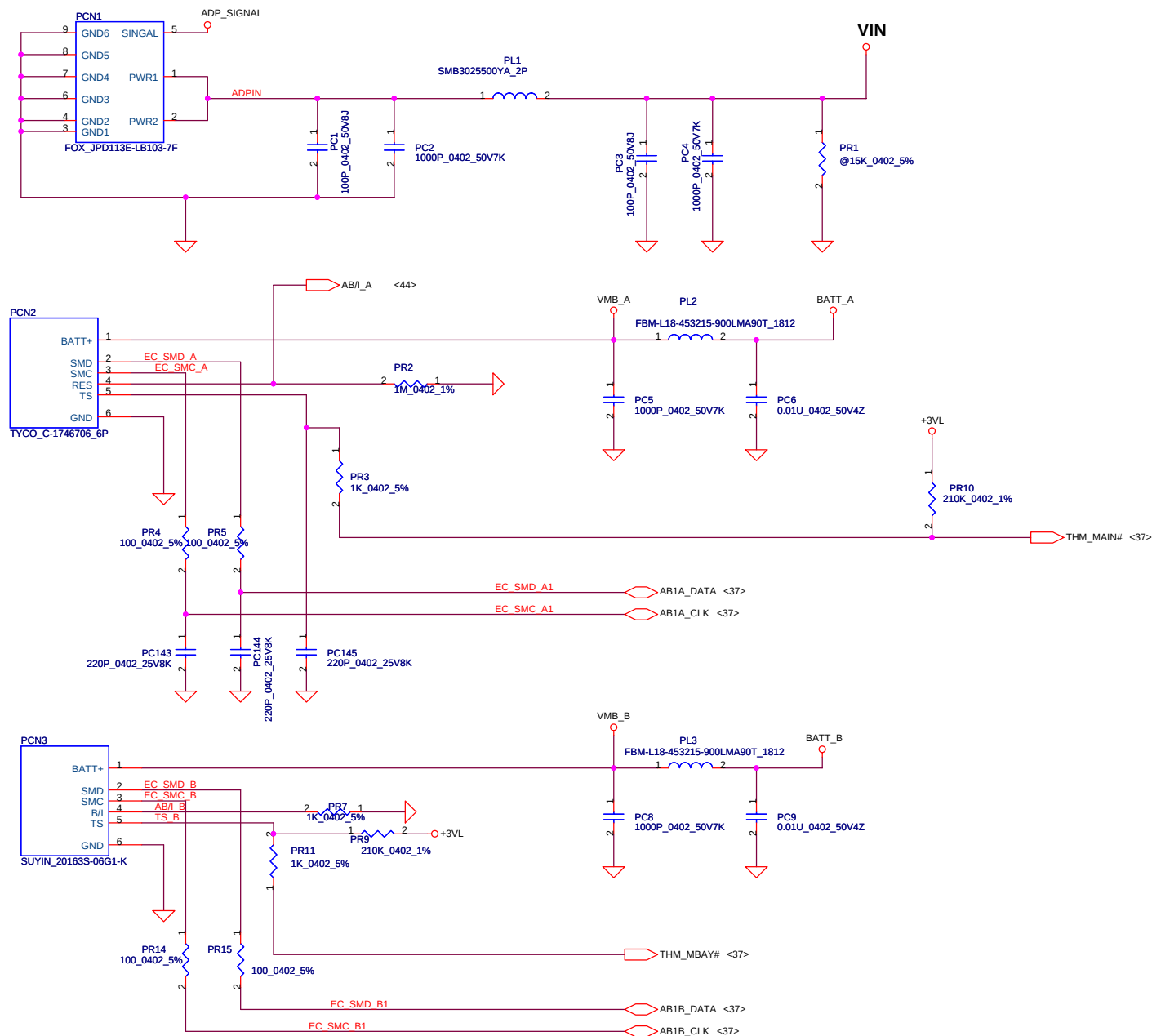
Energy Star for CPU



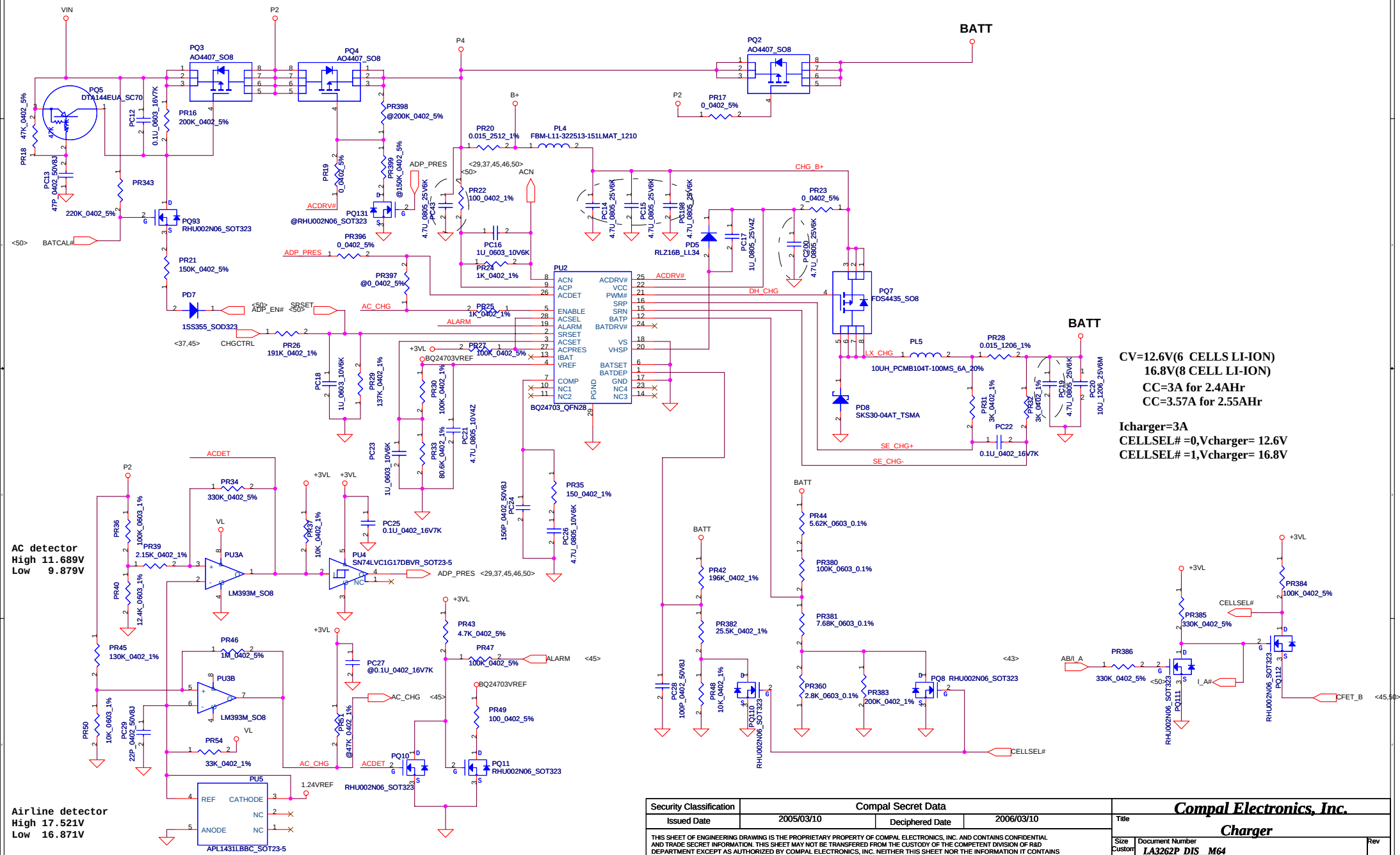
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						Size		Document Number				Rev	
								LA3262P_DIS_M64				1A	
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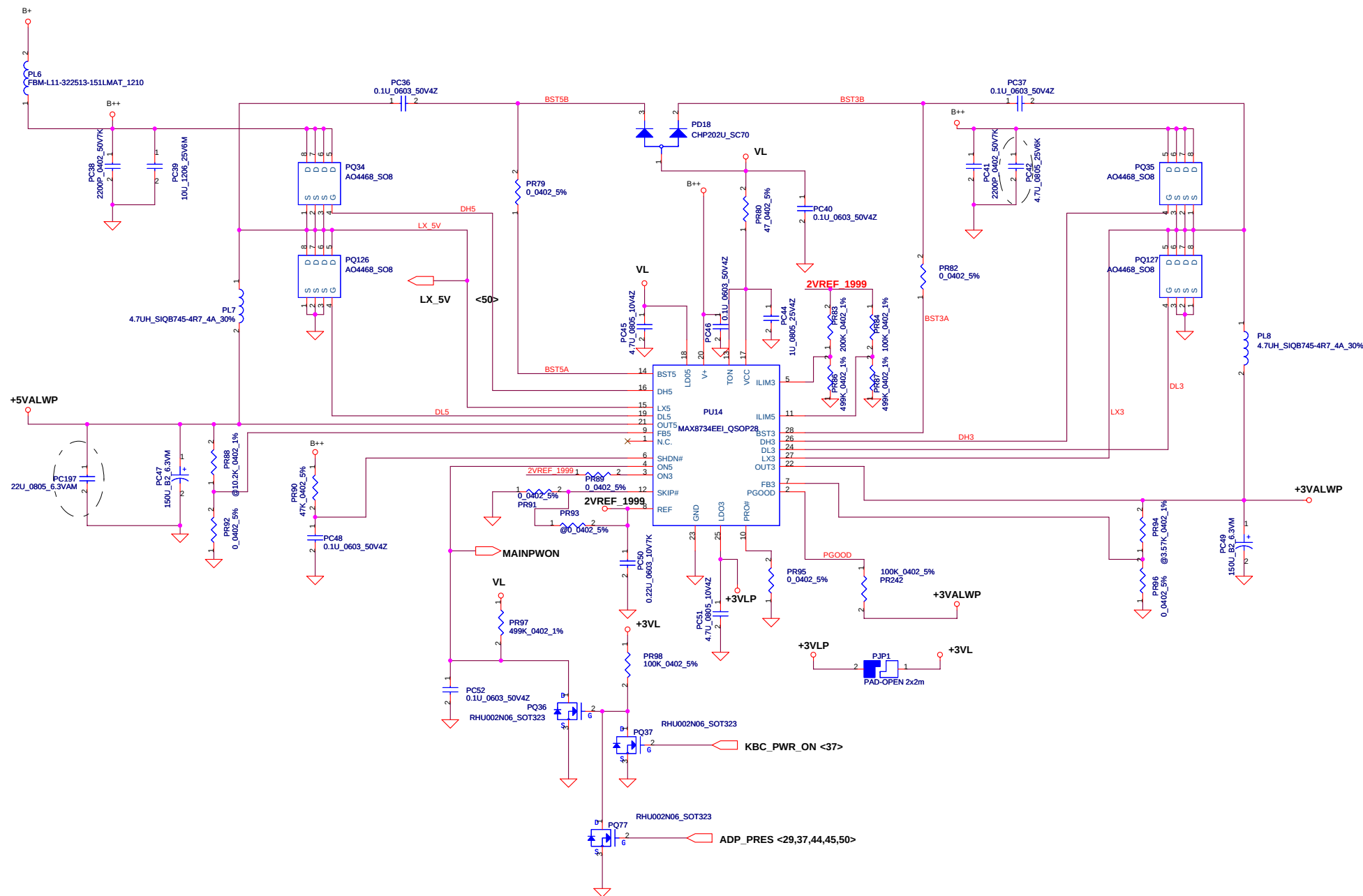
Title		
POWER BLOCK DIAGRAM		
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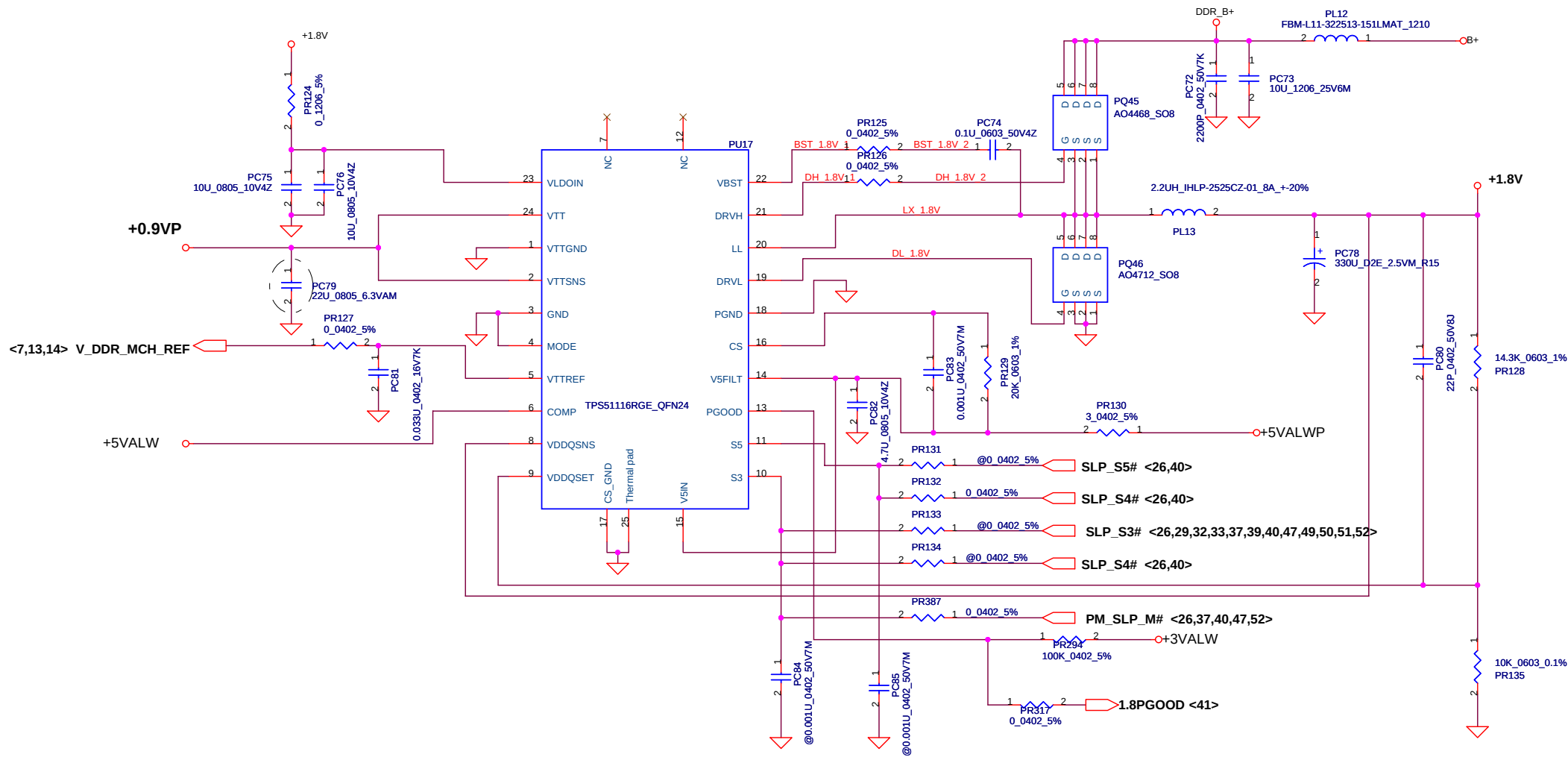
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								Custom	LA3262P_DIS_M64						
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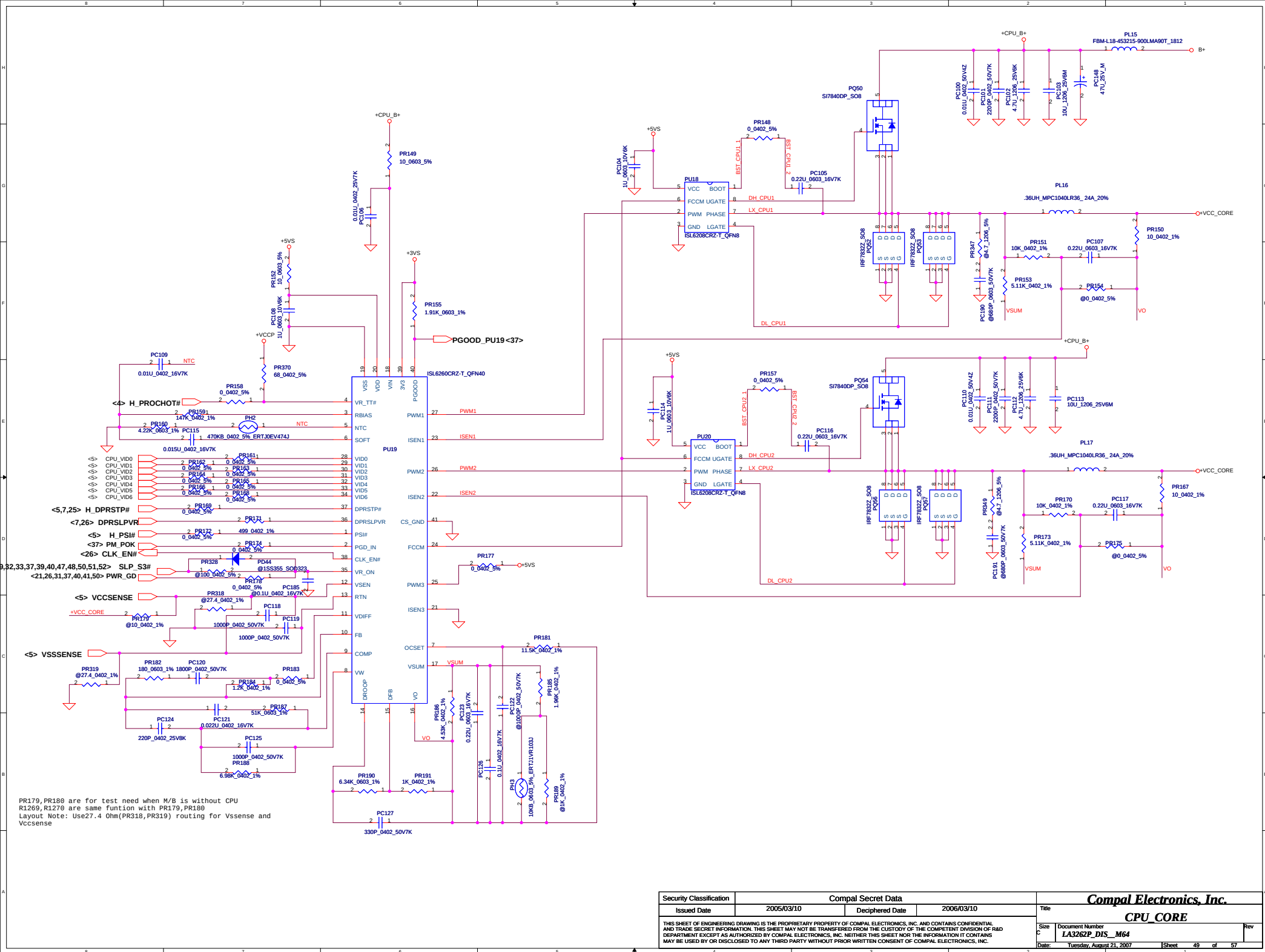
+3.3V/+5V



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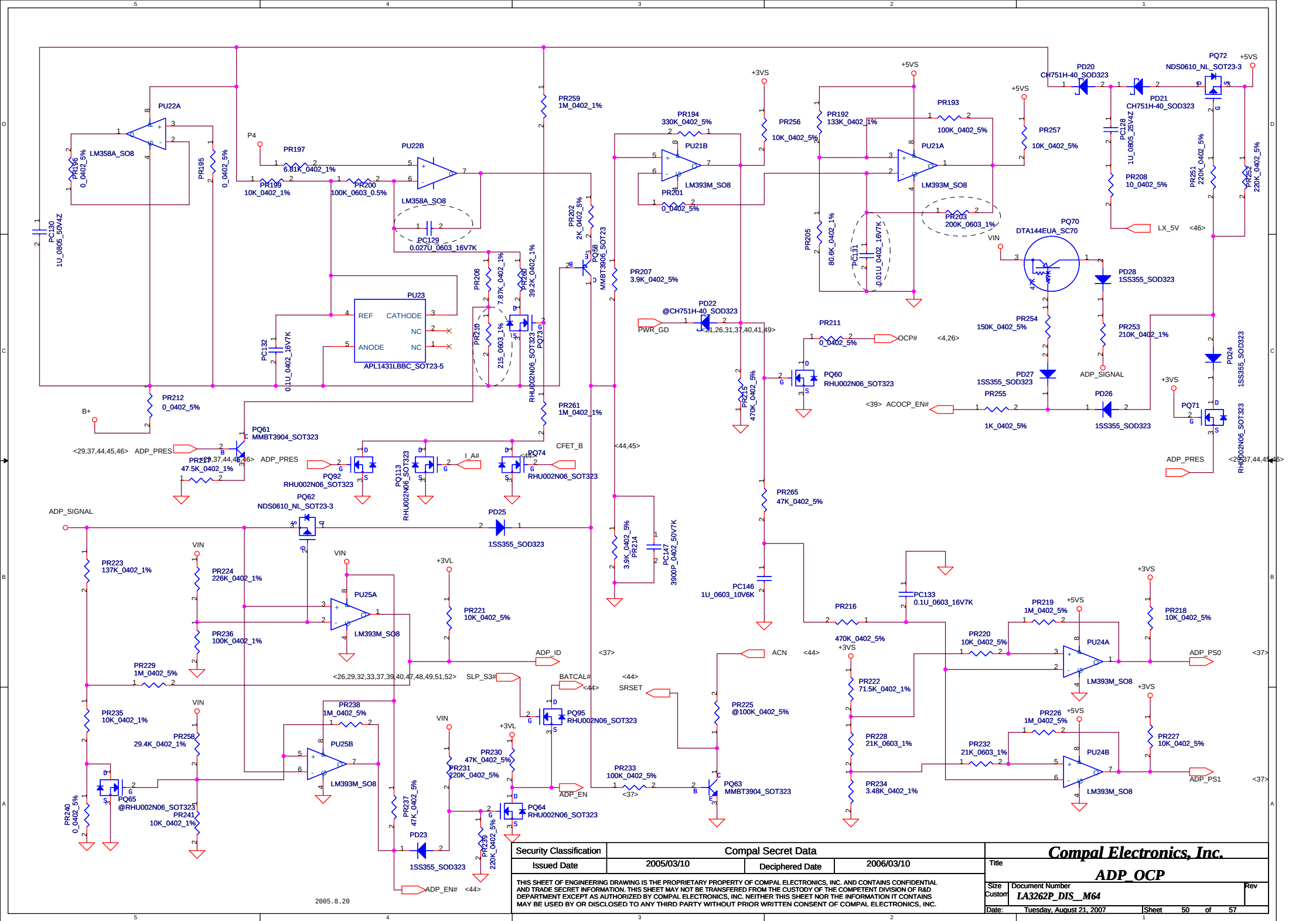


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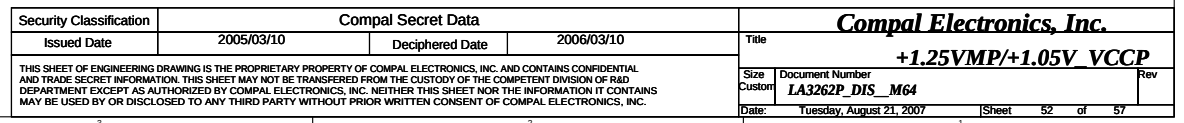
PR179,PR180 are for test need when M/B is without CPU
R1269,R1270 are same function with PR179,PR180
Layout Note: Use 27.4 Ohm(PR318,PR319) routing for Vssense and Vccsense

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2005.8.20

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Version Change List (P. I. R. List) for Power Circuit

Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Cut in
1	43	DCIN/ BATTERY CONN	2006/09/07	HP R.L.	Change charger control from HW to FW	All the related components	DB1B
	44	Charger					
	50	ADP_OCP					
2	50	ADP_OCP	2006/10/12	HP R.L.	Identify 65W adapter as "light"	Change PR223 from 180K to 147K	DB2
3	51	VDD_CORE /PCIE_VDD	2006/10/12	HP R.L.	Change VGA chipset from Ati M62S to M64S	Change PR355 from 11K to 9.76K Change PR392 from 33.2K to 24.9K	DB2
4	52	+1.25VMP/ +1.05V_VCCP	2006/10/12	HW Tony J	For HW's requirement, fine tune +1.05V_VCCP sequence	Change PR249 from 0 to 47K Add PC186 as 47pF Install PD45	DB2
5	51	VDD_CORE /PCIE_VDD	2006/10/12	PWR Francis H	Fine tune PCIE_VDD	Change PR358 from 47K to 49.9K Change PR359 from 150K to 100K	DB2
6	51	VDD_CORE /PCIE_VDD	2006/11/08	HW Tony J	Fine tune the GPU "Power Play" sequence	Add PC196 as 1uf	SI
8	51	VDD_CORE /PCIE_VDD	2006/11/08	HW Tony J	Fine tune the power sequence of PCIE_VDD	Change PU31 pin5, 9 source from VDD_MEM18 to +1.8V	SI
9	44	Charger	2006/11/08	PWR Francis H	Base on "Energy STAR" spec, reduce S5 and S3 power consumption (AC mode)	Uninstall PQ11	SI
10	48	1.8V/0.9V	2006/11/08	HP	Add PM_SLP_M# sequence	Add PR387	SI
11	52	+1.25VMP/ +1.05V_VCCP	2006/11/20	HW Tony J	For HW's requirement, fine tune +2.5VS sequence	Change PR243 to 47K, Change PC170 to 0.1uF	SI
12	52	+1.25VMP/ +1.05V_VCCP	2007/2/28	HW Tony J	Fine tune the +2.5VS power level to 2.57V (typ)	Change PR244 from 13K to 13.7K	SI2
13	50	ADP_OCP	2007/2/28	HP R.L.	System identity	Change PR223 from 147K to 137K	SI2
14	44	Charger	2007/3/1	PWR Francis H	Reserve circuit for testing Energy STAR	Reserve PR397, PR398, PR399 and PQ131 Add PR396 as 0 ohm.	PV
15	51	VDD_CORE /PCIE_VDD	2007/3/1	PWR Francis H	MOSFET change for M64s (original design is for M72)	Change PQ78 from IRF7413Z to A04468 Change PQ79 from IRF8113 to A04712 Change PR353 from 6.81K to 19.6K	PV
16	50	ADP_OCP	2007/4/12	HP R.L.	Fine tune system OCP setting for battery spec	Change PR210 from 422 to 215 Change PC129 from .22u to .027u Change PR203 from 604K to 200K Change PC131 from .027u to .01u	MV
17	44	Charger	2007/7/30	HP R.L.	Change some MLCCs size from 1206 to 0805	1. Change PC14 from 10u_1206 to 4.7u_0805 Add PC198 as 4.7u_0805 2. Change PC89 from 10u_1206 to 4.7u_0805 Add PC199 as 4.7u_0805 3. Change PC15, PC19, PC42 and PC58 from 4.7u_1206 to 4.7u_0805 4. Change PC79, PC141, PC162 and PC197 from 22u_1206 to 22u_0805 5. Change PC134, PC135 and PC138 from 10u_1206 to 10u_0805	MP
	46	3.3V/5V					
	47	1.5VS/1.25VM					
	48	+1.25VMP/ 1.8V/0.9V					
	51	VDD_CORE /PCIE_VDD					
	52	+1.25VMP/ +1.05V_VCCP					
18	44	Charger	2007/7/30	TI	For TI's suggestion, add 4.7u at VCC pin	Add PC200 as 4.7u_0805	MP

<2006.09.11>

<2006.10.14>

<2006.11.20>

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
1		Dseign issue (Lost VRAM RST pin)	20, 22	Add DRAM_RST# from VGA to VRAM	0.2
2		Dseign issue (LVDS channel error)	19	Swapped LVDS upper and lower channel	0.2
3		Dseign issue (HSYNC & VSYNC error)	19	Swapped VSYNC & HSYNC each other	0.2
4		isolate ESD to CPU core via USB and 1394 conn's pin	34	Add R4, R73 and R56	0.2
5		Follow ATI design suggestion for VDDR4, VDDR5	21	change and reserve two jopens for +1.8VS and +3VS power rails	0.2
6		Follow ATI design suggestion for DPLL_VDDC	21	delete R1892	0.2
7		follow ATI power sequence	40	Add +1.25VS, +3VS, +5VS and VDD_MEM18 delay circuits.	0.2
1		RGB signal EA failed and CRT display garbage	16, 19	Change CRT circuit from MAX9511 to RLC circuit.	0.3
2		RGB signal EA failed and CRT display garbage	39	Change CRT circuit from MAX9511 to RLC circuit. Add Q/Switch circuit.	0.3
3		follow ATI power sequence	21	install R1898 aand C1605, uninstall R1897	0.3
4		Increase VDD_MEM18 via holes	23	VDD_MEM18 no power noise, remove 1206 size resister.	0.3
5		Cancel Kill switch function on Chimay	28	uninstall JP53, R1906, R1736 and Q136	0.3
6		change 1394 bus route on board	31	re-define JP13 pins' assignment	0.3
7		implement one 4MB SPI chip	36	add R1794, R1795, R1924	0.3
8		implement 30pins KBC connector	38	re-define KBC connector JP6 pins assignment	0.3
1		HP request, support Penryn CPU	4	Add R23, R34	0.4
2		For Intel ES2 Crestline thermtrip pin.	7	Add R2	0.4
3		For EMI request enable 27MHz_SSC	15	install R1687	0.4
4		For Intel ES2 NB 800/667M Hz issue	15	Add CLRP4, CLRP5 to select FSB speed.	0.4
5		For RTC Accuracy fail to change	25	Change C528, C516 to 15pf	0.4
6		For detect CPU and system power saving	26	Add some components	0.4
7		Solve auto-turn on	26	install R1590 pull up to +3valw, uninstall R1727	0.4
8		Enable ACBS (power management for NIC)	29	install Q102, uninstall R1612, Q104, Q105	0.4
9		Enable ACBS (power management for NIC)	30	Change R1639 value to 1.87k	0.4

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<2007.02.14>

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
1		Add FP power supply circuit for Vista	41	reserve R1931, R1934, R1933, C1622, U88, U90, R43, R46, R52, R53, C1623, D80	0.4
2		Enable ACBS (power management for NIC)	41	Change R1732 pin2 from +3VM_Lan to +3VM	0.4
3		HP request	38	MDC power change to +3vs	0.4
4		Follow ATI power sequence	40	Install D77, C1617, change R1919 to 10K	0.4
5		For HP request	40	Add R1940 and pull up +3valw	0.5
6		For 3VL/VCC1_PWR6D glitch change	41	Add U5C and R1939 pull down	0.5
7		For KBC VCC2 connection to 3VS	37	install R1646, C75	0.5
8		For HP request	25	Add Q144 and R1935 instead of D75	0.5
		For HP request to install BGA CRACK components	27 12		0.5
		For solving Power wireset interfere Fan	38	change JP20 connector Footprint	0.5
		For Intel Crestline thermtrip shutdownm	7	Reserve 0.1uf *1 for THERMTRIP#	0.5
		For possible Leak during ACBS on PREP# signal	26	Change pull up to +3valw	0.5
9		For HP request to change Line-in BOM	32	R370, R369 change to 6.04k, R374, R375 change to 2.00k	0.5
10		For SIM connector supply chain	31	SIM connector footprint change	0.5
11		For LMV331 supply chain, change to LMV393	41	change U76 & U86 to U91	0.5
12		For EMI changes for VGA CRT	16	Install C310,C313,C314,R542,R543,R544	0.5
13		For EMI changes for LED_LAN_DOCK	33	Add R1805,R1806	0.5
14		For HP request, change R1780.1 to UIM_PWR	31	change R1780.1 to UIM_PWR	0.5
15		For Intel NIC crystal design	29	Add R1936 30ohm value	0.5
16		For G-Sensor LED	26	HDD_HALTLED (R15) pull down	0.5
17		For Intel new design	26	Remove pull ups for STP_PCI# and STP_CPU# uninstall R1581, R1580	0.5
18		For HP request	36	Add CLRP6 for SPI ROM	0.5
19		For VGA wavy isse	17	Change C586 to 10uf_1206, add C1629 10uf_1206	0.5

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<2007.08.02>

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
1		Solve VGA can not thermal shutdown and KB dissolve	4	Add R229 (non-install) and contact to THERM#_VGA	1A
2		prevent Cap crack to change Cap size	17	C1629 & C586 size change from 1206 to 0805	1A
3		Solve VGA can not thermal shutdown and KB dissolve	23	Add R1906 (non-install) and R1896 install Add Q30 & Q31	1A
4		Prevent GPIO33 leakage	25	Change Q144 to CHP202U_SC70	1A
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