

Compal confidential

Schematics Document

Mobile Merom uFCPGA with Intel
Crestline_PM+ICH8-M core logic

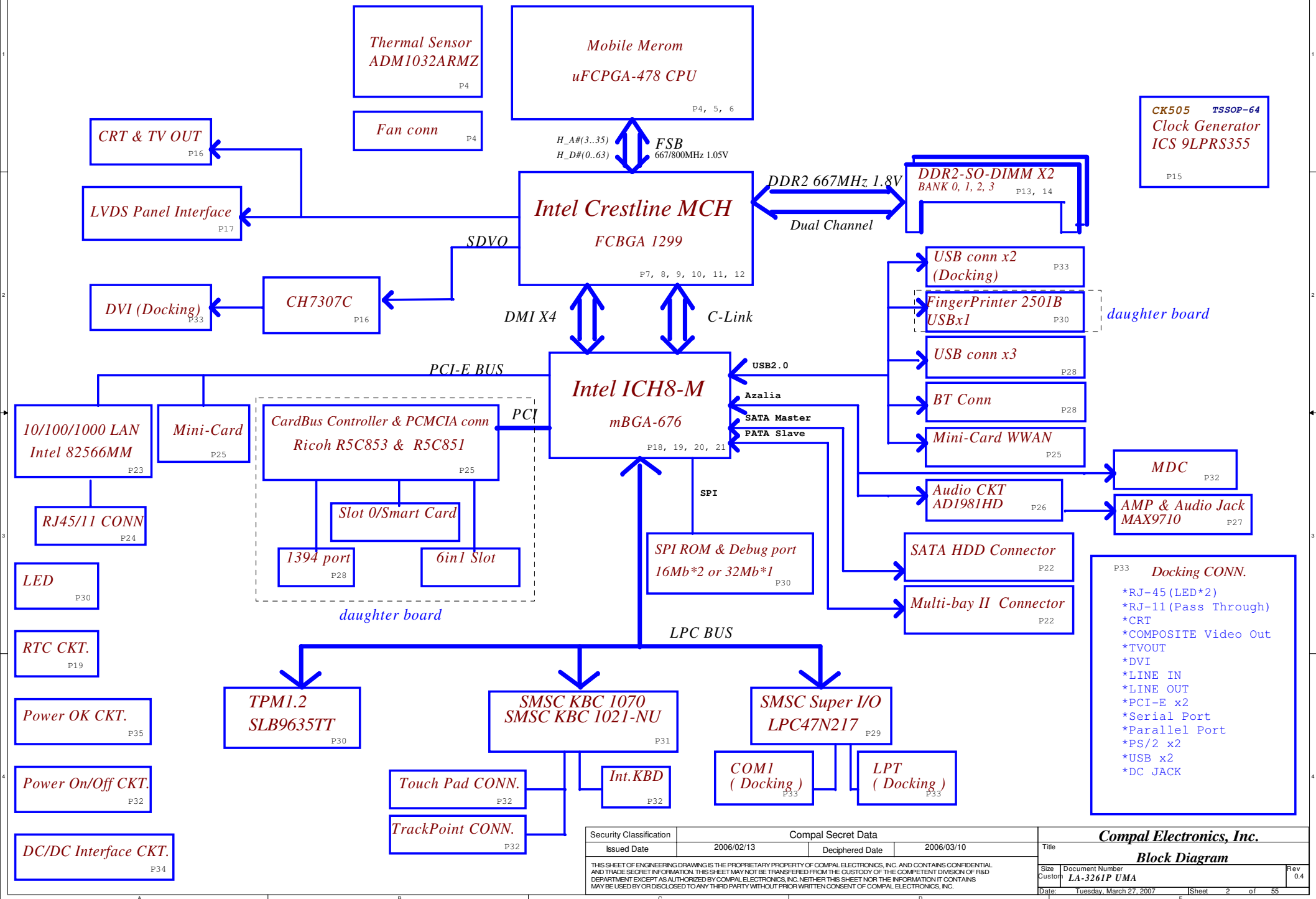
IBT00 LA-3261P UMA

2007-03-28 REV:1A (MV2)

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	產出人員	
	產出日期	
	解密日期	

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Issued Date	2006/02/13	Deciphered Date	2006/03/10	Title	Cover Sheet	
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Chimay UMA



Voltage Rails

O MEANS ON X MEANS OFF

power plane State	+B LDO3 LDO5	+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	O	O	O	O	O	O
S3/M1	O	O	O	X	O	O
S3	O	O	O	X	O	O
S5 S4/AC	O	O	X	X	O	O
S5 S4/ Battery only	O	X	X	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X	X	X

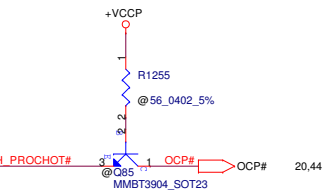
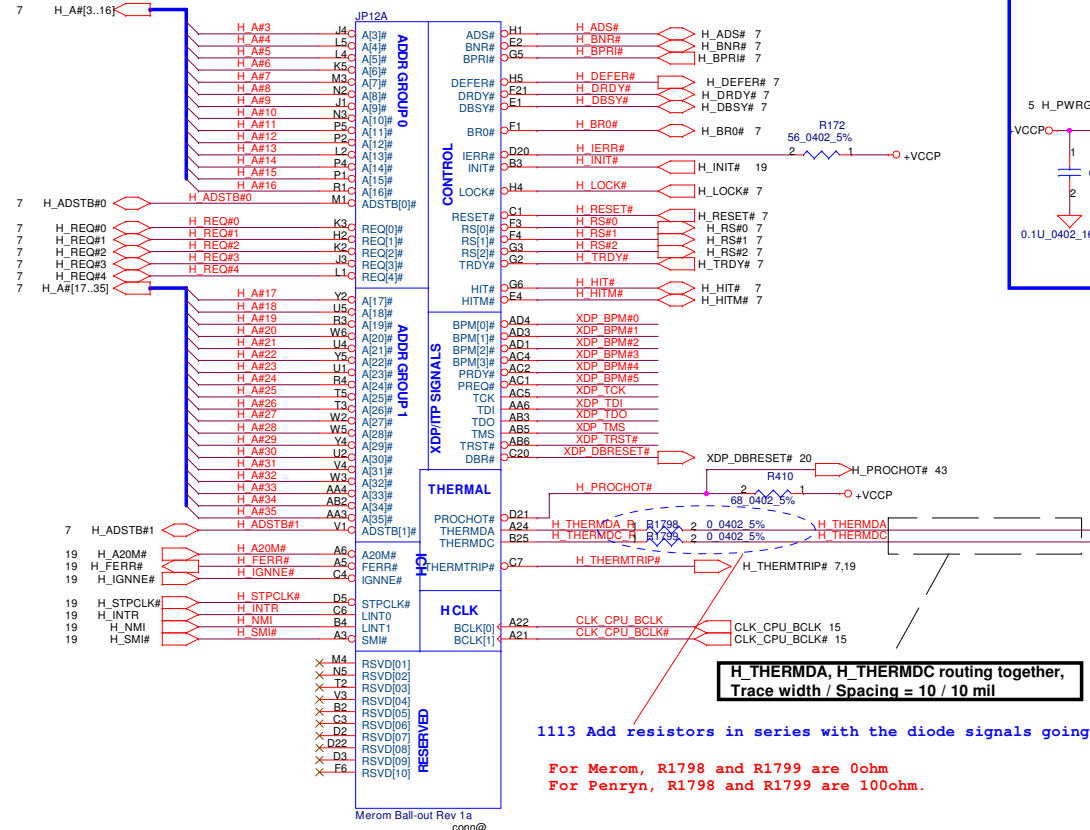
PCI Devices

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

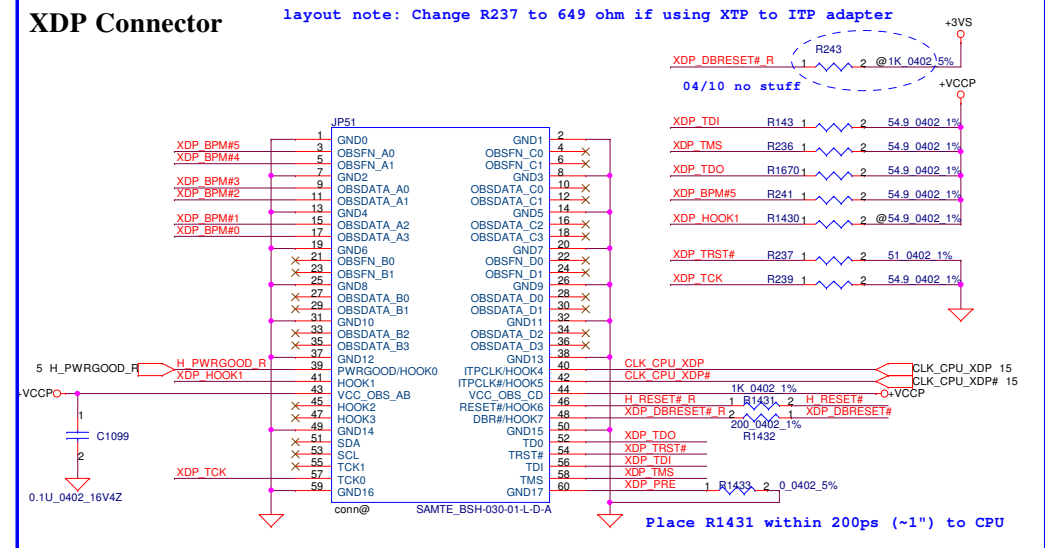
USB PORT#	Destination
0	Walk-up0 (Right side)
1	Fingerprint
2	Reserve
3	WWAN
4	Walk-up1 (Left Side)
5	Walk-up2 (Left Side)
6	Bluetooth
7	Reserve
8	Docking
9	Docking

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, Memem, 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

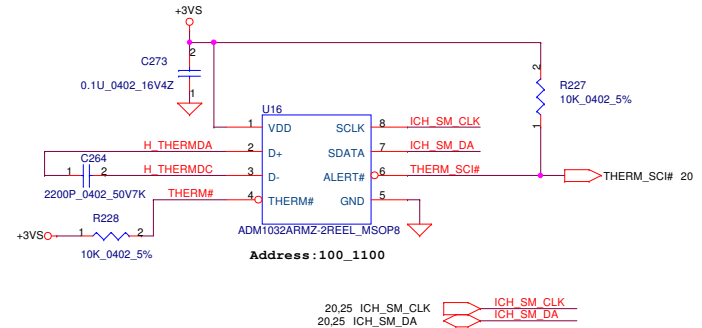


XDP Connector

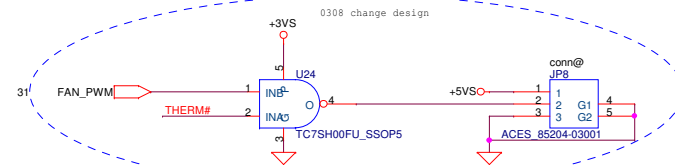
layout note: Change R237 to 649 ohm if using XTP to ITP adapter



Thermal Sensor ADM1032ARMZ



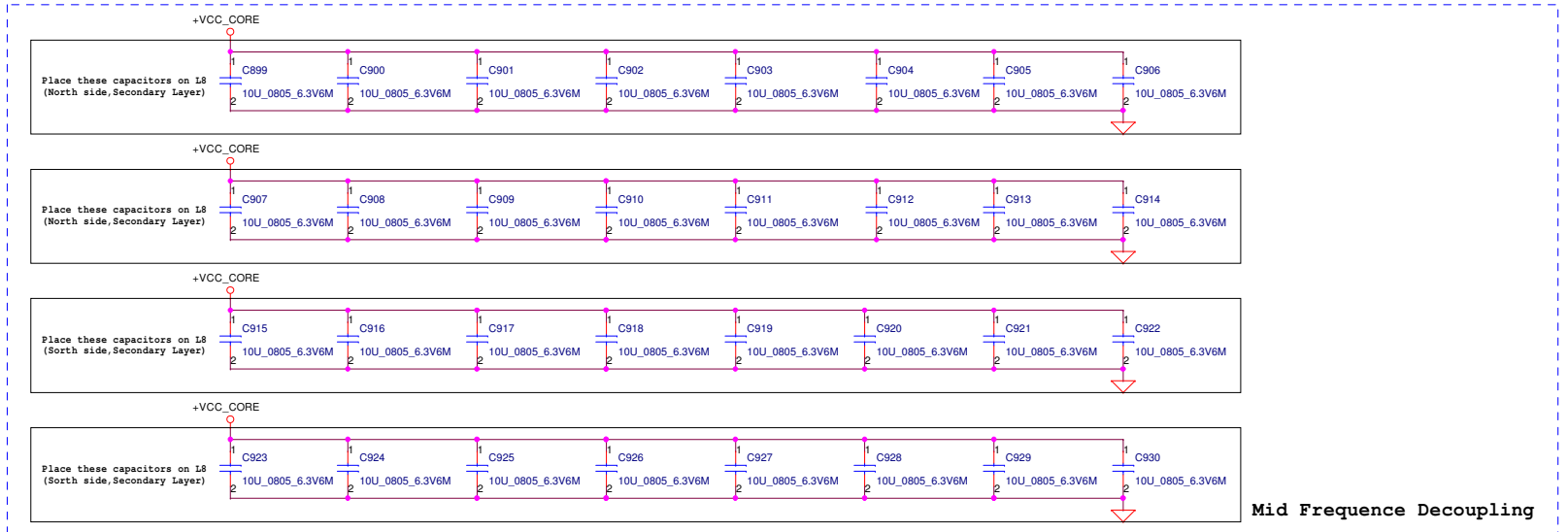
PWM Fan Control circuit



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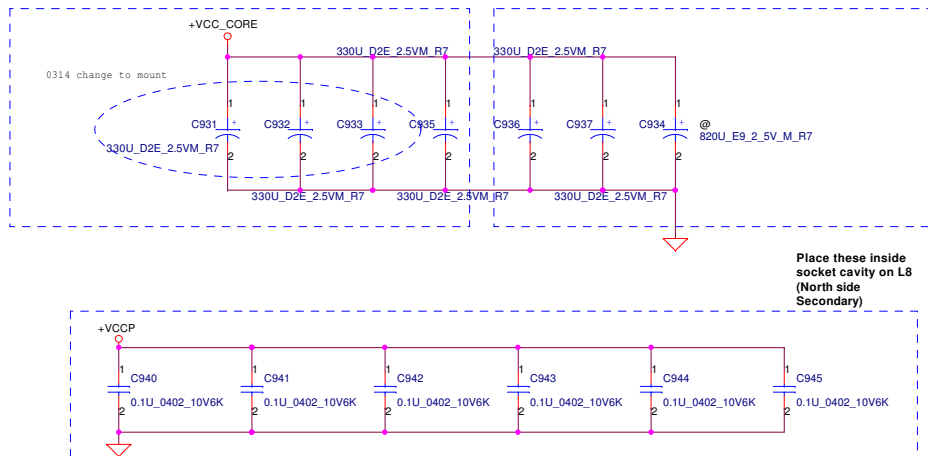
A4	JP12D	VSS[001]	P6
A8	VSS[002]	VSS[083]	P21
A11	VSS[003]	VSS[084]	R2
A14	VSS[004]	VSS[085]	R5
A16	VSS[005]	VSS[086]	R22
A19	VSS[006]	VSS[087]	R25
A23	VSS[007]	VSS[088]	T1
A27	VSS[008]	VSS[089]	T2
B6	VSS[009]	VSS[090]	T23
B8	VSS[010]	VSS[091]	T26
B11	VSS[011]	VSS[092]	U3
B13	VSS[012]	VSS[093]	U6
B16	VSS[013]	VSS[094]	U21
B19	VSS[014]	VSS[095]	U24
B21	VSS[015]	VSS[096]	V2
B24	VSS[016]	VSS[097]	V22
C5	VSS[017]	VSS[098]	V25
C8	VSS[018]	VSS[099]	W1
C11	VSS[019]	VSS[100]	W23
C14	VSS[020]	VSS[101]	W26
C16	VSS[021]	VSS[102]	Y3
C19	VSS[022]	VSS[103]	Y6
C22	VSS[023]	VSS[104]	Y21
C25	VSS[024]	VSS[105]	Y24
D1	VSS[025]	VSS[106]	AA2
D4	VSS[026]	VSS[107]	AA5
D8	VSS[027]	VSS[108]	AA8
D11	VSS[028]	VSS[109]	AA11
D13	VSS[029]	VSS[110]	AA14
D16	VSS[030]	VSS[111]	AA16
D19	VSS[031]	VSS[112]	AA19
D23	VSS[032]	VSS[113]	AA22
D26	VSS[033]	VSS[114]	AA25
E3	VSS[034]	VSS[115]	AB1
E6	VSS[035]	VSS[116]	AB4
E8	VSS[036]	VSS[117]	AB8
E11	VSS[037]	VSS[118]	AB11
E14	VSS[038]	VSS[119]	AB13
E16	VSS[039]	VSS[120]	AB16
E19	VSS[040]	VSS[121]	AB19
E21	VSS[041]	VSS[122]	AB23
E24	VSS[042]	VSS[123]	AB26
F5	VSS[043]	VSS[124]	AC3
F8	VSS[044]	VSS[125]	AC6
F11	VSS[045]	VSS[126]	AC8
F13	VSS[046]	VSS[127]	AC11
F16	VSS[047]	VSS[128]	AC14
F19	VSS[048]	VSS[129]	AC16
F2	VSS[049]	VSS[130]	AC19
F22	VSS[050]	VSS[131]	AC21
F25	VSS[051]	VSS[132]	AC24
G4	VSS[052]	VSS[133]	AD2
G1	VSS[053]	VSS[134]	AD5
G23	VSS[054]	VSS[135]	AD8
G26	VSS[055]	VSS[136]	AD11
H3	VSS[056]	VSS[137]	AD13
H6	VSS[057]	VSS[138]	AD16
H21	VSS[058]	VSS[139]	AD19
H24	VSS[059]	VSS[140]	AD22
J2	VSS[060]	VSS[141]	AD25
J5	VSS[061]	VSS[142]	AE1
J22	VSS[062]	VSS[143]	AE4
J25	VSS[063]	VSS[144]	AE8
K1	VSS[064]	VSS[145]	AE11
K23	VSS[065]	VSS[146]	AE14
K26	VSS[066]	VSS[147]	AE16
L3	VSS[067]	VSS[148]	AE19
L6	VSS[068]	VSS[149]	AE23
L21	VSS[069]	VSS[150]	AE26
L24	VSS[070]	VSS[151]	A2
M2	VSS[071]	VSS[152]	AF6
M5	VSS[072]	VSS[153]	AF8
M22	VSS[073]	VSS[154]	AF11
M25	VSS[074]	VSS[155]	AF13
N1	VSS[075]	VSS[156]	AF16
N4	VSS[076]	VSS[157]	AF19
N23	VSS[077]	VSS[158]	AF21
N26	VSS[078]	VSS[159]	A25
P3	VSS[079]	VSS[160]	AF25
	VSS[080]	VSS[161]	
	VSS[081]	VSS[162]	
	VSS[082]	VSS[163]	

Merom Ball-out Rev 1a
conn@

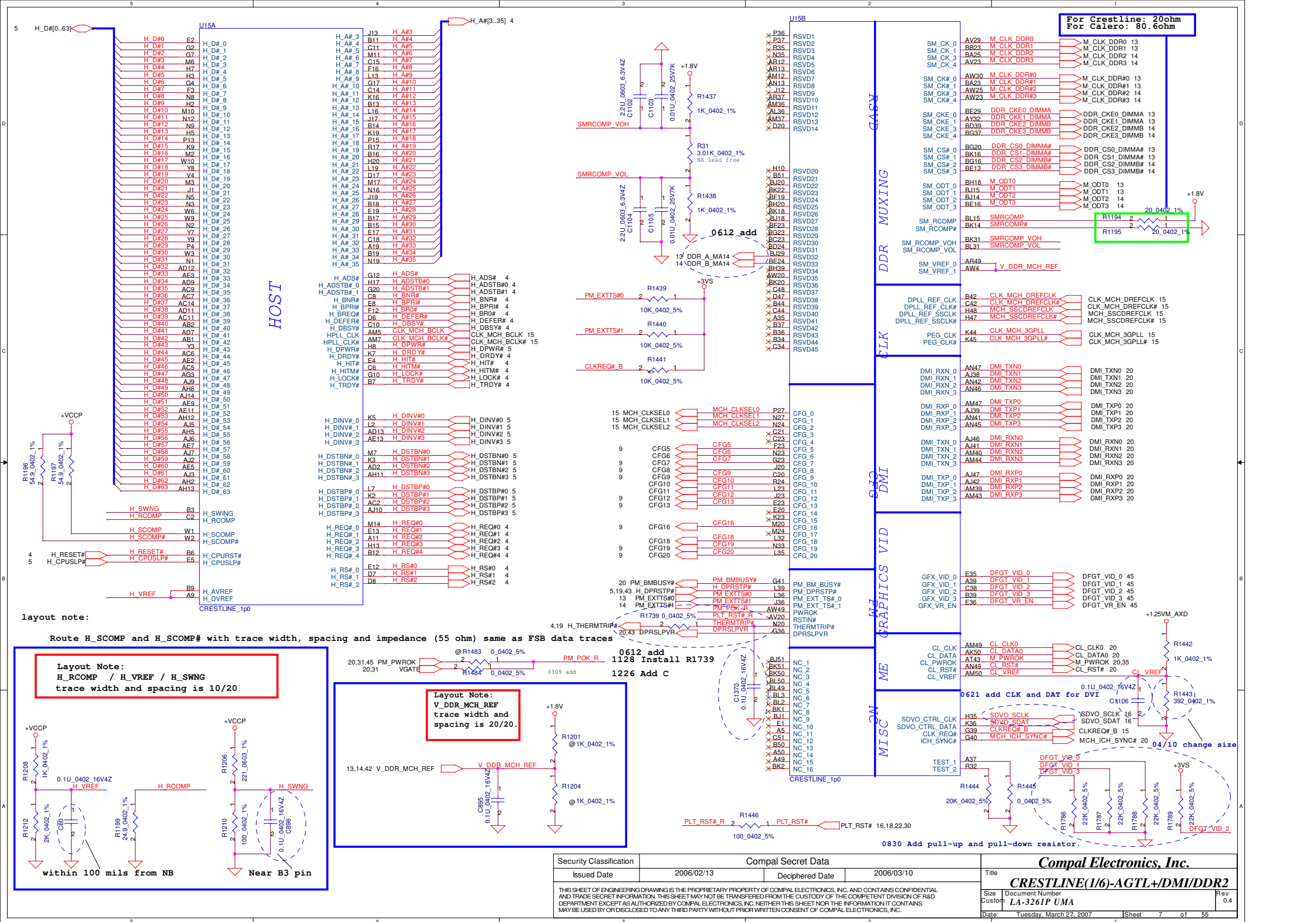


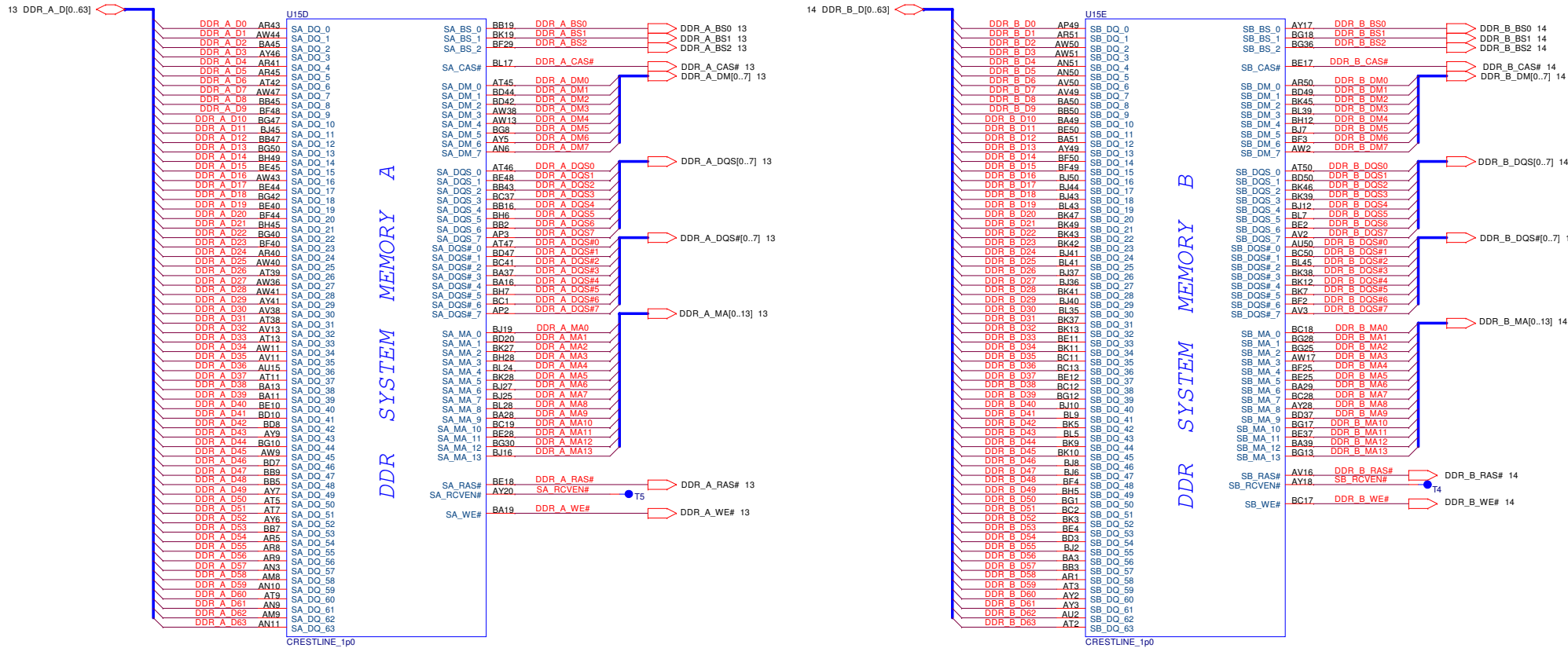
Near CPU CORE regulator

ESR <= 1.5m ohm
Capacitor > 1980uF



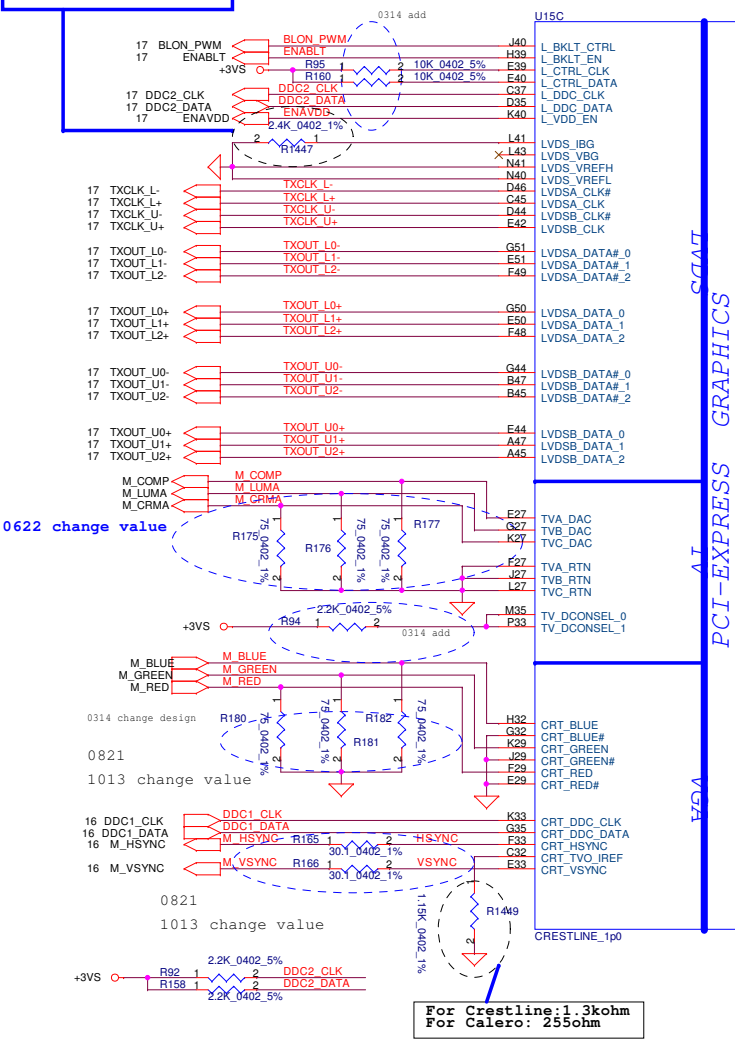
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55					

For Crestline: 2.4kohm
For Calero: 1.5Kohm



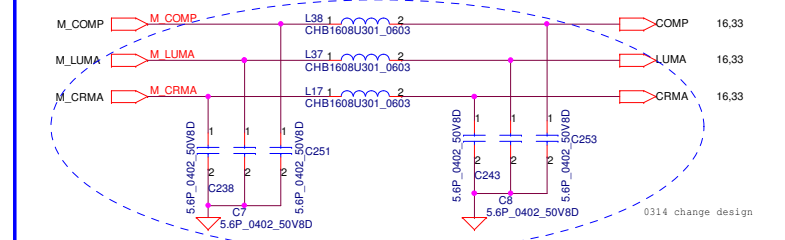
PEGCOMP trace width
and spacing is 20/25 mils.

Strap Pin Table

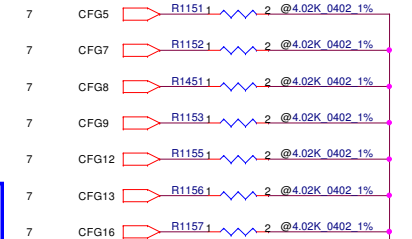
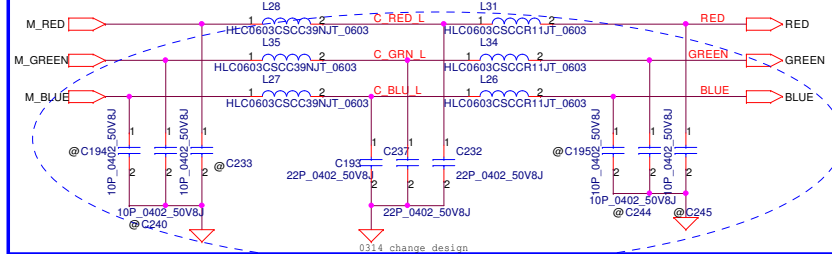
CFG[2:0] FSB Freq select	010 = FSB 800MHz 011 = FSB 667MHz Others = Reserved
CFG5 (DMI select)	0 = DMI x 2 1 = DMI x 4 *
CFG6	Reserved
CFG7 (CPU Strap)	0 = Reserved 1 = Mobile CPU *
CFG8 (Low power PCIE)	0 = Normal mode 1 = Low Power mode *
CFG9 (PCIE Graphics Lane Reversal)	0 = Reverse Lane 1 = Normal 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.

0809 Add MAX9511
1013 Remove MAX9511

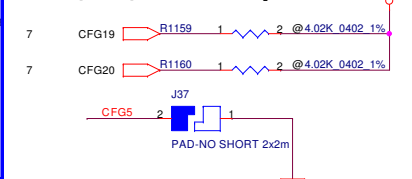
TV-Out Termination/EMI Filter



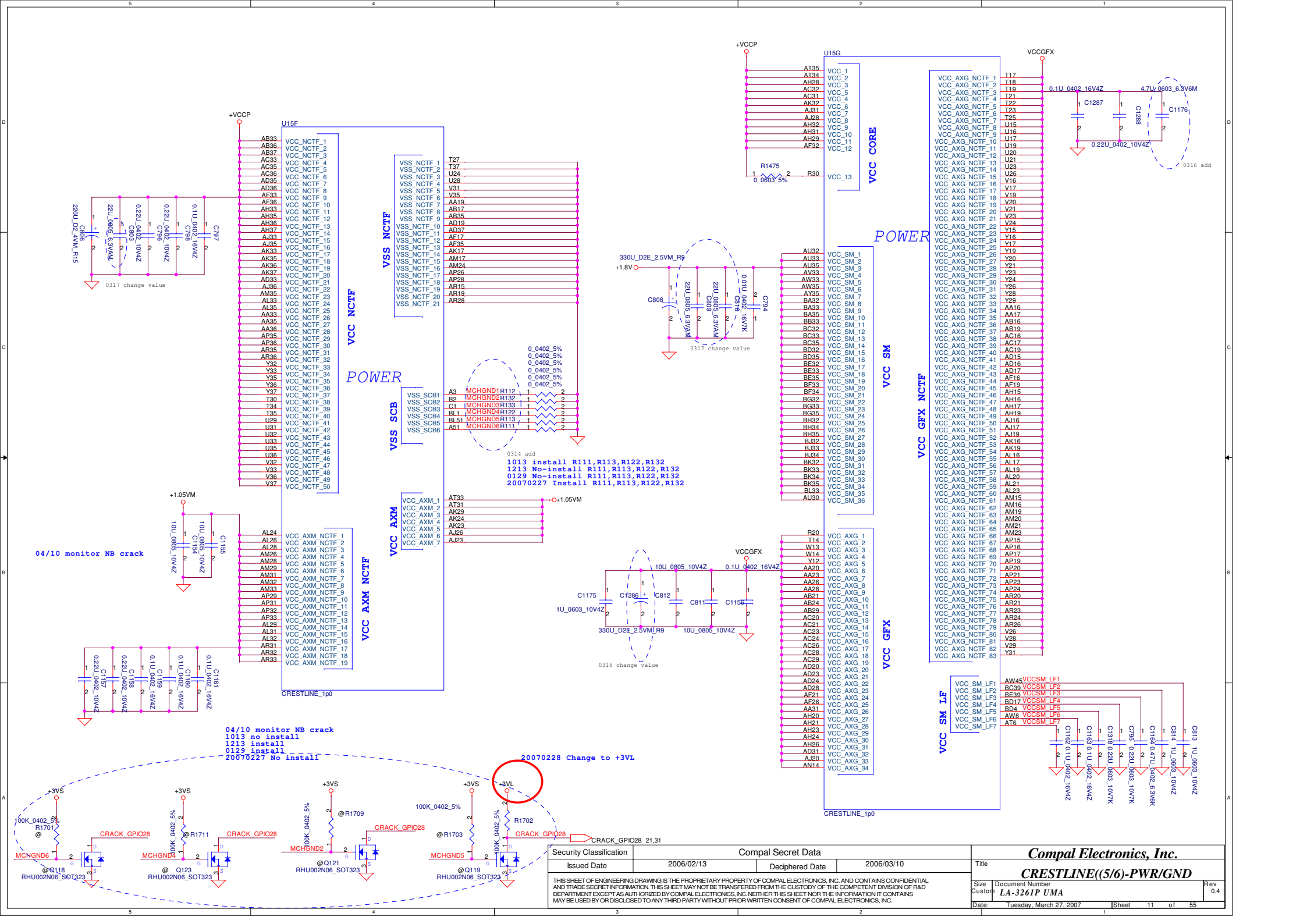
CRT Termination/EMI Filter



CFG[17:3] have internal pull up
CFG[19:18] have internal pull down

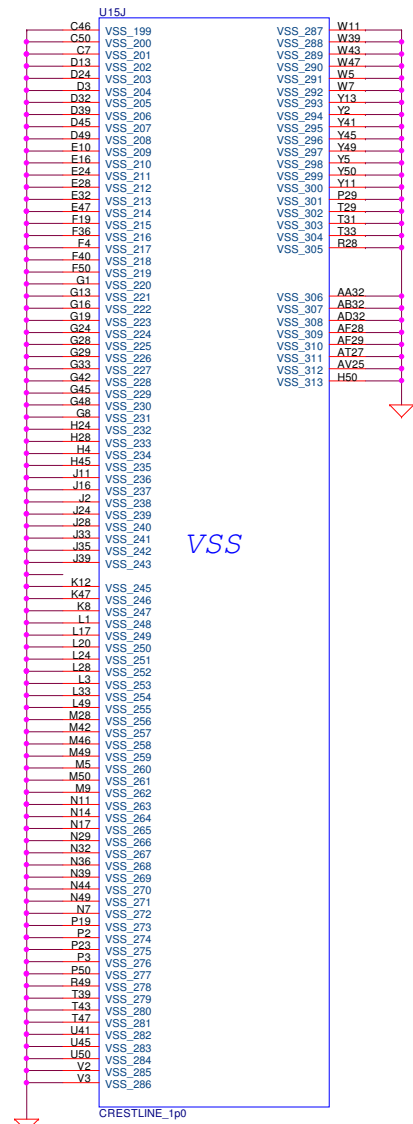
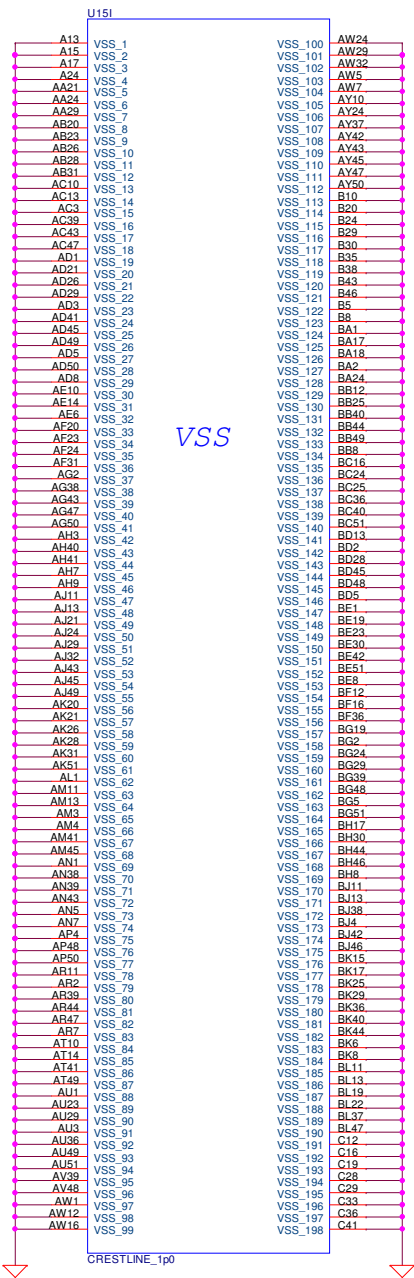


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Crestline((3/6)-VGALVDS/TV				Rev
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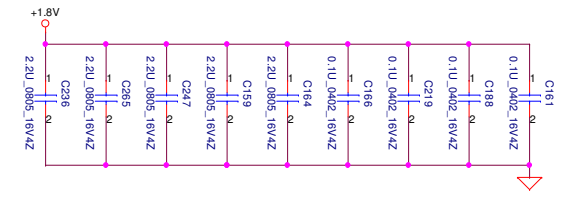
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CRESTLINE((5/6)-PWR/GND	
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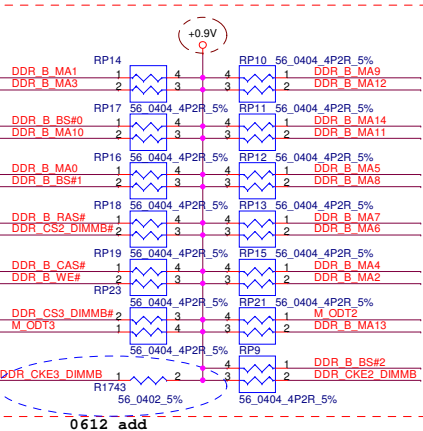
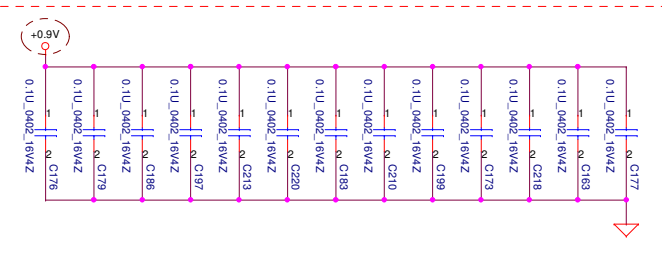
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8 DDR_B_DQS#[0..7]
 8 DDR_B_D[0..63]
 8 DDR_B_DM[0..7]
 8 DDR_B_DQS[0..7]
 7,8 DDR_B_MA[0..14]

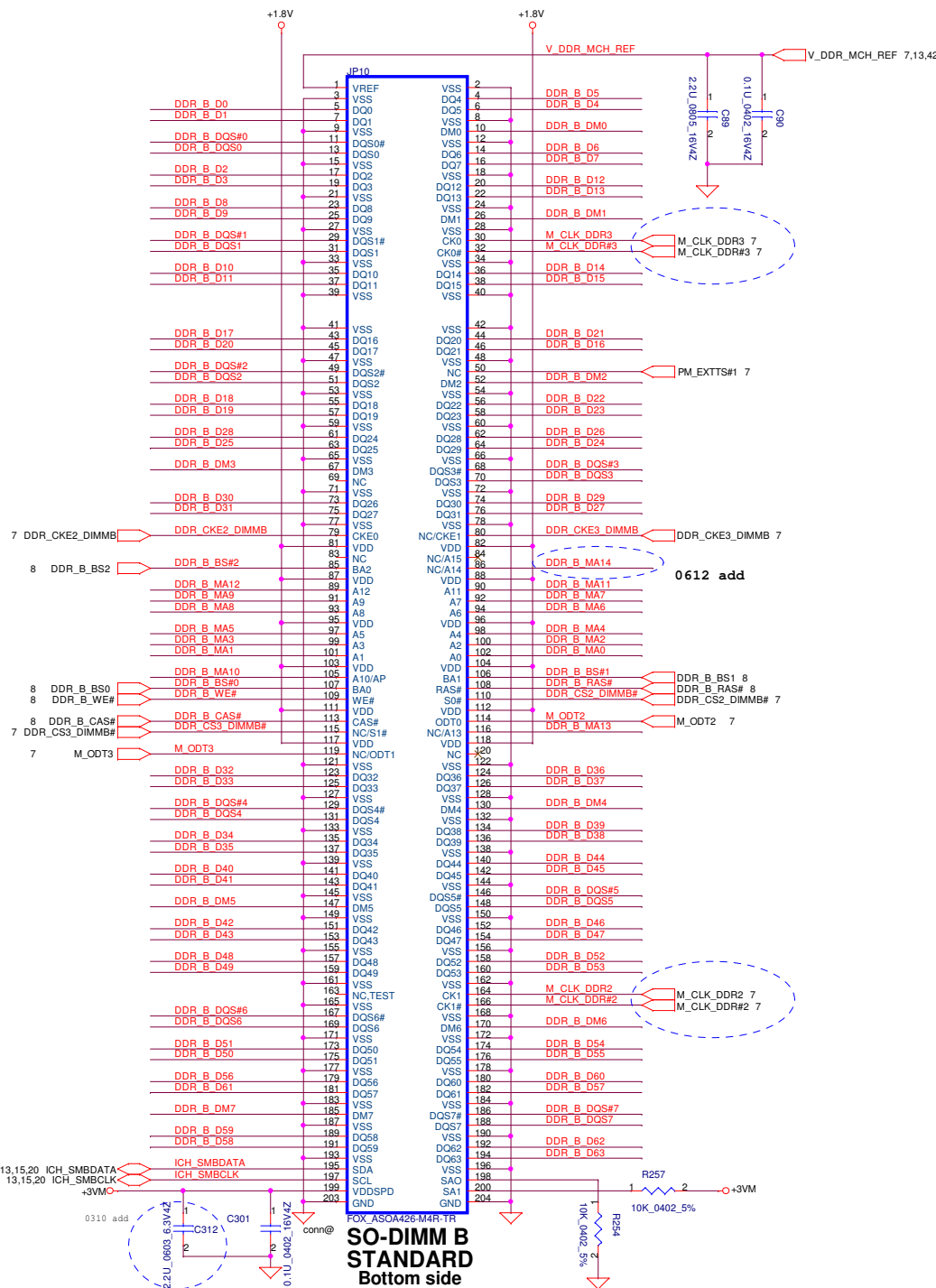
Layout Note:
Place near JP10



Layout Note:
Place one cap close to every 2 pullup resistors terminated to +0.9VS



Layout Note:
Place these resistor close JP10, all trace length Max=1.5"



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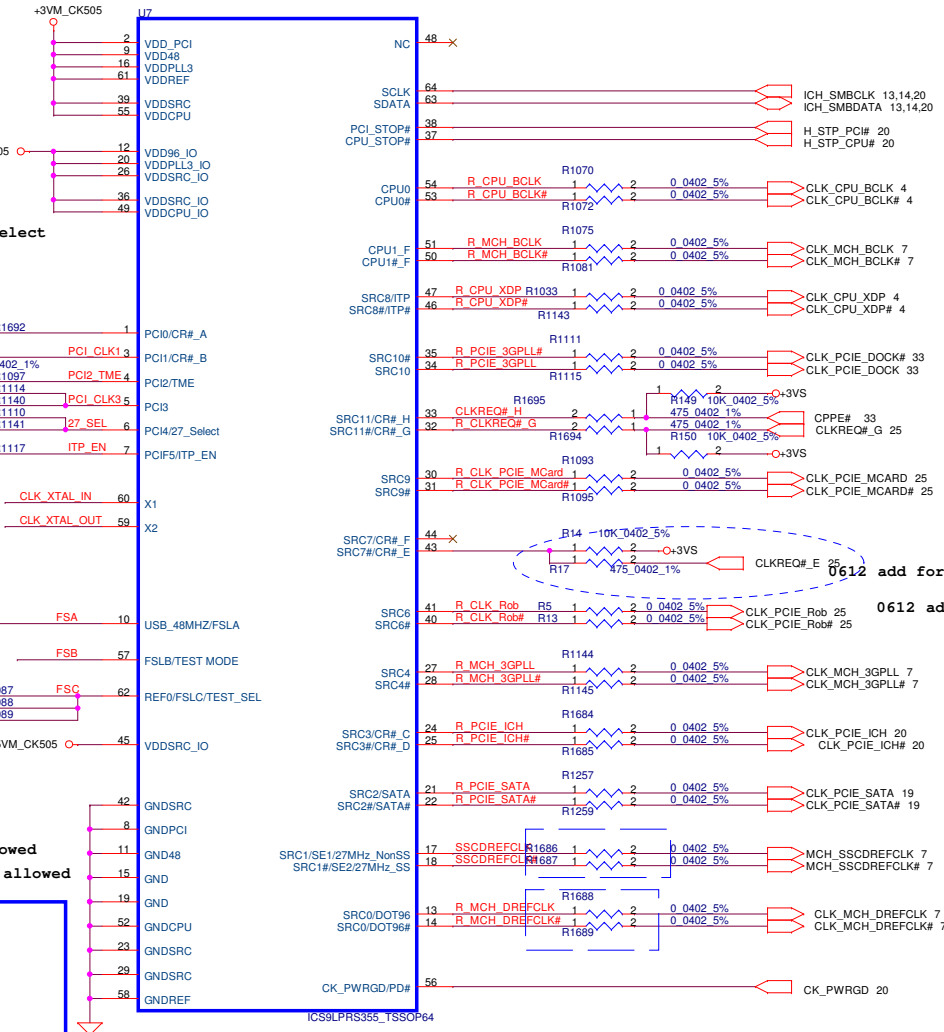
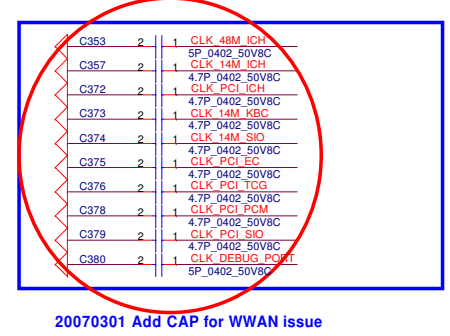
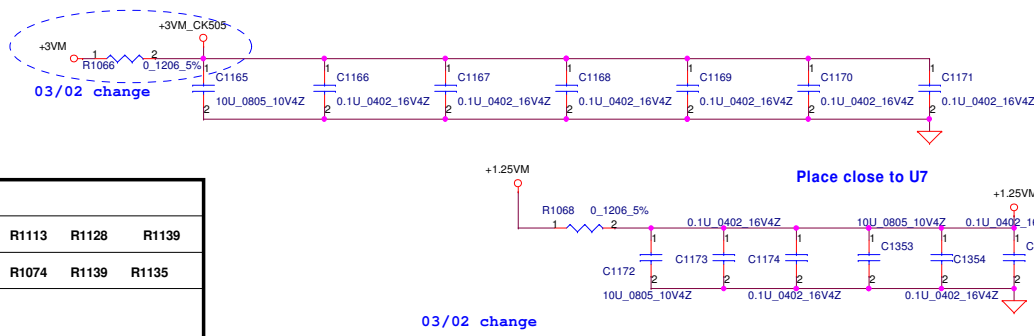
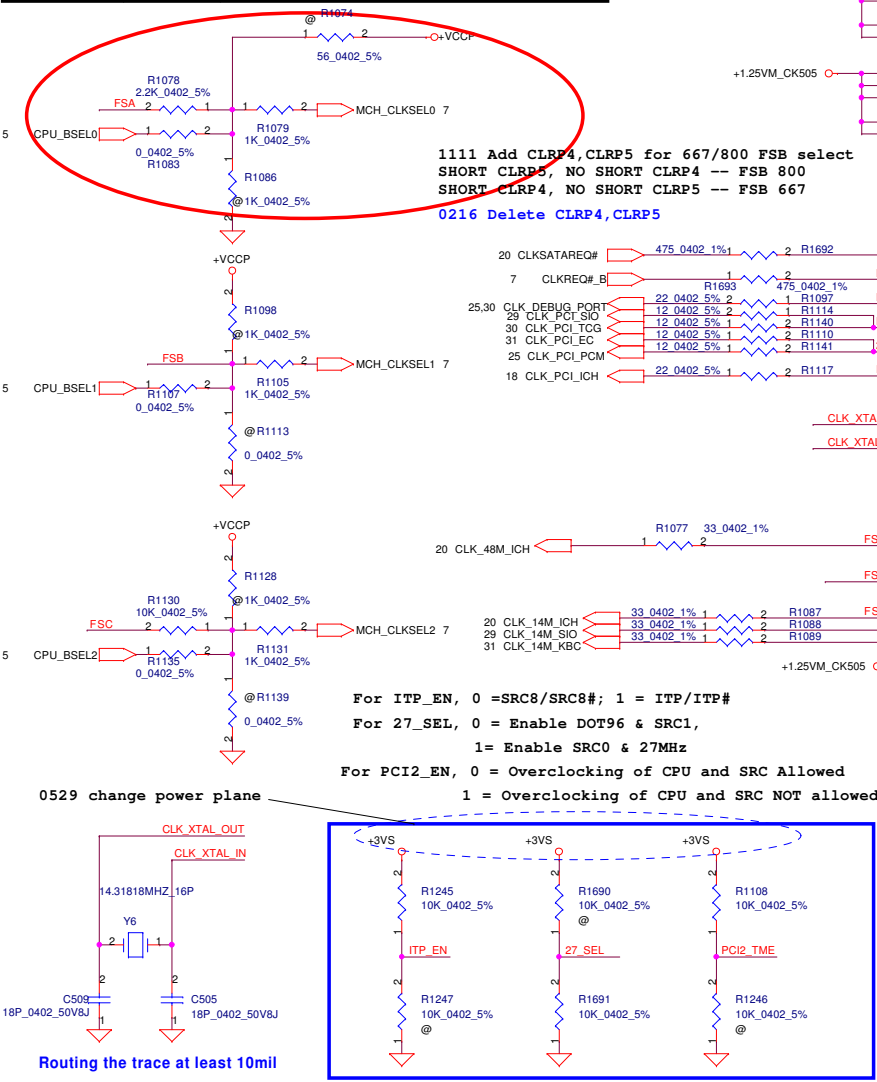
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DDRII-SODIMM SLOT2

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 Rev 0.4

FSLC	FSLB	FSLA	CPU	SRC	PCI
CLKSEL2	CLKSEL1	CLKSEL0	MHz	MHz	MHz
0	1	0	200	100	33.3
0	1	1	166	100	33.3

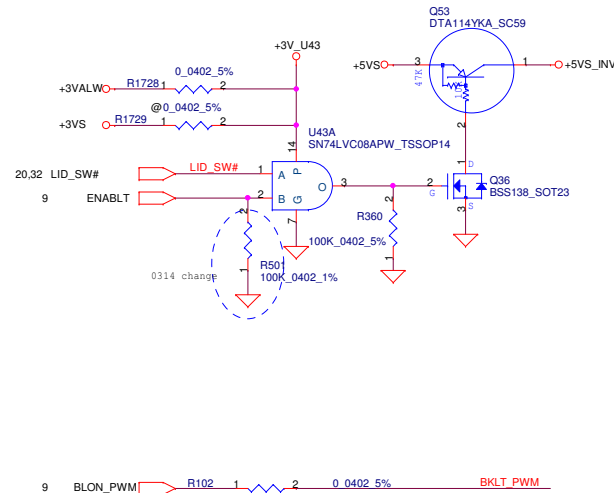
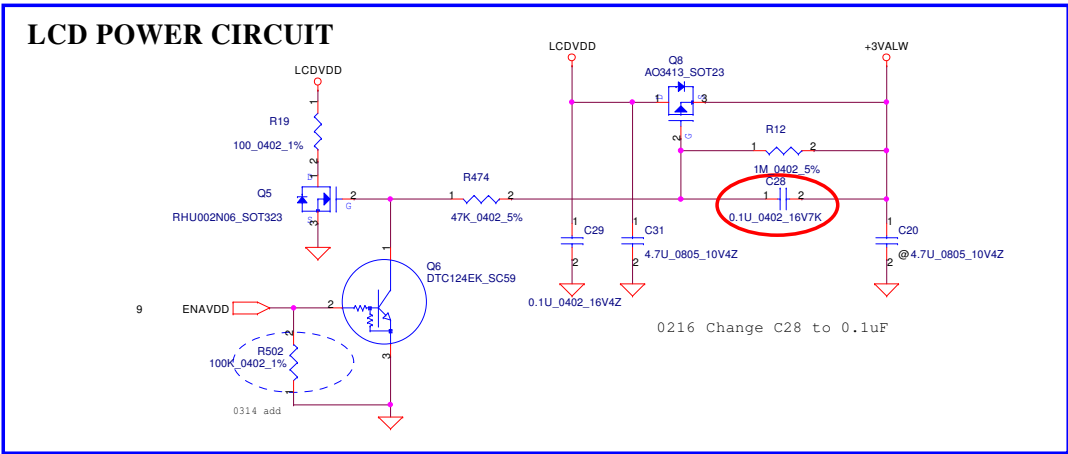
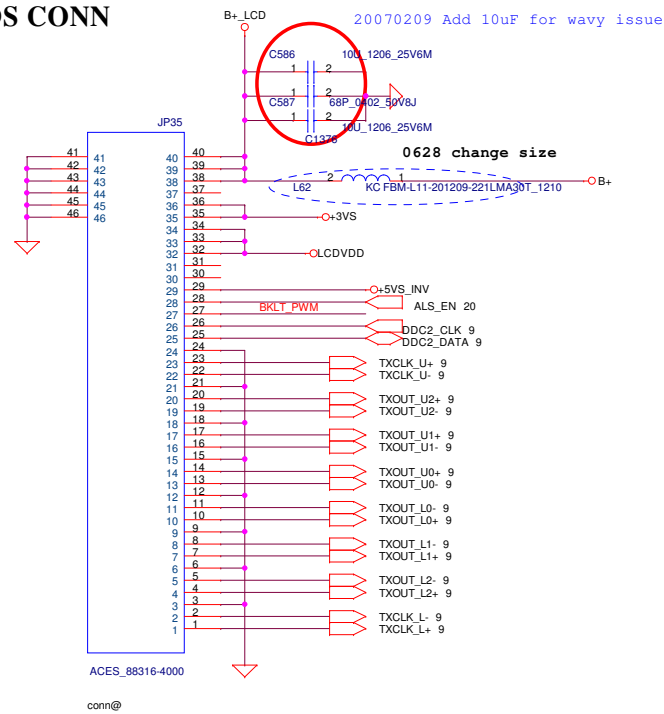
FSB Frequency Selet:

CPU Driven	Stuff	R1107	R1135	R1083
★(Default)	No Stuff	R1074	R1086	R1098
	Stuff	R1086	R1139	R1135
	No Stuff	R1083	R1107	R1128
667MHz	Stuff	R1113	R1098	
	No Stuff	R1083	R1107	R1128
	Stuff	R1135	R1139	
800MHz	No Stuff	R1083	R1086	R1098
	Stuff	R1074	R1107	R1113
	No Stuff	R1083	R1107	R1128

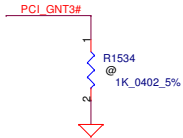
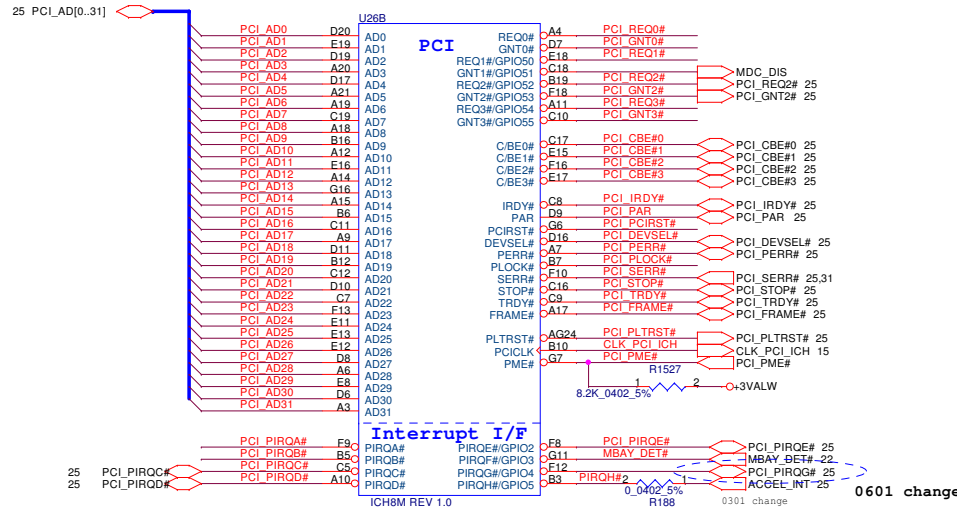
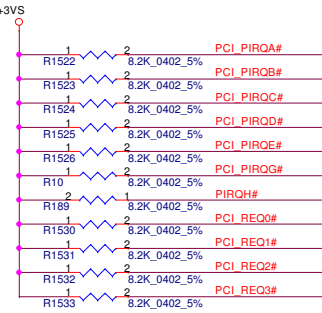
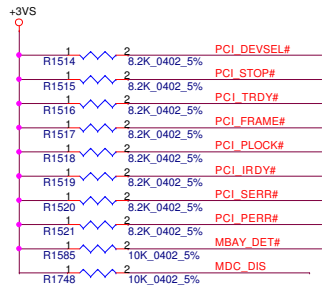


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LVDS CONN

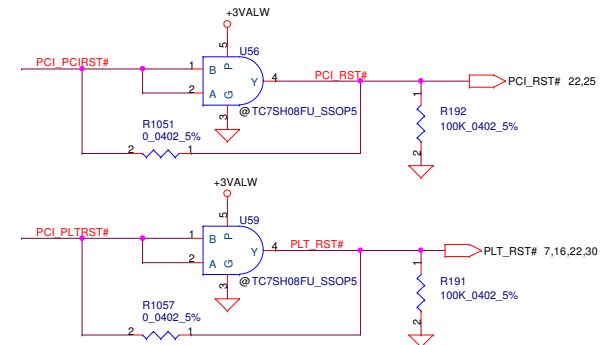
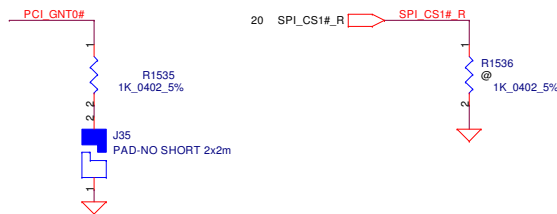
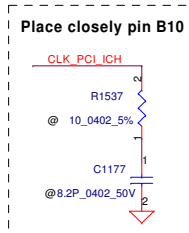


Support 3V inverter

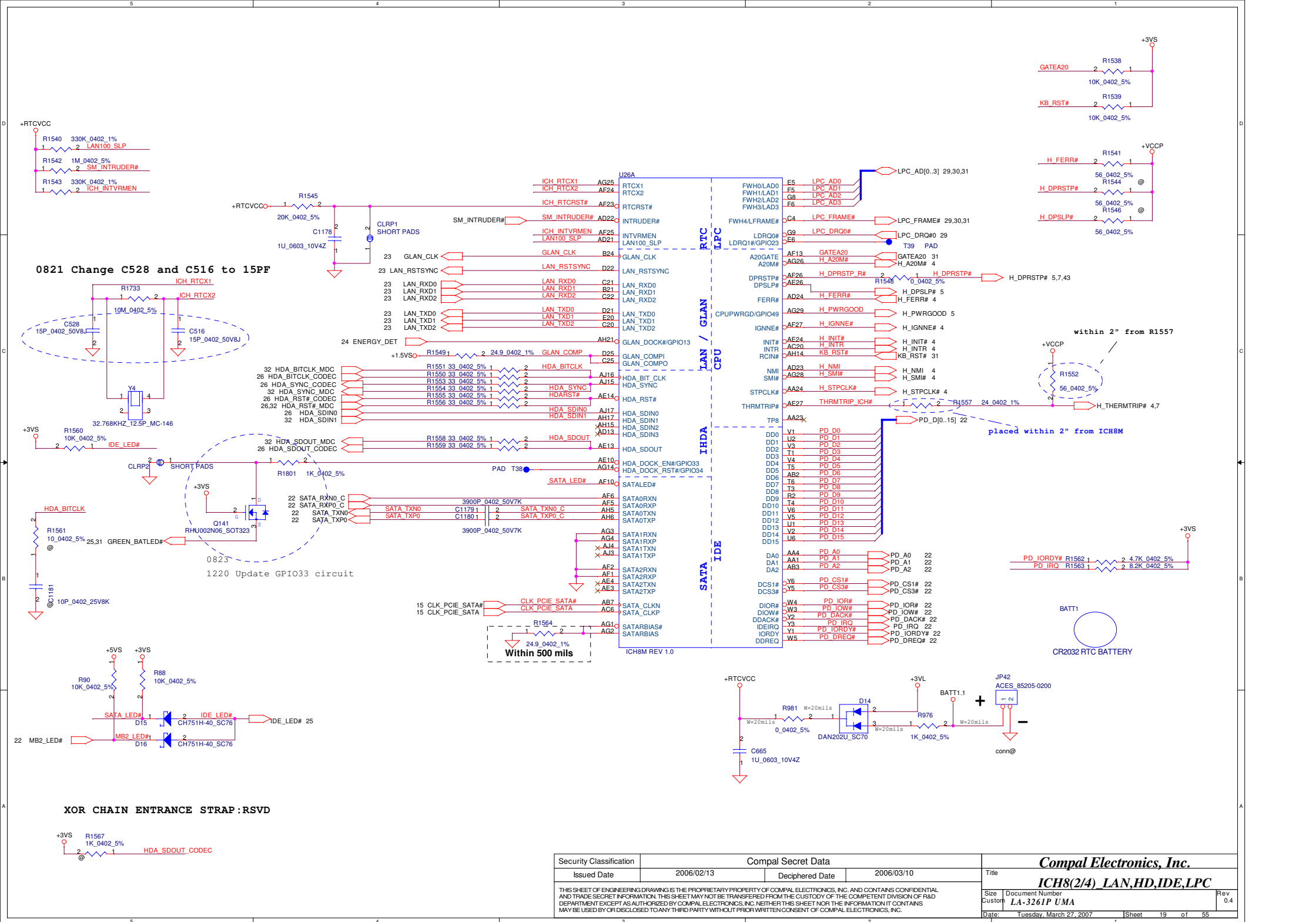


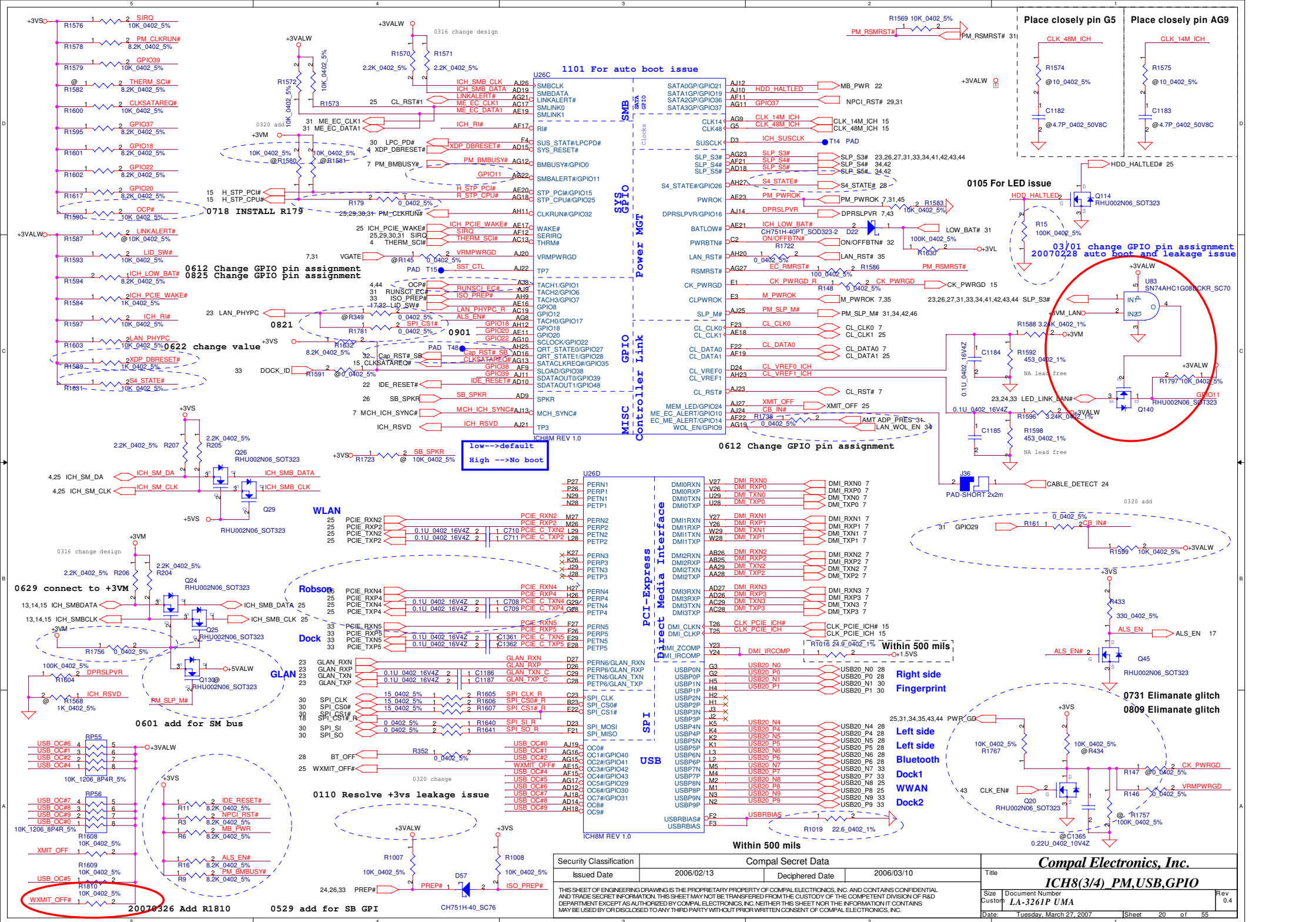
A16 swap override Strap	
PCI_GNT3#	Low= A16 swap override Enble High= Default *

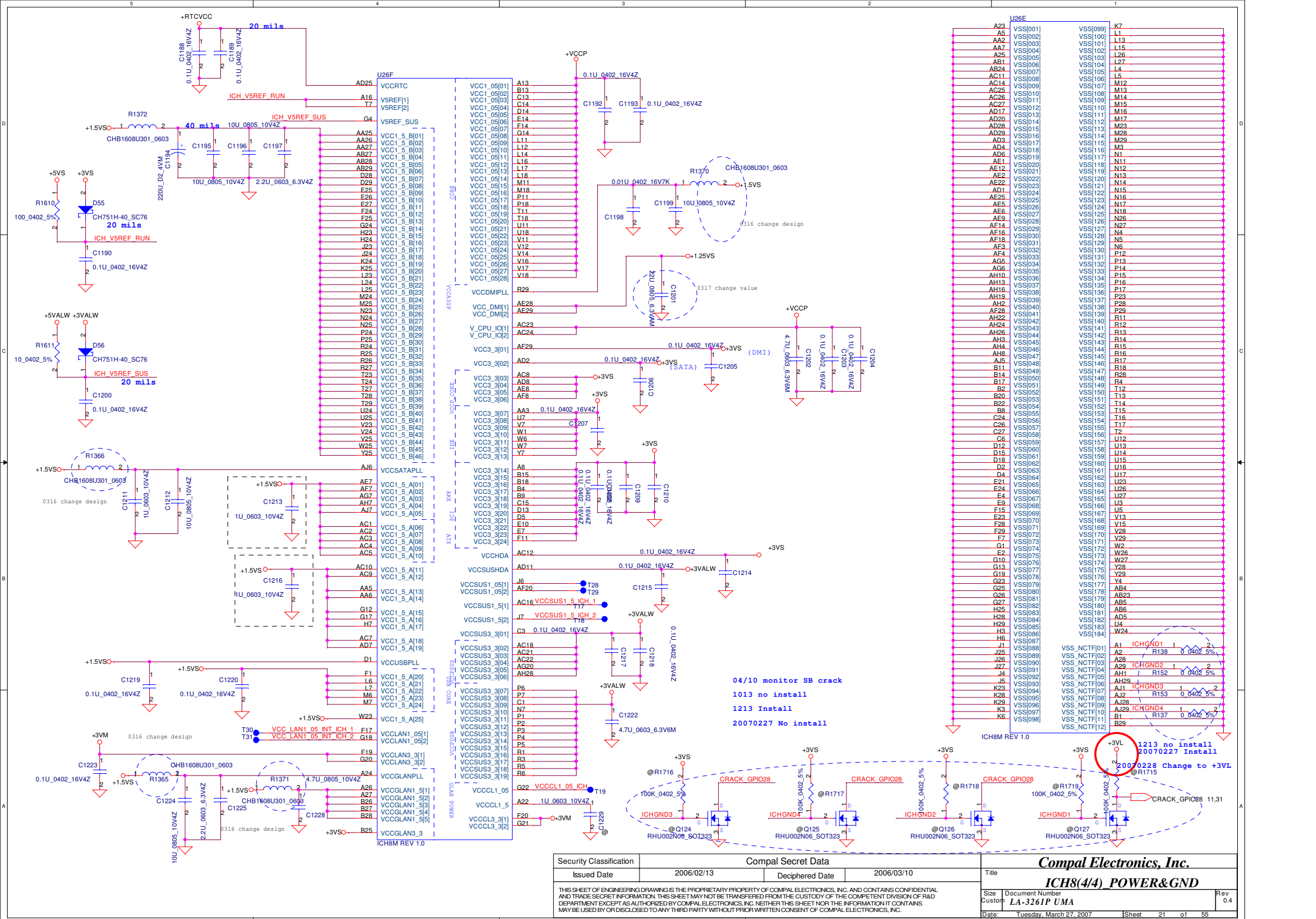
Boot BIOS Strap		
PCI_GNT0#	SPI_CS#1	Boot BIOS Location
0	1	SPI *
1	0	PCI
1	1	LPC

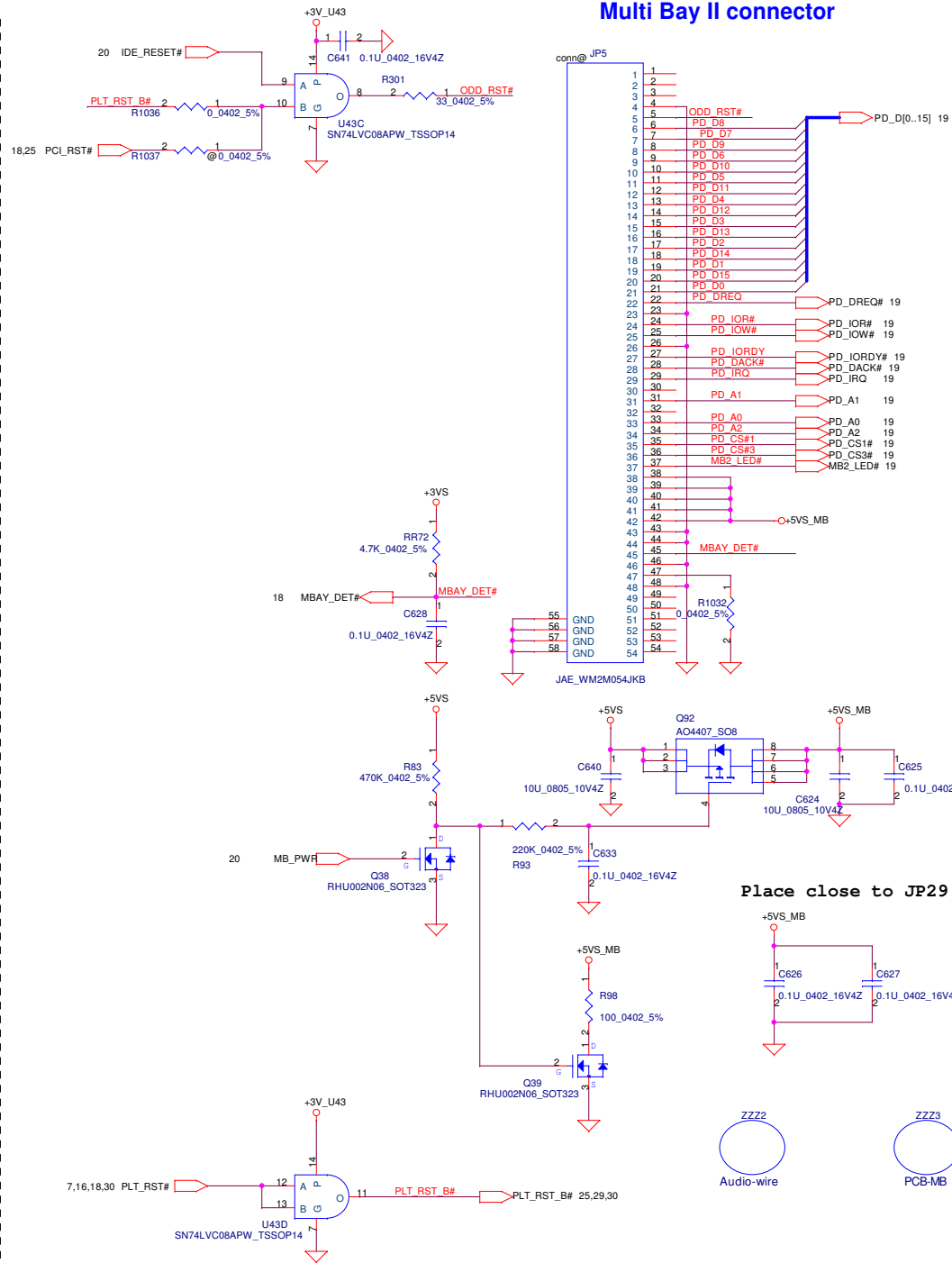
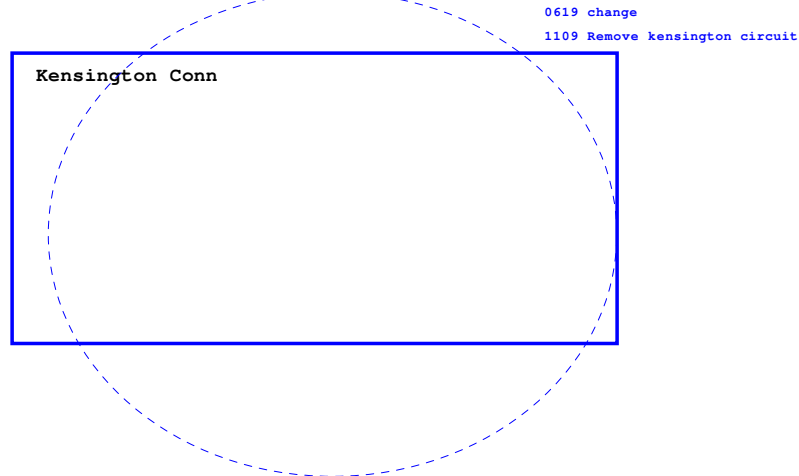
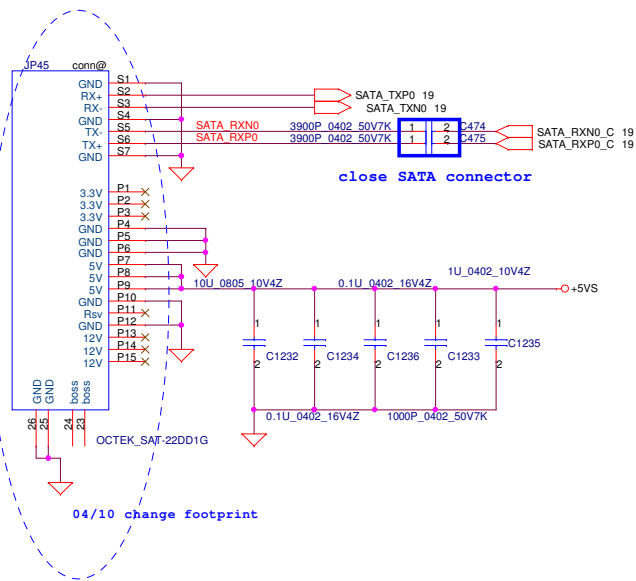


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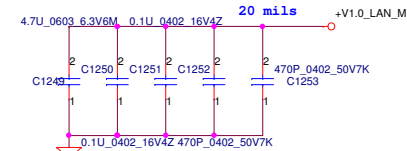
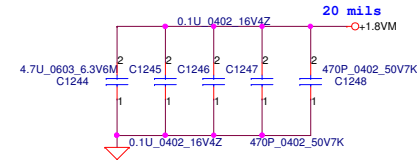
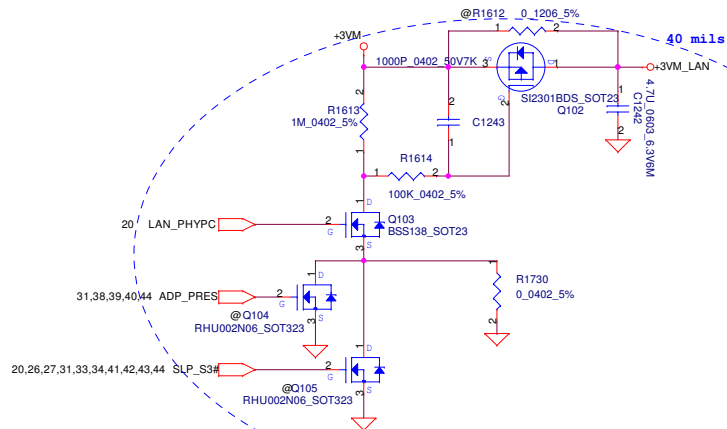




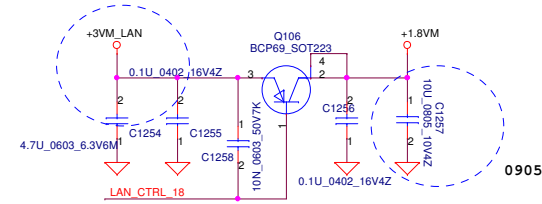


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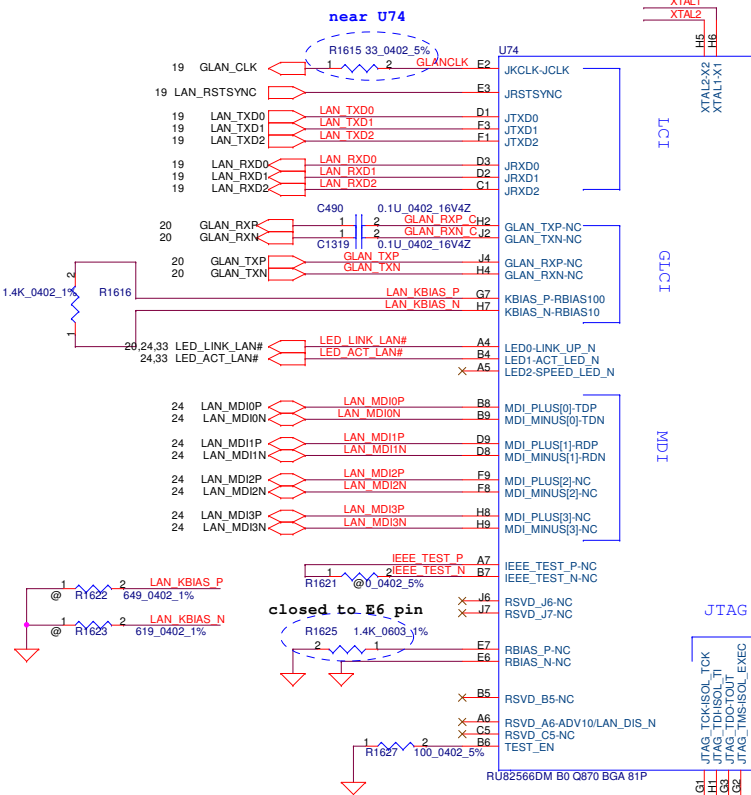
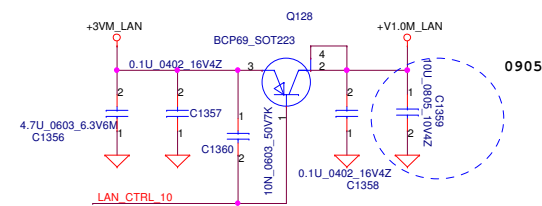
1128 Install Q102,R1730, no install R1612,Q104,Q105.



0620 fix to IVRD



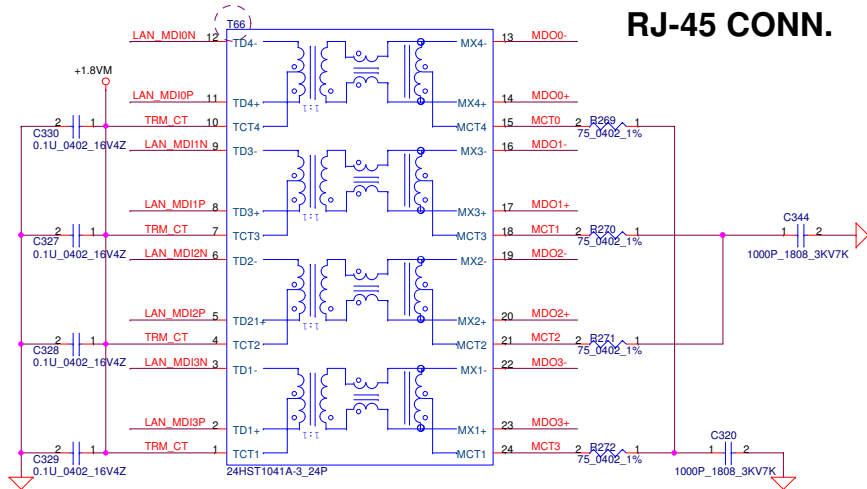
0620 add for POWER ripple, close to chip



0104 Intel request

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RJ-45 CONN.

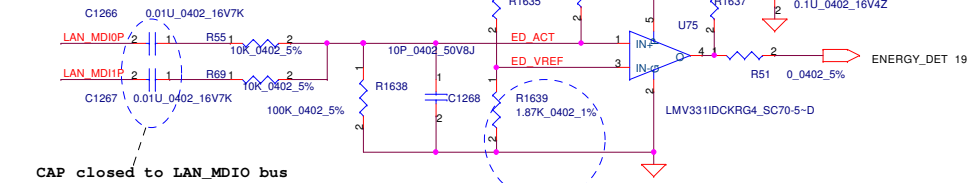


LAN ENERGY DET

02/27 change

CAP closed to LAN MDIO bus

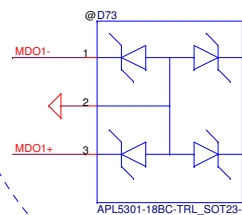
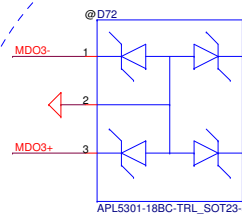
0612 CHANGE



1113 Change R1639 to 1.4K based on Intel WW44

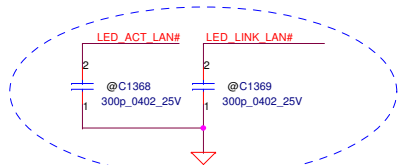
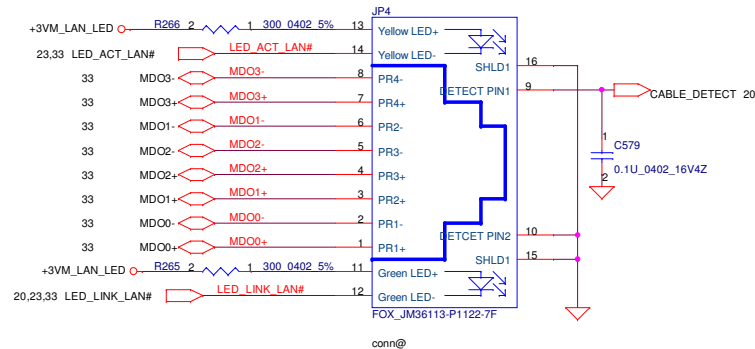
1116 Intel recommend

0809 add for EMI request

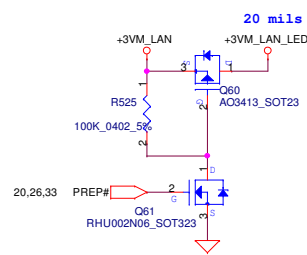


Layout Notice : Place termination as close as Intel 82566 as possible

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

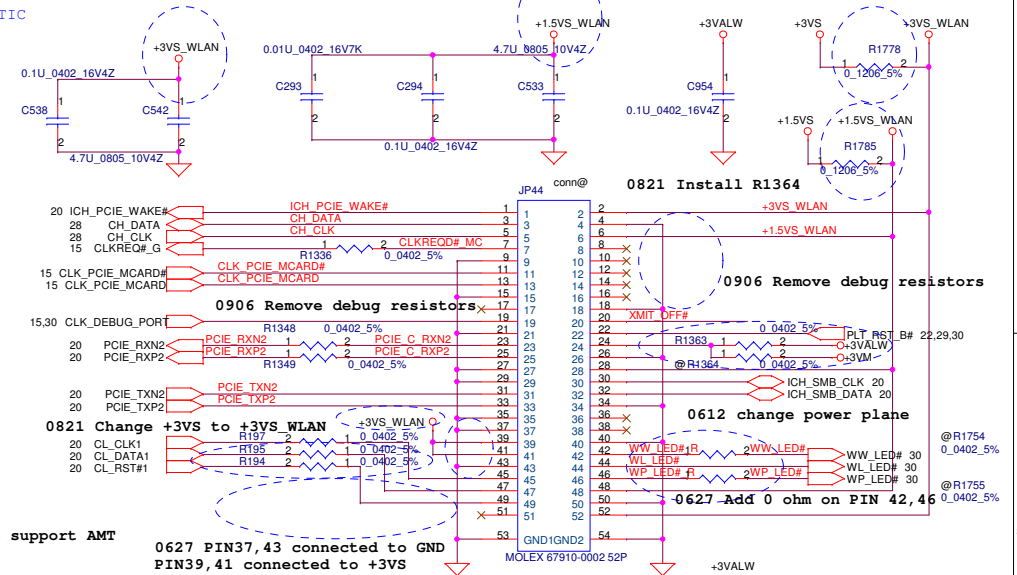


1115 EMI REQUEST

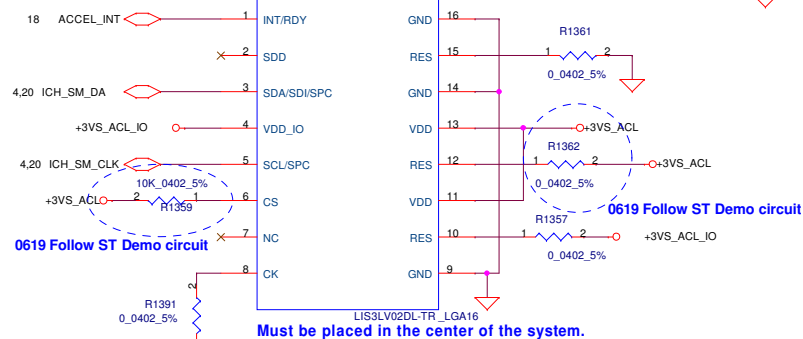
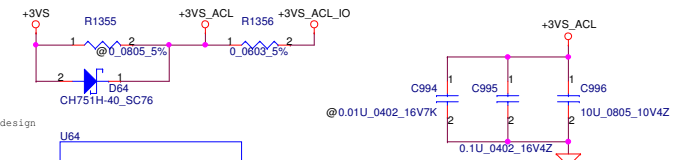


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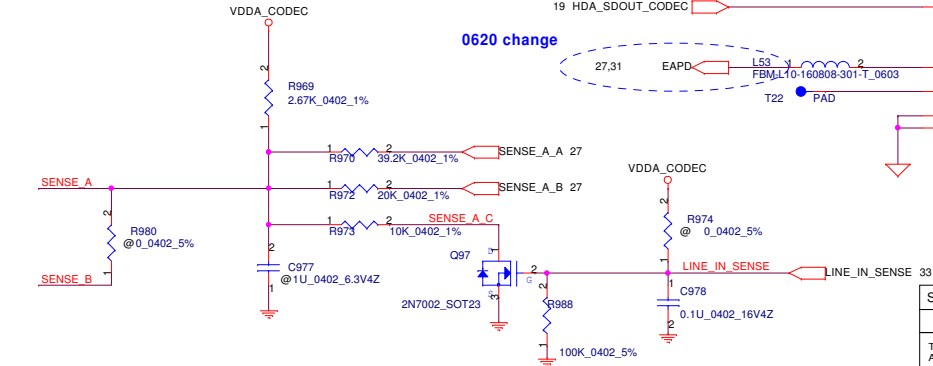
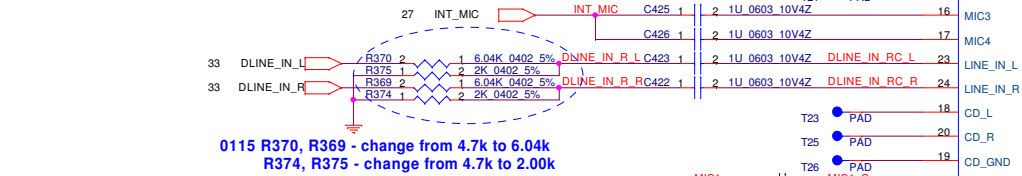
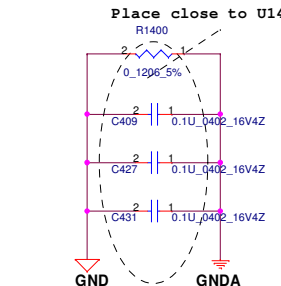
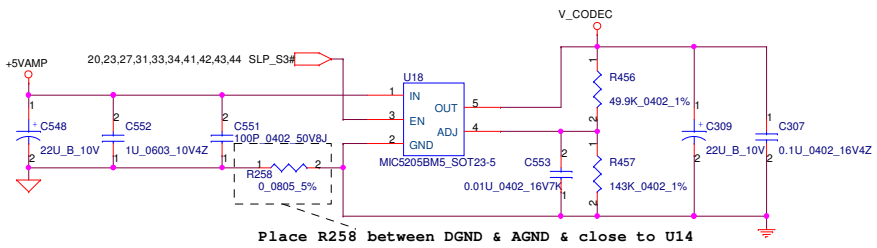
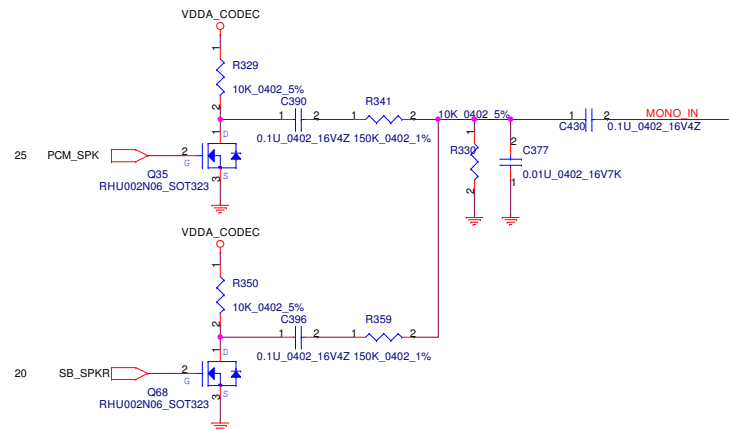
```
0824 Add +1.5VS_WLAN
0811 Isolate SLOT power from SYSTEM power.
```



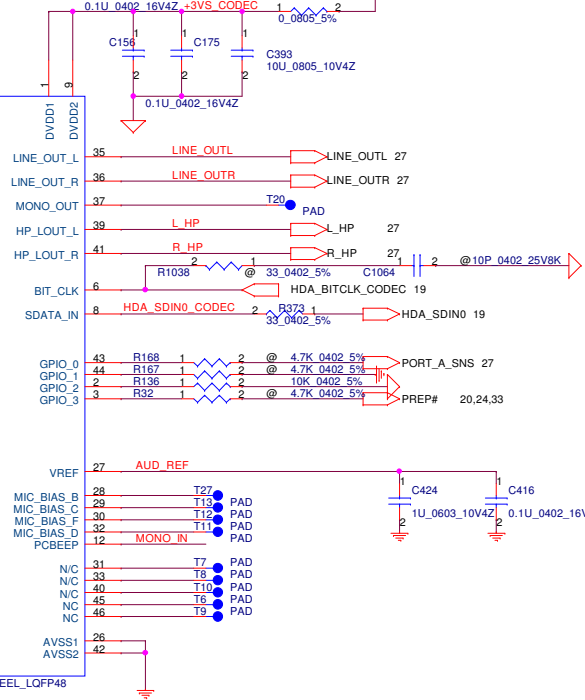
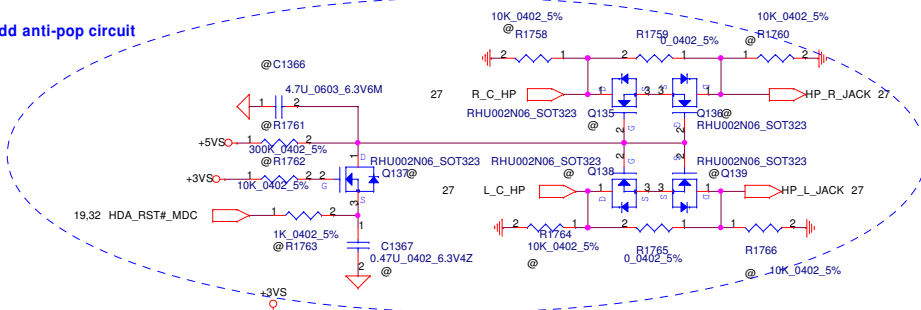
0906 Remove debug resistors



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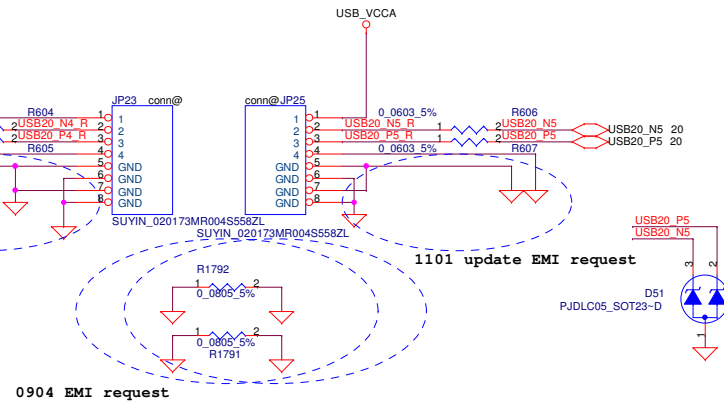


0809 Add anti-pop circuit

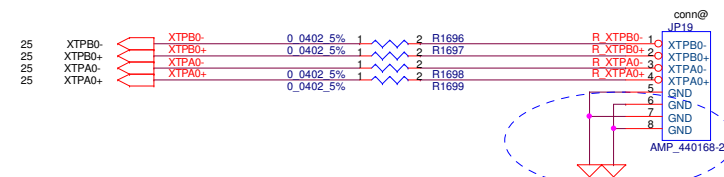


PORT	PLACE TO
MONO_OUT	X
PORT A	HP OUT, DOCK HP LO
PORT B	M/B MIC
PORT C	DOCK LI
PORT D	M/B SPK
PORT E	X
PORT F	Internal MIC

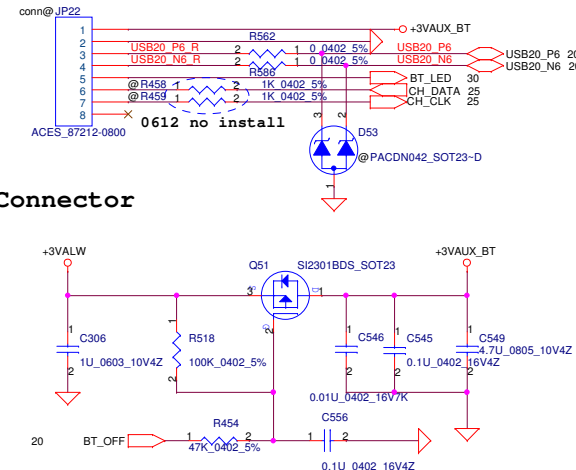
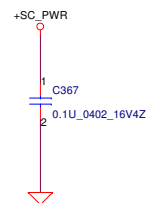
Left side USB CONNECTOR 1



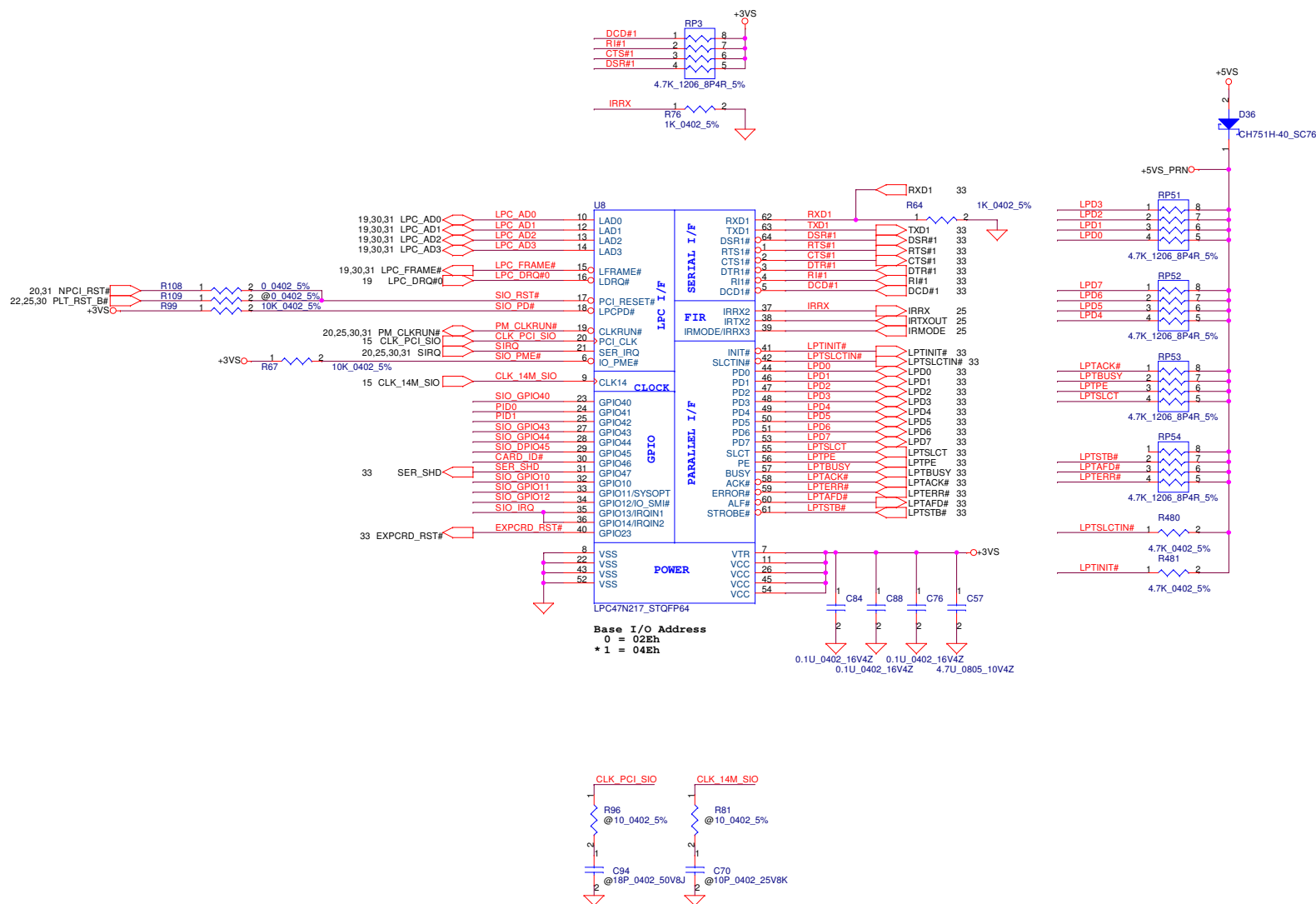
0904 EMI request



BT Connector



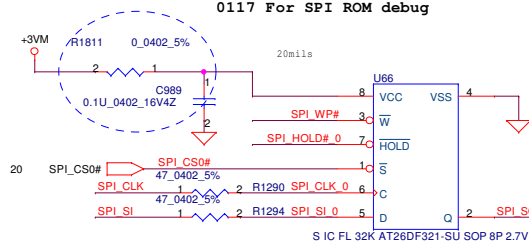
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Issued Date	2006/02/13	Deciphered Date	2006/07/26	Title USB & BT Connector			
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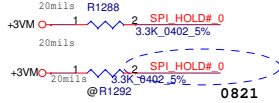
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BIOS ROM

0117 For SPI ROM debug



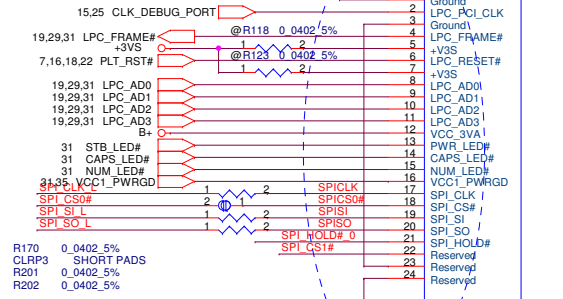
SPI0 (32M*1)



SPI1 (16M*1)

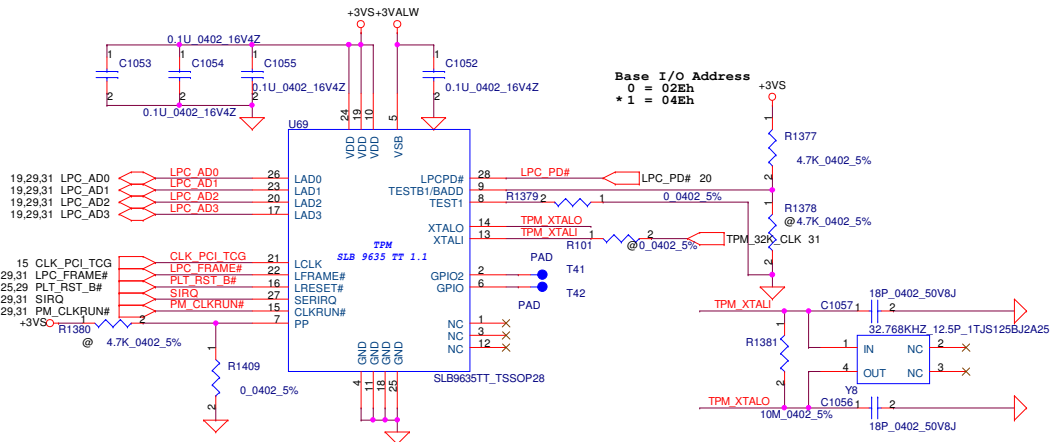
0821 SPI1 no install
0906 SPI1 install
1116 SPI1 no install

Debug port

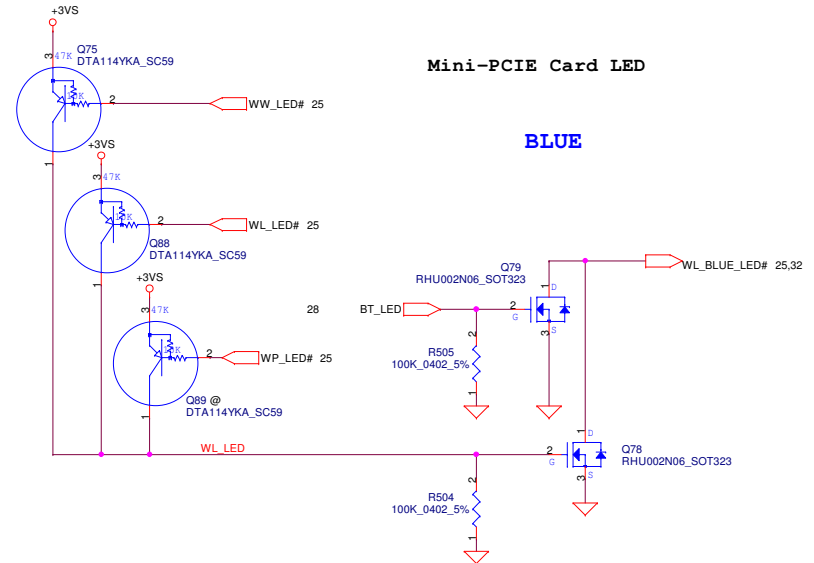


0629 Change Pin3 to Pin23, change Pin24 to GND

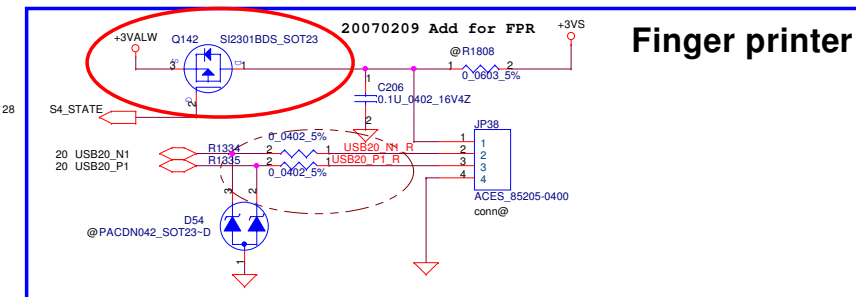
TPM1.2



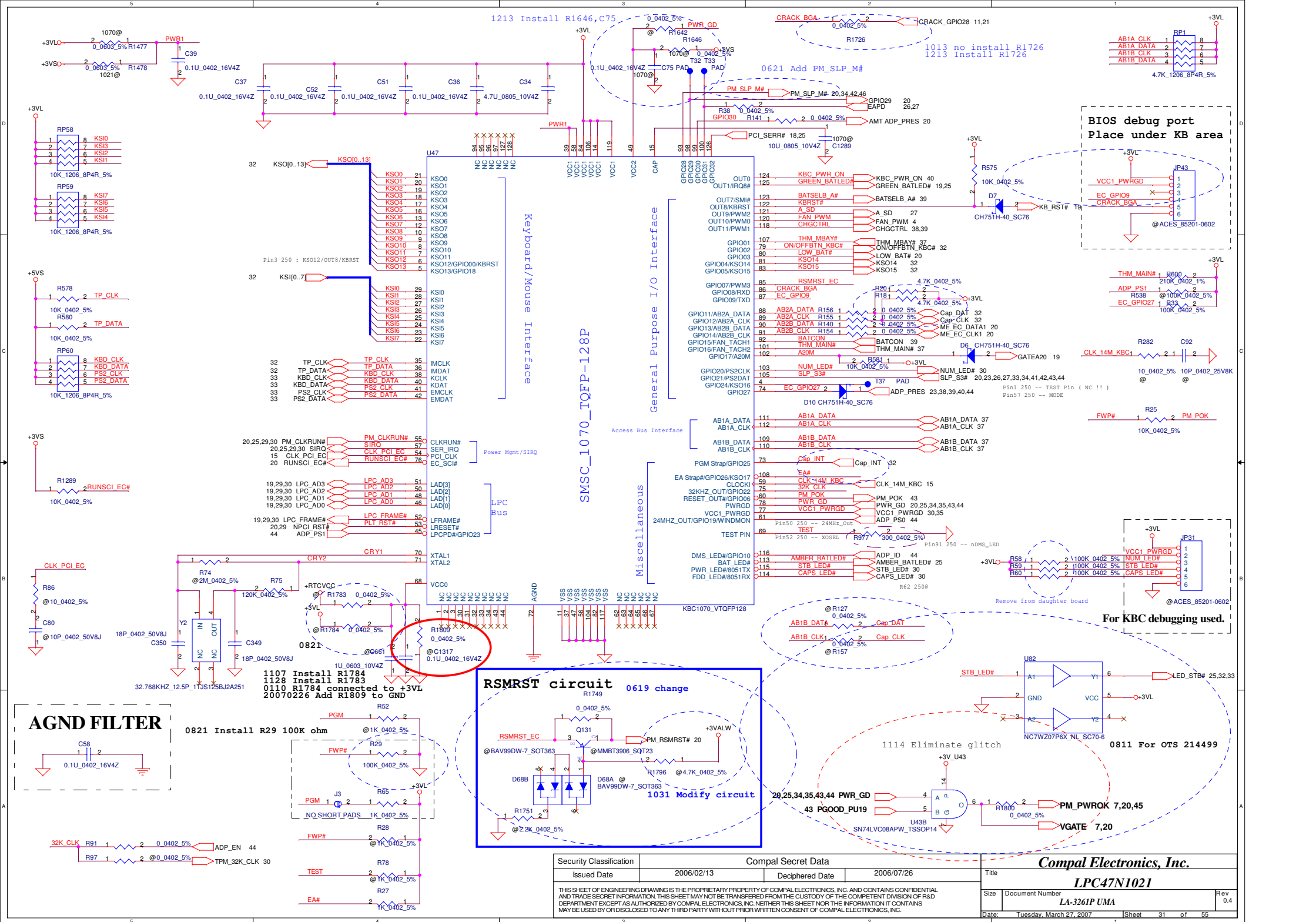
Mini-PCIE Card LED



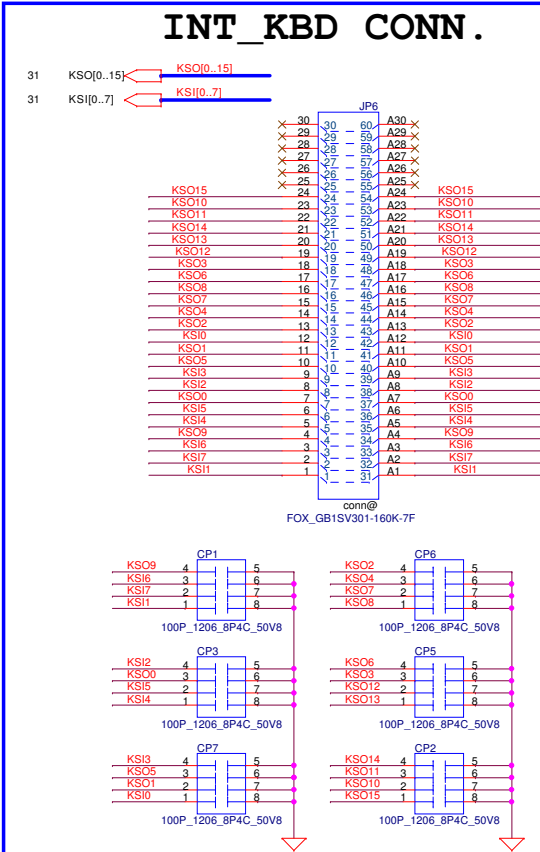
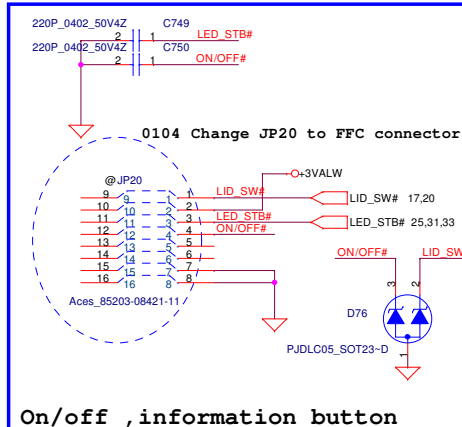
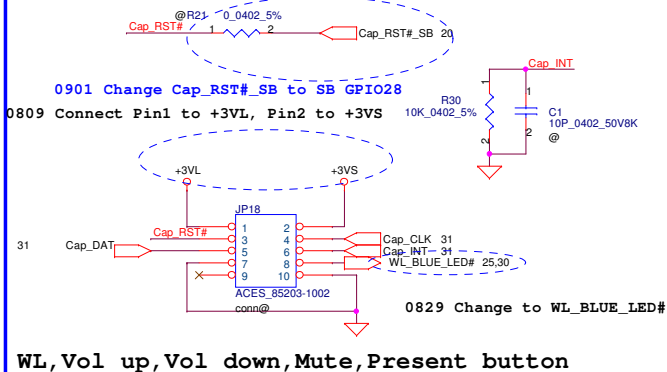
Finger printer



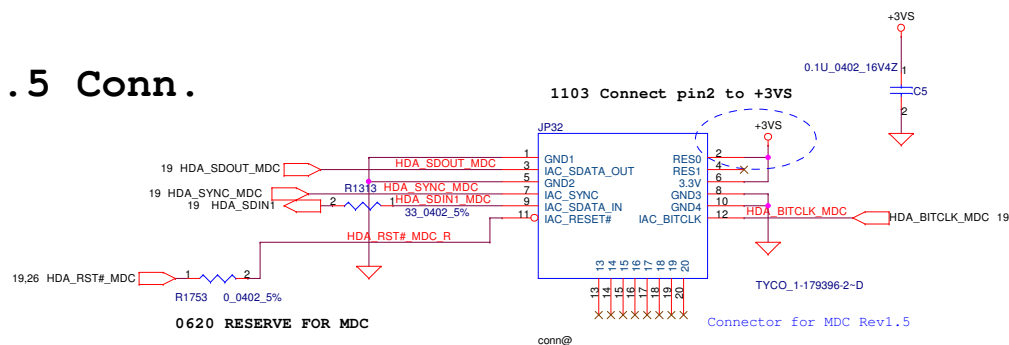
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					Size	Document Number	Rev
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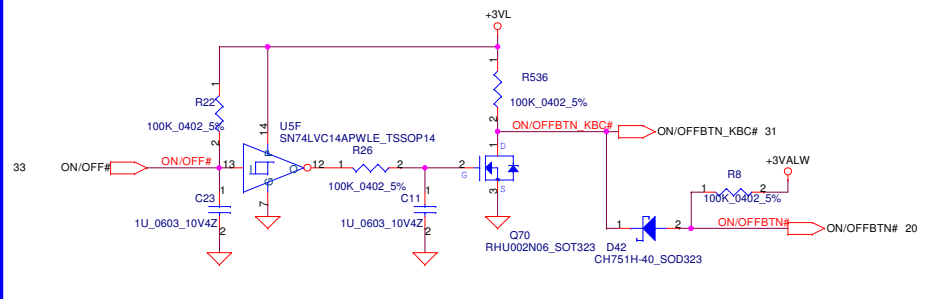
SWITCH BOARD. 0622 change



MDC 1.5 Conn.

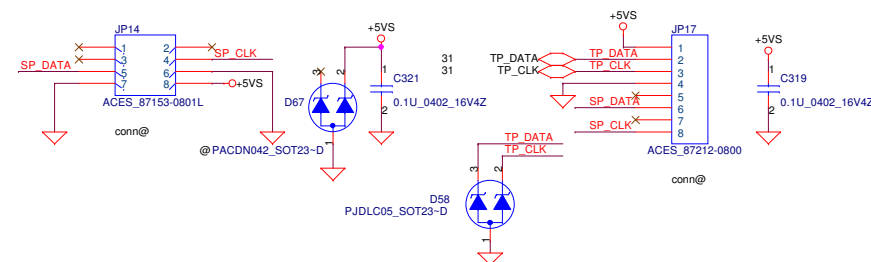


Power button



TrackPoint CONN.

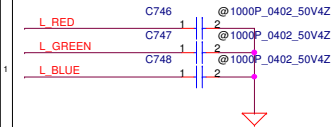
T/P BOARD.



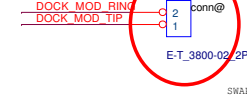
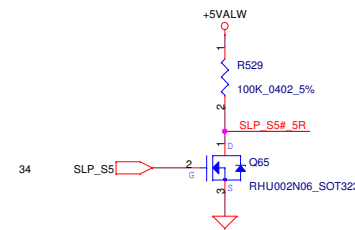
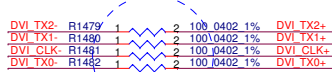
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DOCK CONN. 184PIN

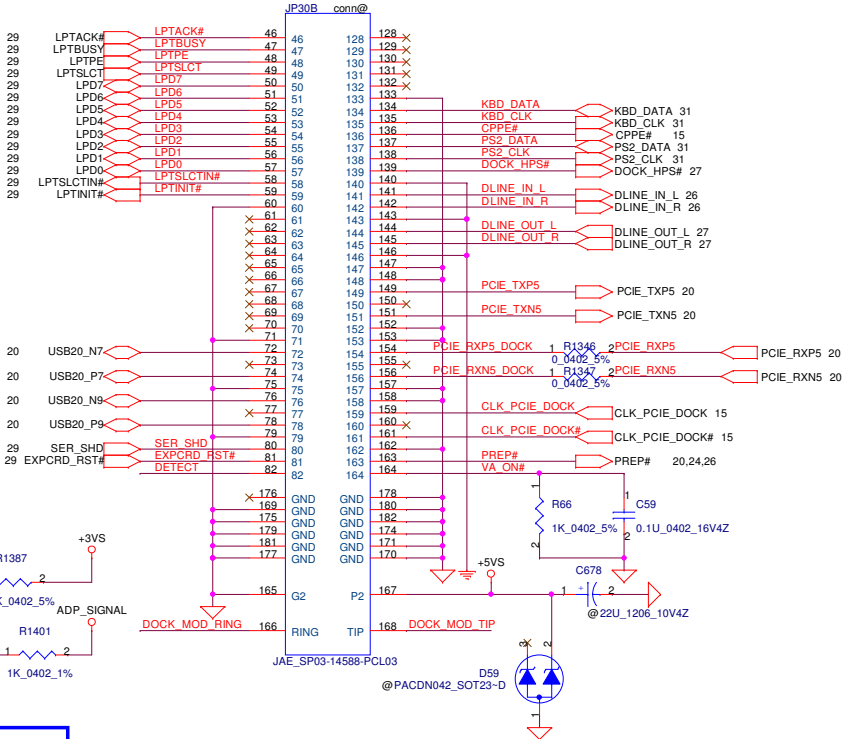
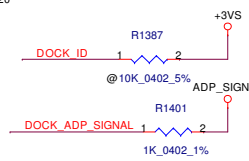
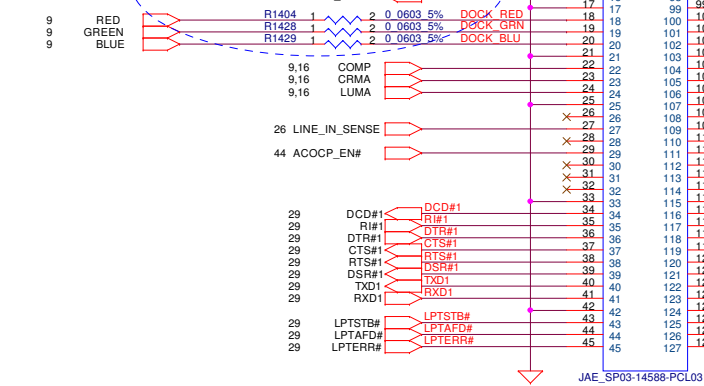
20070226 Change RJ11 connector



Closed to dock JP30

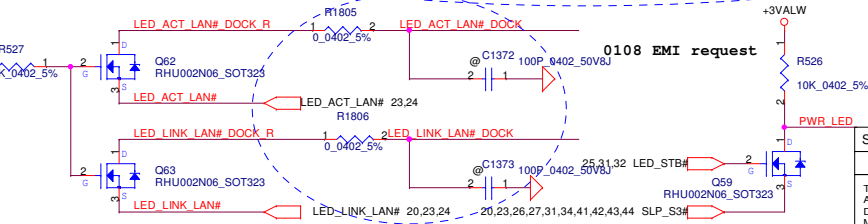
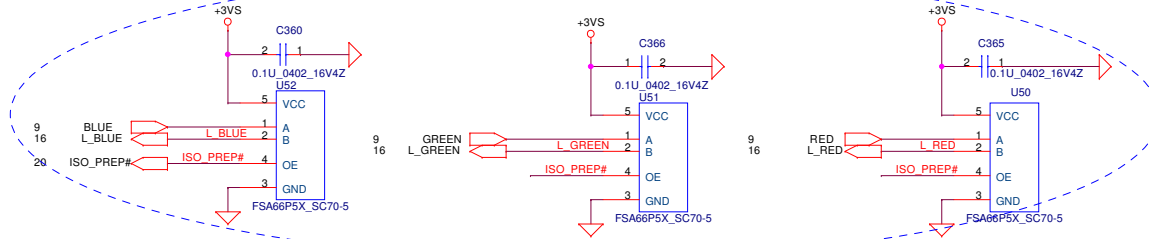


0314 change
1013 change



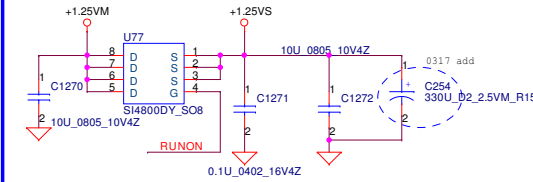
1013 Add CRT circuit

Closed to JP30

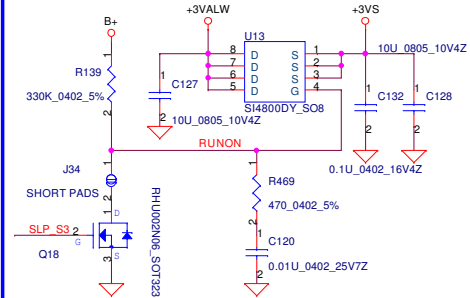


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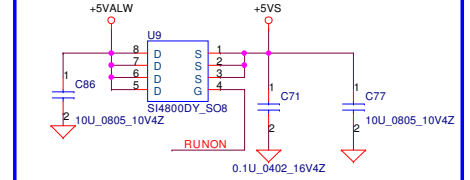
+1.25VM to +1.25VS Transfer



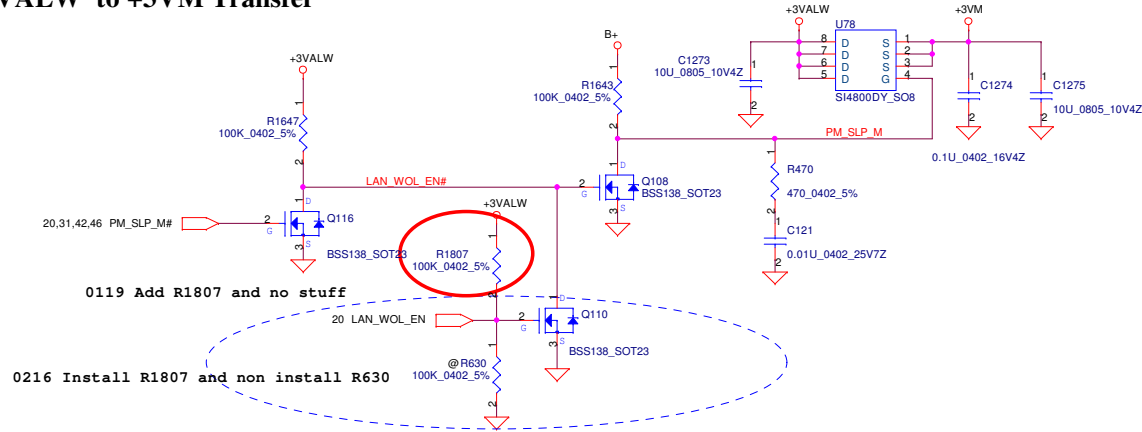
+3VALW to +3VS Transfer



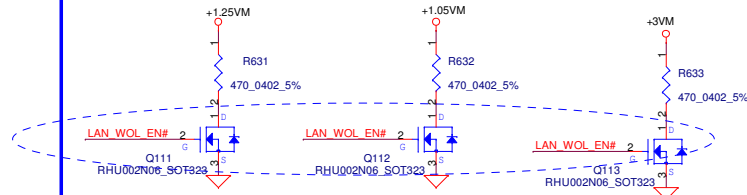
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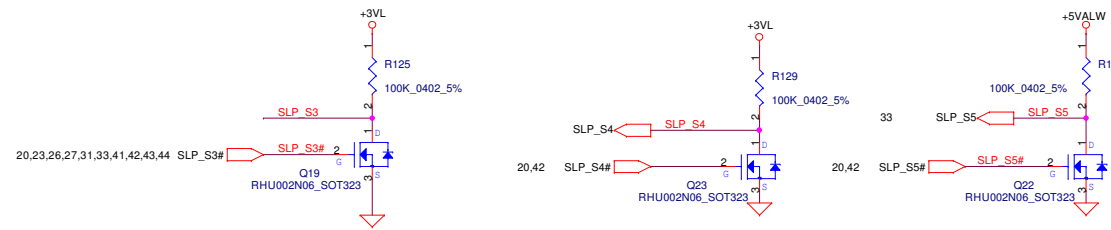
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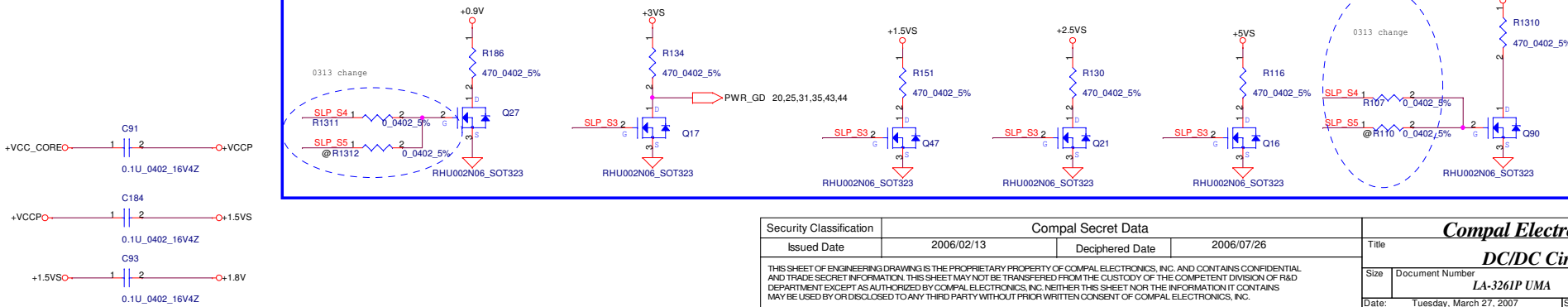
Discharge circuit-2 for V-M



0718 Change net from PM_SLP_M# to LAN_WOL_EN#

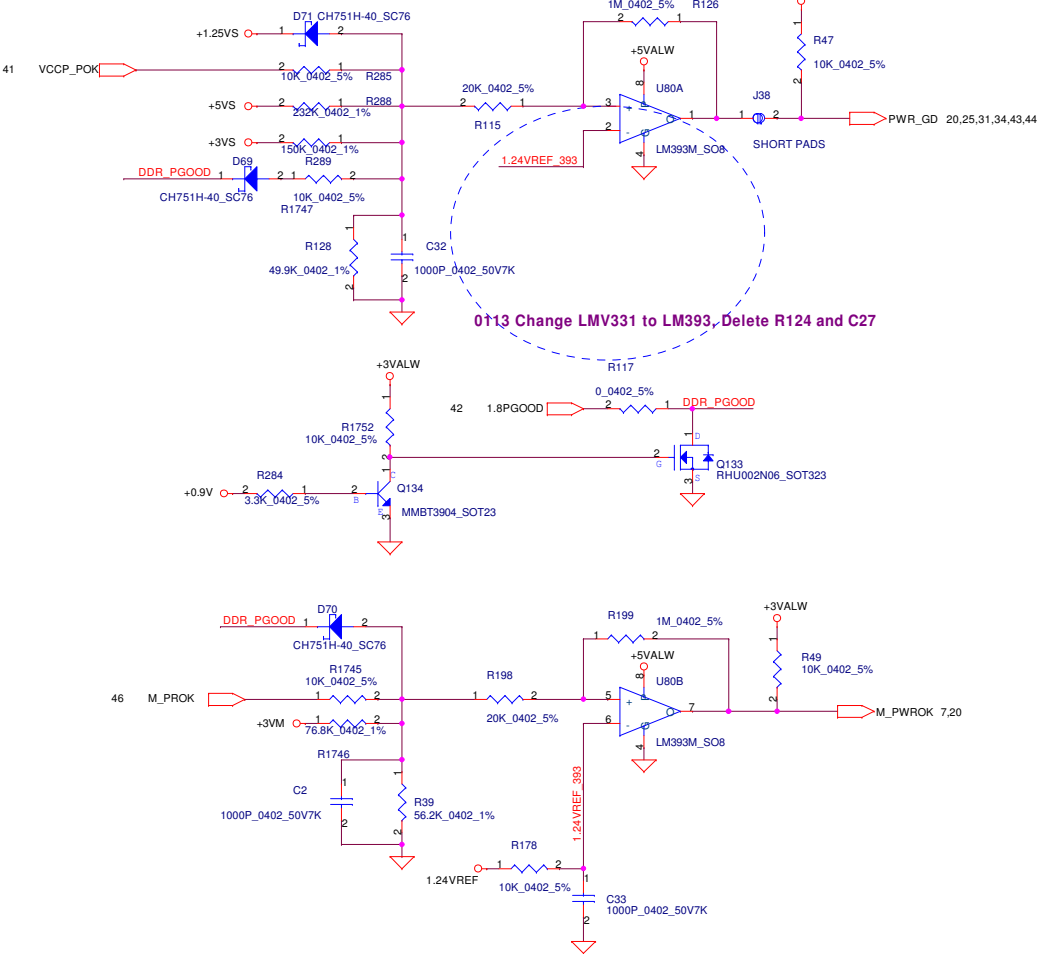


Discharge circuit-1

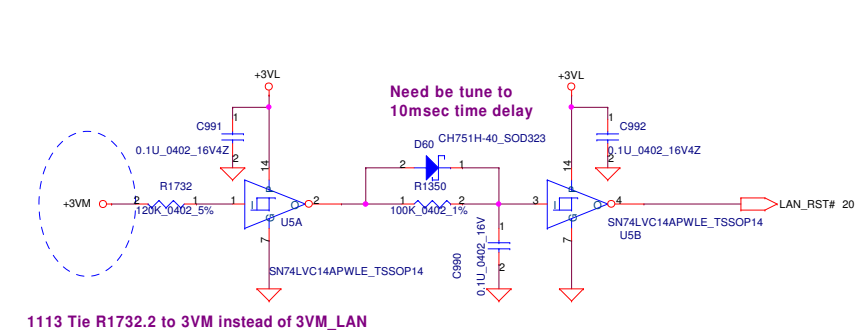


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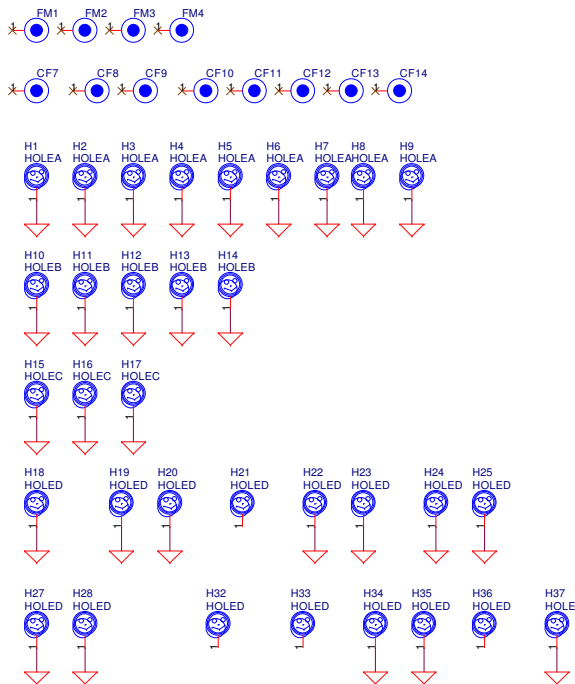
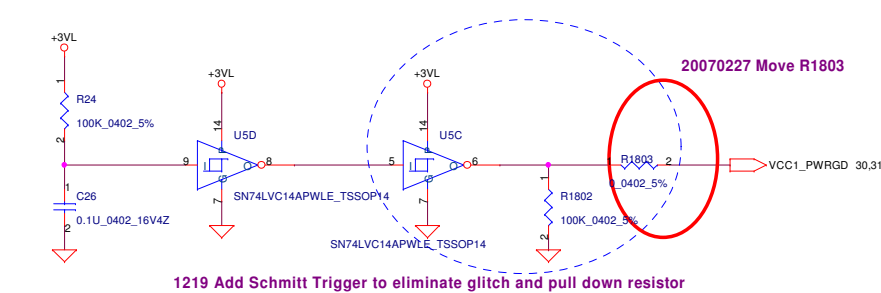
PWR_OK circuit



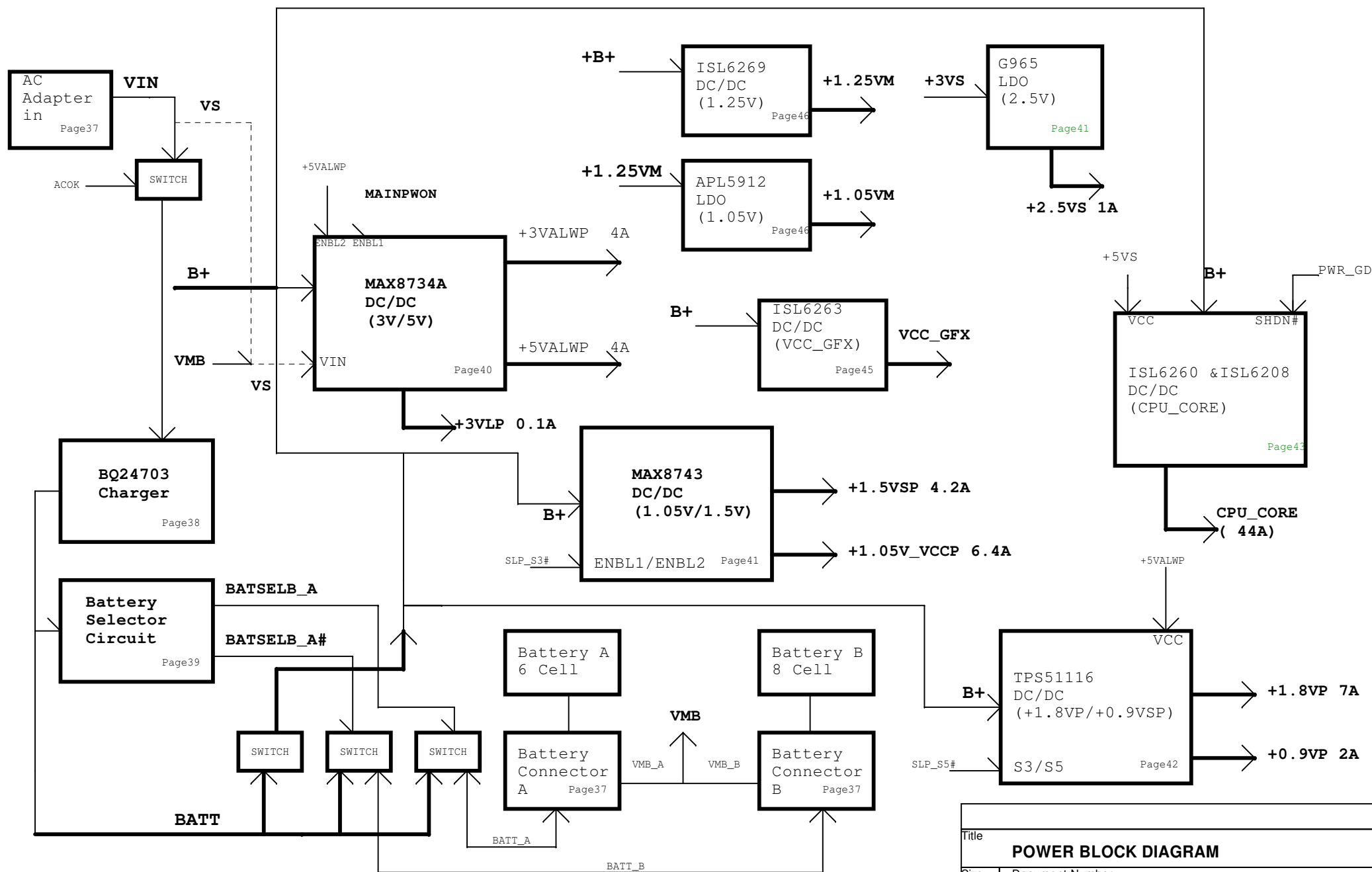
LAN_RST circuit



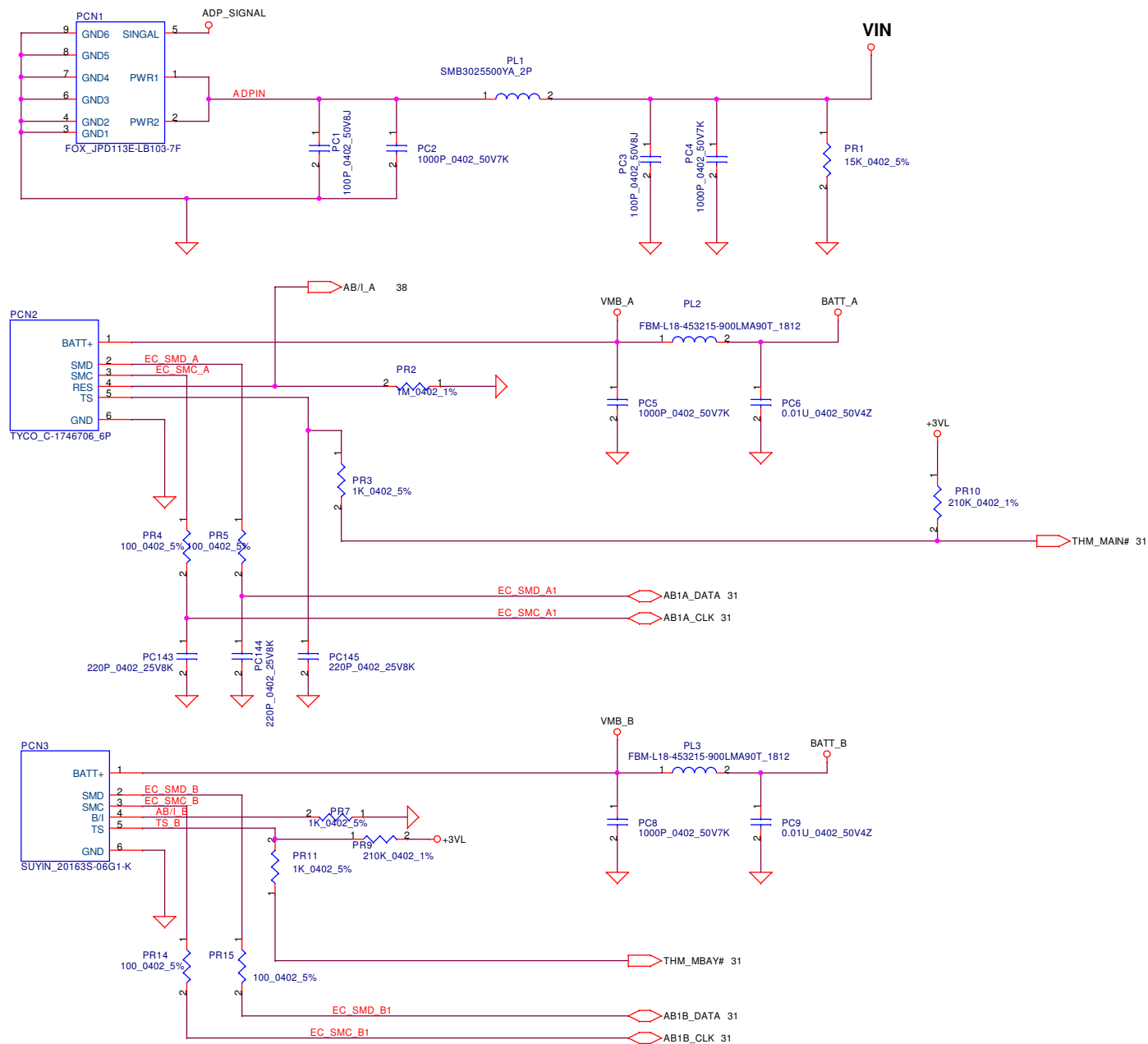
KBC PWR_OK circuit



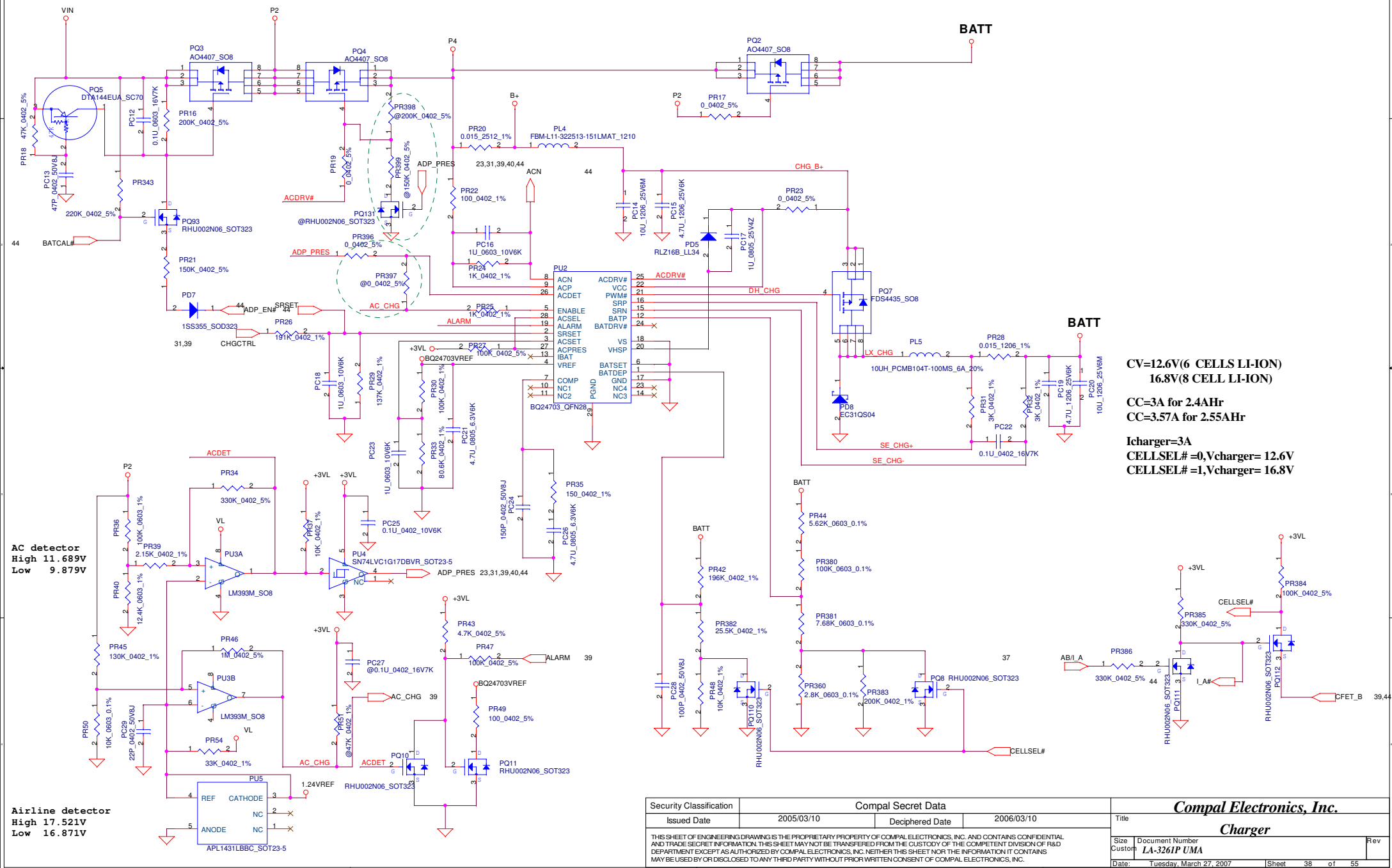
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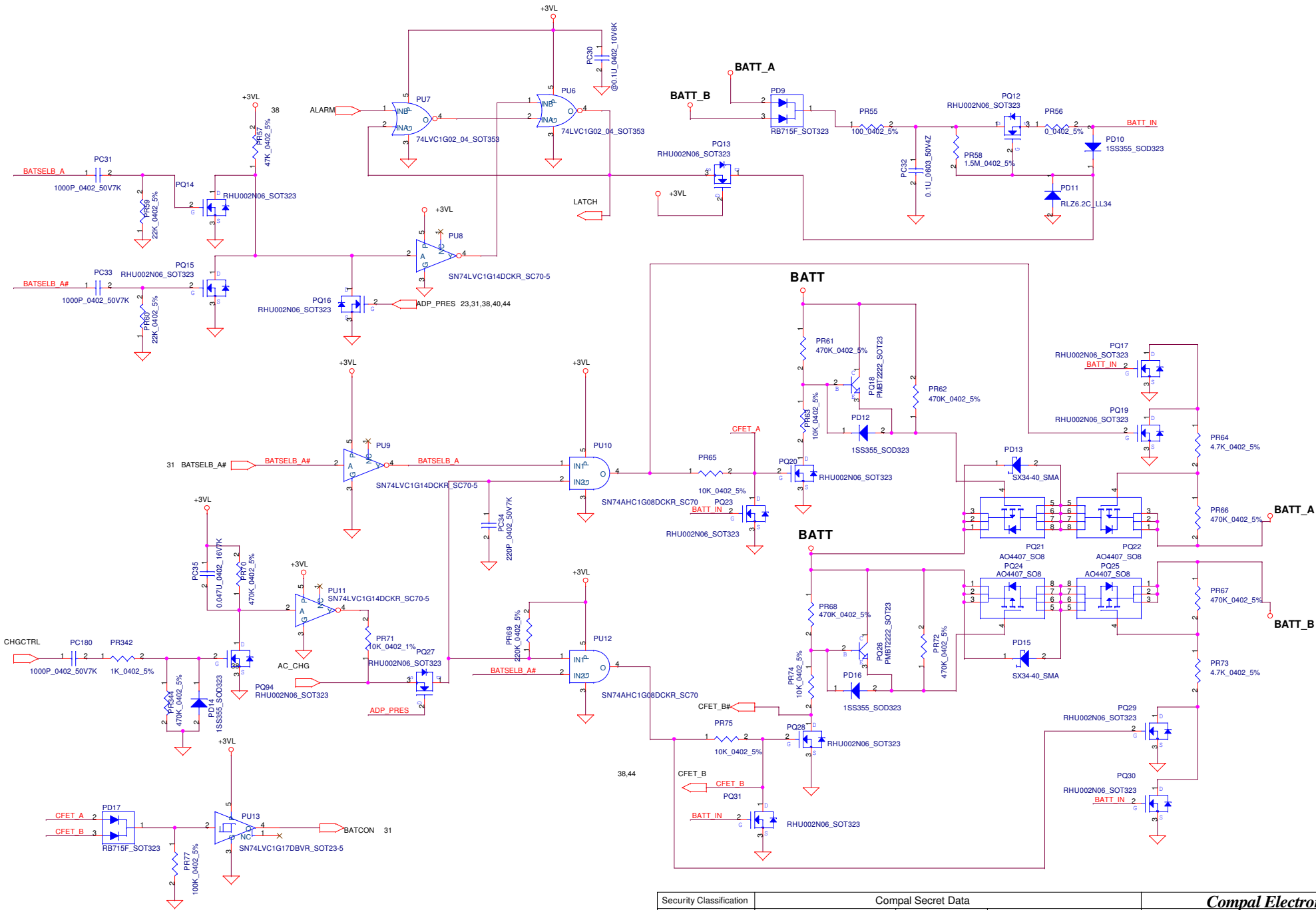


Title		
POWER BLOCK DIAGRAM		
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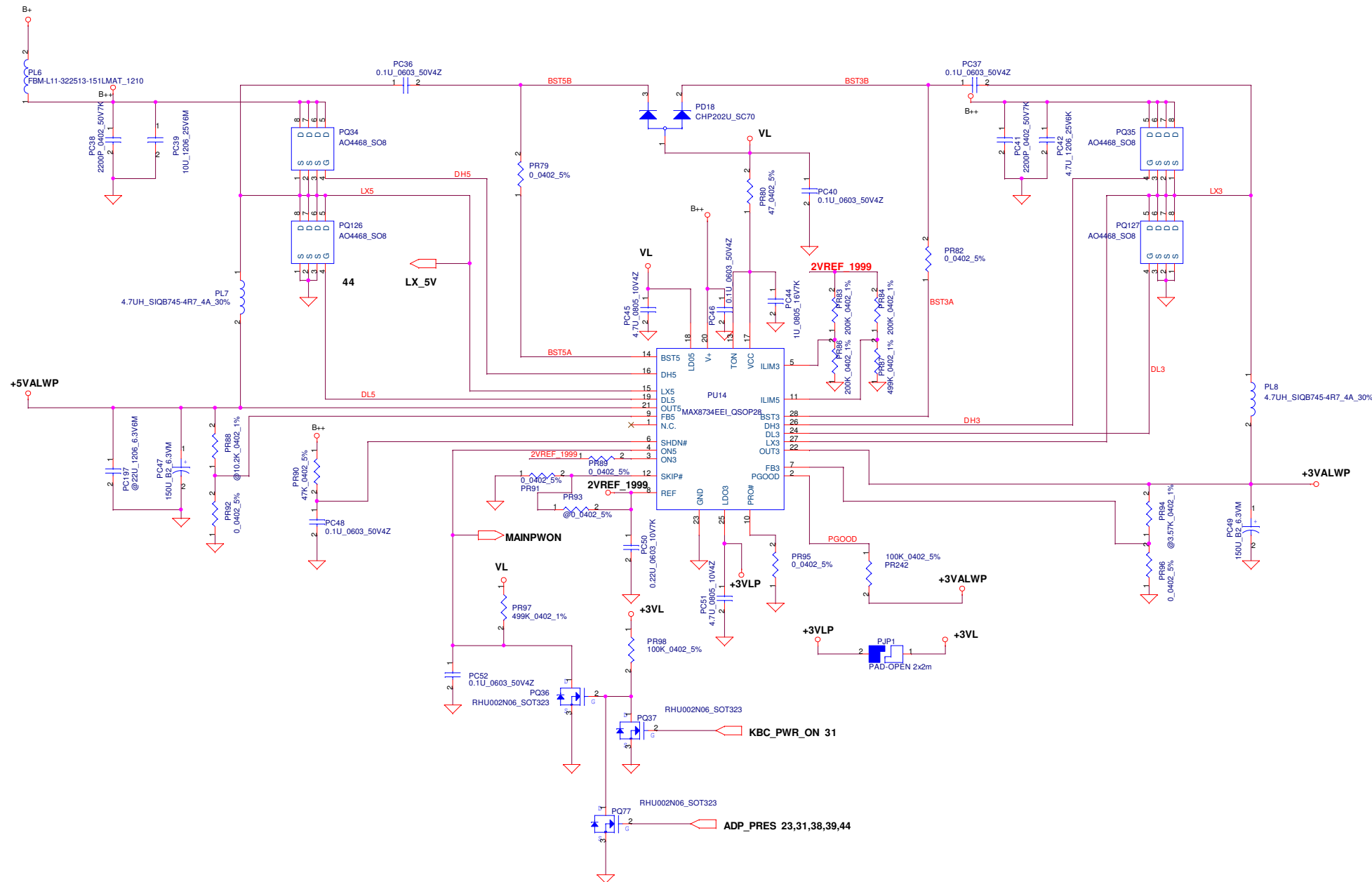


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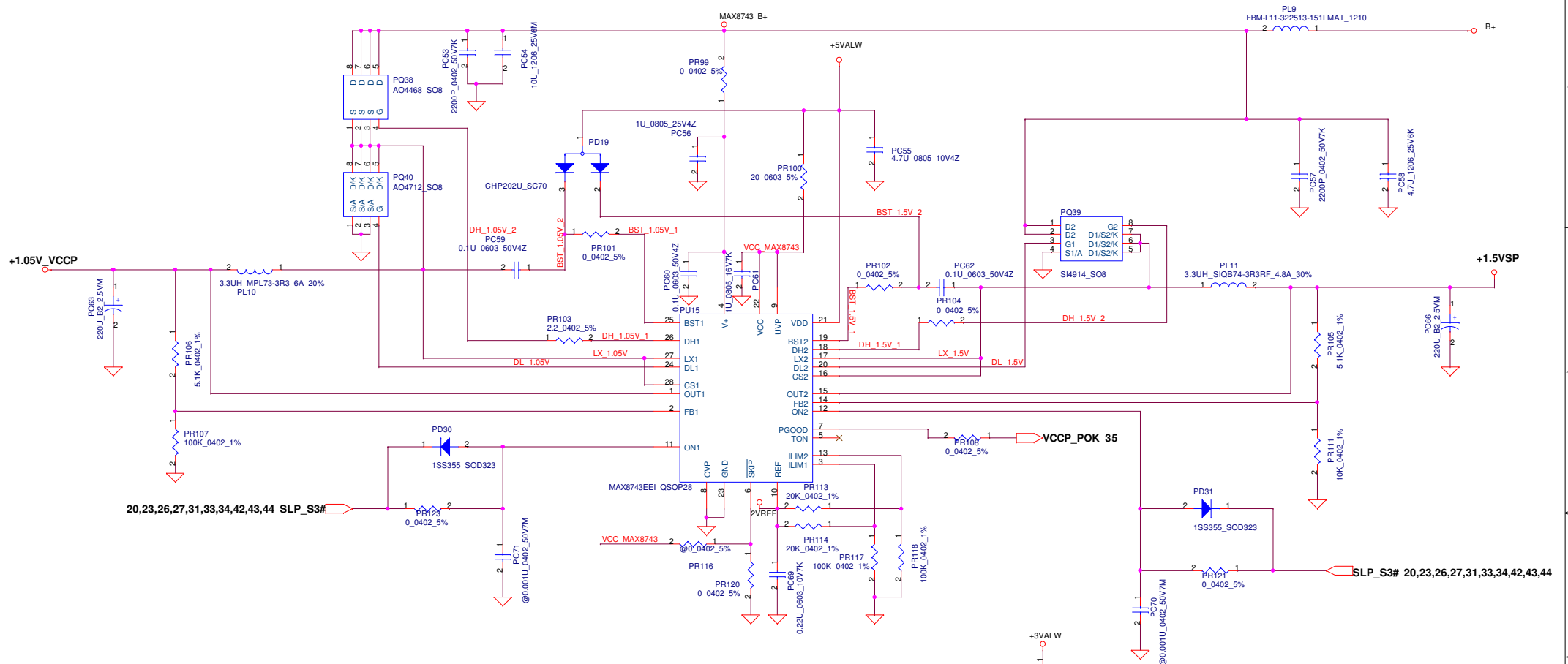




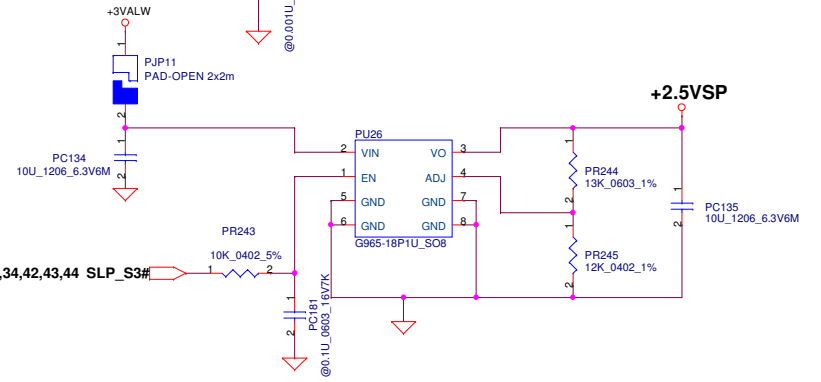
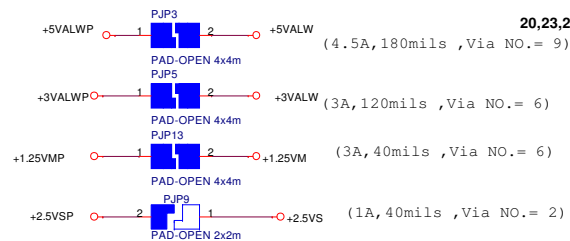
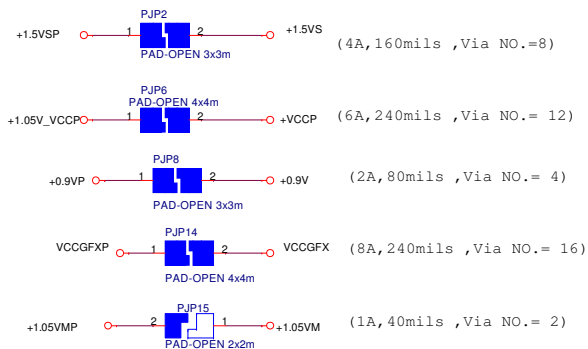
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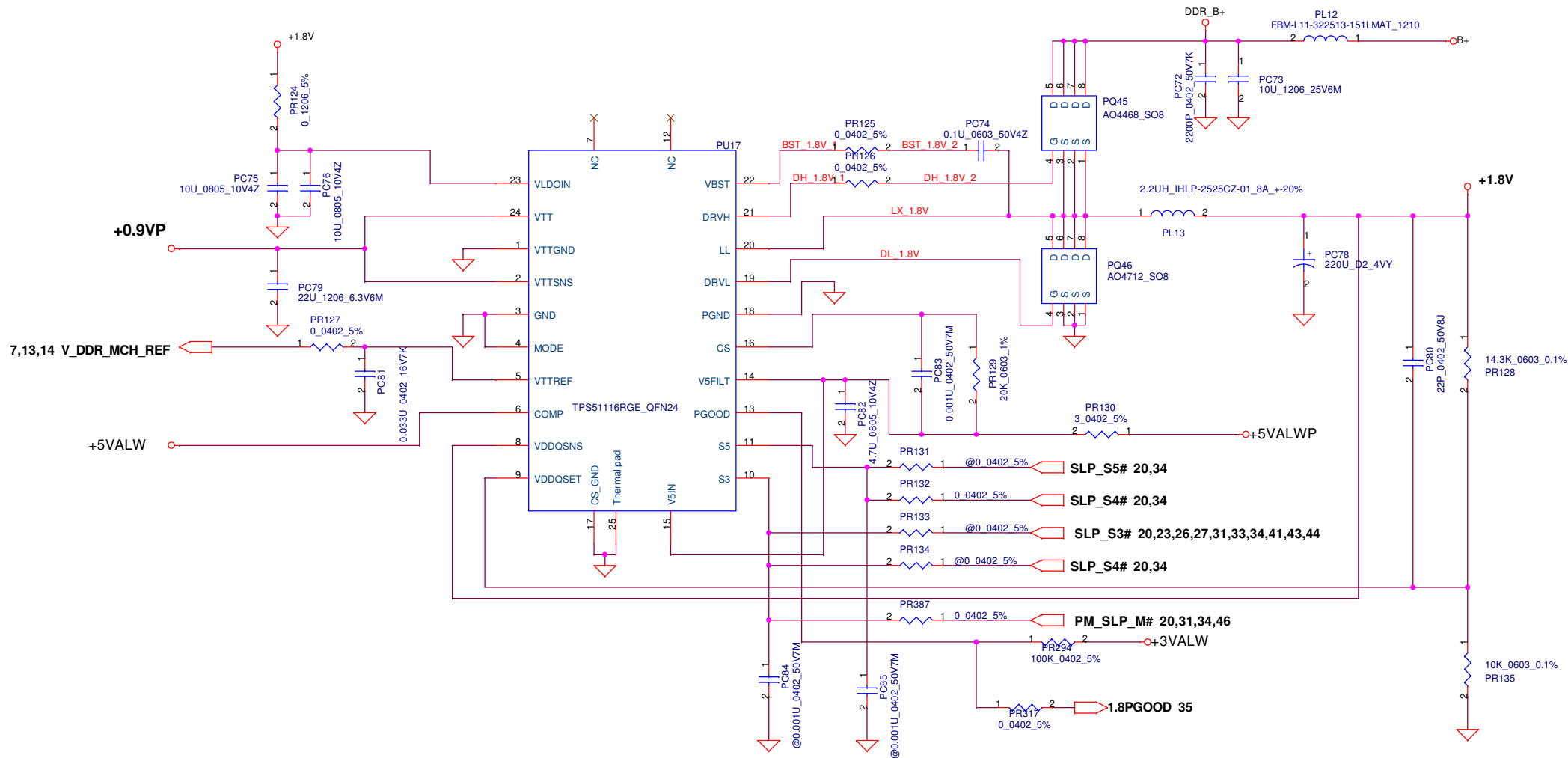
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1.5VSP/+1.05V_VCCP/+2.5V



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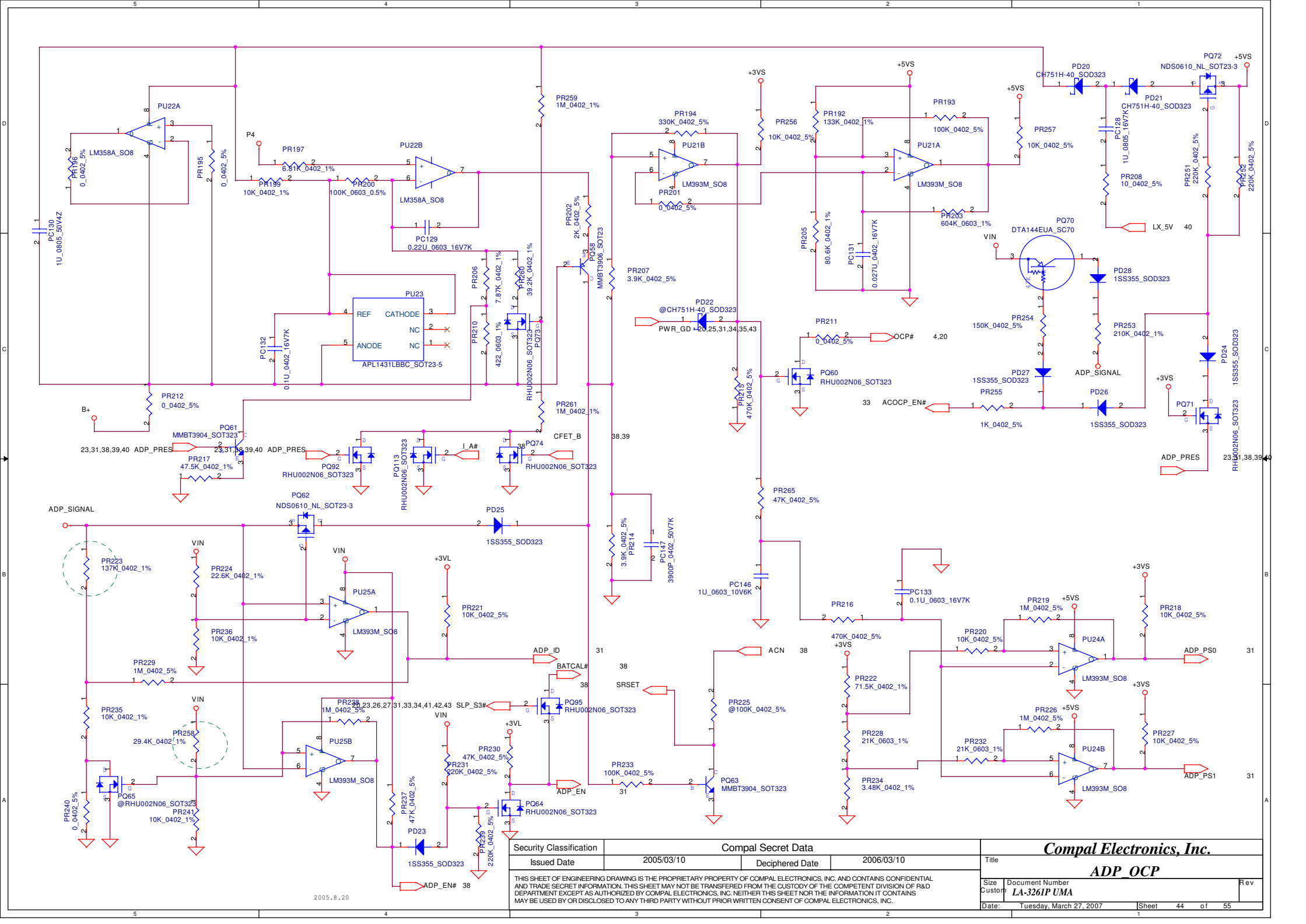
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Compal Electronics, Inc.

1.8V/0.9VS

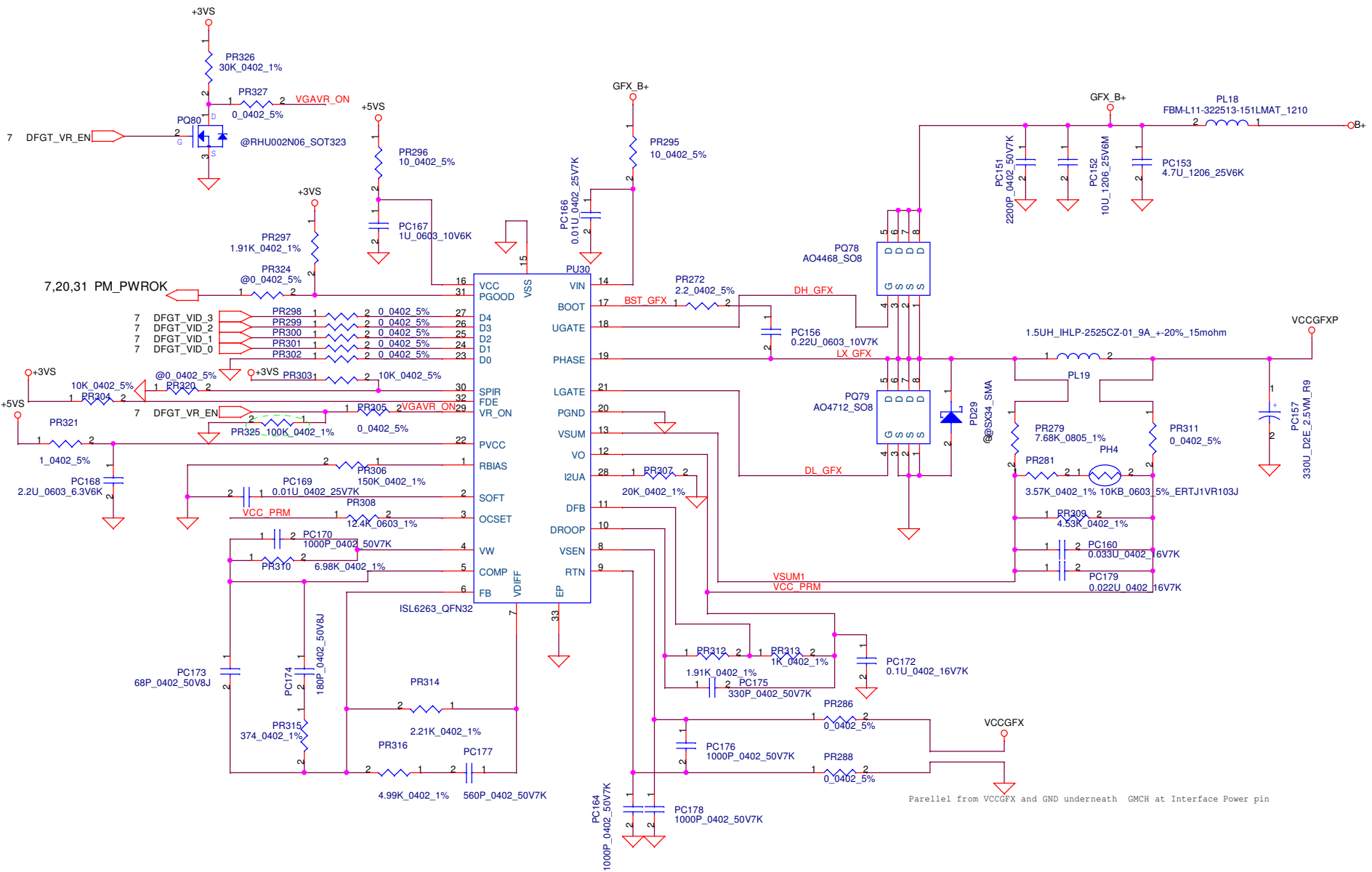
PR179,PR180 are for test need when M/B is without CPU
 R1269,R1270 are same function with PR179,PR180
 Layout Note: Use 27.4 Ohm (PR318,PR319) routing for Vssense and Vccsense

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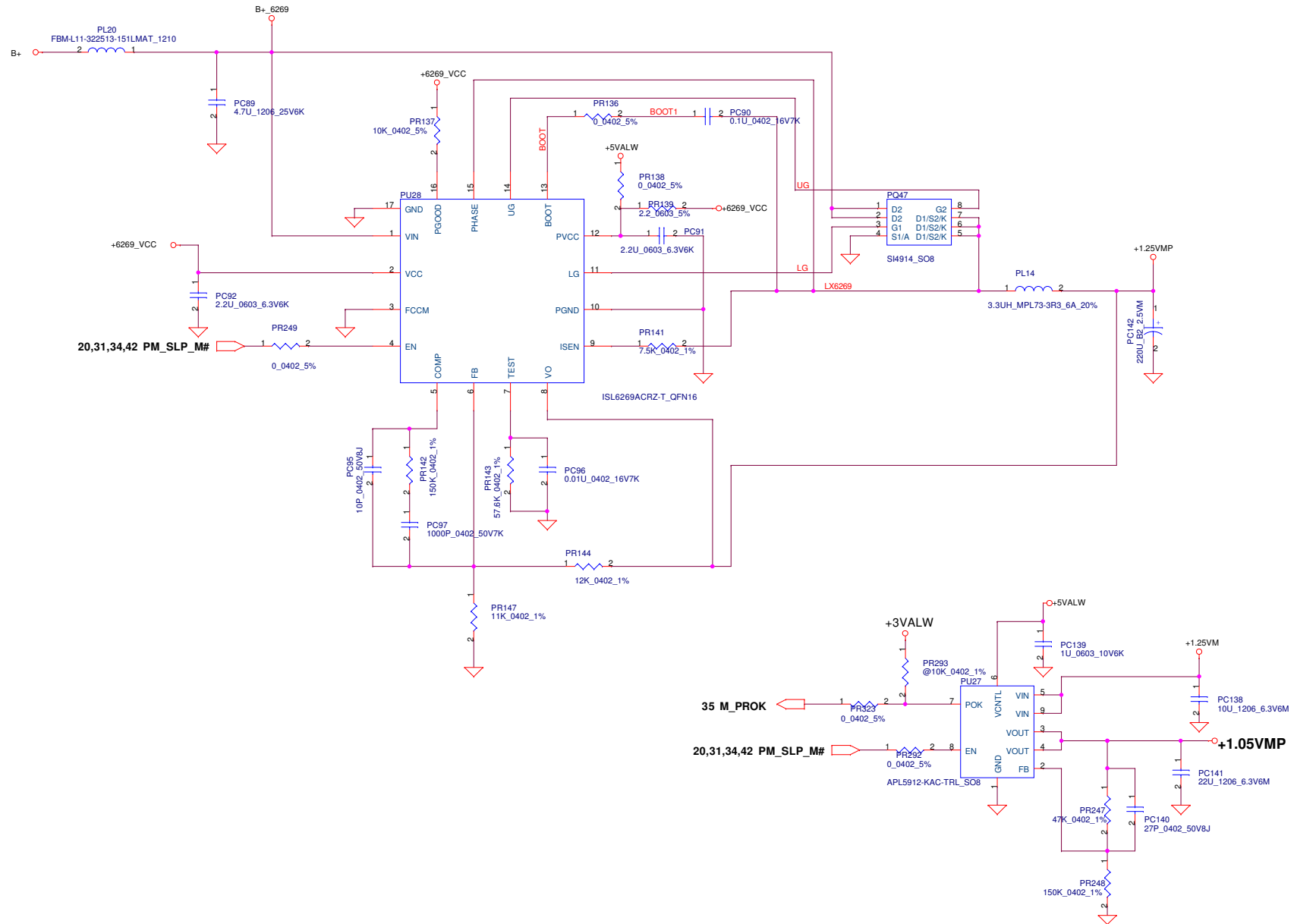


2005.8.20

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					Size	Document Number	Rev
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								Size		Document Number		Rev	
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Version Change List (P. I. R. List)for Power Circuit (1)

Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	Page42	1.8V/0.9V	3/9/2006	HP RL	Power Sequence	No install PR131 and install PR132 Change SLP_S5# at PR134.1 to SLP_S4# No install PR133 and install PR134 Add a 0 ohm resistor PR317 (no stuff) on M_PWROK	DB
2	Page45	VCCGFX	3/9/2006	Compal	MAX8776 VID table can't meet Intel VID SPEC	Change VCCGFX IC solution from MAX8776 to ISL6263	DB
3	Page43	CPU_CORE	3/10/2006	HP RL		Add 27.4 ohm pull-down (no stuff) on VCCSENSE & VSSSENSE near VR	DB
4	Page46	1.25VM/1.05VM	3/9/2006	HP RL	M_PWROK	Add a 0 ohm resistor PR323 (install) on M_PWROK change PR293 pin1 to +3VL	DB
5	Page46	1.25VM/1.05VM	4/10/2006	Compal	Correct 1.25VM voltage setting	Change PR144 to 12K and PR147 to 11K.	DB1-A
6	Page45	VCCGFX	4/10/2006	Compal	Power Sequence	Add a 0ohm PR324 (no stuff) on PM_PWROK	DB1-A
7	Page45	VCCGFX	4/24/2006	Compal	In S3 state, DFGT_VR_EN will no be actively driven, it is better to have a pull down resistor on DFGT_VR_EN.	Add a 30Kohm PR325	DB1-A
8	Page42	1.8V/0.9V	5/15/2006	HP MJ	Power Sequence	Change 1.5S to 1.8V in page 42 at pin 23 (VLDOIN)	DB1-B
9	Page46	1.25VM/1.05VM	5/15/2006	HP MJ	Power Good	Add PU34	DB2
10	Page38	Charge	5/15/2006	compal	For reducing charge temperture.	Change PL5 from 8.2uh MPL73-8R2 to 10UH_PCMB104T-100 Change PR28 from 0.015_2512 to 0.015_1206	DB2
11	Page43	CPU_CORE	6/5/2006	HP MJ	Power Sequence	investigate that SLP_S3# connect VR_ON and PM_POK connect PGD_IN	DB2
12	Page41	VCCP&1.5VS	6/5/2006	compal	Swap +1.05V_VCCP and +1.5VS location for improving power plane.	Change PR107 from 100k to 10K,PR111 from 10K to 100K.	DB2
13	Page37,38,44		6/22/2006	HP MJ	Chimay support for new battery cell chemistries	P38 : Remove PR52, PR38, PR41,PR53, PQ9 P39 :remove PR262, PR263, PR264, PR76, PQ75, PQ76, PQ32 P37: Add PQ81~PQ91 PR329~PR341,PD32~PD36 P38 :Add PD37 P44 :Add PQ92,PD38,PD39	DB2
14	Page41	2.5VALW/1.5VS /1.05VCCP	8/17/2006	HP MJ	For sequence fine tune	Add PC181 but not be installed	SI
15	Page43	CPU_CORE	8/17/2006	HP RL	Add 68ohm pull up to +VCCP at PU19.4 per Intel DG1.0 sec. 4.4.1.3 Figure 50	Add PR345 as 68ohm between +VCCP and PU19.4	SI
16	Page44	ADP_OCP	11/08/2006	HP RL	Identify 65W adapter as full adapter	Change PR223 from 180K to 182K, PR258 from 29.4K to 22.6K	SI2
17	Page43	CPU_CORE	11/08/2006	compal	For EMI concern, add snabber	Add PR349 and PR347 as 4.7ohm, Add PC183 and PC182 as 680pF Change boost resistor (PR148 and PR157)from 0 to 2 ohm	SI2
18	Page38	Charge	11/08/2006	compal	Base on "Energy STAR" spec, reduce S5 and S3 power consumption (AC mode)	Uninstall PQ11	SI2
19	Page42	1.8V/0.9V	11/13/2006	HP	Add PM_SLP_M# sequence	Add PR387	SI2

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Version Change List (P. I. R, List)for Power Circuit (2)

Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
20	Page43	CPU_CORE	2/28/2007	Compal	Fine tune CPU CORE solution	No install PC122 Change PR185 from 3K to 1.96K Change PR190 from 6.19K to 6.34K	MV
21	Page44	ADP_OCP	2/28/2007	HP	System identity	Change PR223 from 182K to 137K Change PR258 from 22.6K to 29.4K	MV
22	Page38	Charger	3/1/2007	Compal	Reserve circuit for testing Energy STAR	Reserve PR397, PR398, PR399 and PQ131 Add PR396 as 0 ohm.	MV

For DBI-B

<2006.03.29>

<2006.04.10>

<2006.04.21>

<2006.04.24>

For DBI-C

<2006.05.15>

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
1		Reserve resisters on Debug ports	30	Add R170, R201, R202 and CLRP3 jopen	0.2
2	SATA footprint is wrong	SATA connector's PCB footprint is wrong	22	change to OCTEK_SAT-22DD1G_22P	0.2
1		follow Intel suggestion for XDP_DBRESET#	4, 20	R243 no install and R1589 install (XDP_DBRESET#)	0.2
2		Change component' s footprint for supply and layout easy	07	R1443 change from 0603 size to 0402	0.2
3		+VCC_PEG should be 1.05V instead of 1.25V for Creatline	10	R1465 install and R1467 no install	0.2
4		Monitor NB cracked pins	11	Add Q118, Q119, Q120, Q121, Q122, Q123, R1700, R1701, R1702 R1703, R1704, R1705, R1706, R1707, R1708, R1709, R1710, R1711	0.2
5		Monitor SB cracked pins	21	Add Q124, Q125, Q126, Q127, R1716, R1712, R1713, R1717 R1718, R1714, R1719, R1715	0.2
6	SPI BIOS can not flash.	For SPI BIOS flash issue	23	Delete Q102, R178 and Q115 Q102 pin1 short to pin3--->+3VM connect to +3VM_LAN PLT_RST# connect to PM_LAN_EN	0.2
1		For LAN link status	18	change PCI_PIRQG to LED_LINK_LAN# and add R1727 0 ohm	0.2
2		For LAN active status	23	Add LED_ACT_LAN# this net	0.2
3		For ADP_PRES new design	20	add D68 and disconnect LED_LINK_LAN#	0.2
4		For LAN net name	19	change net name from LAN_RST to LAN_RSTSYNC change net name from LANLINK_STATUS# to LED_LINK_LAN#	0.2
5		For Compal Fan design	4	change Fan connector pin 1 and pin4	0.2
1		For NIC RST	20 35	change net name from PM_LAN_EN to LAN_RST# Add a Resister R1722(0 ohm), R1732, R1731(no install) change net name from PGD_IN to LAN_RST# Install C991, C990, C992, D60, R1350 Adjust C990 and R1350 value to 0.1uF and 100K ohm.	0.2
1	System can not power on	For RTC CLK	19	add R1733	0.3
2	LAN can not work	For LAN function	23	modify LAN relative schematics	0.3
3		For PWR OK	35	Change R124 pin2's voltage from 0.9v to 1.24VREF Change R1732 pin2's voltage from 3VM to 3VM_LAN	0.3

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For DB2
<2006.05.29>

<2006.06.12>

<2006.06.14>

Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.
1		Add new feature (Kill switch)	22	Add R1736, jp53, R1737 and Q129	0.4
2		modify CRACK_GPIO28 circuits	11 21	delete R1700, R1707, R1705-->NB delete R1712, R1713, R1714-->SB	0.4
3		Change pull up for CK505 strapping	15	on R1108, R1690, R1245 from +3.3VM_CK505 to +3VS	0.4
4		for LAN IVRI thermal protect and limit current.	23	add R1	0.4
5		Add resisters for GPI pins floating	20	addR3, R6, R9, R11, R15	0.4
6		Change KBC RST pin	31	change from PLT_RST# to NCPI_RST#	0.4
7		Change to USB port assignments	28	Move Dock1 from USB8 to USB7 and move WWAN from USB3 to USB8	0.4
1		New PCIE assignments	20	Updated Changes: PCie - port1 = Free PCie - port2 = WLAN PCie - port3 = Free PCie - port4 = Robson PCie - port5 = Docking PCie - port6 = Intel LOM is fixed at this location	
2		Change SW design to Capsense SW.	32	Change SW Connector JP18 type and relative circuits	
3		Add new feature (Robson)	15	Add R5, R13 on SRC6 and R14, R17 on CLKREQ_E#	
4		Change GPIO pins	18 20	change GPIO4(SB) from LED_LINK_LAN# to PCI_PIRQ# change GPIO1(SB) from CB_PE# to LANLINK_STATUS#(i)	
5		Change HP debug port power source	30	Add R1740, R1741 and connect to +3vs	
6		Change KBC 1070 GPIO pins	31	CRACK_GPIO28 from GPIO28(KBC) to GPIO8(KBC) add R155, R156, R18, R20 and their signals connect to JP18 Add Cap_INT on GPIO25(KBC)	
7		change WALN power source	25	change from +3valw to +3vM	
8		Change U75 power source for LAN function	23	U75 should be powered by V3.3M instead of 1.8VM	
9		Change USB power switch control pin	28	From S5 to S4_STATE# to control USB power	
10		For support 2GB DIMMs	7 13, 14	BJ29 pin and BE24 pin (NB)connect to DDR DIMMA, B(A14 pin)	
11		For Crestline sightings requires	7	add a 0ohm R1759 on pin N20(NB).	
1		Modify PWROK circuits for All power source check	35	Change R1732 pin2's voltage from 3VM to 3VM_LAN	

Security Classification		Compal Secret Data		Title	
Issued Date	2005/03/01	Deciphered Date	2005/04/06	HW PIR	
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Item	Fixed Issue	Reason for change	PAGE	Modify List	M.B. Ver.																														
3		Intel update	7	Add R1786,R1787,R1788,R1789	0.5																														
<2006.09.01> 1		HP request	32	Remove R23 and NPCI_RST# connection Remove PLT_RST# connection to R21.2 and connect GPIO28 from ICH8	0.5																														
<2006.09.04> 1		EMI request	28	Add R1790,R1791,R1792	0.5																														
<2006.09.06> 1		HP request	23	Change C1257 and C1359 to 10uF 0805	0.5																														
2		HP request	25	Remove R1412,1413,1414,1415,1416,1417	0.5																														
3		HP request	25	Remove R1418,1358,1353,1360	0.5																														
4		HP request	30	Add 0 ohm for SPI, R1793,1794,1795	0.5																														
<2006.10.13> 1		HP request (MAX9511 issue)	9,16,33	Remove MAX9511 from CRT circuit	0.6																														
2			11,21,31	No install BGA crack circuit	0.6																														
3			32	Change KB connector	0.6																														
<2006.10.31> 1			31	Change RSMRST circuit, add R1796	0.6																														
<2006.11.01> 1		Auto power on issue	20	Auto power on issue(add Q140, R1797)	0.6																														
2		1394 issue	28	Modify EMI request	0.6																														
<2006.11.03> 1		HP request	32	Connect JP32 pin2 to +3VS	0.6																														
<2006.11.07> 1		HP request	31	Install R1784, no install R1783	0.6																														
2		Intel document	10	Change R1471 to 100 ohm	0.6																														
<2006.11.09> 1		Layout space	22	Remove kensinton circuit	0.6																														
<2006.11.11> 1		HP request	15	Add CLRP4 and CLRP5 for FSB 667/800 select	0.6																														
<2006.11.13> 1		HP request	35	Tie R1732.2 to 3VM instead of 3VM_LAN	0.6																														
2		HP request	24	Change R1639 to 1.4K based on Intel WW44	0.6																														
3		HP request	4	Add resistors in series with the diode signals going to ADM1032.	0.6																														
4		HP request	31	Eliminate glitch circuit, install R1483 and no install R1484	0.6																														
<table border="1"><tr><td colspan="2">Security Classification</td><td colspan="2">Compal Secret Data</td><td colspan="2"></td></tr><tr><td colspan="2">Issued Date</td><td colspan="2">2005/03/01</td><td colspan="2">Deciphered Date 2005/04/06</td></tr><tr><td colspan="4">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.</td><td colspan="2">Title HW PIR</td></tr><tr><td colspan="2">Size Custom</td><td colspan="3">Document Number LA3261P_UMA</td><td>Rev 0.1</td></tr><tr><td colspan="2">Date:</td><td colspan="2">Tuesday, March 27, 2007</td><td colspan="2">Sheet 53 of 55</td></tr></table>						Security Classification		Compal Secret Data				Issued Date		2005/03/01		Deciphered Date 2005/04/06		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.				Title HW PIR		Size Custom		Document Number LA3261P_UMA			Rev 0.1	Date:		Tuesday, March 27, 2007		Sheet 53 of 55	
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