

Compal Confidential

G470/G570 DIS+UMA+Muxless M/B Schematics Document

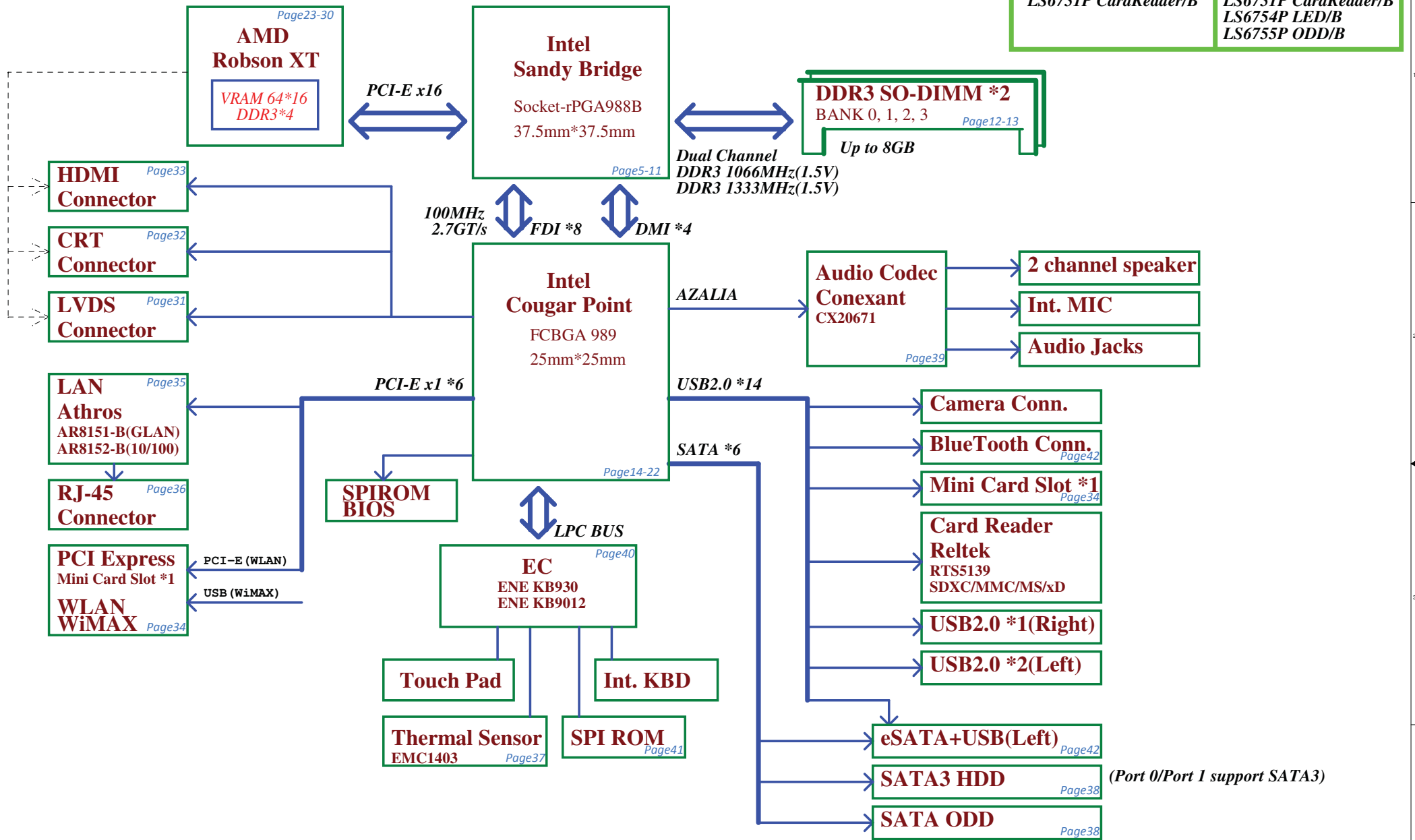
Intel Sandy Bridge Processor with DDRIII + Cougar Point PCH
ATI Robson/PX3.0,PX4.0

2010-07-22

LA-6758P

REV: 0.1

Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	Cover Page
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Voltage Rails

power plane	State	+B	+5VALW +3VALW	+1.5V	+5VS +3VS +1.5VS +VCCP +CPU_CORE +VGA_CORE +GFX_CORE +1.8VS +0.75VS +1.05VS
S0		○	○	○	○
S3		○	○	○	✗
S5 S4/AC		○	○	✗	✗
S5 S4/ Battery only		○	✗	✗	✗
S5 S4/AC & Battery don't exist		✗	✗	✗	✗

EC SM Bus1 address

EC SM Bus2 address

Device	Address	Device	Address
Smart Battery	0001 011Xb	Thermal Sensor EMC1403-2	1001_101xb
		Thermal Sensor EMC1402-1	100_1100b

PCH SM Bus address

Device	Address
DDR DIMM0	1001 000Xb
DDR DIMM2	1001 010Xb

SMBUS Control Table

	SOURCE	VGA	BATT	KE930	SODIMM	WLAN WWAN	Thermal Sensor	PCH
SMB_EC_CK1	KB930	✗	✓	✗	✗	✗	✗	✗
SMB_EC_DA1	+3VALW		+3VALW					
SMB_EC_CK2	KB930	✗	✗	✗	✗	✗	✗	✓
SMB_EC_DA2	+3VALW							+3VS
SMBCLK	PCH	✗	✗	✗	✓	✓	✗	✗
SMBDATA	+3VALW				+3VS	+3VS		
SML0CLK	PCH	✗	✗	✗	✗	✗	✗	✗
SML0DATA	+3VALW							
SML1CLK	PCH	✓	✗	✓	✗	✗	✓	✗
SML1DATA	+3VALW	+3VS		+3VS			+3VS	

STATE	SIGNAL	SLP_S1#	SLP_S3#	SLP_S4#	SLP_S5#	+VALW	+V	+VS	Clock
Full ON		HIGH	HIGH	HIGH	HIGH	ON	ON	ON	ON
S1 (Power On Suspend)		LOW	HIGH	HIGH	HIGH	ON	ON	ON	LOW
S3 (Suspend to RAM)		LOW	LOW	HIGH	HIGH	ON	ON	OFF	OFF
S4 (Suspend to Disk)		LOW	LOW	LOW	HIGH	ON	OFF	OFF	OFF
S5 (Soft OFF)		LOW	LOW	LOW	LOW	ON	OFF	OFF	OFF

BOARD ID Table

Board ID	PCB Revision
0	0.1
1	
2	
3	
4	
5	
6	
7	

Board ID / SKU ID Table for AD channel

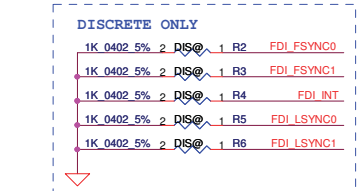
Vcc	3.3V +/- 5%				
Ra/Rc/Re	100K +/- 5%				
Board ID	Rb / Rd / Rf	VAD_BID min	VAD_BID typ	VAD_BID max	
0	0	0 V	0 V	0 V	EVT
1	8.2K +/- 5%	0.216 V	0.250 V	0.289 V	DVT
2	18K +/- 5%	0.436 V	0.503 V	0.538 V	PVT
3	33K +/- 5%	0.712 V	0.819 V	0.875 V	MP
4	56K +/- 5%	1.036 V	1.185 V	1.264 V	
5	100K +/- 5%	1.453 V	1.650 V	1.759 V	
6	200K +/- 5%	1.935 V	2.200 V	2.341 V	
7	NC	2.500 V	3.300 V	3.300 V	

USB Port Table

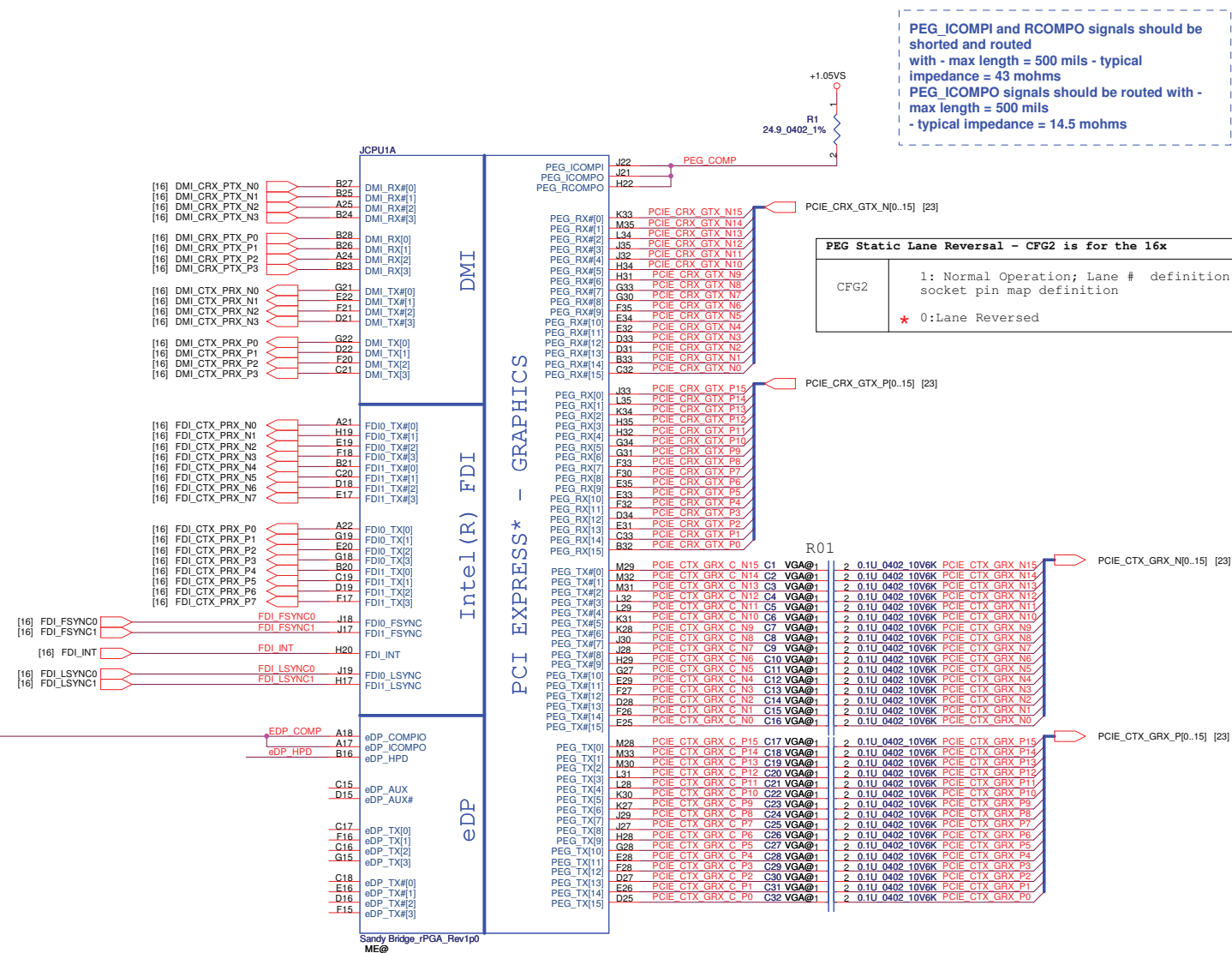
USB 2.0	USB 1.1	Port	3 External USB Port
EHCI1	UHCI0	0	USB/B (Right Side)
		1	USB Port (Left Side)
	UHCI1	2	USB Port (Left Side)
		3	USB Port (Left Side)
	UHCI2	4	
		5	Camera
	UHCI3	6	
		7	
EHCI2	UHCI4	8	Mini Card(WLAN)
		9	
	UHCI5	10	
		11	Card Reader
	UHCI6	12	
		13	Blue Tooth

BOM Structure Table

BTO Item	BOM Structure
UMA only	PX@
Muxless	PX@+VGA@
Discrete Only	DIS@+VGA@
PX3.0 only, not for BACO	PX3@
BACO	BACO@
COMMON HDMI	HDMI@
UMA HDMI	UMA_HDMI@
Discrete HDMI	VGA_HDMI@
eSATA	ESATA@
Blue Tooth	BT@
Connector	ME@
45 LEVEL	45@
10/100 LAN	8152@
GIGA LAN	GIGA@
Camera	CMOS@
Unpop	@



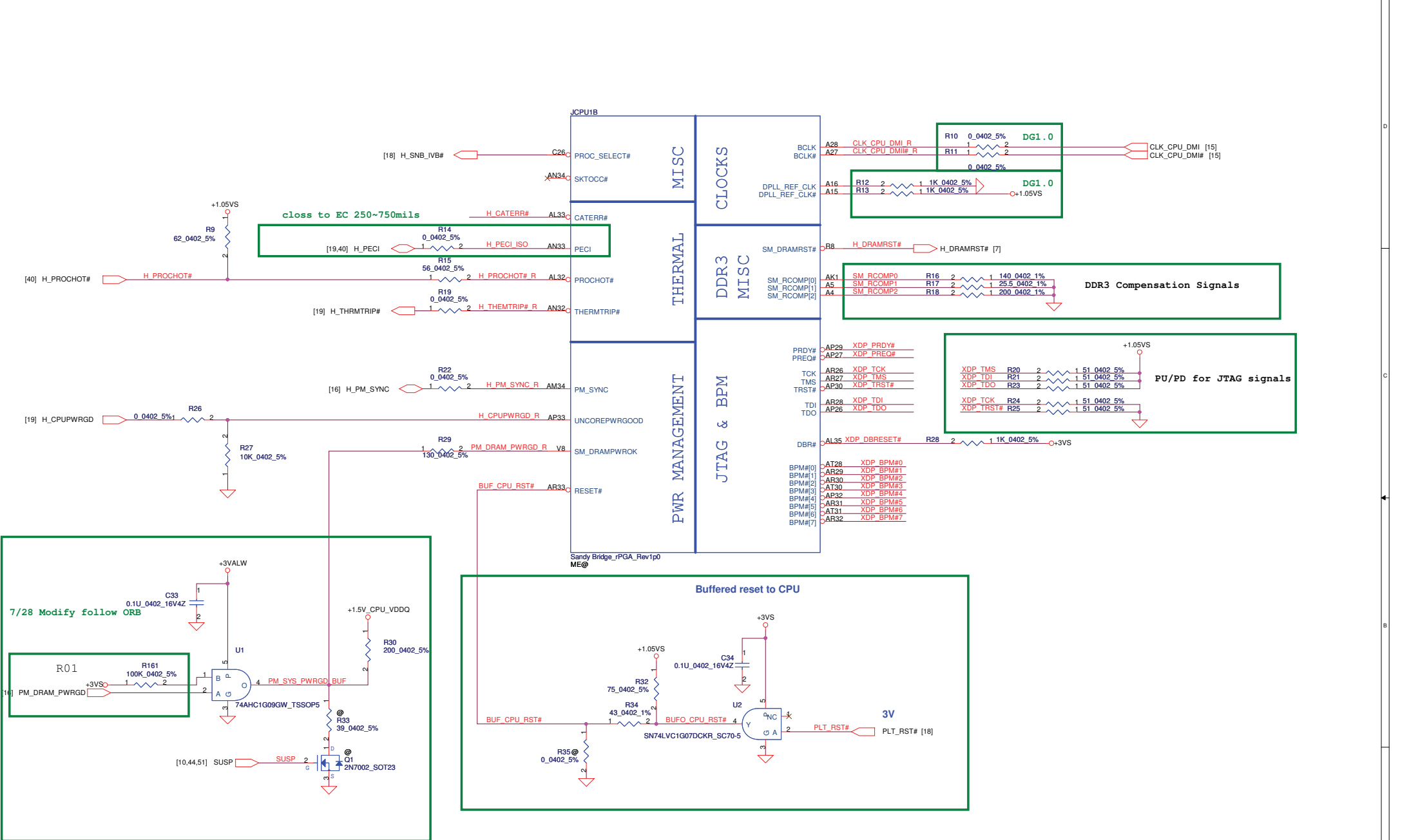
eDP_COMPIO and ICOMPO signals should be shorted near balls and routed with typical impedance <25 mohms

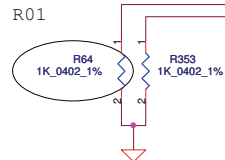
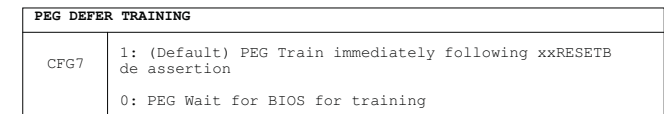
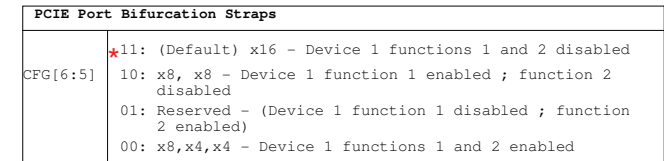
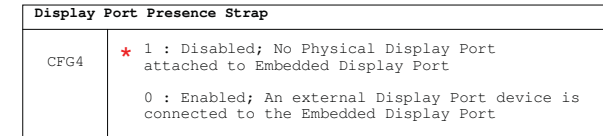
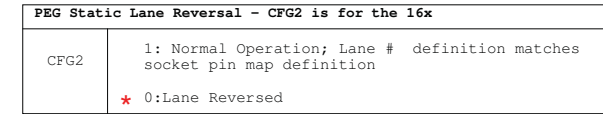


PEG_ICOMPI and RCOMPO signals should be shorted and routed with - max length = 500 mils - typical impedance = 43 mohms
PEG_ICOMPO signals should be routed with - max length = 500 mils - typical impedance = 14.5 mohms

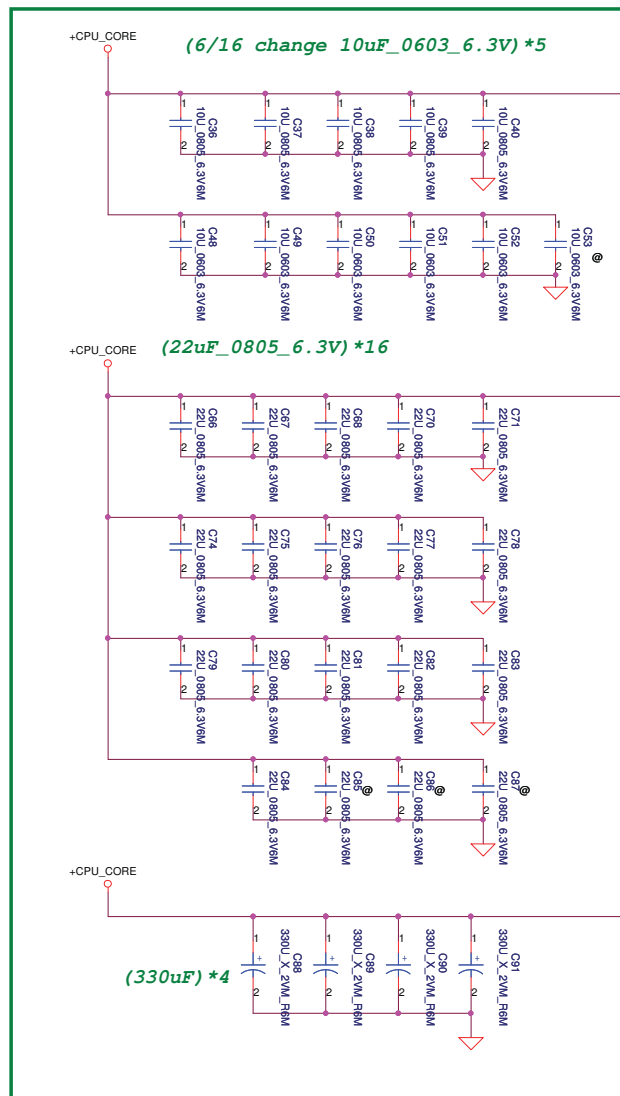
PEG Static Lane Reversal - CFG2 is for the 16x

CFG2	1: Normal Operation; Lane # definition matches socket pin map definition
*	0: Lane Reversed





POWER



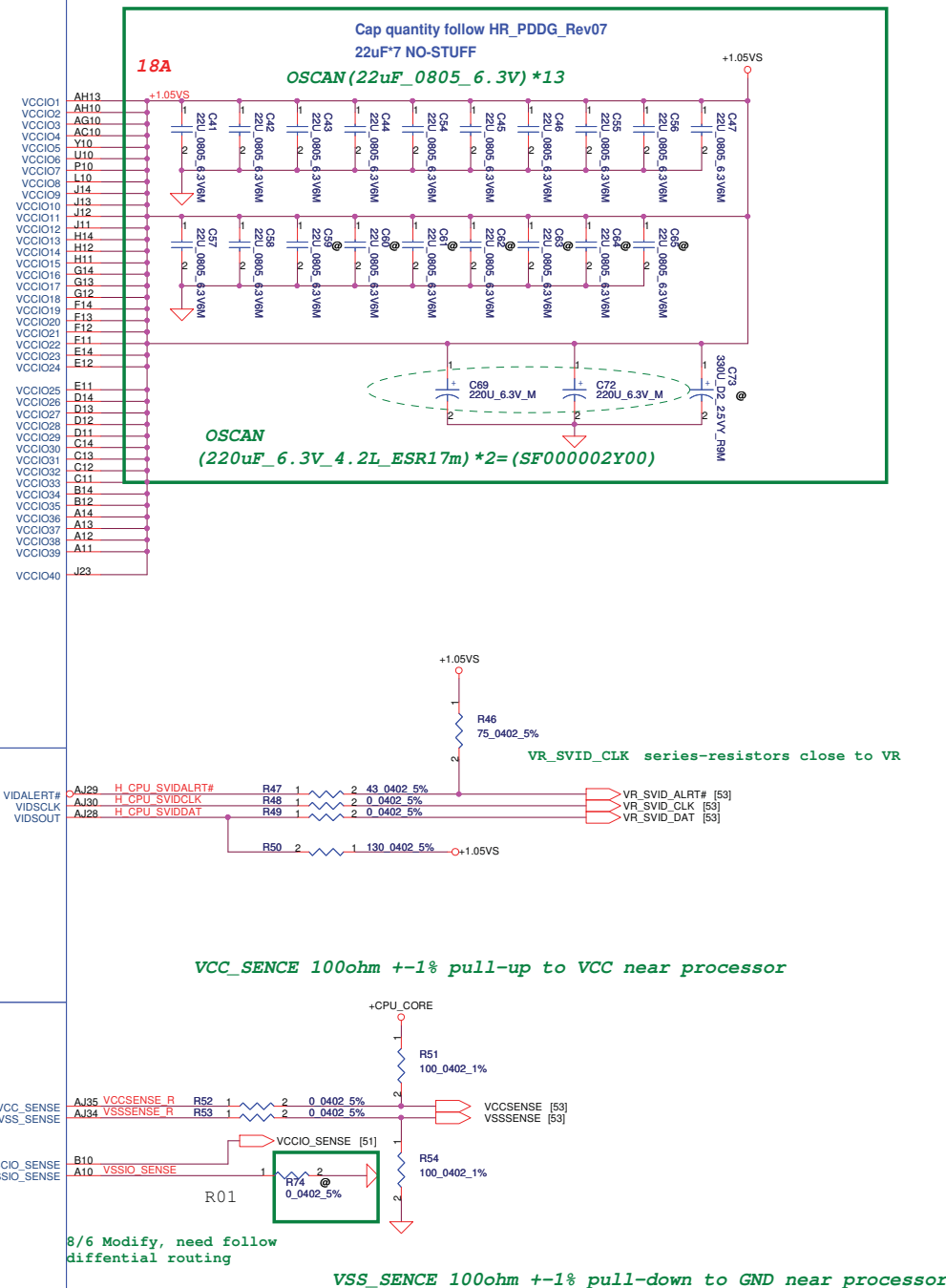
QC=94A
DC=53A

AG35	VCC1
AG34	VCC2
AG33	VCC3
AG32	VCC4
AG31	VCC5
AG30	VCC6
AG29	VCC7
AG28	VCC8
AG27	VCC9
AG26	VCC10
AF35	VCC11
AF34	VCC12
AF33	VCC13
AF32	VCC14
AF31	VCC15
AF30	VCC16
AF29	VCC17
AF28	VCC18
AF27	VCC19
AF26	VCC20
AD35	VCC21
AD34	VCC22
AD33	VCC23
AD32	VCC24
AD31	VCC25
AD30	VCC26
AD29	VCC27
AD28	VCC28
AD27	VCC29
AD26	VCC30
AC35	VCC31
AC34	VCC32
AC33	VCC33
AC32	VCC34
AC31	VCC35
AC30	VCC36
AC29	VCC37
AC28	VCC38
AC27	VCC39
AC26	VCC40
AA35	VCC41
AA34	VCC42
AA33	VCC43
AA32	VCC44
AA31	VCC45
AA30	VCC46
AA29	VCC47
AA28	VCC48
AA27	VCC49
AA26	VCC50
Y35	VCC51
Y34	VCC52
Y33	VCC53
Y32	VCC54
Y31	VCC55
Y30	VCC56
Y29	VCC57
Y28	VCC58
Y27	VCC59
Y26	VCC60
Y25	VCC61
Y24	VCC62
Y23	VCC63
Y22	VCC64
Y21	VCC65
Y20	VCC66
Y19	VCC67
Y18	VCC68
Y17	VCC69
Y16	VCC70
Y15	VCC71
Y14	VCC72
Y13	VCC73
Y12	VCC74
Y11	VCC75
Y10	VCC76
Y09	VCC77
Y08	VCC78
Y07	VCC79
Y06	VCC80
Y05	VCC81
Y04	VCC82
Y03	VCC83
Y02	VCC84
Y01	VCC85
R35	VCC86
R34	VCC87
R33	VCC88
R32	VCC89
R31	VCC90
R30	VCC91
R29	VCC92
R28	VCC93
R27	VCC94
R26	VCC95
R25	VCC96
R24	VCC97
R23	VCC98
R22	VCC99
R21	VCC100

CORE SUPPLY

SVID

SENSE LINES



Sandy Bridge_rPGA Rev1.0
ME@

Security Classification

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PROCESSOR(5/7) PWR,BYPASS

Document Number

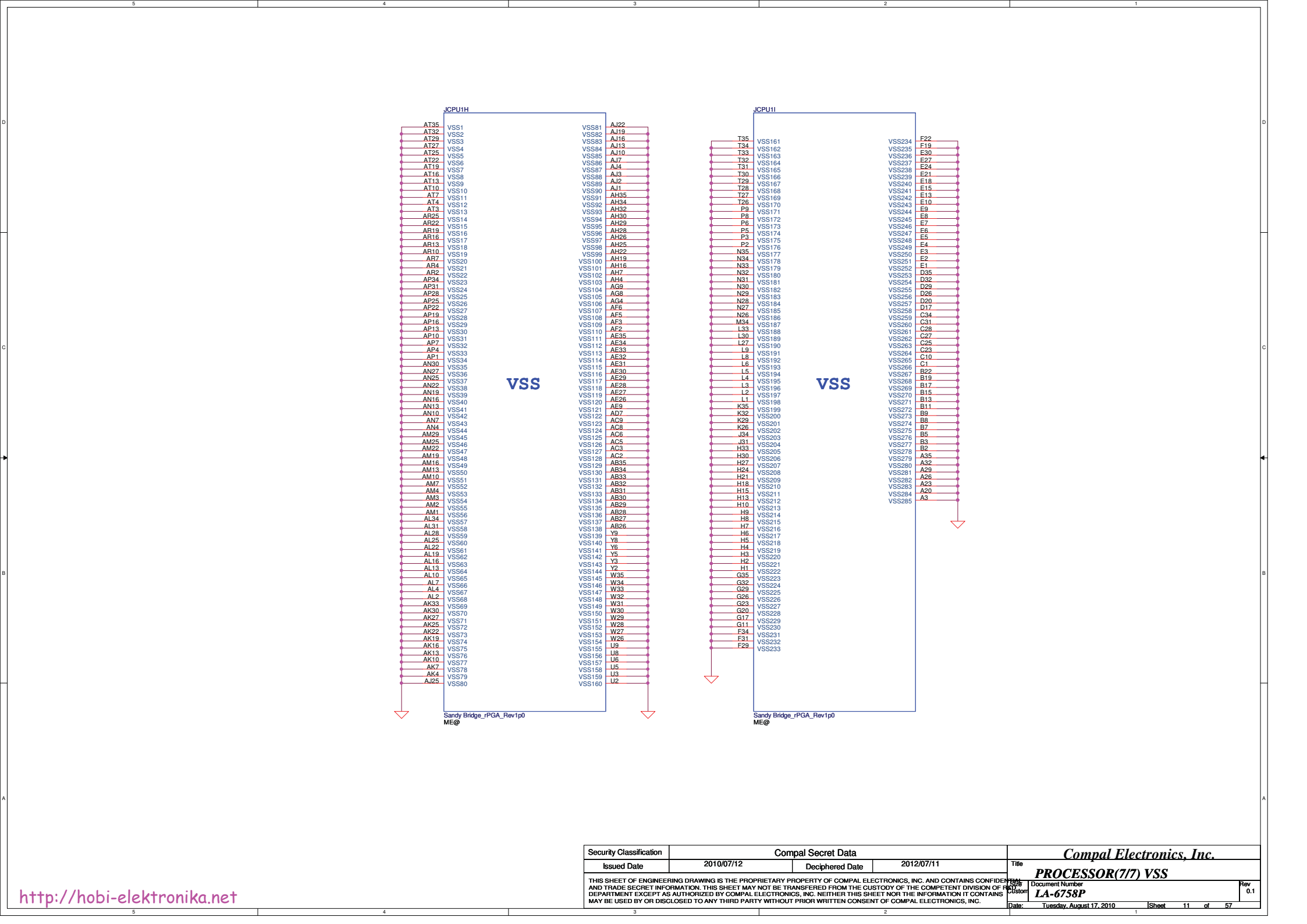
LA-6758P

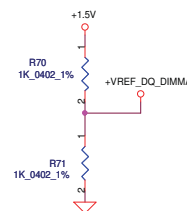
Date: Tuesday, August 17, 2010

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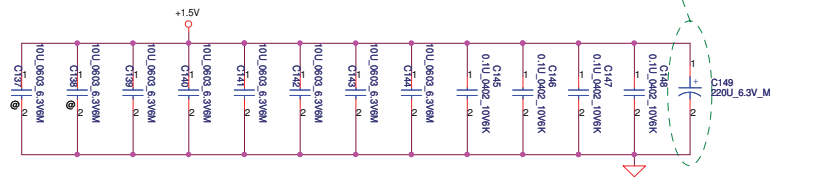




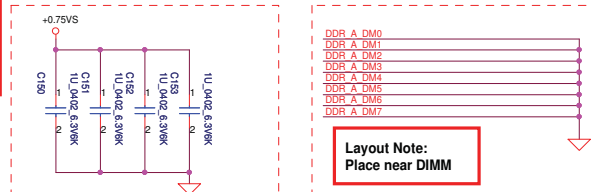
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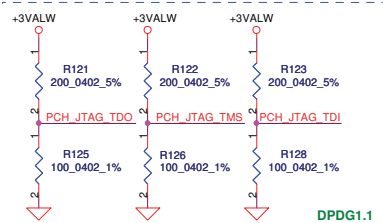
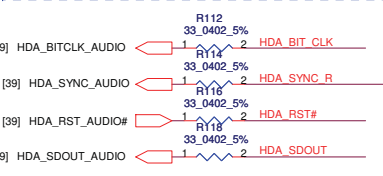
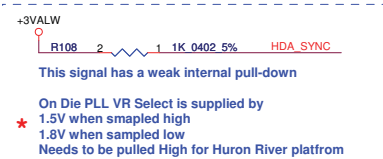
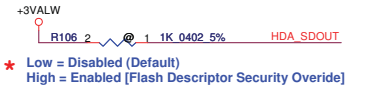
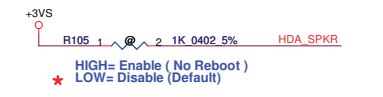
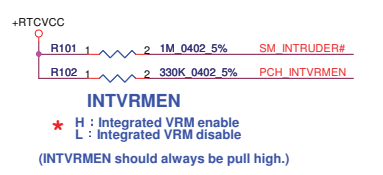
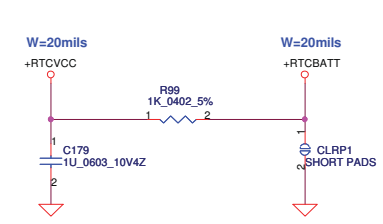
OSCAN (220uF_6.3V_4.2L_ESR17m) *1=(SF000002Y00)
(10uF_0603_6.3V) *8
(0.1uF_402_10V) *4

```

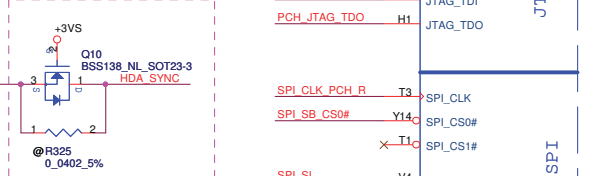
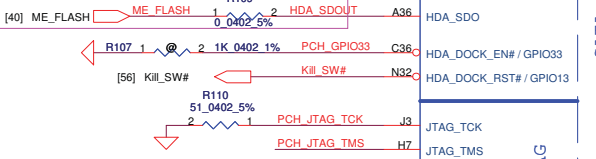
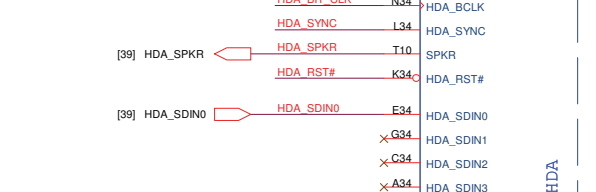
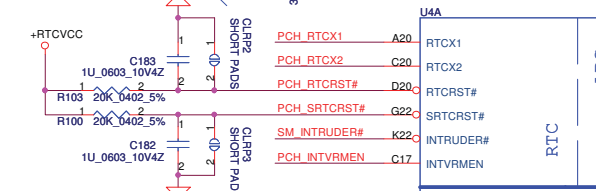
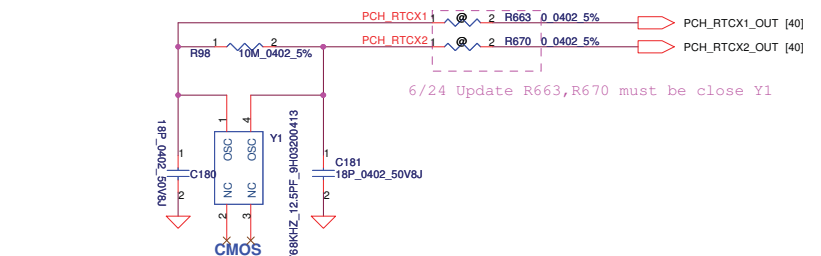


7/28 Update connect GND directly

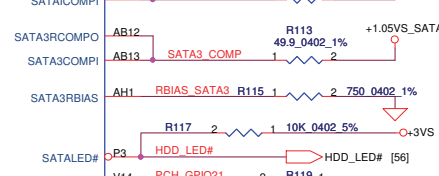
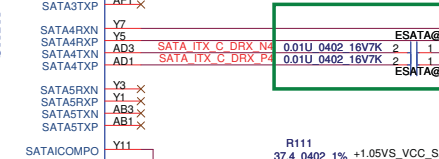
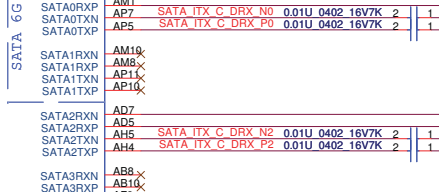
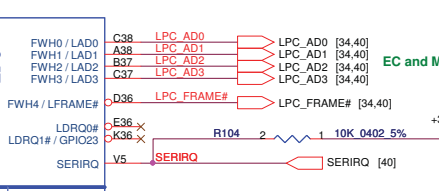
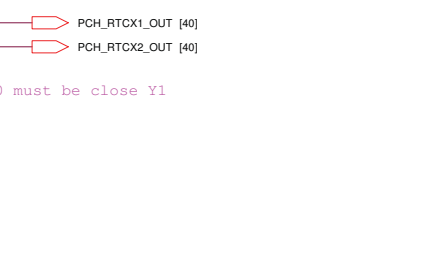




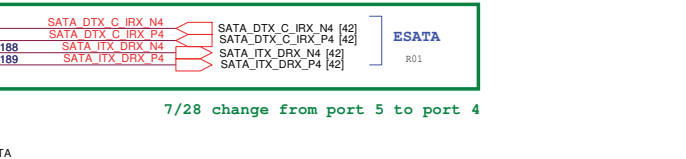
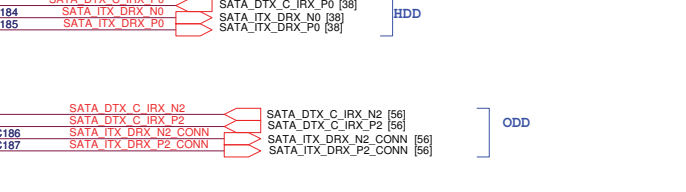
6/30 update R121, R122, R123



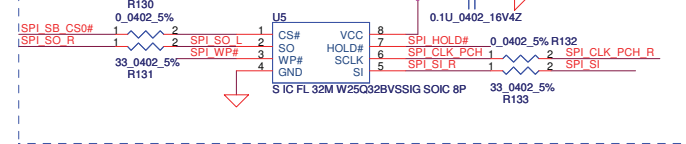
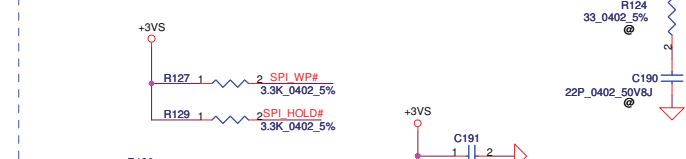
6/17 follow module design



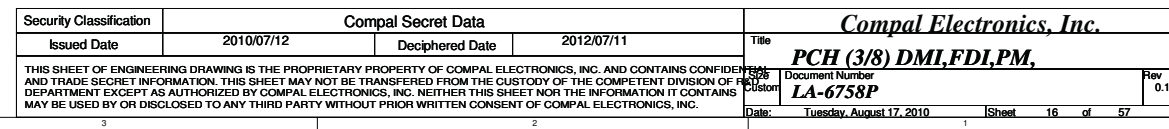
6/17 follow module design

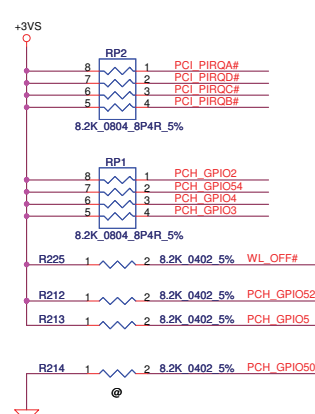


6/17 follow module design









PCH_GPIO51 R221 1 2 1K 0402 5%

Boot BIOS Strap bit1 BBS1		
Bit11	Bit10	Destination
0	1	Reserved
1	0	Reserved
1	1	SPI (Default)
0	0	LPC

WL OFF# R215 1 2 1K 0402 5%

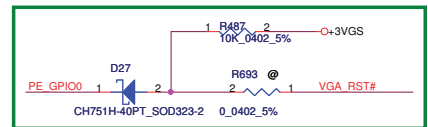
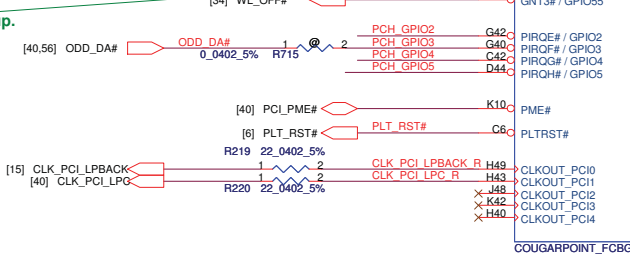
Al6 swap override Strap/Top-Block Swap Override jumper	
Low=Al6 swap override/Top-Block Swap Override enabled	High=Default

PCI_GNT3#

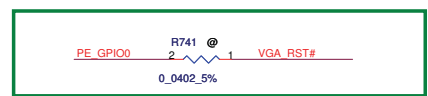
6/23 Reserve for GPU?



GPI053=This Signal has a weak internal pull-up.
NOTE: The internal pull-up is disabled after PLTRST# deasserts.

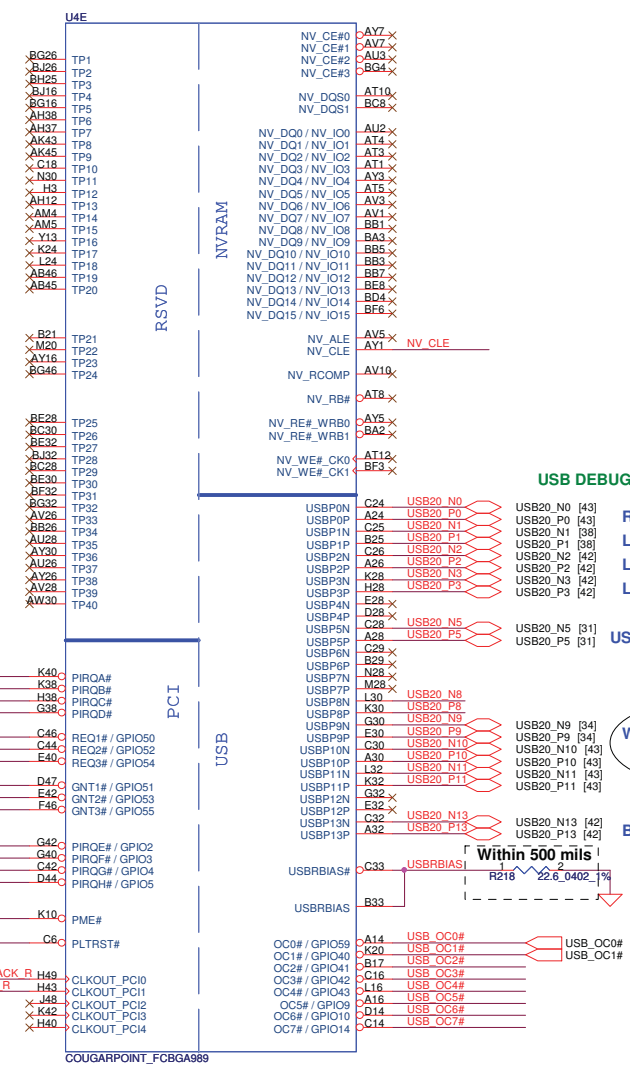


7/12 Reserve for BACO suggestion



7/12 Reserve for PX3.0

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USB DEBUG=PORT1 AND PORT9

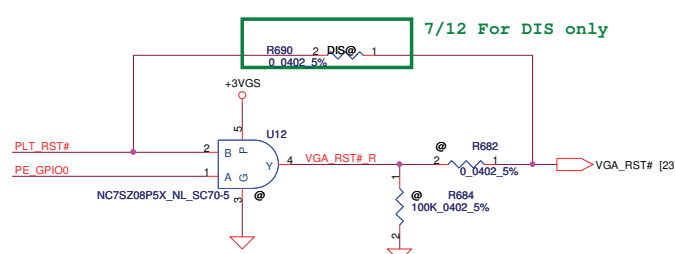
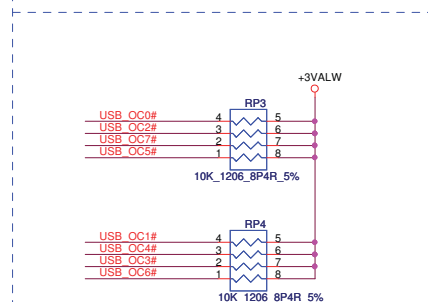
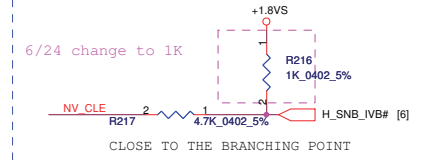
RIGHT USB
LEFT USB
LEFT USB
LEFT USB (COMBO)

USB Camera

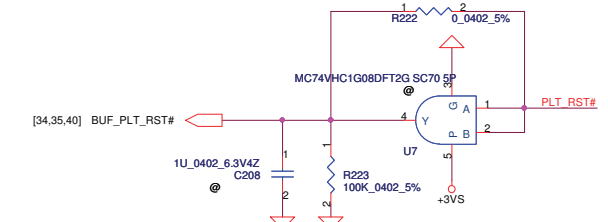
WLAN R01
07/16 FOR PING4 EXT USB
CARD READER

Bluetooth

DMI Termination Voltage	
NV_CLE	Set to Vcc when HIGH
	Set to Vss when LOW



7/12 U12 Reserve from module design



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ICC_EN#
Integrated Clock Chip Enable
H ; Disable
L ; Enable
★
R235 1 2 1K 0402 5% EC_SMI#
Weak internal pull-high

GPIO28
On-Die PLL Voltage Regulator
This signal has a weak internal pull up
H : On-Die voltage regulator enable
L : On-Die PLL Voltage Regulator disable
★
R240 1 2 1K 0402 5% PCH_GPIO28

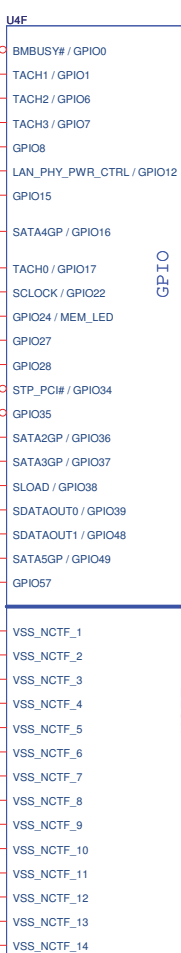
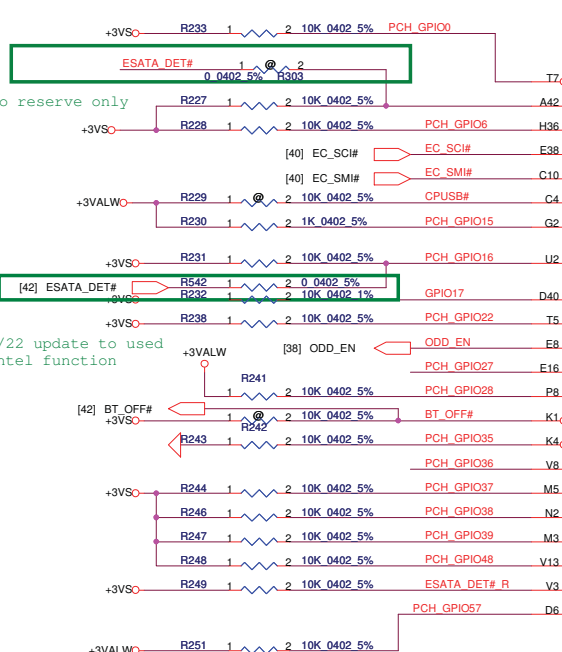
PCH_GPIO27 (Have internal Pull-High)
★ High: VCCVRM VR Enable
Low: VCCVRM VR Disable
R245 1 2 1K 0402 5% PCH_GPIO27

R250 1 2 1K 0402 5% PCH_GPIO36
R547 1 2 1K 0402 5%
R01

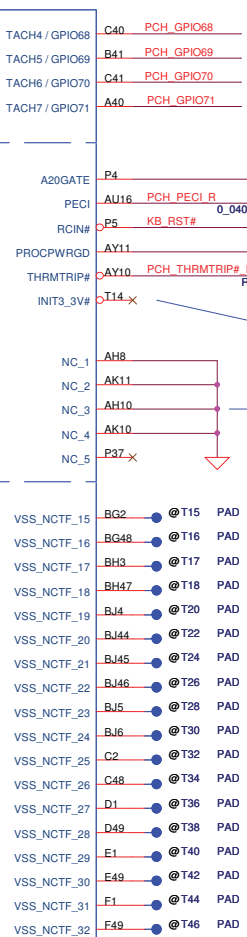
7/22 update to reserve only

7/22 update to used intel function

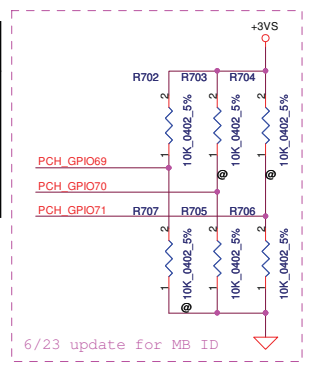
7/22 update to used intel function



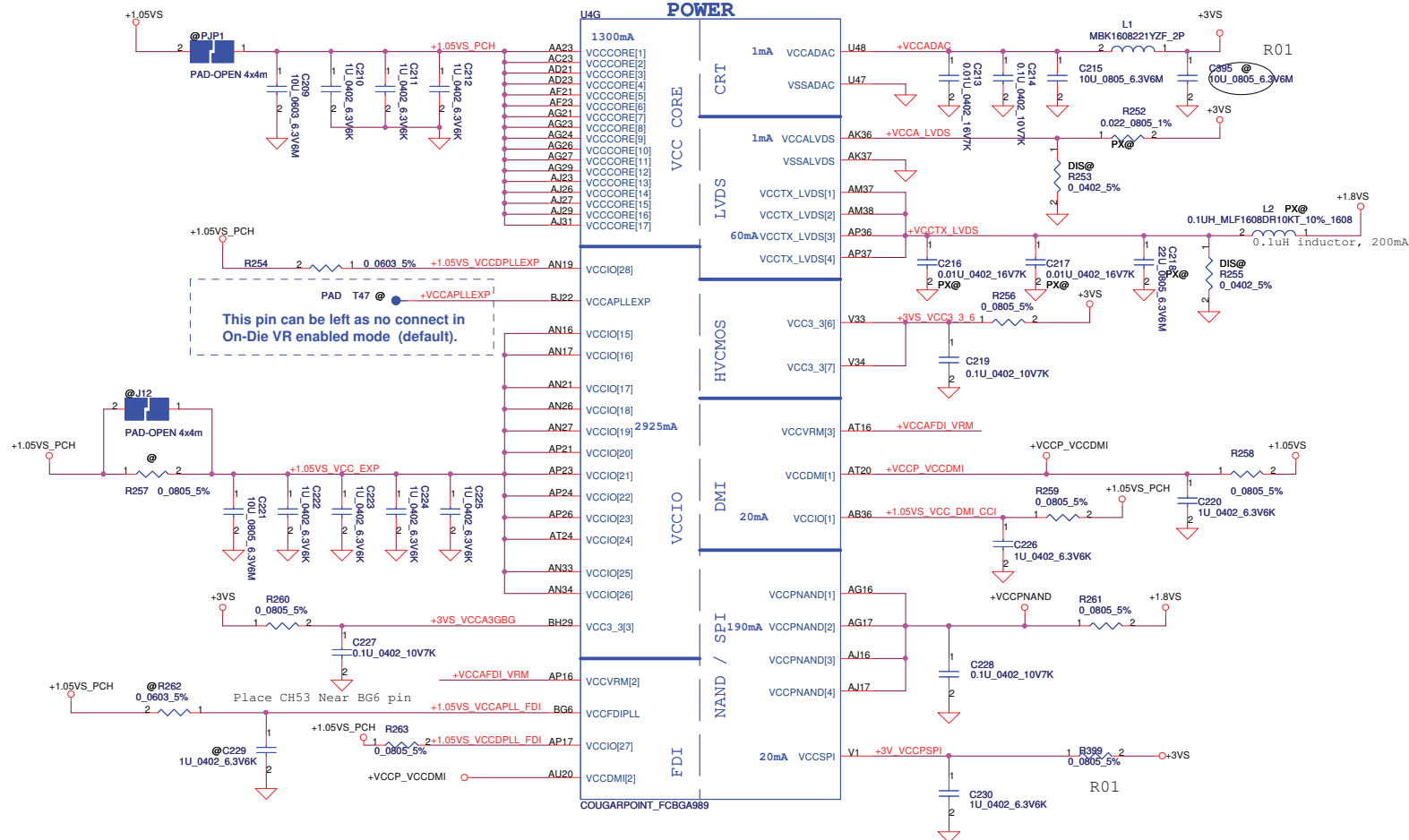
GPIO
CPU/MISC
NCTF



PCH_GPIO69	PCH_GPIO70	PCH_GPIO71	Function
0	0	0	UMA
1	0	0	DIS ★
0	1	0	PX3.0
1	1	0	PX4.0



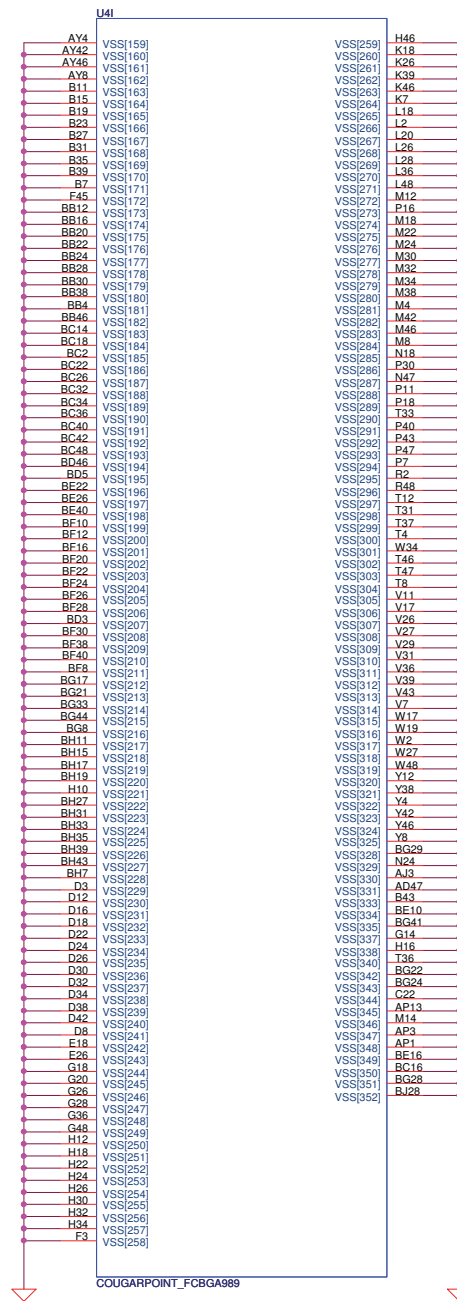
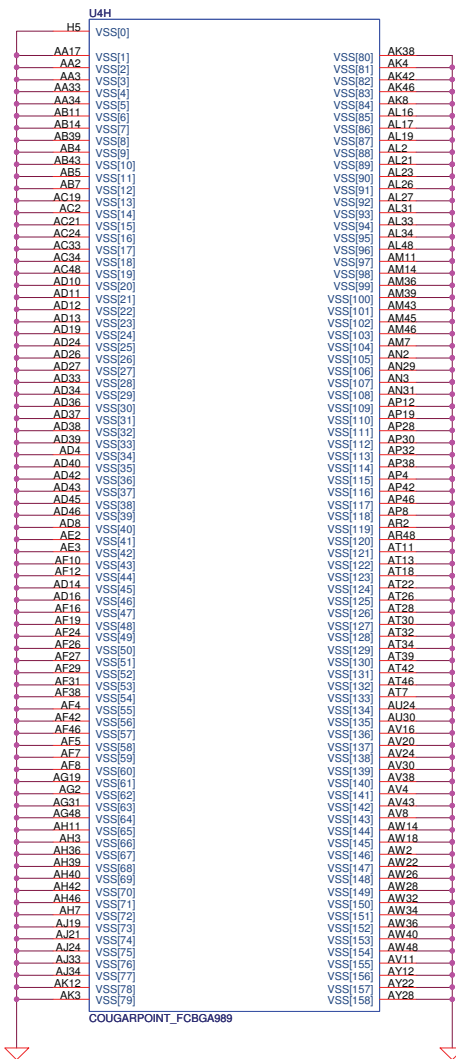
INIT3_3V
This signal has weak internal PU, can't pull low
Intel schematic revieve recommend



This pin can be left as no connect in On-Die VR enabled mode (default).

Intel recommend VCCVRM==>1.5V FOR MOBILE
stuff R265 and unstuff R266 VCCVRM==>1.8V FOR DESKTOP
VCCVRM = 160mA detal waiting for newest spec

PCH Power Rail Table		
Voltage Rail	Voltage	S0 Iccmax Current (A)
V_PROC_IO	1.05	0.001
V5REF	5	0.001
V5REF_Sus	5	0.001
Vcc3_3	3.3	0.266
VccADAC	3.3	0.001
VccADPLLA	1.05	0.08
VccADPLLB	1.05	0.08
VccCore	1.05	1.3
VccDMI	1.05	0.042
VccIO	1.05	2.925
VccASW	1.05	1.01
VccSPI	3.3	0.02
VccDSW	3.3	0.003
VccpNAND	1.8	0.19
VccRTC	3.3	6 uA
VccSus3_3	3.3	0.119
VccSusHDA	3.3 / 1.5	0.01
VccVRM	1.8 / 1.5	0.16
VccCLKDMI	1.05	0.02
VccSSC	1.05	0.095
VccDIFFCLKN	1.05	0.055
VccALVDS	3.3	0.001
VccTX_LVDS	1.8	0.06

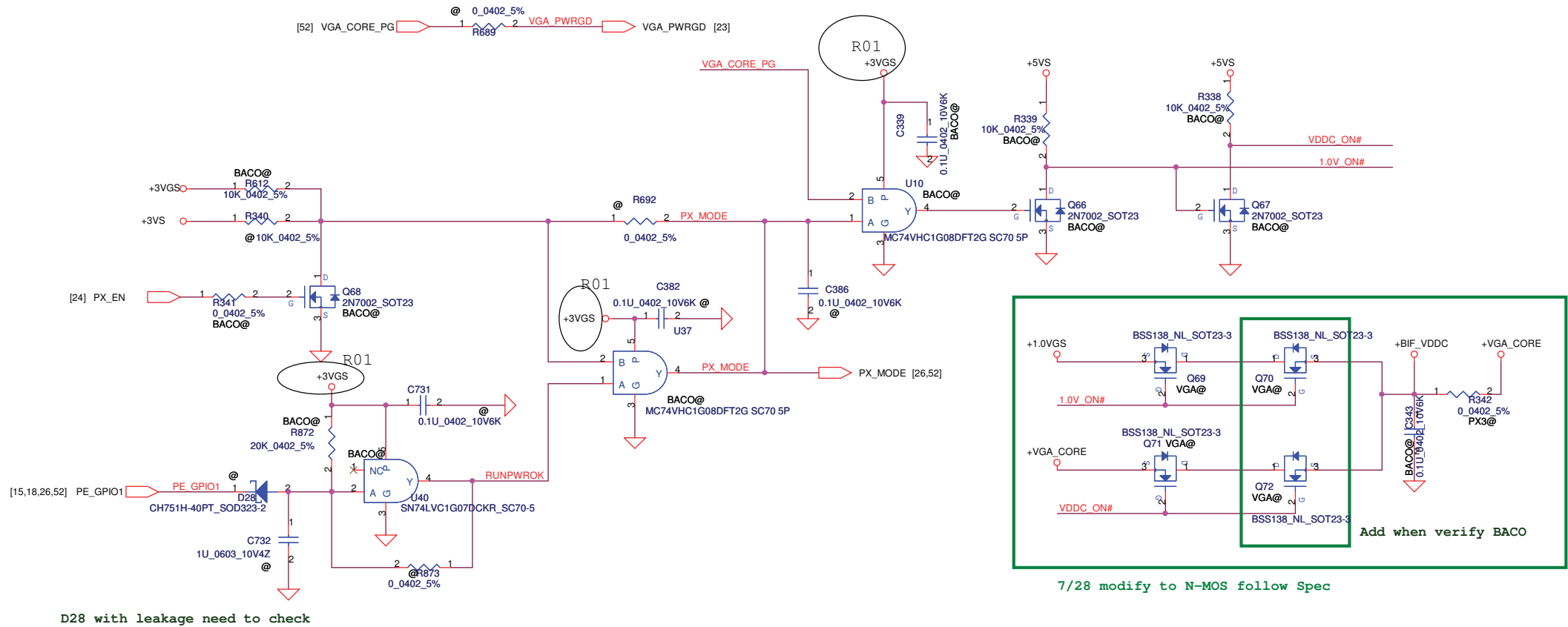


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				LA-6758P	0.1
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<http://hobi-elektronika.net>

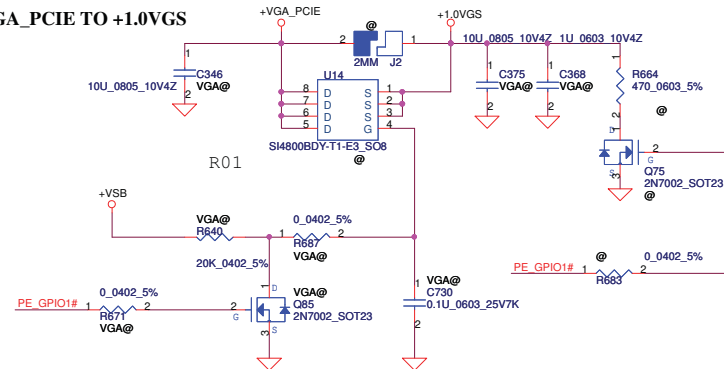
	Compal Electronics, Inc.				
Title	RobsonXT-S3 Main Generic/MSI				
Size C	Document Number				
Order	Transceiver	August 17, 2010	IShoot	24	67

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Size C		Document Number			
Date		Version		Sheet	
2016/07/12		1.0		94 of 97	

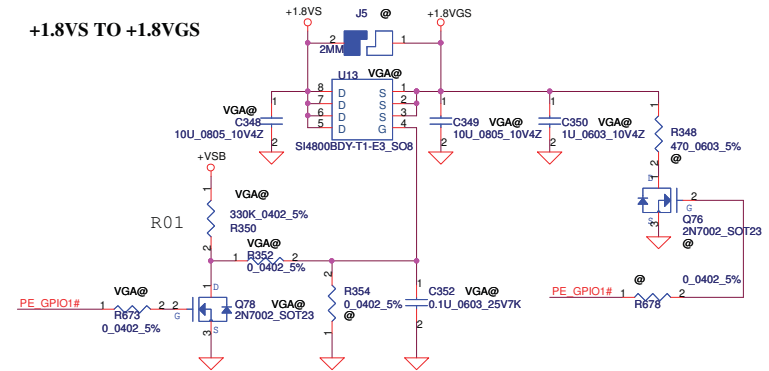


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				Date: Tuesday, August 17, 2010	Sheet 25 of 57
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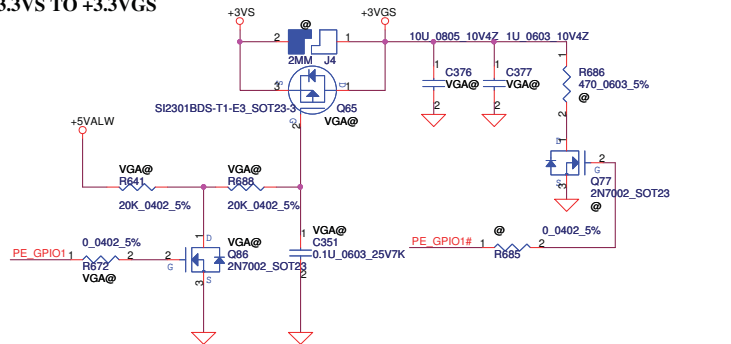
+VGA_PCIE TO +1.0VGS



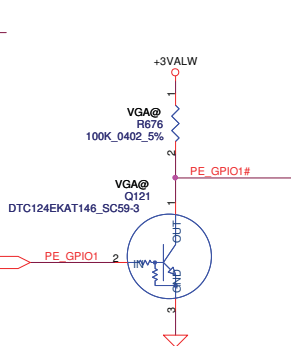
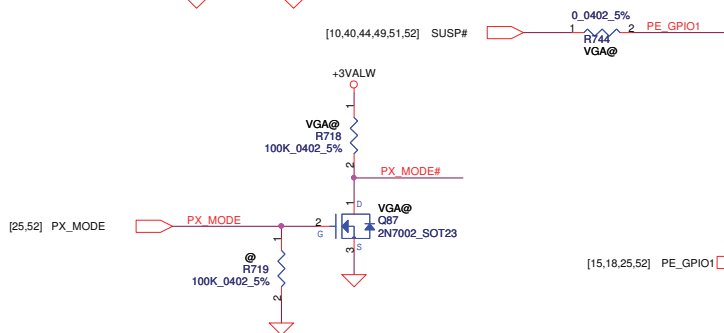
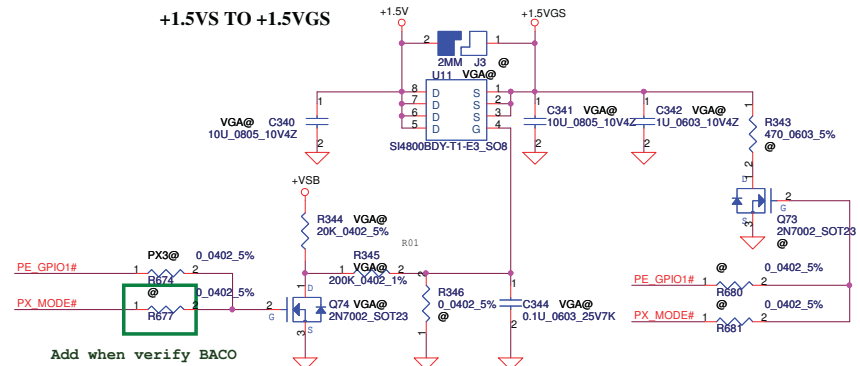
+1.8VS TO +1.8VGS



+3.3VS TO +3.3VGS



+1.5VS TO +1.5VGS



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2.3A(RMS) / 2.8A(Peak)

1.5VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

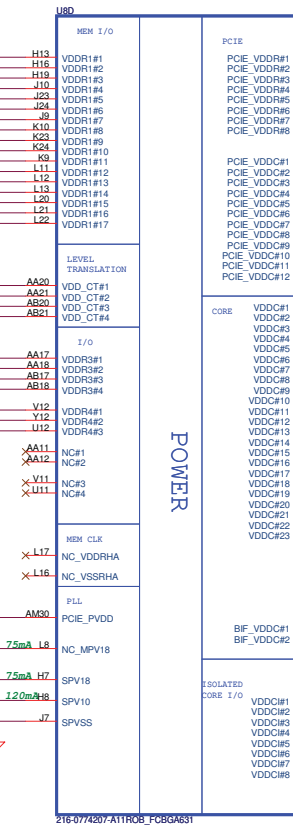
1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS



504mA

1920mA

11.8A(RMS) / 12.9A(Peak)

7/22 modify

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

1.8VGS

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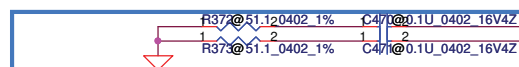
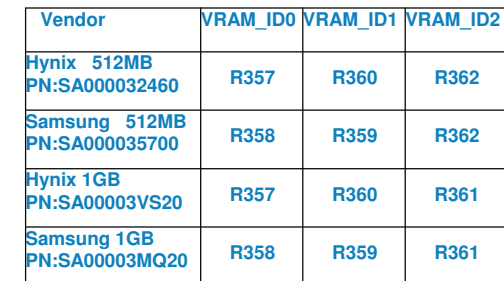
1.8VGS

1.8VGS

1.8VGS

1.8VGS

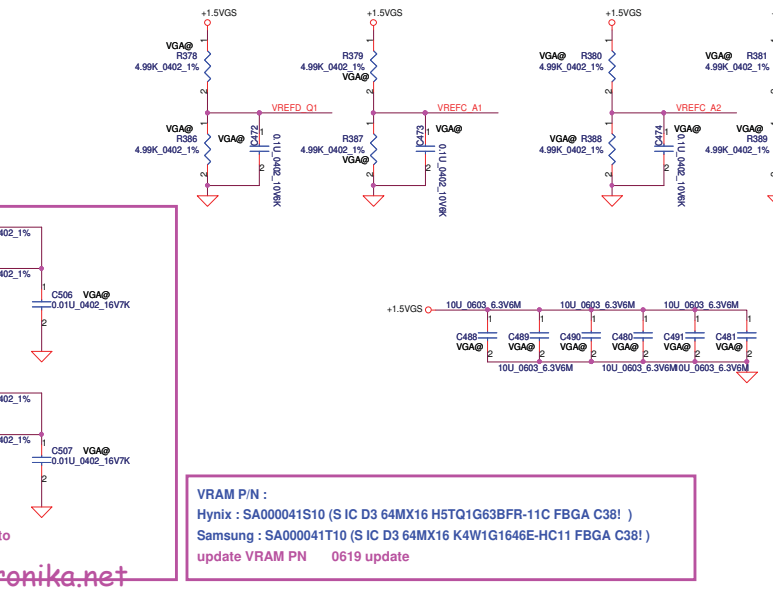
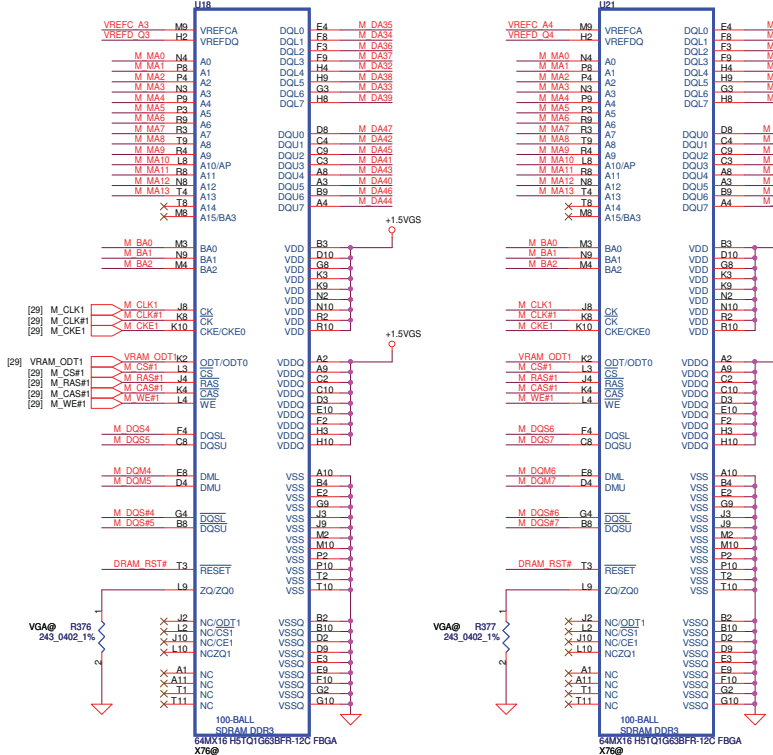
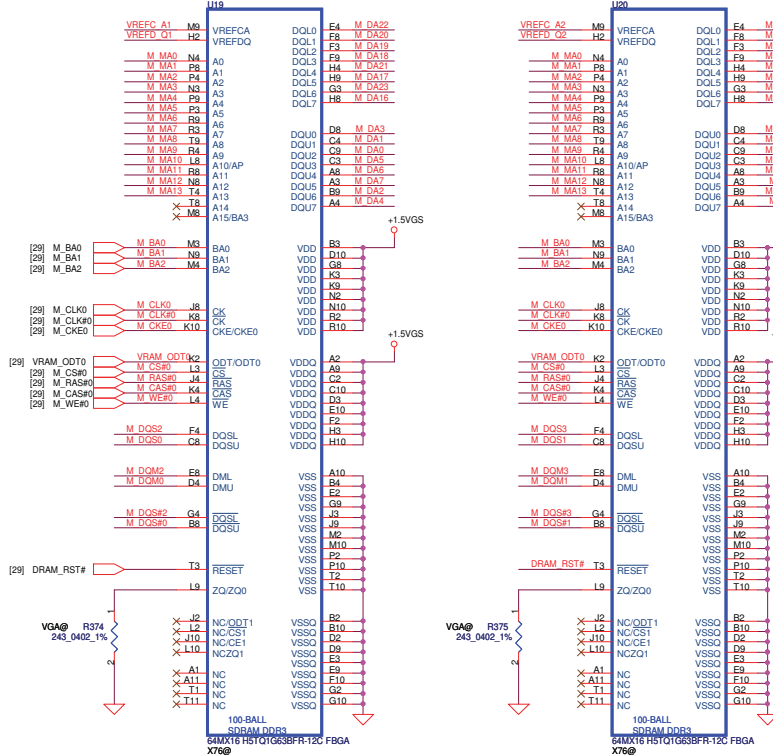
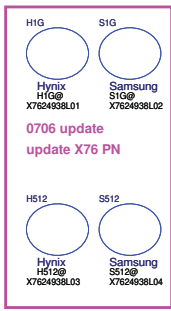
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Route 50ohms single-ended/100ohm diff and keep short debug only, for clock observation,if not need, DNI.

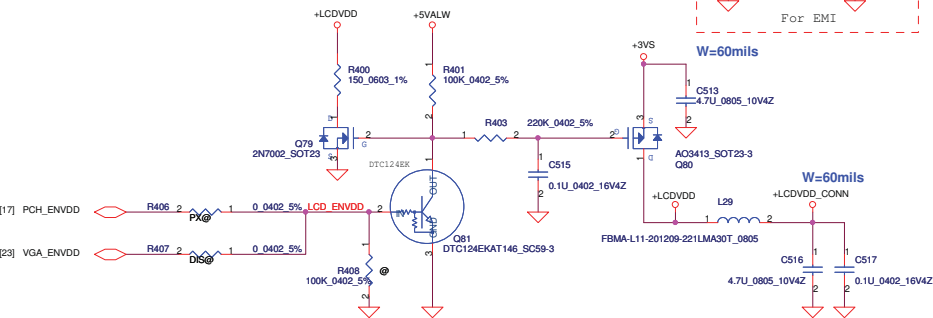
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[29] M_DA[63..0] M_DA[63..0]
 [29] M_MA[13..0] M_MA[13..0]
 [29] M_DQM[7..0] M_DQM[7..0]
 [29] M_DQS[7..0] M_DQS[7..0]
 [29] M_DQS[7..0] M_DQS[7..0]

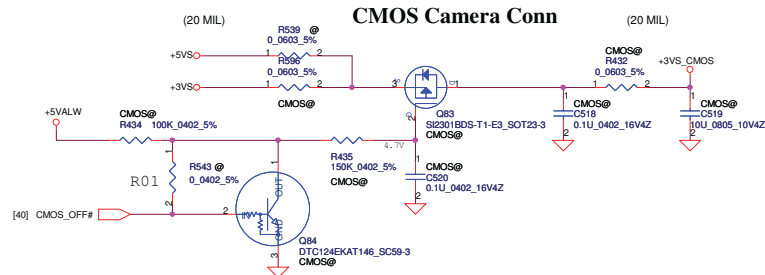
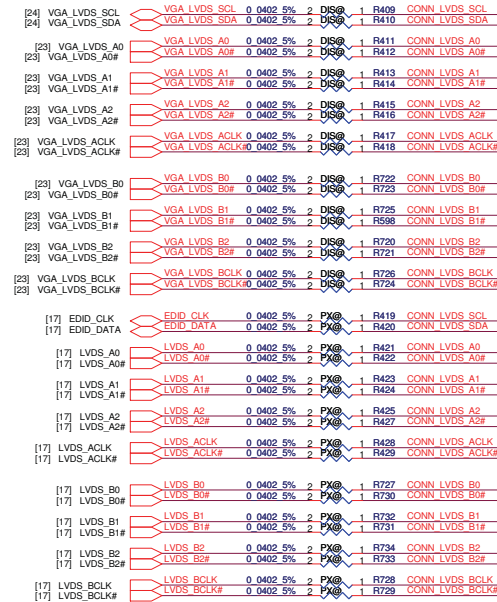
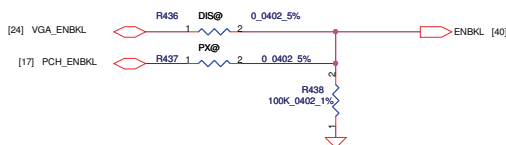
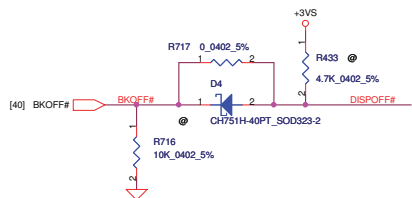
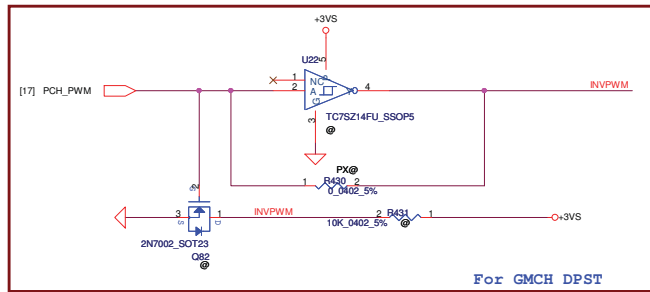
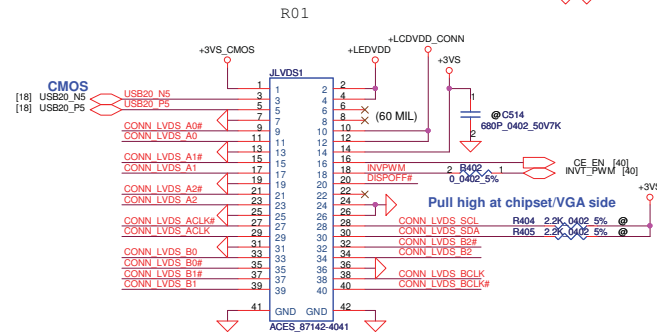


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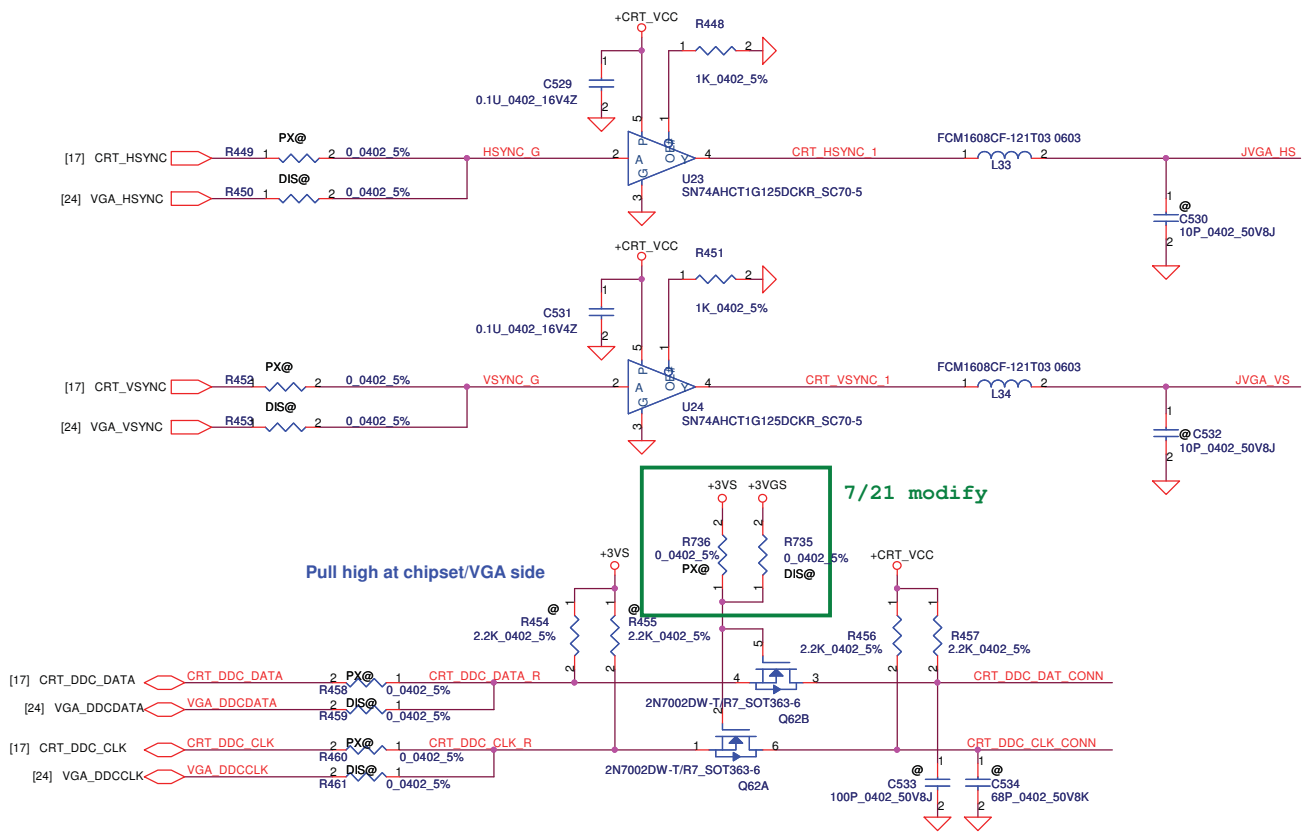
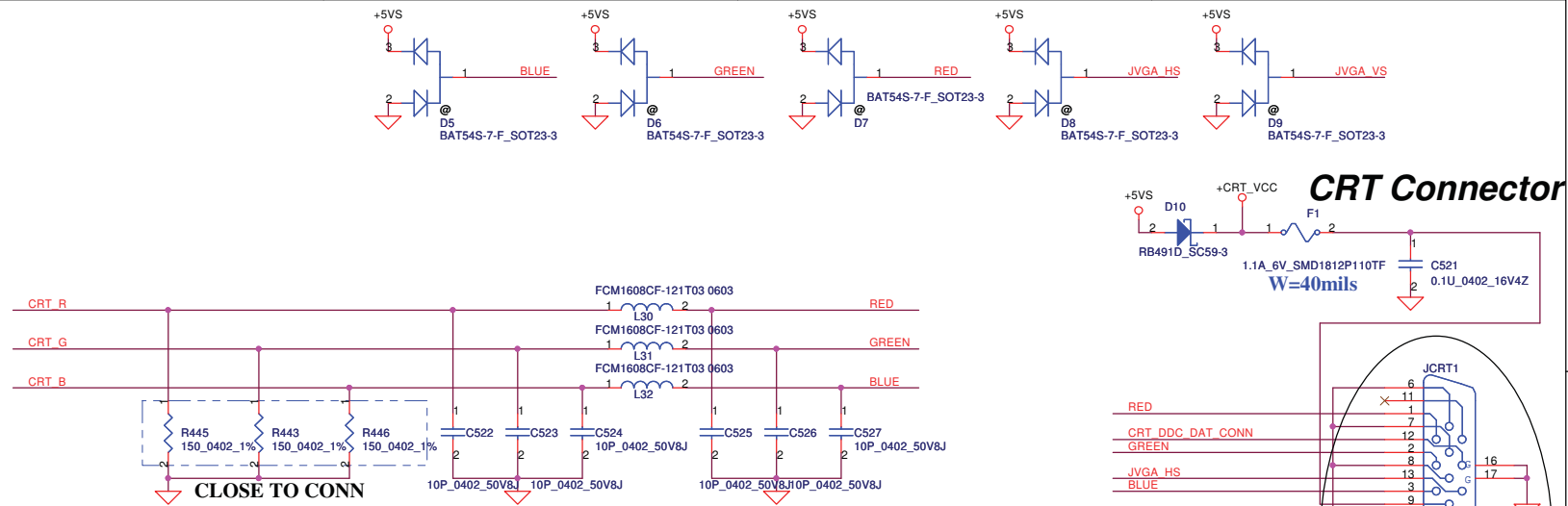
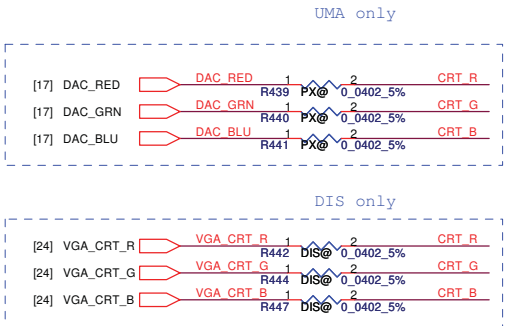
LCD POWER CIRCUIT



VGA LCD/PANEL BD. Conn.

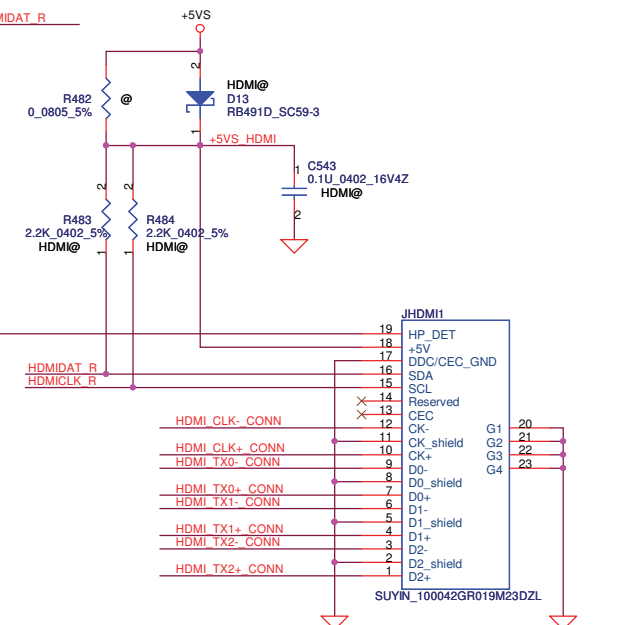
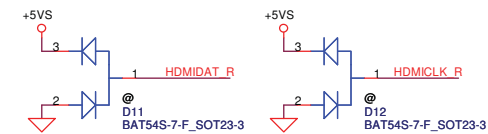
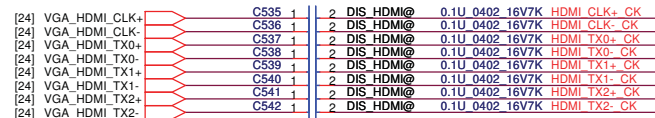


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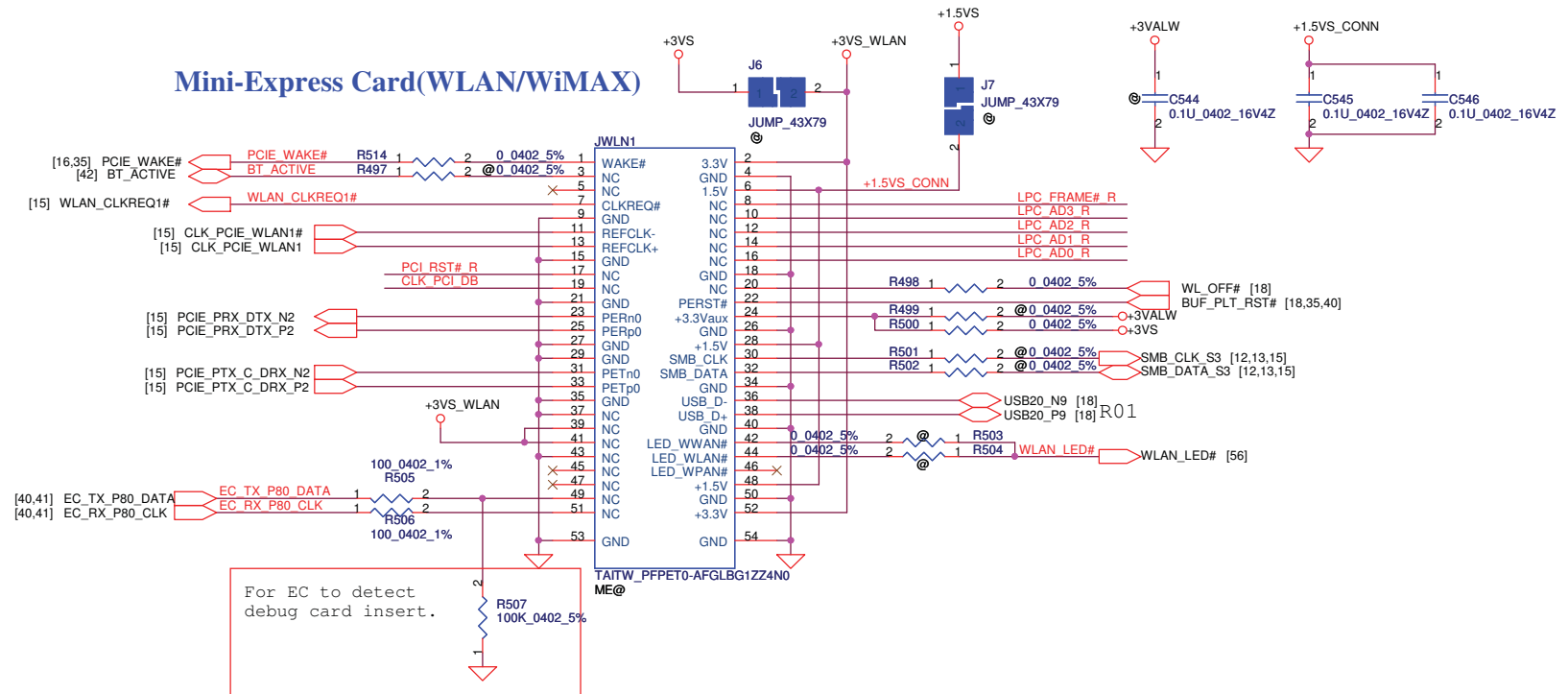
Check CRT footprint 7/20_OTIS

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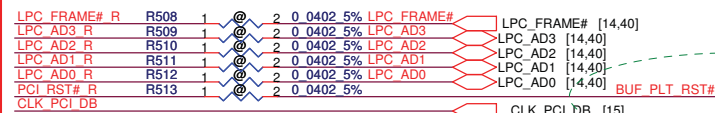


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					Rev 0.1
Date: Tuesday, August 17, 2010				Sheet	33 of 57

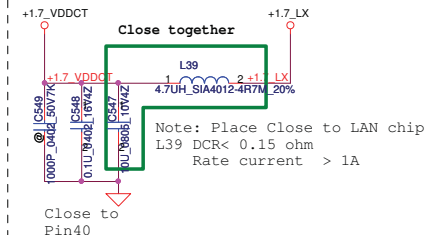
Mini-Express Card for WLAN/WiMAX(Half)



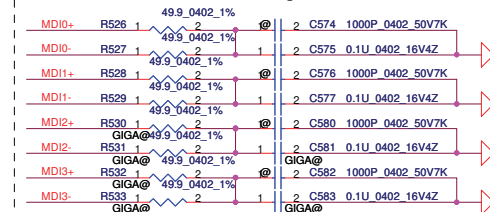
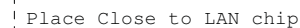
**Reserve for SW mini-pcie debug card.
Series resistors closed to KBC side.**



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Pin	Description	Chip Default
LED0	H:Over Clock Enable L:Over Clock Disable *	H
LED2	H:SWR Switch mode regulator Select * AR8151 Pin23=LED2. AR8152, Pin23 is CLKREQ	--

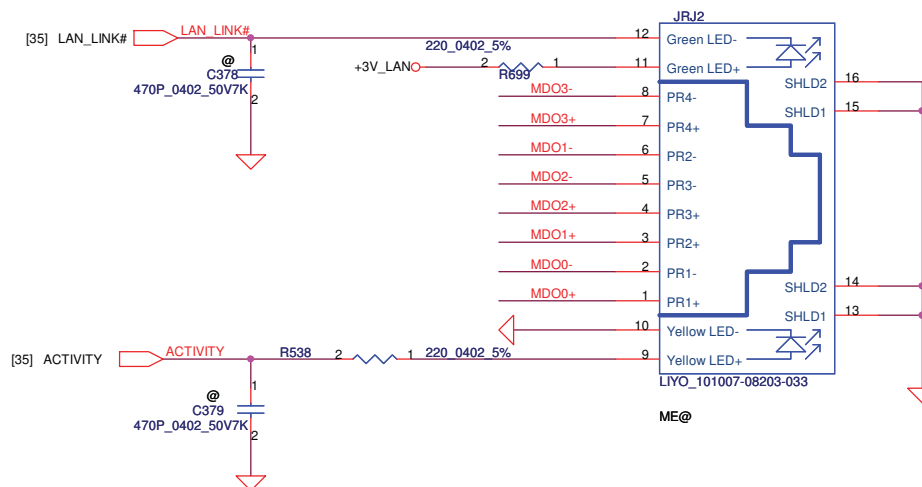
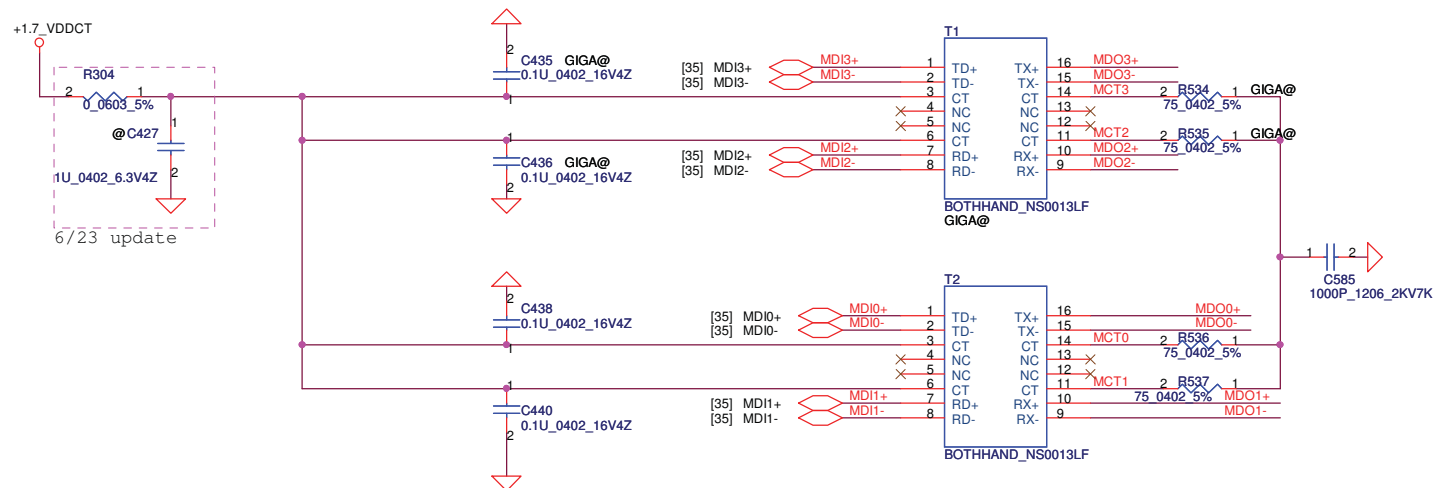


```
| Note 1 : 8152 no mount MDI3+, MDI3-, MDI2-, MDI2+
| resister and cap
```

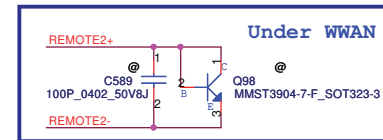
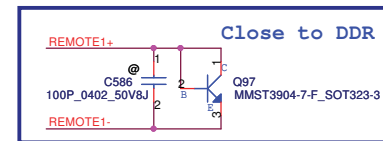
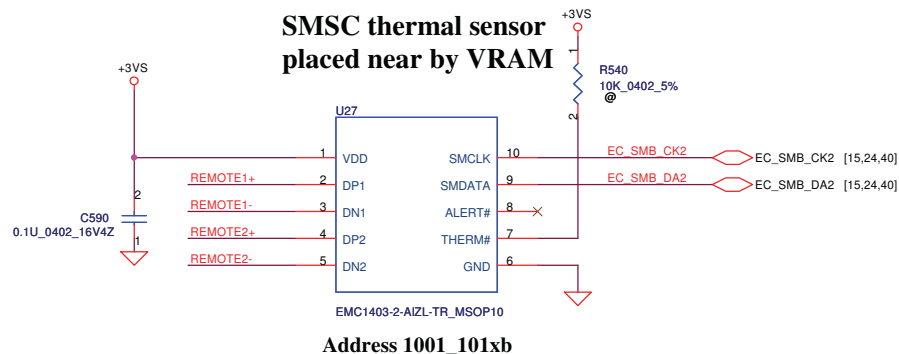
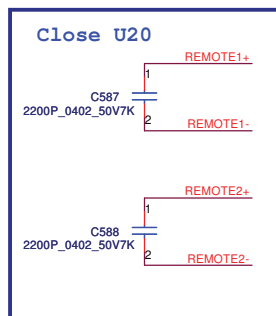
¹ Note 2 : C574, C576, C580, C582, reserved for EMI.

	Pin4	Configure			Pin23	Configure
		R525	C559			
AR8152	VDDCT_REG		★		CLKREQn	★
AR8151	CLKREQn	★			LED[2]	

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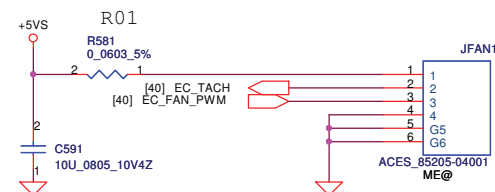


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				Date	Tuesday, August 17, 2010
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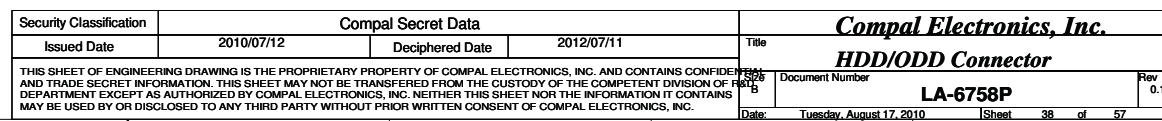
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Trace length:<8"

FAN1 Conn

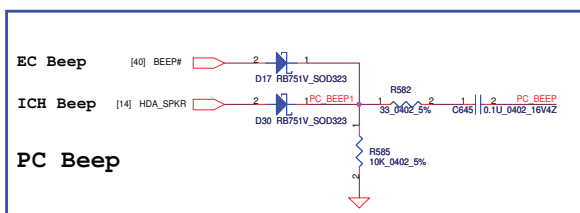
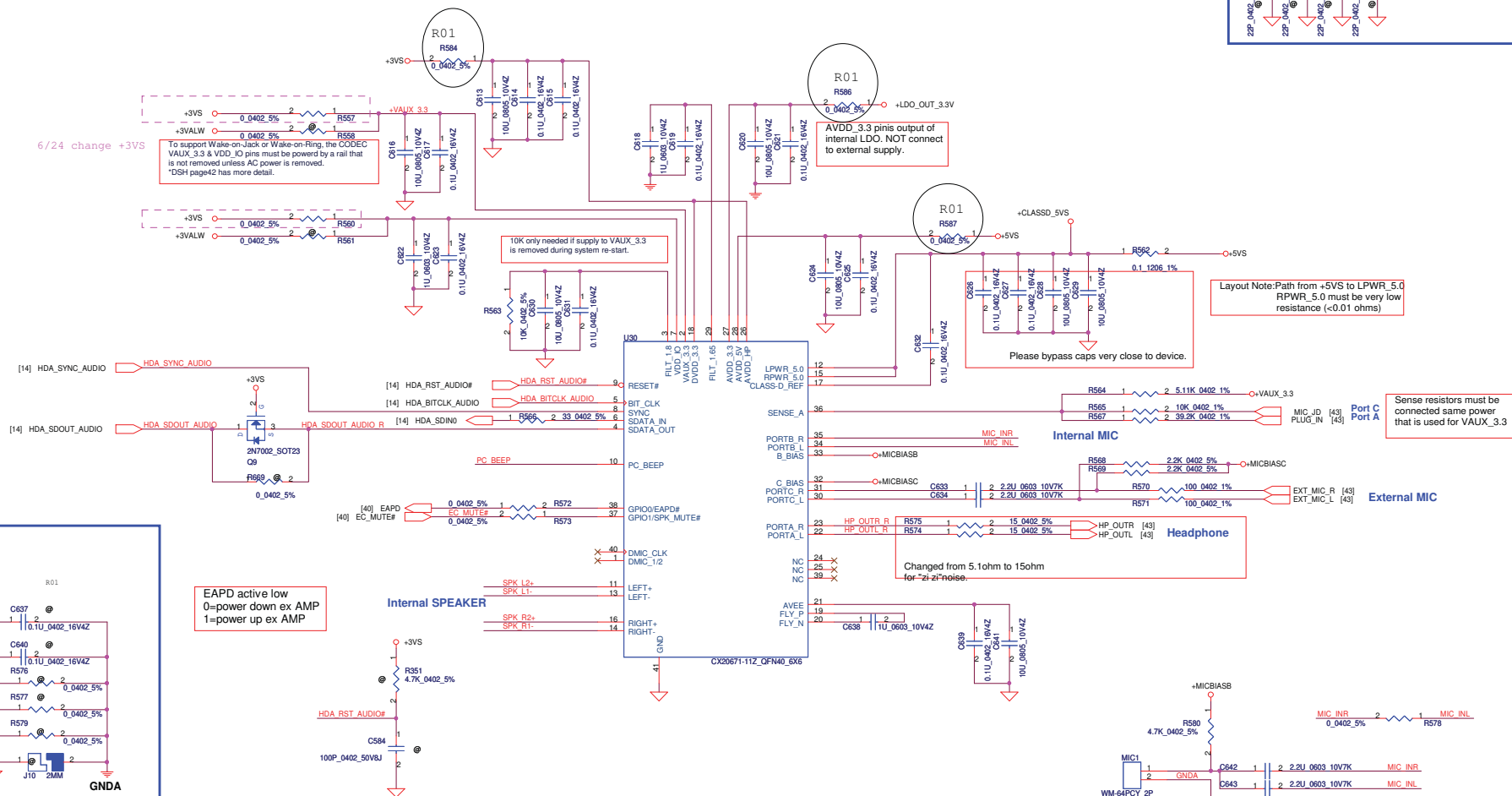
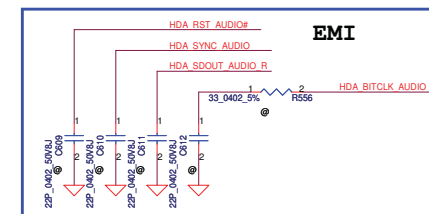


Security Classification		Compal Secret Data		Compal Electronics, Ltd.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	EMC1403 Thermal sensor/FAN
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				Date	Tuesday, August 17, 2010
				Sheet	37 of 57

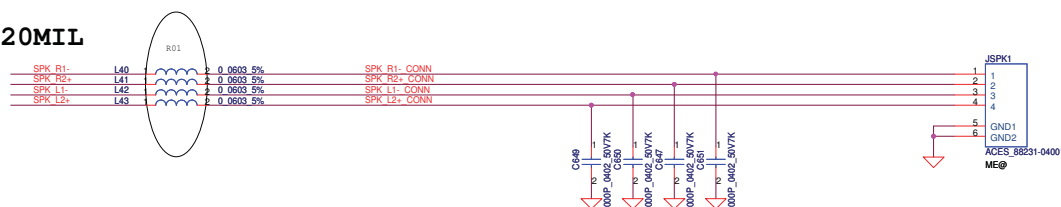
W=80mils



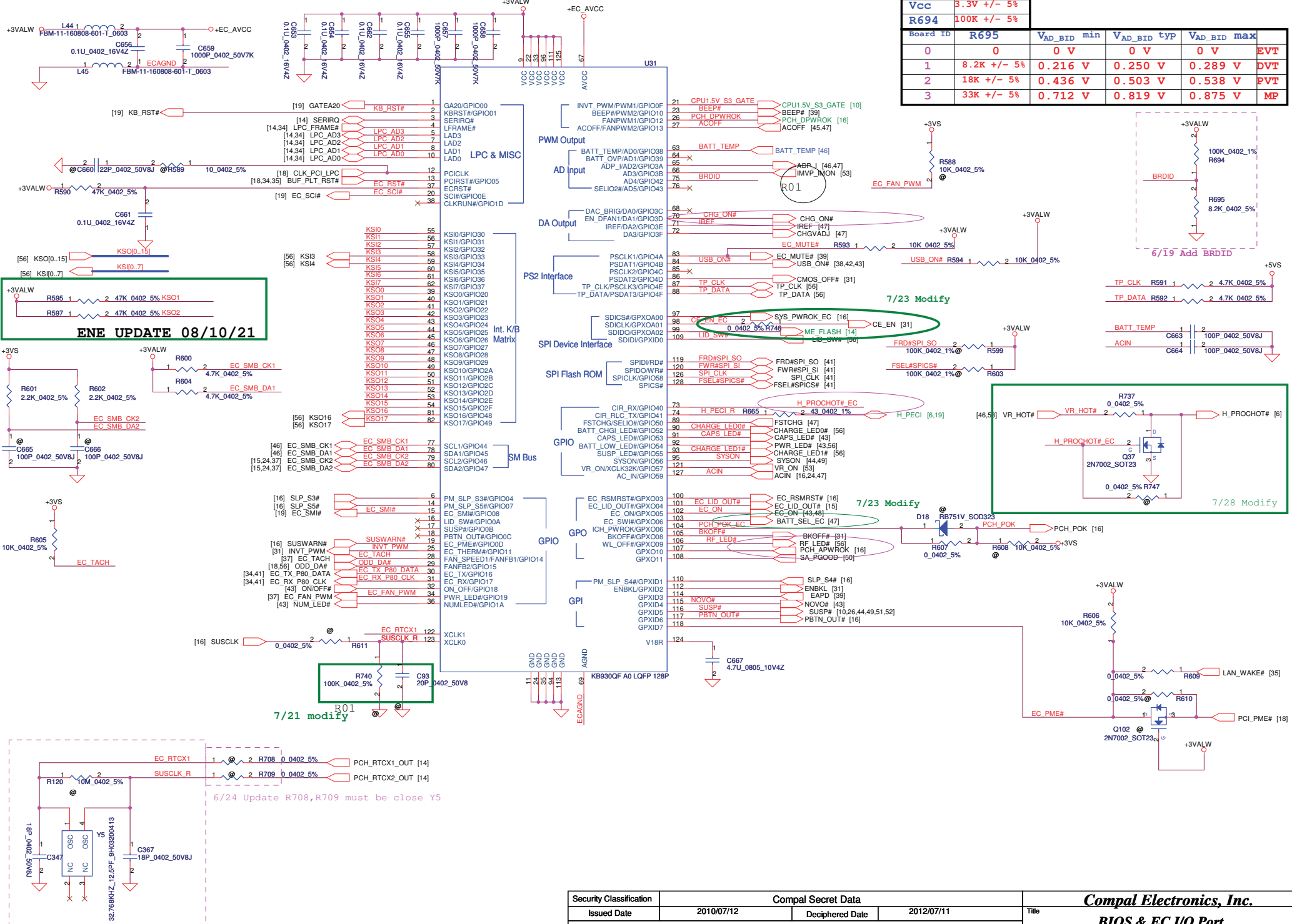
CX20671
High Definition Audio Codec SoC
With Integrated Class-D Stereo
Amplifier.
An integrated 5 V to 3.3 V Low-dropout
voltage regulator (LDO).
An integrated 3.3 V to 1.8V Low-dropout
voltage regulator (LDO).



wide 20MIL



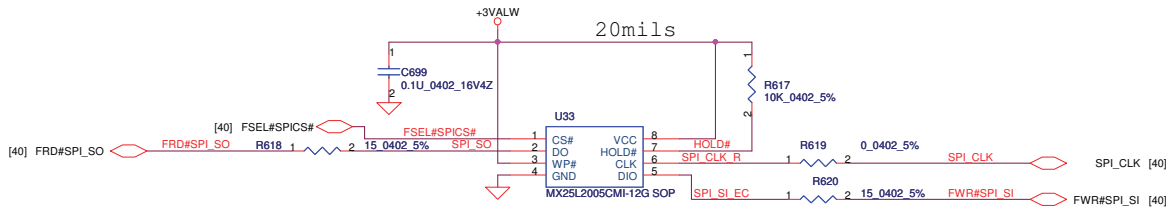
Security Classification	Compal Secret Data				
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	CX20671 Codec
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				Date: Tuesday, August 17, 2010	Sheet 39 of 57



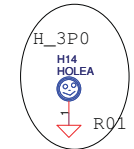
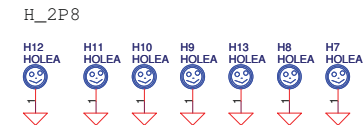
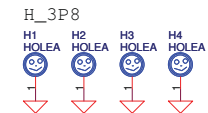
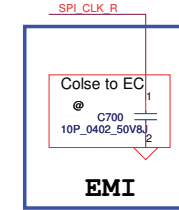
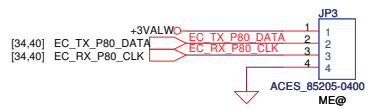
Vcc	3.3V +/- 5%
R694	100K +/- 5%
Board ID	R695
0	0
1	8.2K +/- 5%
2	18K +/- 5%
3	33K +/- 5%

Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	BIOS & EC I/O Port
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				Date	Tuesday, August 17, 2010
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**FOR EC 256KB SPI ROM
(150mil PACKAGE)**



EC DEBUG PORT



Security Classification		Compal Secret Data		Compal Electronics, Inc. LED/EC SPI ROM	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	
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					0.1
				LA-6758P	
Date	Tuesday, August 17, 2010		Sheet	41	of 57

Power Button

TOP Side

Bottom Side

ON/OFFBTN#

ON/OFF# [40]

51_ON# [45]

EC_ON

[40,48] EC_ON

NOVO#

[40] NOVO#

NOVO_BTN#

51_ON#

SW3

J11

SMT1-05_4P

D23

DAN202UT106_SC70-3

Q106

2N7002_SOT23-3

D26

DAN202UT106_SC70-3

R638

100K_0402_5%

R639

10K_0402_5%

R642

100K_0402_5%

+3VALW

ON/OFF# [40]

51_ON# [45]

EC_ON

[40,48] EC_ON

NOVO#

[40] NOVO#

NOVO_BTN#

51_ON#

Card Reader/Audio Jack SB CONN

JPWRB1

[40] NUM_LED#
[40] CAPS_LED#
[40.56] PWR_LED#

NOVO_BTN#
ON/OFFBTN#

+5VALW

1 2 3 4 5 6 7 8 9 10

GND GND

ACES_88058-080N

ME@

+USB_VCCA

W=80mils

C734

C733

150U_B2_6.3VM_R35M

470P_0402_50V7K

USB20_P11

USB20_N11

USB20_P10

USB20_N10

USB20_P11

USB20_N11

USB20_P10

USB20_N10

USB20_P11

USB20_N11

USB20_P10

USB20_N10

WCM-2012-900T_4P

WCM-2012-900T_4P

L67

L68

NOVO_BTN#

ON/OFFBTN#

D24

PJ30T24C 3P C/A SOT-23

+3VS

EMI request

JCR1

HP_OUTL

HP_OUTR

PLUG_IN

EXT_MIC_L

EXT_MIC_R

MIC_JD

USB20_P11

USB20_N11

USB20_P10

USB20_N10

ACES_85201-2005N

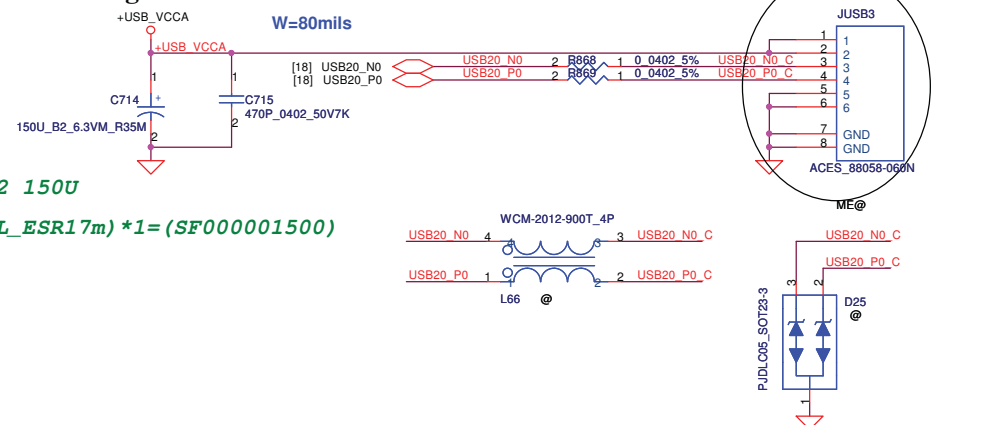
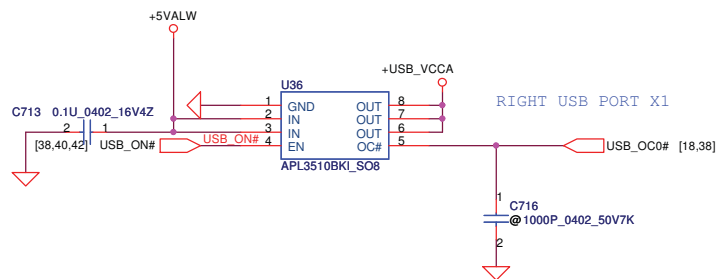
ME@

07/16

FOR PIW4 USE

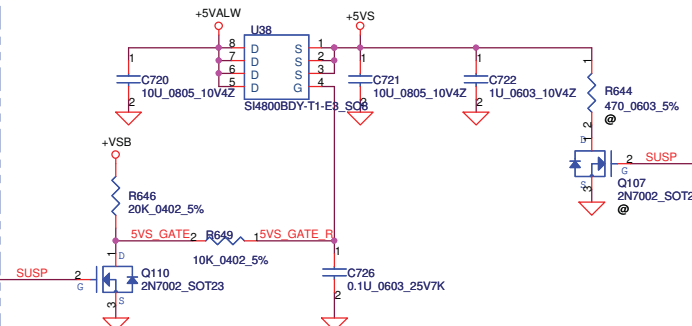
EMI REQUEST 1ST = SCA00000E00
2ST = SCA00000R00

6/9 change to B2 150U
(220uF_6.3V_5.8L_ESR17m)*1=(SF000001500)

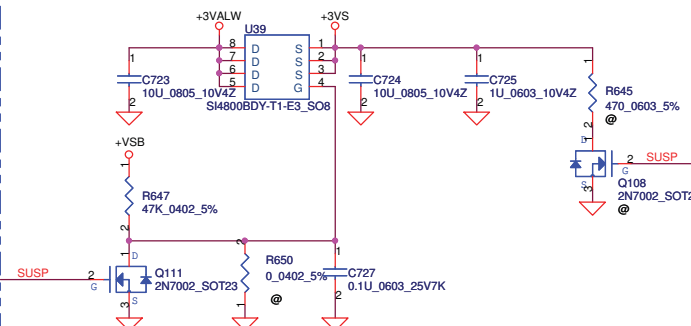


Security Classification		Compal Secret Data		✓ Compal Electronics, Ltd.	
Issued Date	2008/03/25	Deciphered Date	2008/04/	Title other IO connector	
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					Rev 0.1
Date: Tuesday, August 17, 2010		Sheet		43	of 57

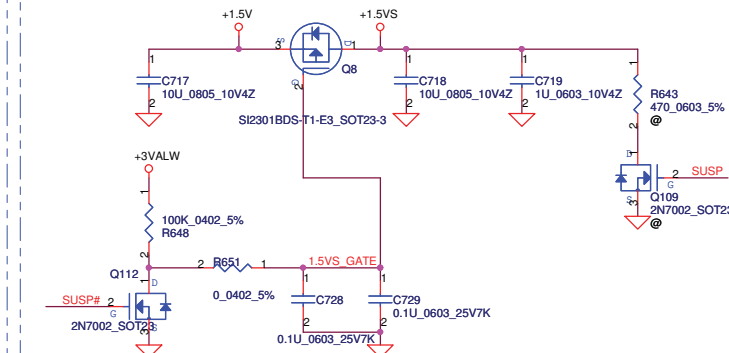
+5VALW TO +5VS



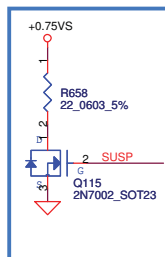
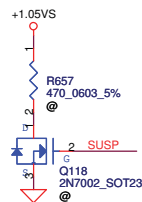
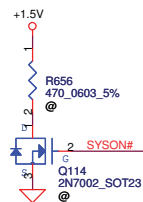
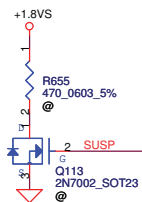
+3VALW TO +3VS



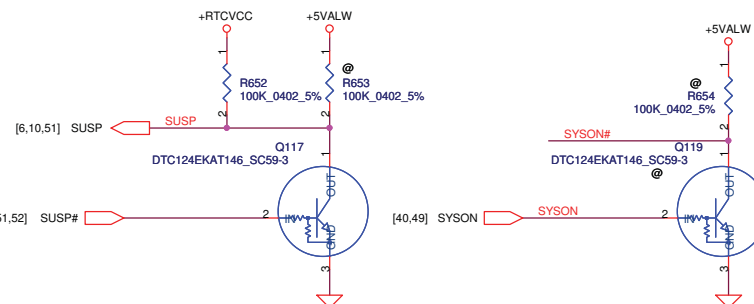
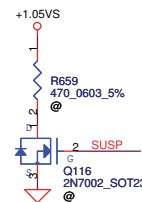
+1.5V to +1.5VS



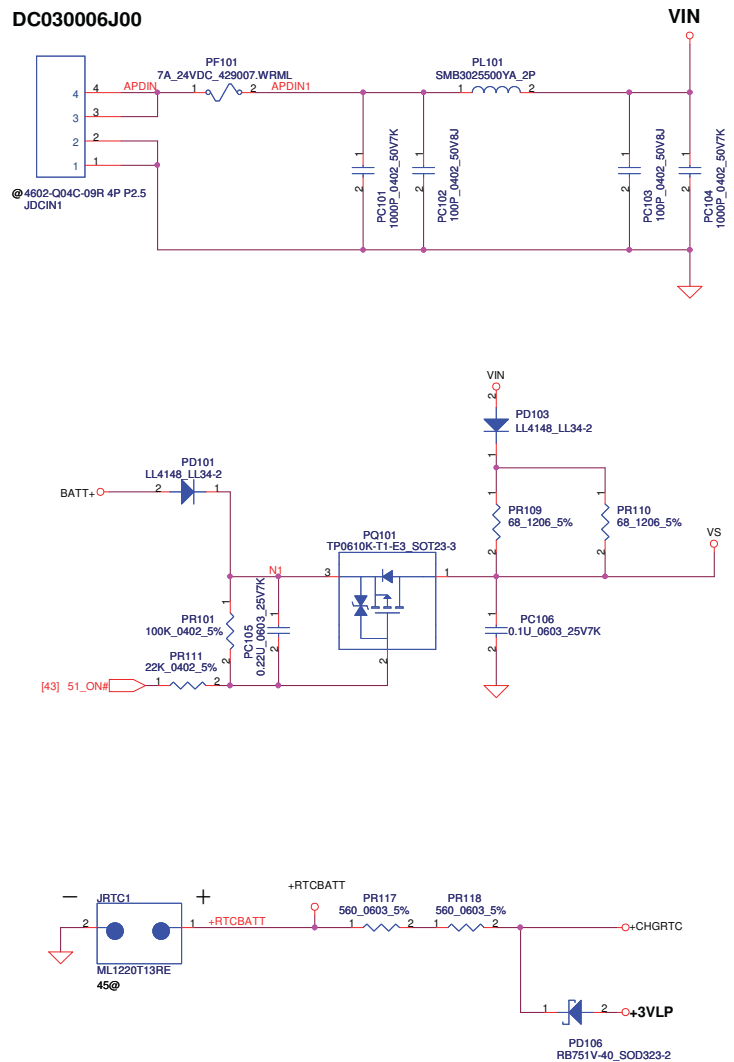
6/13 change SI4800 to SI2301



For Intel S3 Power Reduction.



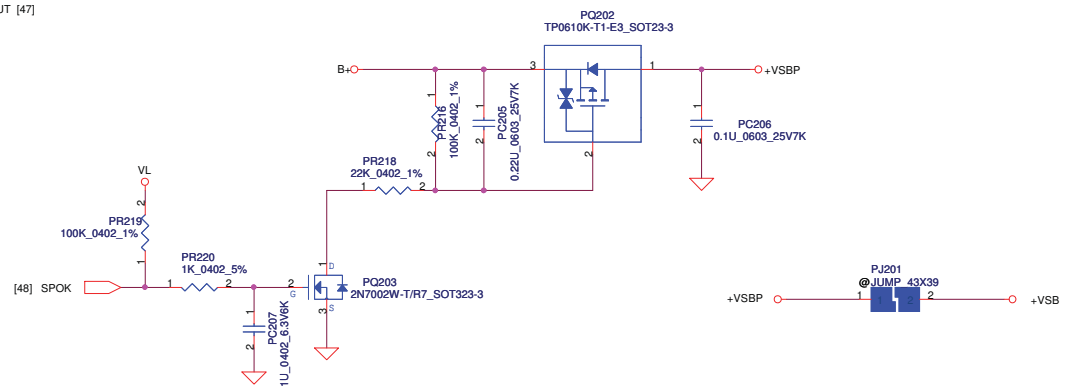
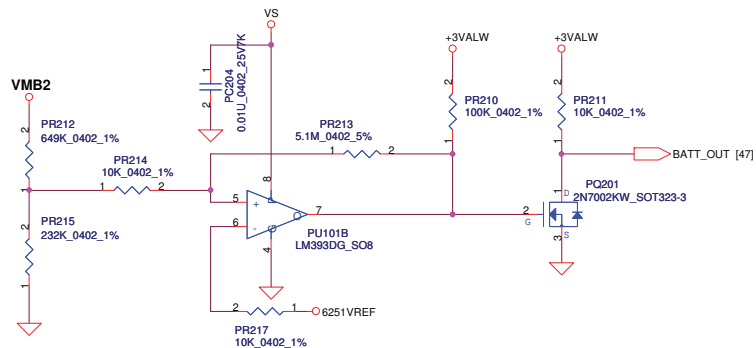
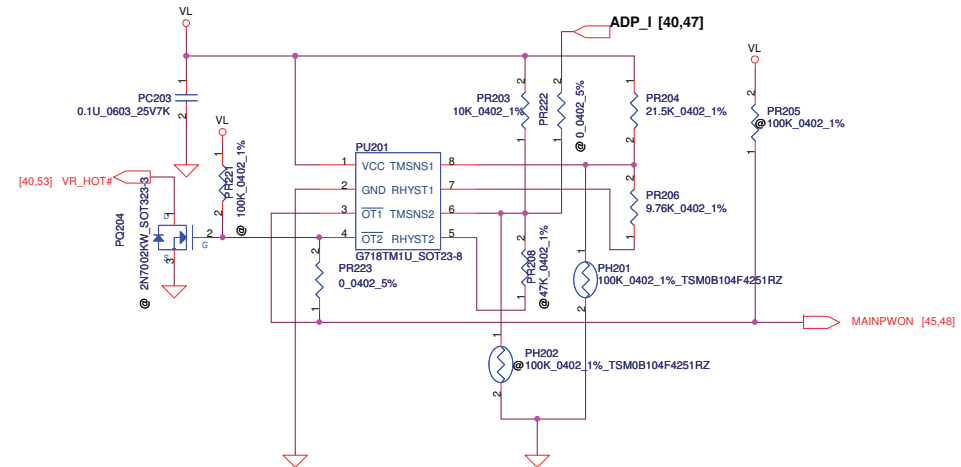
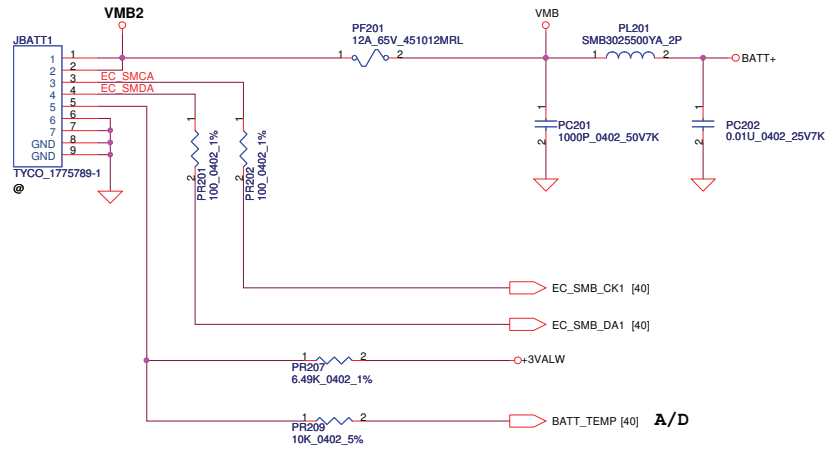
Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title
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Date: Tuesday, August 17, 2010				Sheet 44 of 57



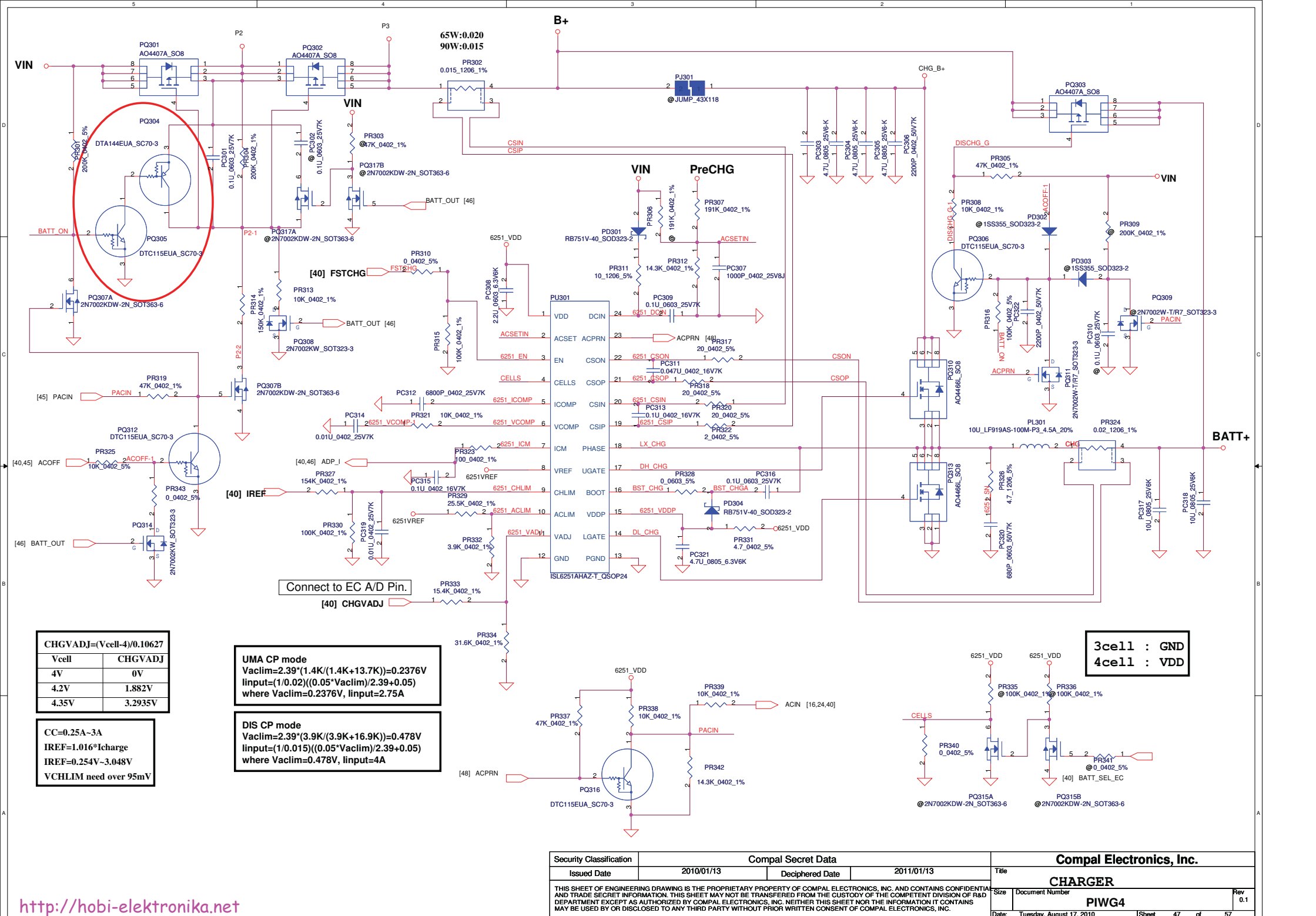
BATT ONLY

	Precharge detector		
	Min.	typ.	Max.
L-->H	7.196V	7.349V	7.505V
H-->L	6.138V	6.214V	6.056V

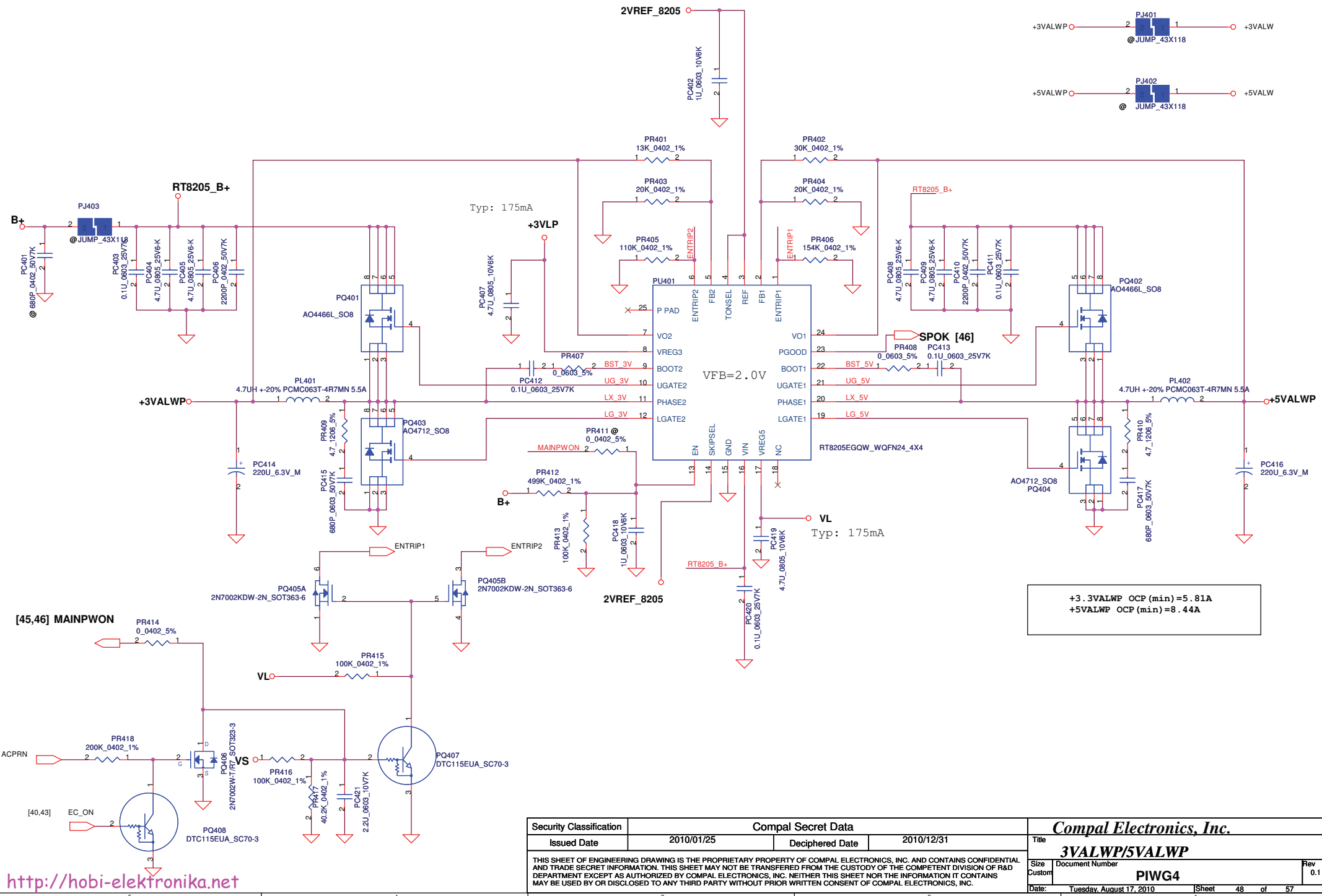
PH201 under CPU botten side :
 CPU thermal protection at 92 degree C
 Recovery at 56 degree C



Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2010/01/25	Deciphered Date	2010/12/31	Title	PWR-BATTERY CONN/OTP
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PIWG4					Date: Tuesday, August 17, 2010
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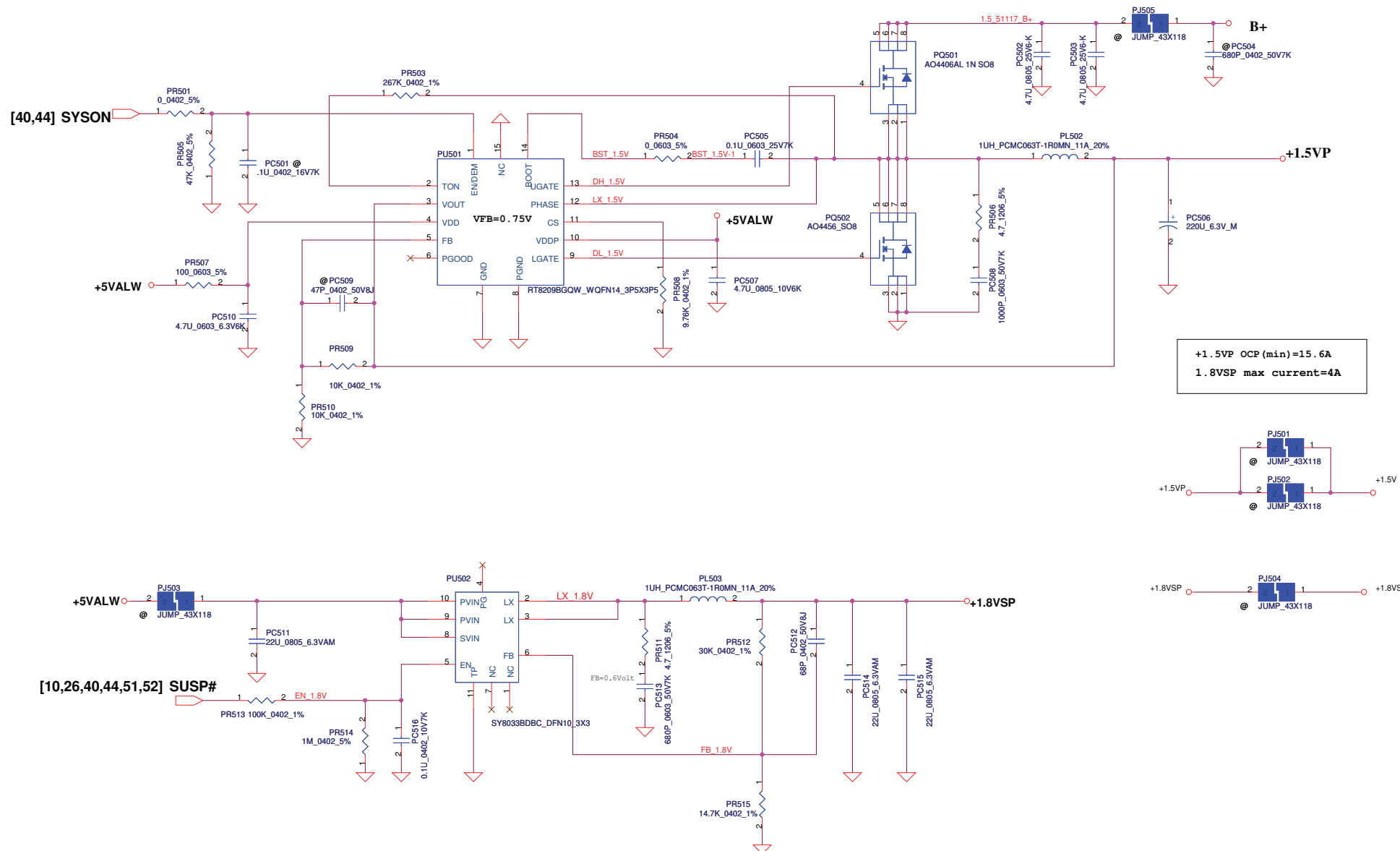


Note:
Use TPS51125 IC can remove RTC refernece LDO
Use TPS51427 IC must keep RTC refernece LDO

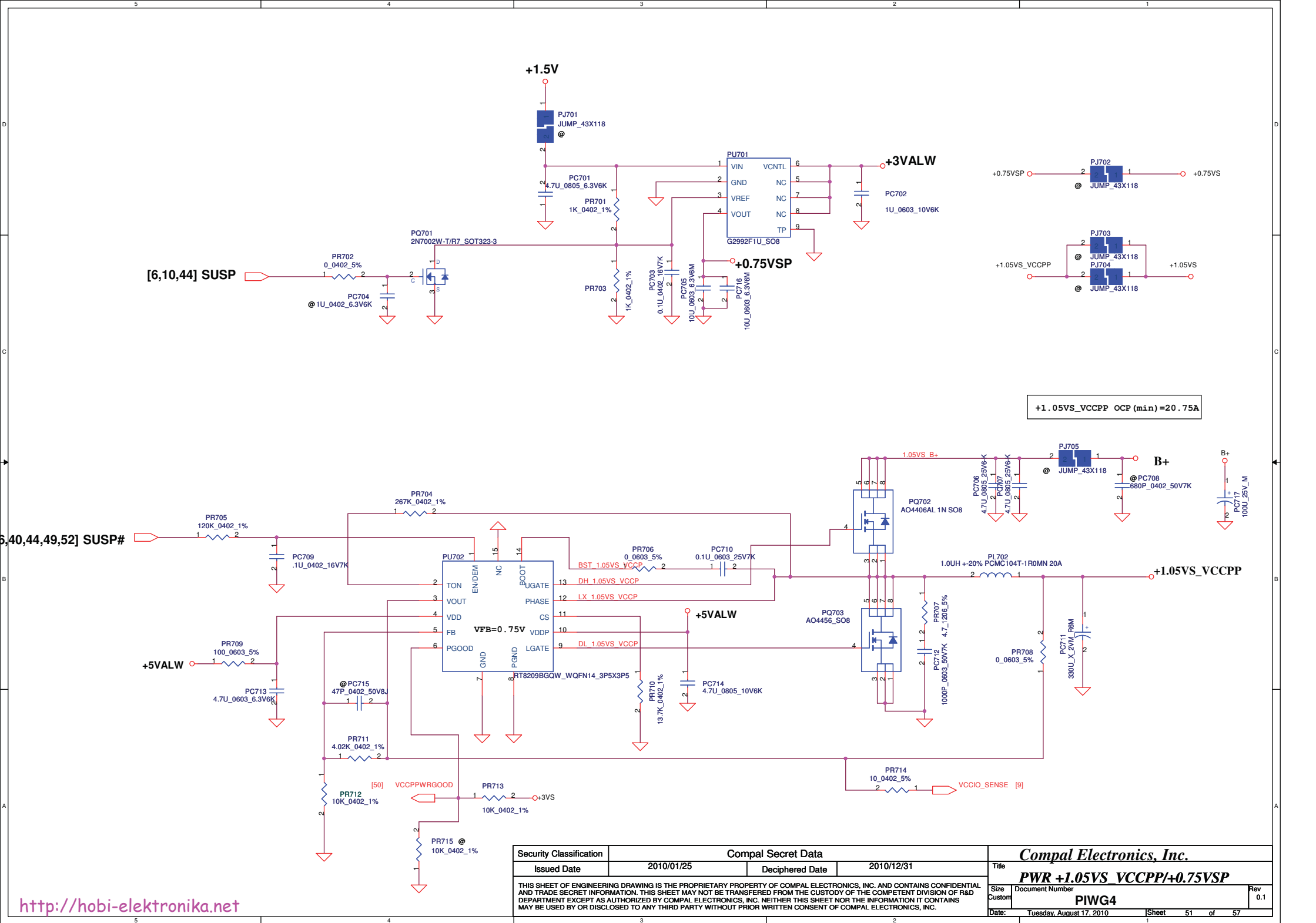


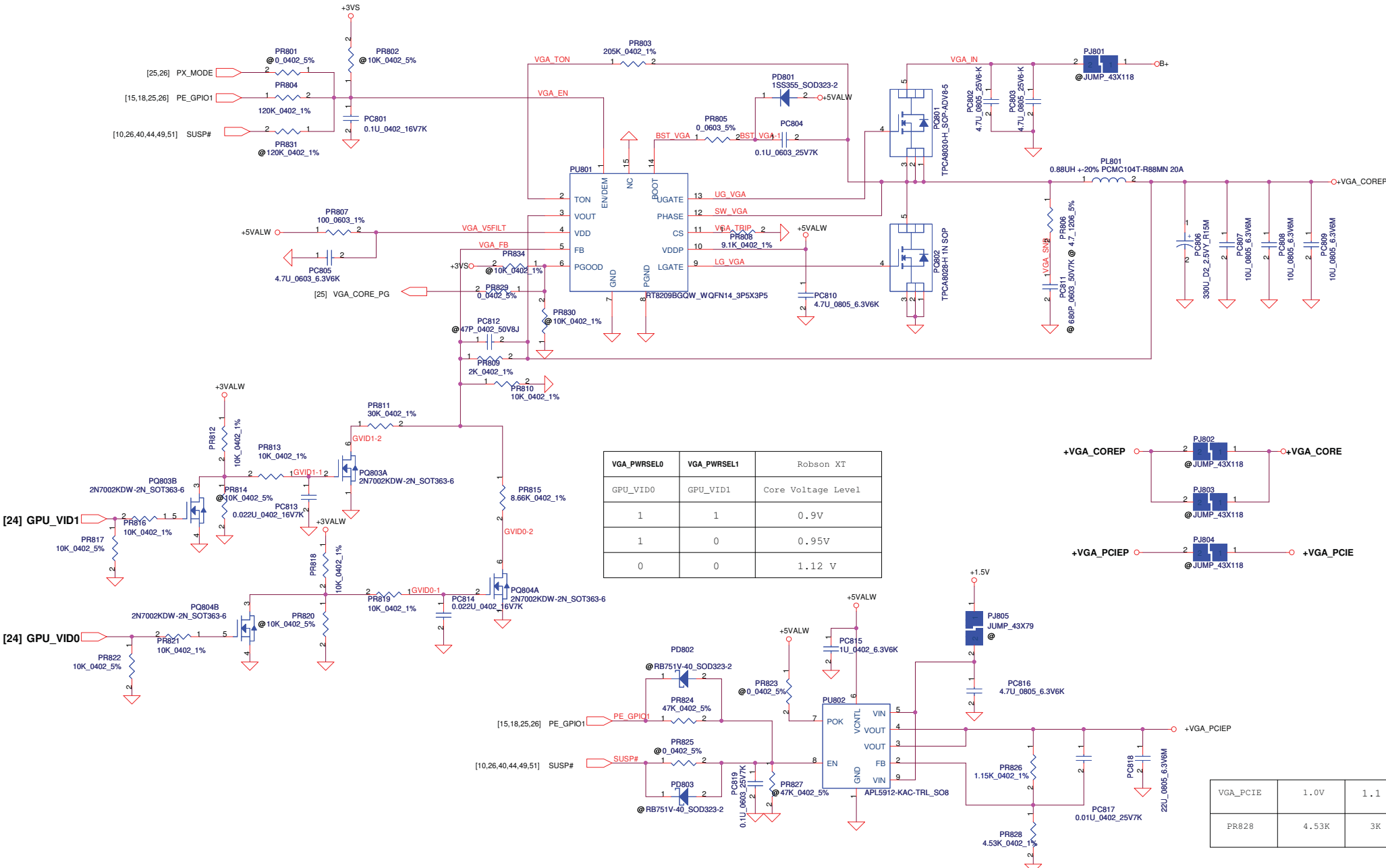
<http://hobi-elektronika.net>

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/01/25	Deciphered Date	2010/12/31	Title	3VALWP/5VALWP
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				Date	Tuesday, August 17, 2010
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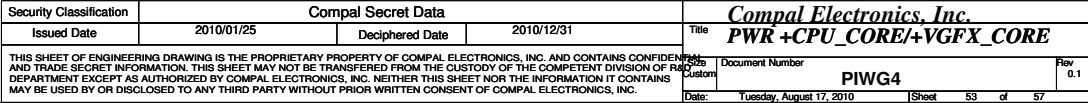


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2010/01/25	Deciphered Date	2010/12/31	Title	PWR-+1.5VP/+1.8VSP
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				Rev	0.1
				Date:	Tuesday, August 17, 2010
				Sheet	49 of 57



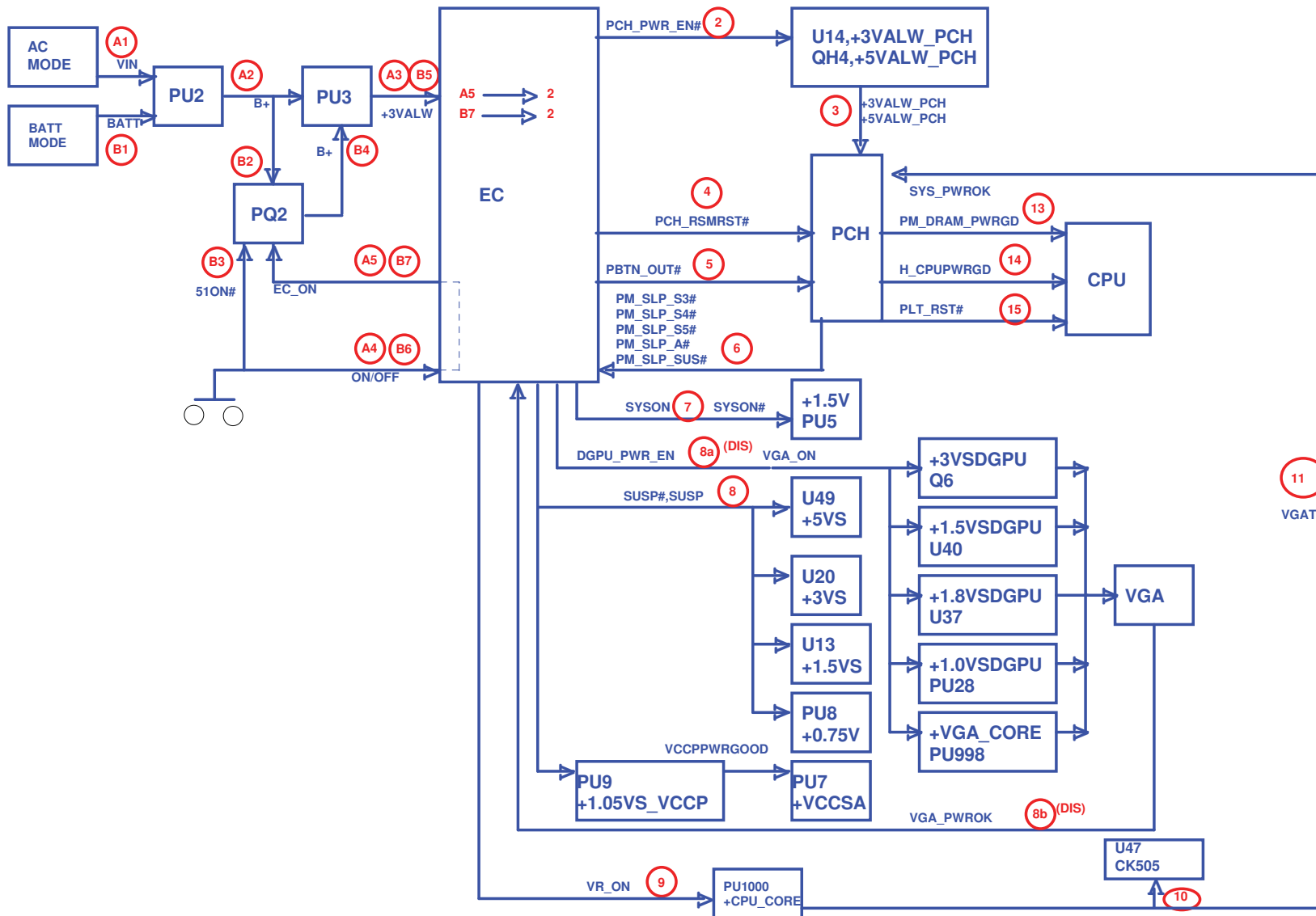


http://hobi-elektronika.net

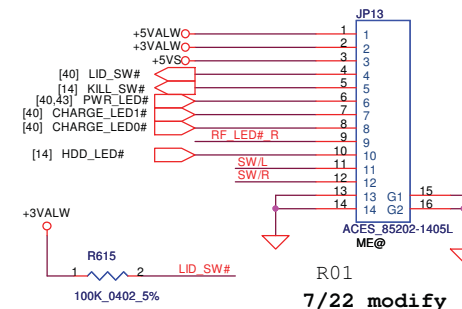
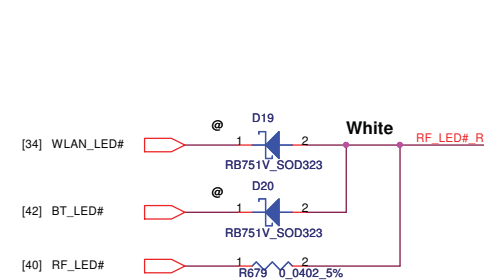
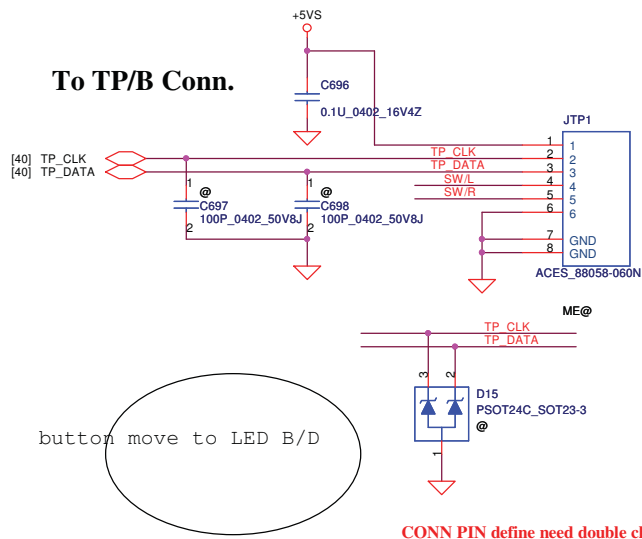
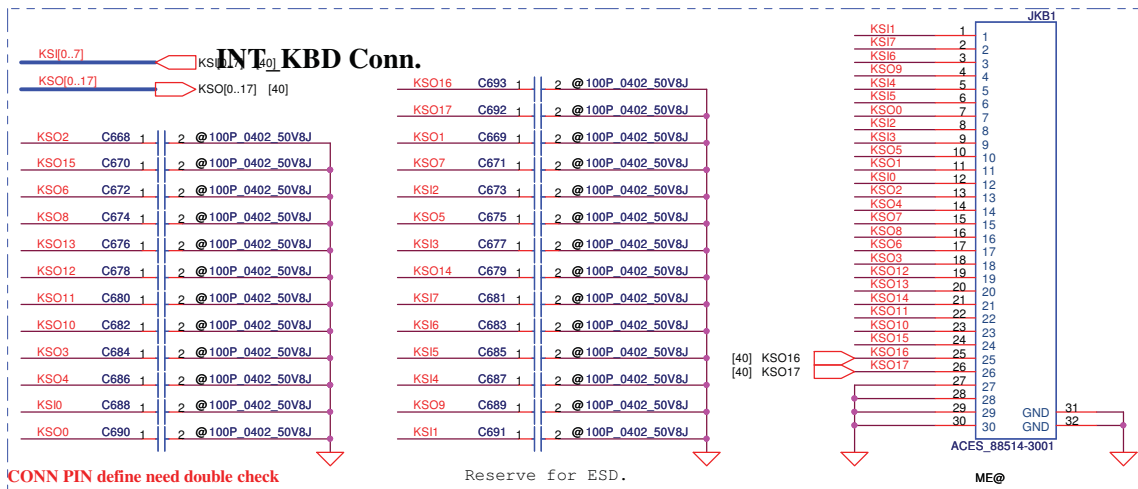


Item	Reason for change	PG#	Modify List	Date	Phase
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2					
3					
4					
5					
6					
7					
8					
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10					
11					
12					
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16					
17					

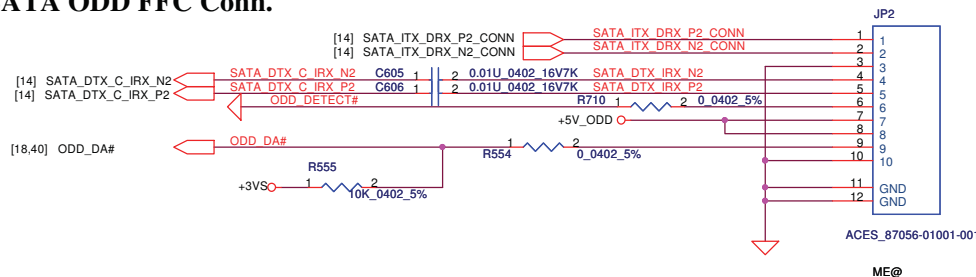
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2009/01/06	Deciphered Date	2009/01/06	Title	
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				Size	Document Number
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				Rev	0.1



Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	Power sequence
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SATA ODD FFC Conn.



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Issued Date	2010/07/12	Deciphered Date	2012/07/11	Title	
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				LA-6758P	
				Date:	Rev
				Tuesday, August 17, 2010	0.1
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PHASE	PAGE	Modification list	PURPOSE
0.2	P31	Change CRT Symbol	For CRT footprint issue
0.2	P31	Del C510	For Non-used part
0.2	P39	change C610 pin 1 net name	change C610 pin 1 net name to correct
0.2	P35	U25 change to U26	For co-lay 10/100 and GIGA
0.2	P32	Add R735,R736	For DIS only SMBus pull high
0.2	P33	Add R738,R739	For DIS only SMBus pull high
0.2	P33	Change Q63 BOM structure to HDMI@	For DIS HDMI function
0.2	P40	Add R740, C93	For EC request
0.2	P18	Change R215 pin1 net name	Change R215 pin1 net name to correct
0.2	P18	Add R741	Add R741 for Reserved PE_GPIO0
0.2	P16	Add R742, R743	For PCH power sequence
0.2	P38	Del U28, R542~R551 , J12	Del USB charger circuit
0.2	P40	Add EC pin 97,98,103	Add EC pin 97 for SYS_PWROK_EC , pin 98 for CE_EN , pin 103 for BATT_SEL_EC
0.2	P24	Change R662 pin 2 net name	Change R662 pin 2 net name to correct
0.2	P28	Del C421,C422,C431,C432,C433, L27, Add R745, U8 pin N11,N12 change to NC	For AMD new document suggestion
0.2	P26	Add R744	Add R744 for control PE_GPIO1 from SUSP#
0.2	P39	Change J10 footprint and Add J13	Change J10 footprint by Dfx request and Add J13 by vendor suggestion
0.2	P39	Change PC_Beep circuit	Change PC_Beep circuit
0.2	P6	Add R161, R182, R192 BOM structure hange to @	Follow ORB circuit
0.2	P58/59	Add R615 in I5" and I7" page	Pull high LiD_SW# at M/B side
0.2	P31	Add Q83 pin 1 power net name +CMOS_PW	For power trace net
0.2	P56/57/58	Change JP21 to JKB1	Change connector to standard name
0.2	P56/57/58	Change JP4 to JTP1	Change connector to standard name
0.2	P43/60	Change JP6 to JPWRB1	Change connector to standard name
0.2	P34	Change JP1 to JWLN1	Change connector to standard name
0.2	P42	Change JP5 to JBT1	Change connector to standard name
0.2	P43/60	Change JP7 to JCR1	Change connector to standard name
0.2	P19	Add R542	For ESATA detect function
0.2	P42	Add R886, R887 , C735	For ESATA detect function
0.2	P31	Add R543	For reserve EC control directly
0.2	P39	Change J10 footprint, Del C635, C636	Change J10 for Dfx and Del component for layout
0.2	P42	Add R877	For reserve EC control directly
0.2	P42	SW3 BOM structure change to @	For ME ASSY concern
0.2	P24	R324 BOM structure change, del @	For AMD update
0.2	P25	Change Q69,Q70,Q71,Q72 to BSS138, change Q66,Q67 pin 1 net name, D28 change to @	For Change BACO part follow AMD reference DATA ,D28 change to @ for leakage
0.2	P42	Change ESATA from port 5 to port 4	For intel risk
0.2	P15	Add R544,R545	For Pull high SMBus
0.2	P12/13	Del R74~R80,R82 R88~R94,R96	For DDR3 DM Bus to GND
0.2	P16	Add R182,R546	Add 186 for reserve sequence, Add R546 for follow CRB & ORB
0.2	P20	Del Add J12, R257 change to @	For voltage drop

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Security Classification		Compal Secret Data		Title	
Issued Date		2010/07/12		Deciphered Date	
		2012/07/11		2012/07/11	
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				Document Number	
				LA-6758P	
				Rev	
				0.1	
Date:				Tuesday, August 17, 2010	
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