

Compal Confidential

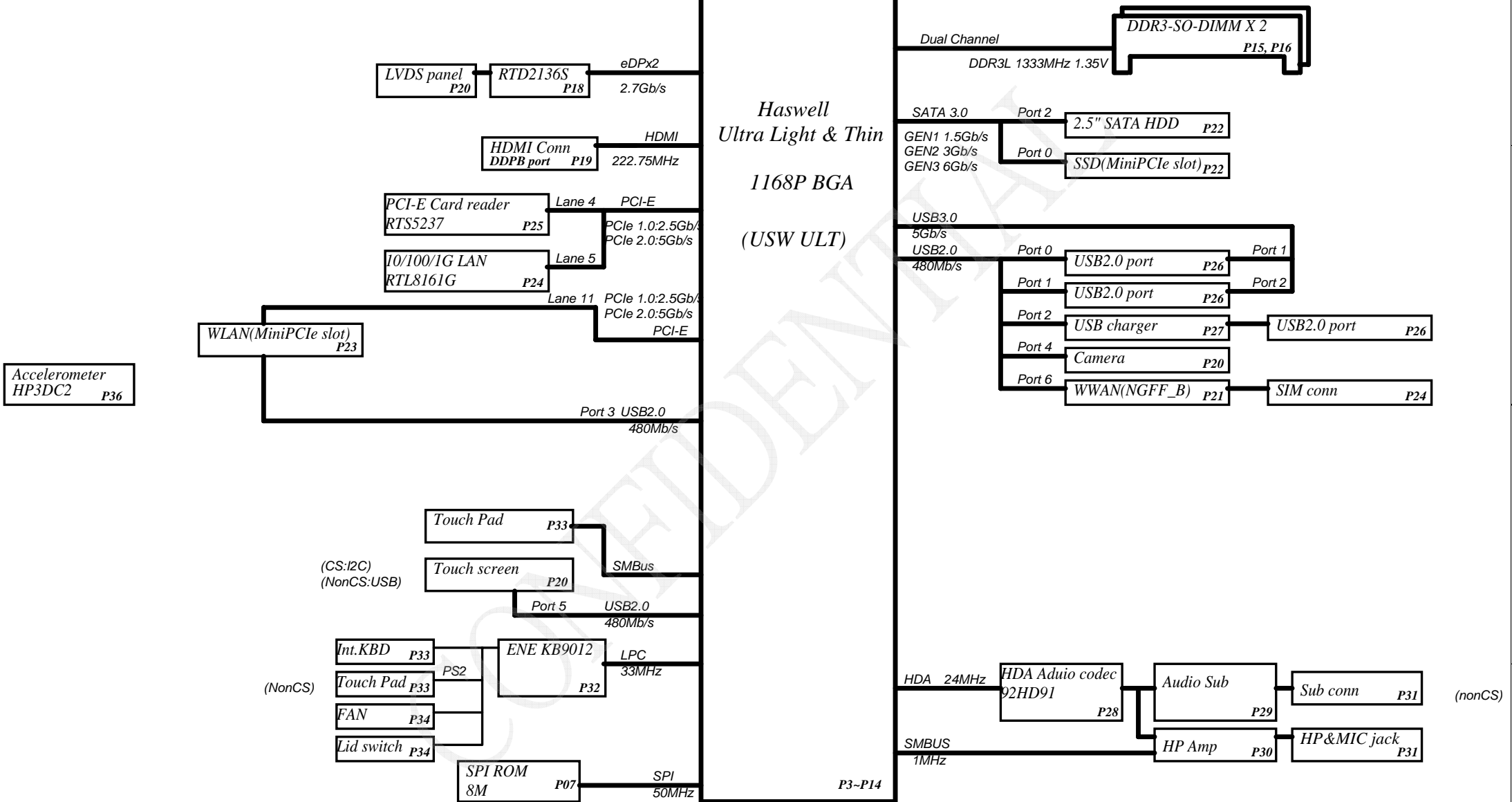
Hasswell M/B Schematics Document

Intel ULV Processor with LPDDR3/DDR3L

Date : 2013/04/10

Version 1.0

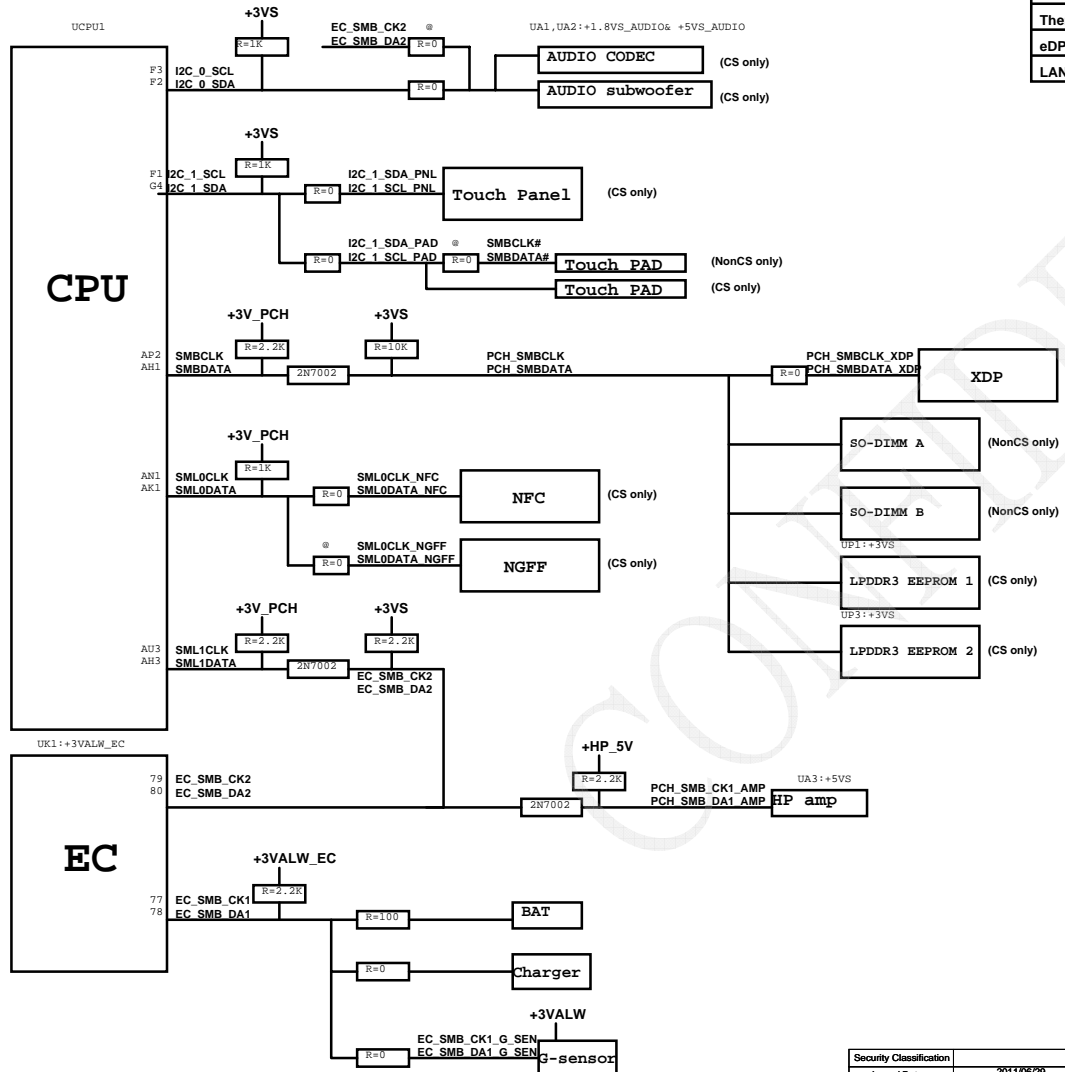
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RESEARCH AND DEVELOPMENT 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.				Document Number	4019LR
				Date: Monday, October 21, 2013	Sheet 1 of 49



Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A9315	
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.				Document Number	4019LR	Rev A
				Date	Monday, October 21, 2013	Sheet 2 of 49

Power Pin	Control (E)	Source (CPU)
VIN	X	X
BATT+	X	X
B+	X	X
+VL	X	X
+3VL	X	X
+5VALW	EC_ON	X
+3VALW	EC_ON	X
+3VALW_EC	EC_ON	X
+3V_PCH	PCH_PWR_EN	X
+1.05V	SUSP#	
+1.8V	SYSON	PM_SLP_S5# / PM_SLP_S4#
+1.2V_1.35V	SYSON	PM_SLP_S5# / PM_SLP_S4#
+5VS	SUSP#	PM_SLP_S3#
+3VS	SUSP#	PM_SLP_S3#
+1.8VS	SUSP#	PM_SLP_S3#
+1.5VS	SUSP#	PM_SLP_S3#
+1.05VS	SUSP#	PM_SLP_S3#
+1.05VS_MODPHY	X	MPHY_PWREN
+0.6V_0.675VS	X	SM_PG_CTRL
+VCC_CORE	X	VR12.5_VR_ON

@ is NO SMT part (empty)



<Power gating GPIO,wake ,INT and RST>

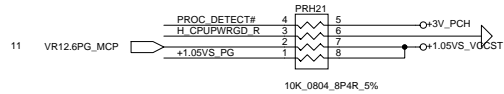
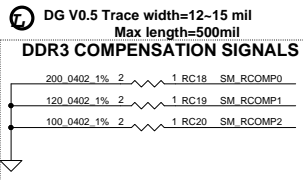
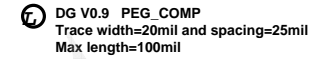
Device	Power gating GPIO	Enable (ON) CPU IC HW part	RST/RQ	Wake/INT
NGFF SSD	X(Not support)			
NGFF WWAN	X(Not support)			
NGFF WLAN/BT WLAN (MiniPCIe) *	GPIO83	H H Load switch	GPIO34 *	GPIO54 *
USB3.0 CONN	GPIO13	L L USB switch		
USB3.0 CONN(Charger)	GPIO43	H H USB charger		
Card reader (PCI-E)	GPIO60	H H Load switch	GPIO93	GPIO94
USB2.0 Camera	GPIO25	H H Load switch		
Touch Panel	GPIO89	H H Load switch	GPIO52	GPIO50
Touch Pad -NonCS Touch Pad -CS *	GPIO88	L L PMOS		GPIO55 *
WWAN	GPIO84	H H Load switch		
SATA HDD/SSD	GPIO90	H H Load switch	GPIO38 X(Not support)	
mSATA	GPIO86	H H Load switch	DEVSLP2#/GPIO39	
Audio DSP + codec	GPIO76	H H Load switch	X(Not support)	
Thermal (EC)	X(Not support)			
eDP*	V	Load switch		
LAN (PCI-E)	GPIO12	H L Load switch	GPIO91	GPIO92

<USB2.0 port>

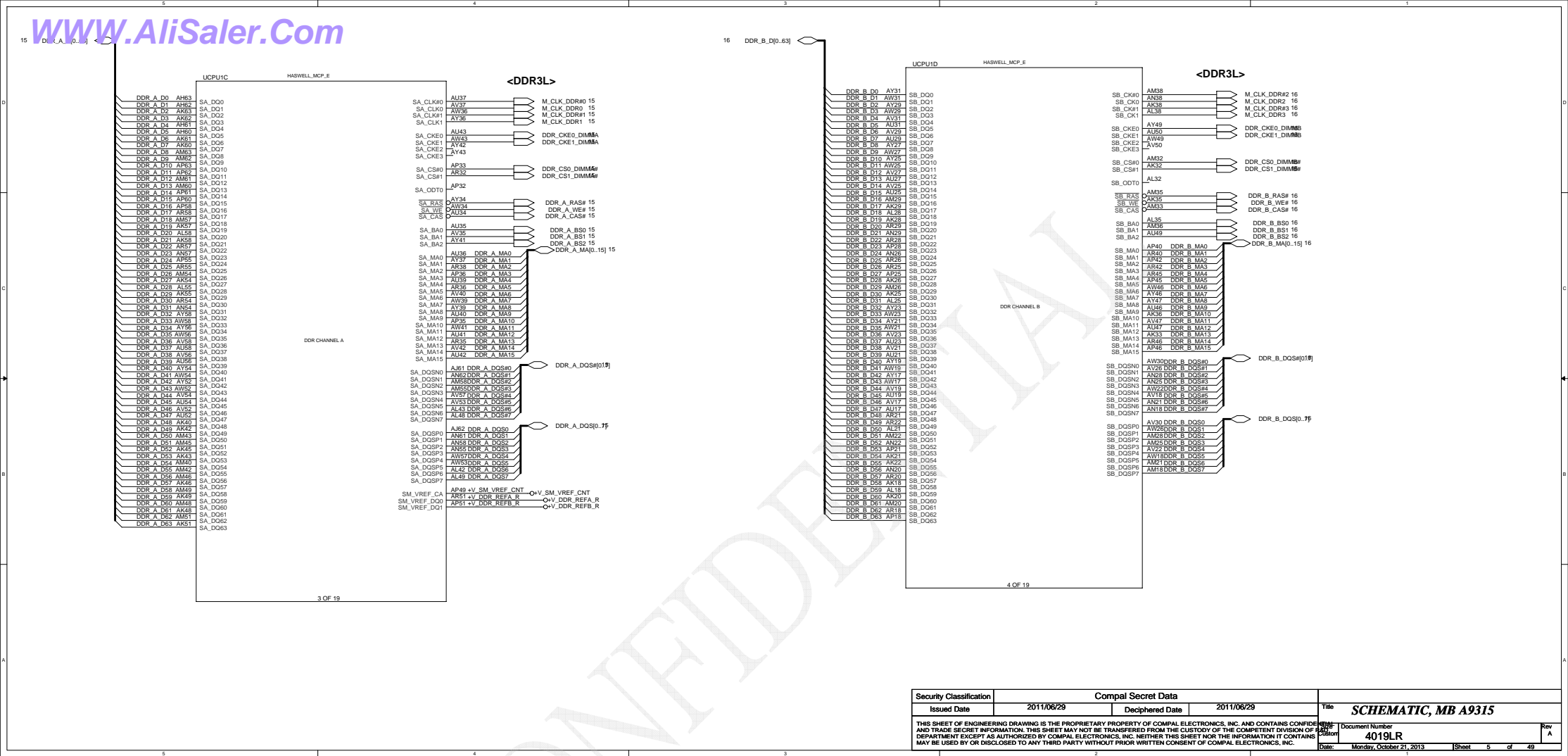
USB2.0 port	DESTINATION	
	CS	NonCS
0	USB 2.0(left side)	USB 2.0(left side)
1	USB 2.0(left side)	USB 2.0(left side)
2	USB 2.0(right side)	USB 2.0(right side)
3	WLAN (NGFF)	WLAN (MiniPCIe)
4	Camera	Camera
5	No contact	Touch screen
6	WWAN	WWAN
7	Finger printer	Finger printer

<PCI-E,SATA,USB3.0>

Lane#	PCI-E	SATA	USB3.0	DESTINATION	
				CS	NonCS
1			1	USB3.0	USB3.0
2			2	USB3.0	USB3.0
3	1		3	X(Not support)	X(Not support)
4	2		4	Card reader(PCI-E)	Card reader(PCI-E)
5	3			10/100/1000 LAN	10/100/1000 LAN
6	4				
7					
8					
9					
10					
11		3		WLAN (NGFF)	WLAN (MiniPCIe)
12		2			
13		1		2.5"HDD	2.5"HDD
14		0		SSD(mSATA)	SSD(mSATA)

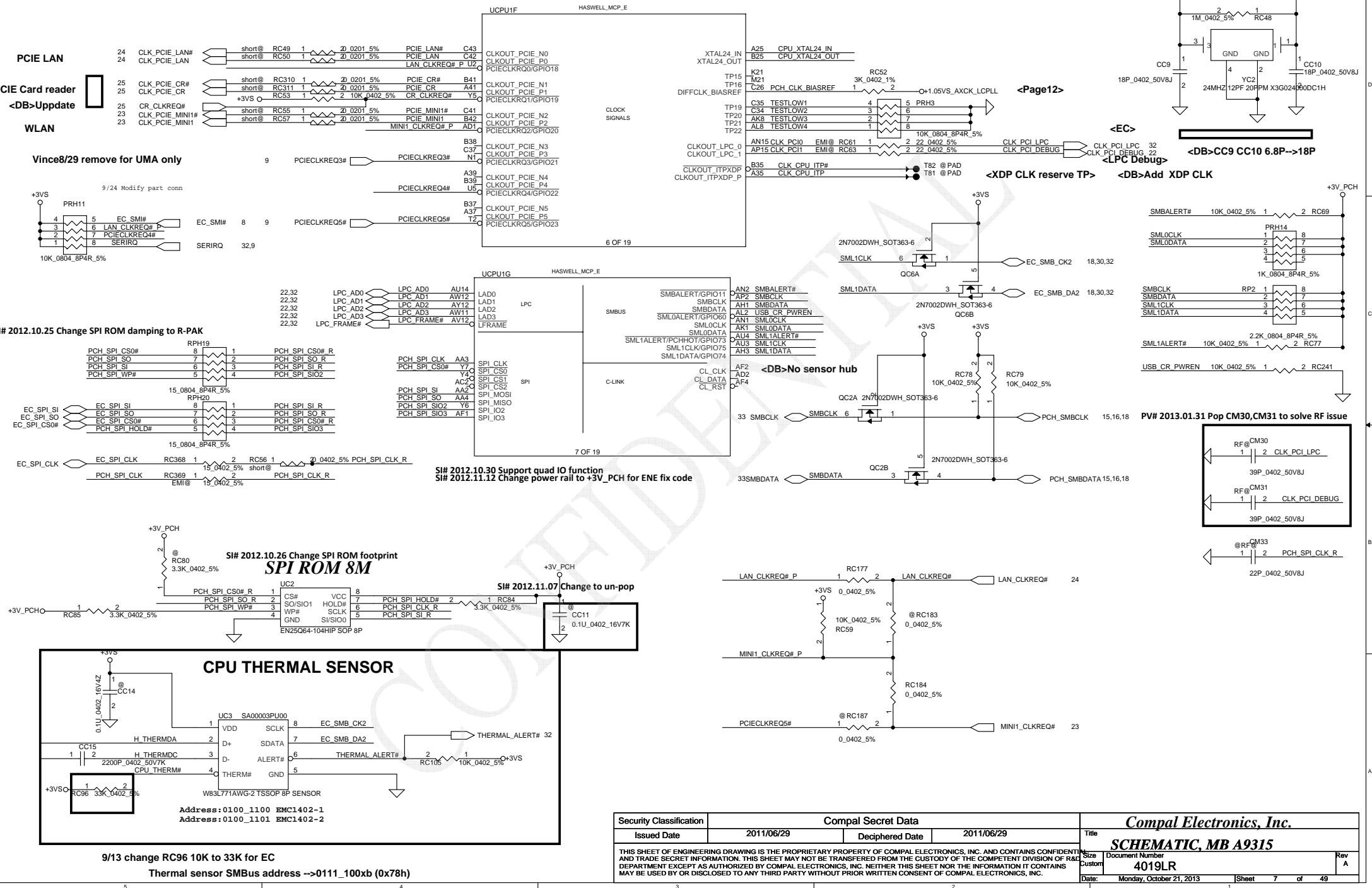


Compal Electronics, Inc.



Security Classification		Compal Secret Data		Title	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Document Number	4019LR
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 COMPAL ELECTRONICS, INC. WITHOUT PRIOR WRITTEN CONSENT OF 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.					
Date: Monday, October 21, 2013		Sheet 5 of 49		Rev A	

Compal Electronics, Inc.



PV# 2013.01.07 Add test point

Non Deep S3 RC91-->SMT
Deep S3 RC93-->SMT

DSWODVREN - On Die DSW VR Enable

* H : Enable
L : Disable

DSWODVREN RC254 2 1 330K 0402 5%
DSWODVREN RC255 2 1 330K 0402 5%

PV# 2013.01.30 Let AOAC_PME# connect with WAKE# to support DS3 wake.

Deep S3

SI# 2012.10.25 Change RC106 to 10K

PANEL_BKEN_CPU PD 100K on Page20

<HDMI>

<HDMI>

<eDP HPD>

Security Classification

Compal Secret Data

Issued Date

2011/06/29

Deciphered Date

2011/06/29

Title

SCHEMATIC, MB A9315

Size

Document Number

4019LR

Date

Monday, October 21, 2013

Sheet

8

of

49

Rev

A

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.

9/12 reserve EC_FB_CLAMP_TGL_REQ# on GPIO16
9/12 reserve DGPU_GC6_EN on GPIO17

9/13 remove EC_FB_CLAMP_TGL_REQ# for UMA only

9/12 reserve DGPU_HOLD_RST# on GPIO58

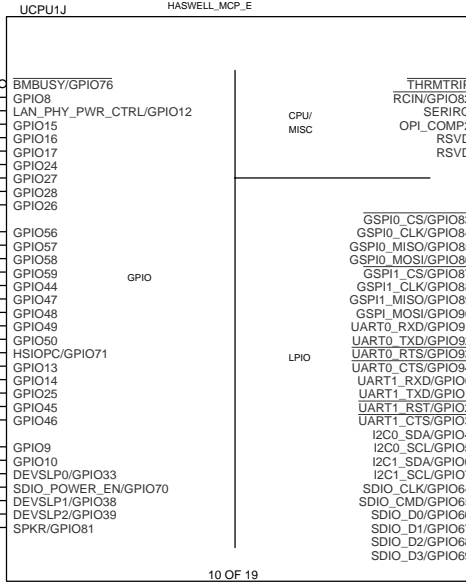
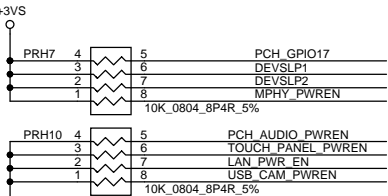
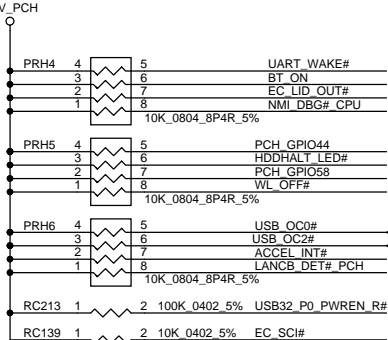
No sensor hub
No sensor hub

No sensor hub

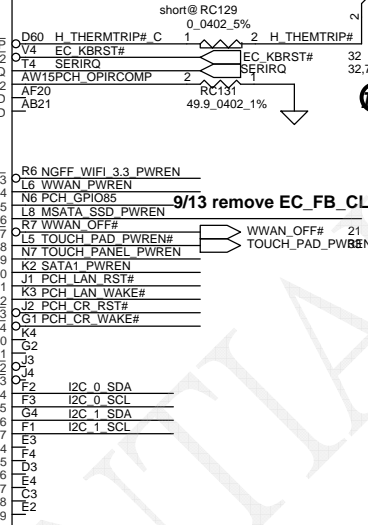
<DB>CS only PCH_HP_DET#

PCH_GPIO81(HDA_SPKR):NonCS only

SI# 2012.10.25 Change ACCEL_INT#(PCH_GPIO80) to GPIO46



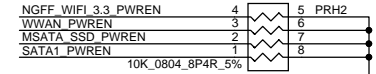
DG V0.9 PCH_OPIRCOMP
Width=12mil,spacing=12mil
Max length=500mil



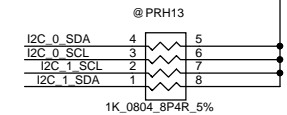
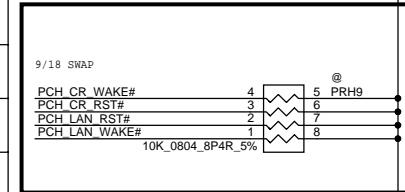
9/13 remove EC_FB_CLAMP_TGL_REQ# for UMA only *

Boot BIOS Strap

PCH_GPIO86	Boot BIOS Location
0	SPI

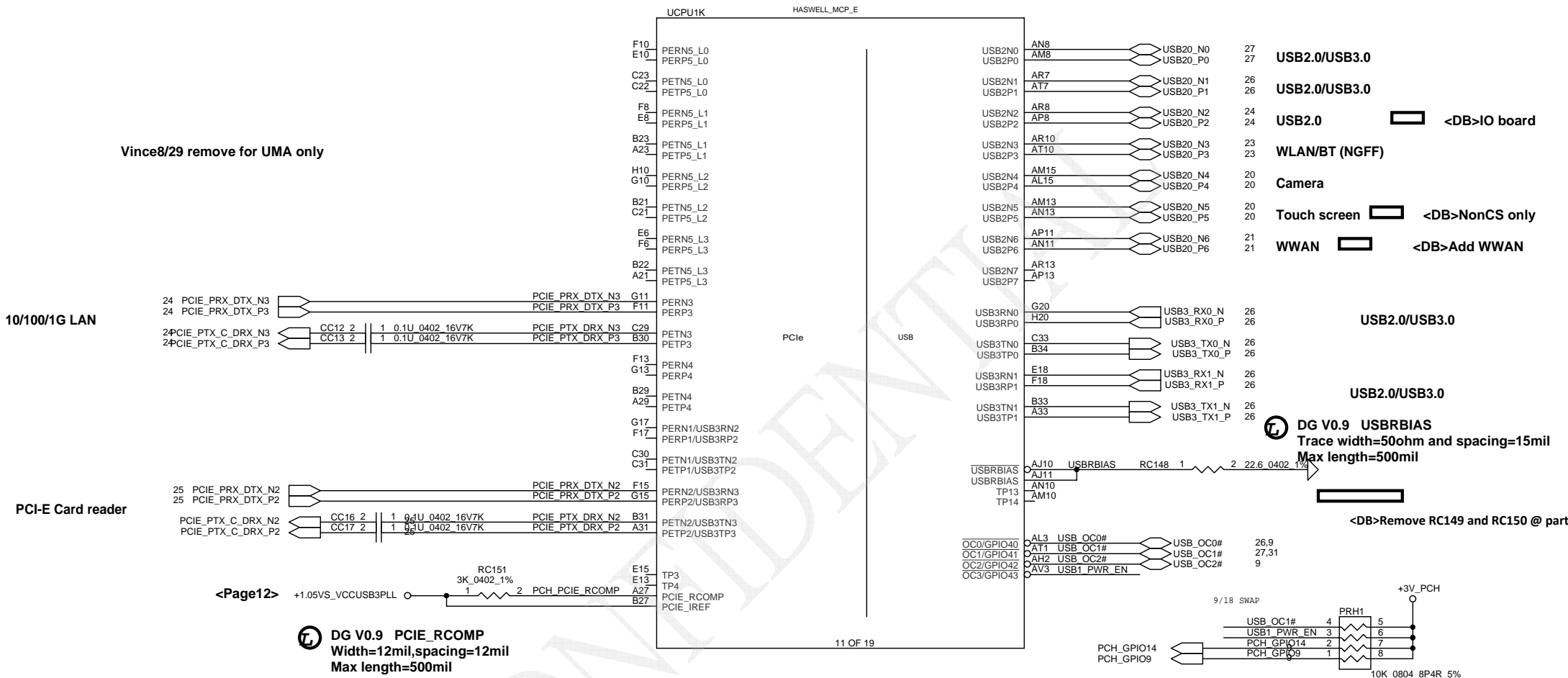


	GPIO47 LPDDR3_ID1	GPIO48 LPDDR3_ID2	GPIO49 LPDDR3_ID3
Hynix 8G/1600 H9CCNNN8JTMLAR	0	0	0
Samsung 8G/1600 K4E8E304EB-EGCE	0	0	1
Elpida 8G/1600 EDF8132A1MC-GD-F	0	1	0



SI# 2012.11.07 Change RC360,PRH9,RC290 to un-pop

Security Classification	Compal Secret Data			Title	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	SCHEMATIC, MB A9315	
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.				Document Number	Rev
				4019LR	A
Date:				Monday, October 21, 2013	Sheet 9 of 49

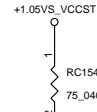


Security Classification		Compal Secret Data		Title	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	SCHEMATIC, MB A9315	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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	Rev
				4019LR	A
Date: Monday, October 21, 2013				Sheet	10 of 49

+VCC_CORE@10000mA

+VCC_CORE

SVID ALERT



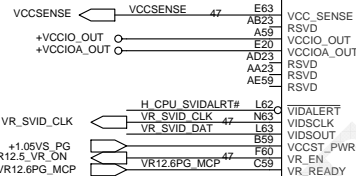
DG V0.5 H_CPU_SVIDALRT#
RC154 close to CPU<300mil
Max length=1000~2000mil

VCC_SENSE

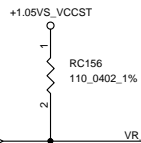
<PWR VR12.6>

<VR IV and CPU>
<EDP_COMP power rail>

PH on power page



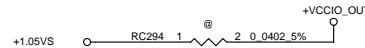
SVID DATA



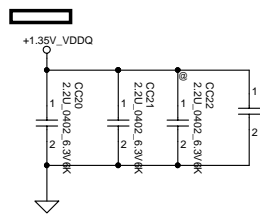
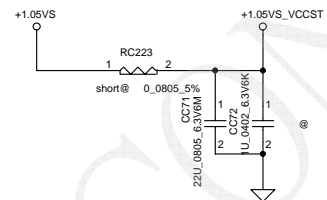
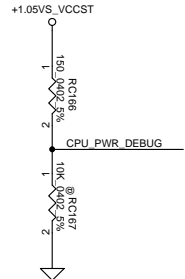
<PWR VR12.6>

+VCCIO_OUT power rail choose

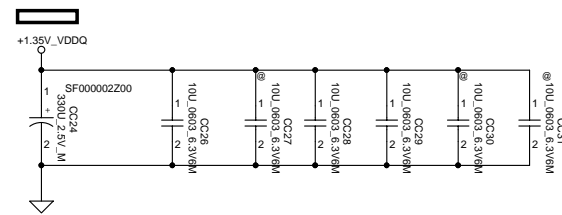
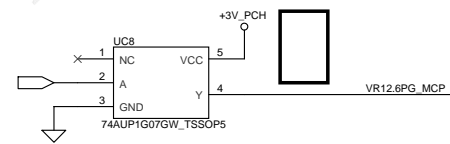
<CPU>



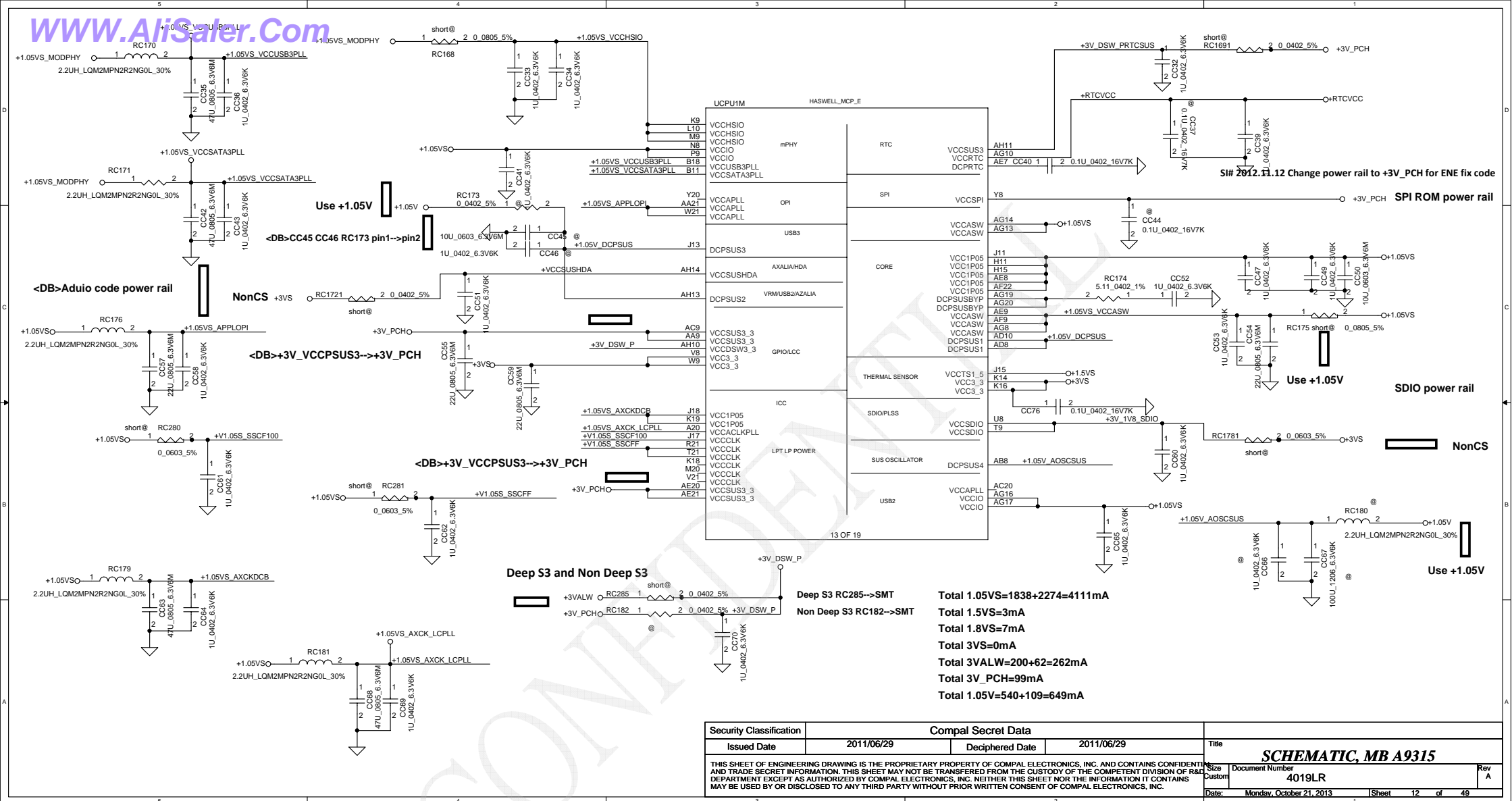
DG V0.5 VIDSOUT
RC156 close to CPU<500mil
Max length=1000~2000mil



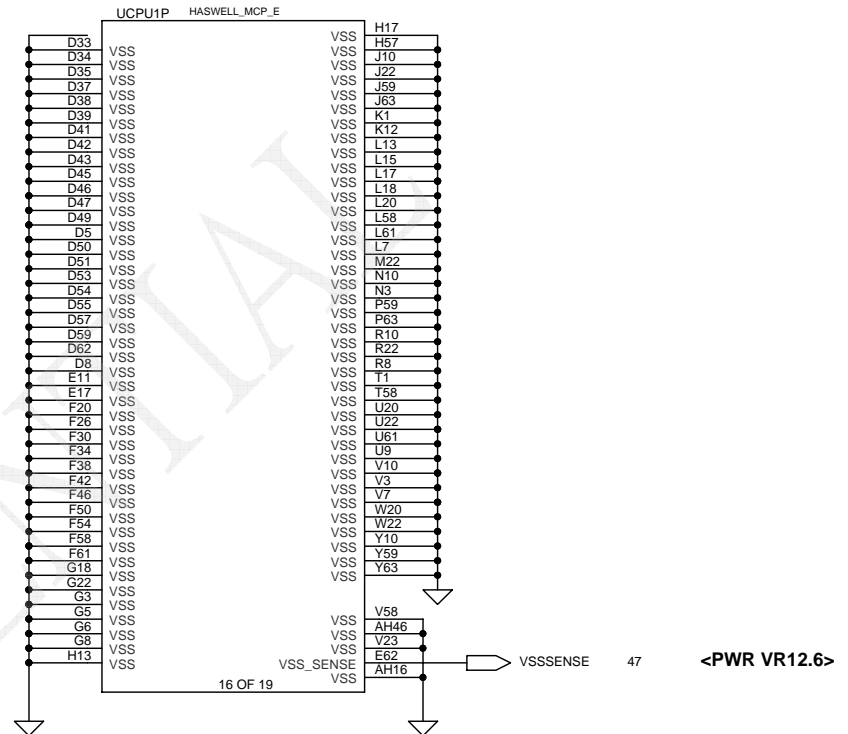
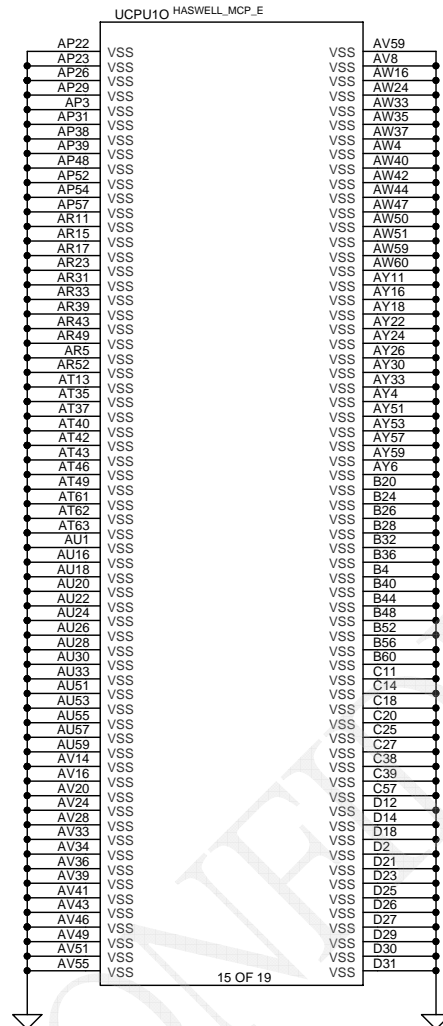
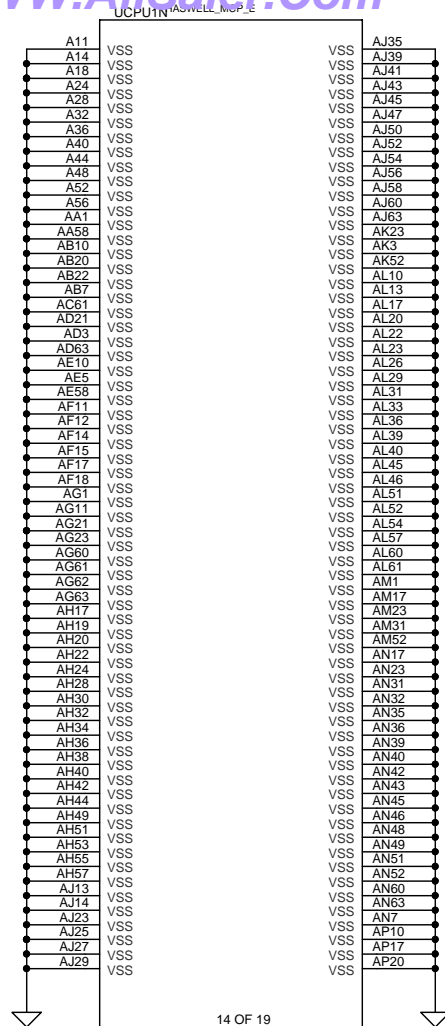
SI# 2012.11.01 Change PH to R-PAK in page 4



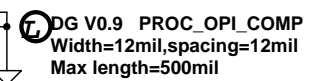
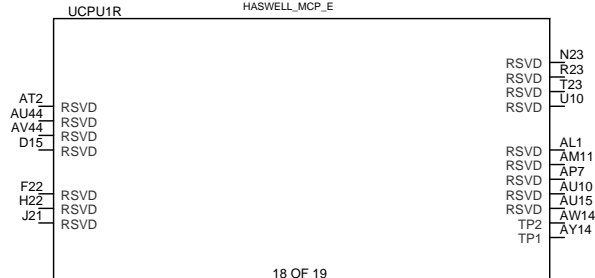
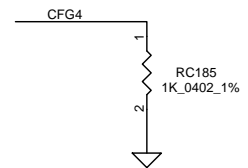
Security Classification			Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A931S	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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	Document Number	Rev
				Custom	4019LR	A
				Date	Monday, October 21, 2013	Sheet 11 of 49



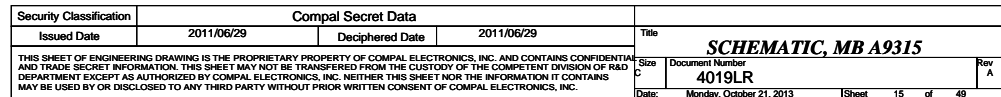
Security Classification		Compal Secret Data		Title	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	<p><i>SCHEMATIC, MB A9315</i></p>	
<p>THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY 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.</p>				Size	Rev
				Custom	A
				Document Number	
<p>Date: Monday, October 21, 2013</p>				Sheet	12 of 49

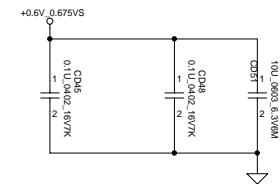


Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2010/05/27	Deciphered Date	2011/05/11	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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.				Document Number	Rev
				4019LR	A
Date: Monday, October 21, 2013				Sheet	13 of 49



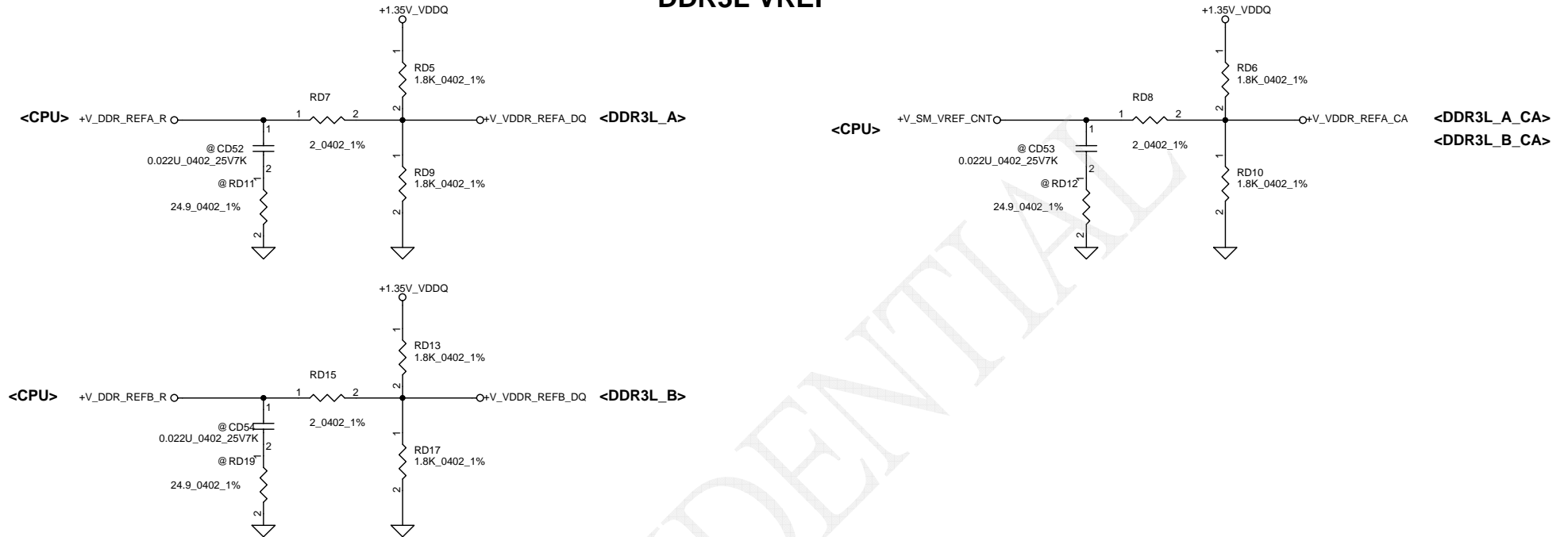
Security Classification		Compal Secret Data		Compal Electronics, Inc. <i>SCHEMATIC, MB A9315</i>	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. 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	Document Number
					4019LR
				Date:	Monday, October 21, 2013
				Sheet	14 of 49
				Rev	A



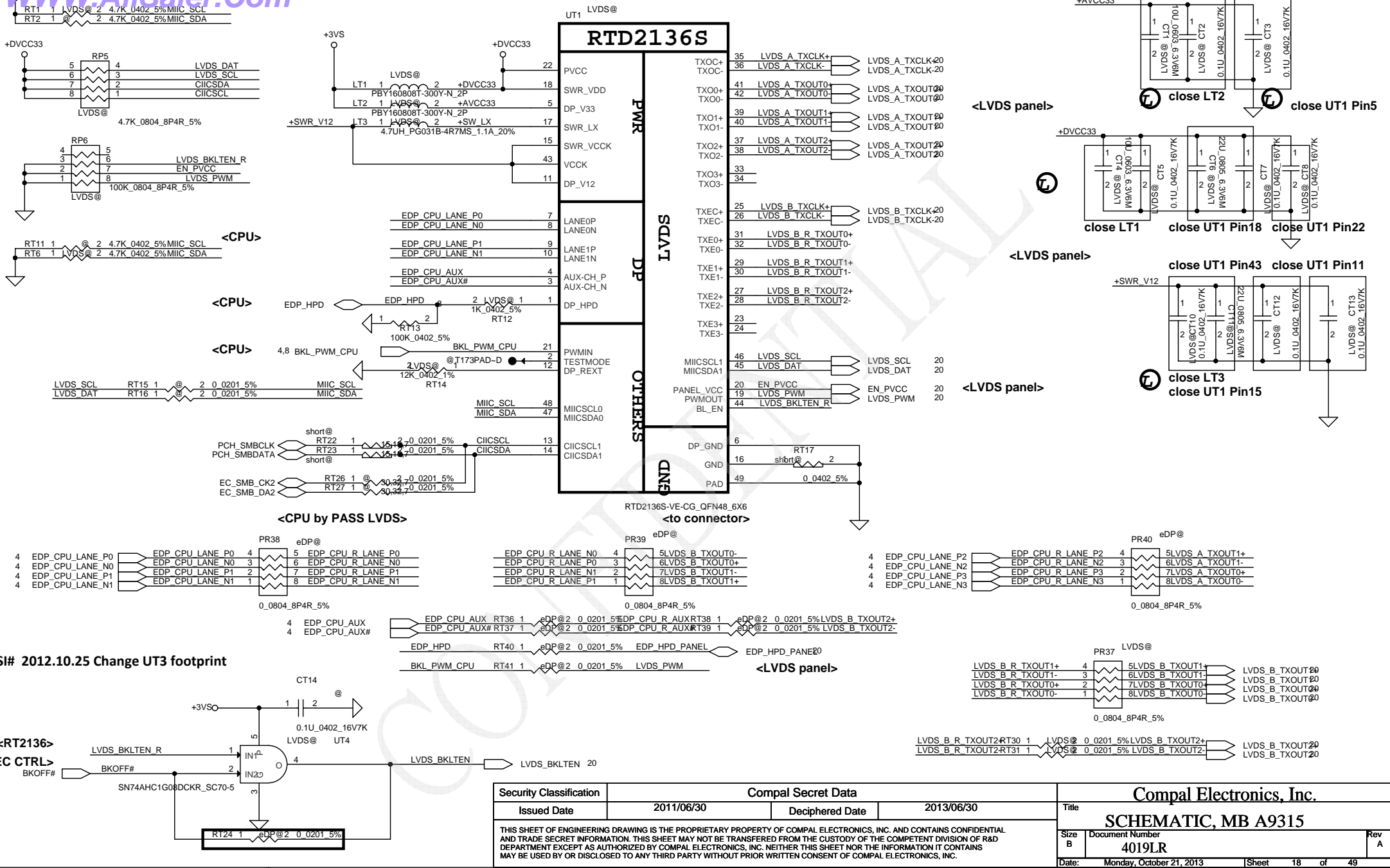


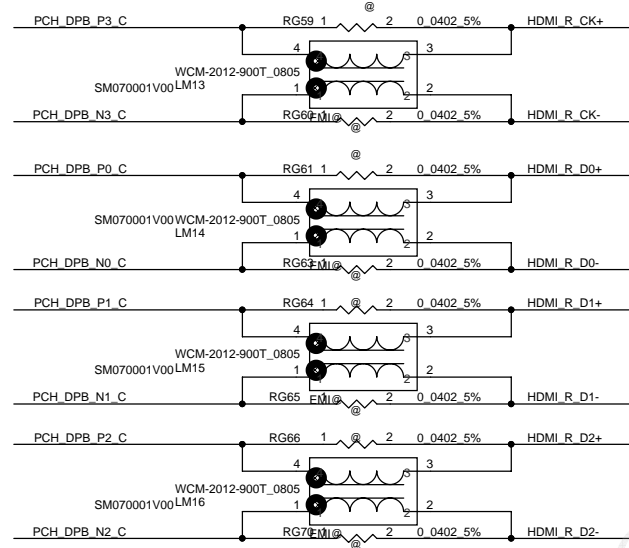
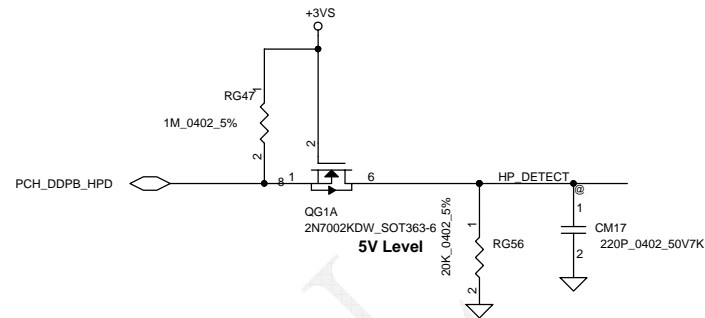
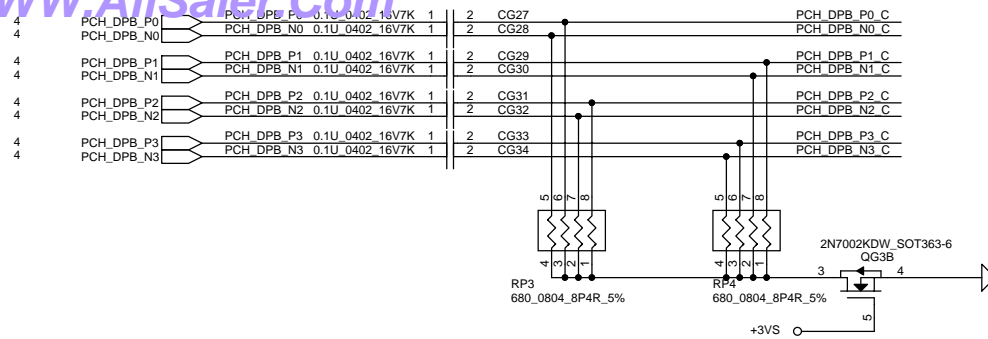
5	4	3	2	1
---	---	---	---	---

DDR3L VREF

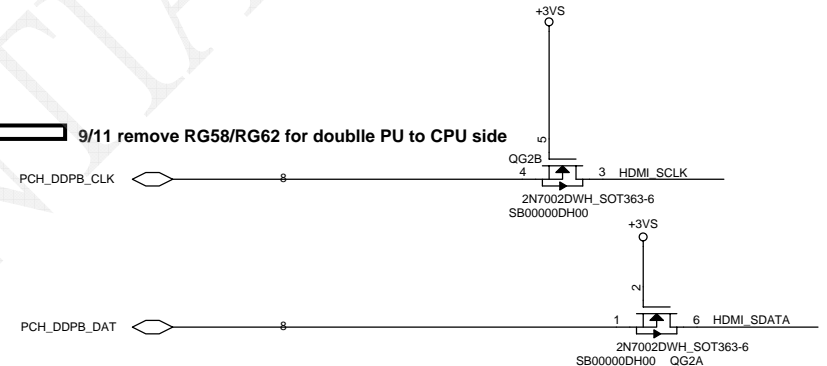


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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	Document Number
				4019LR	Rev A
Date: Monday, October 21, 2013				Sheet	17 of 49



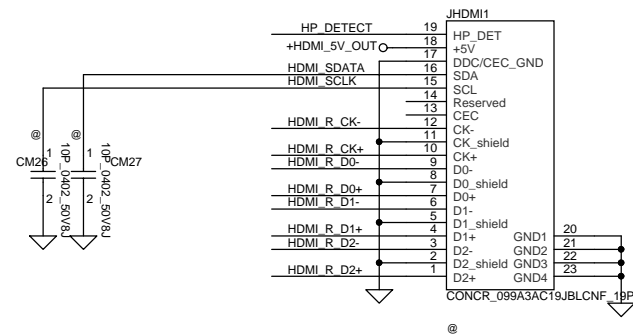
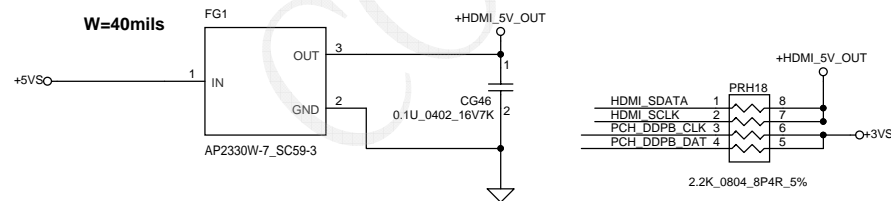


9/11 remove RG58/RG62 for double PU to CPU side

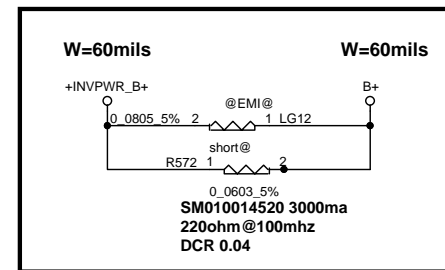
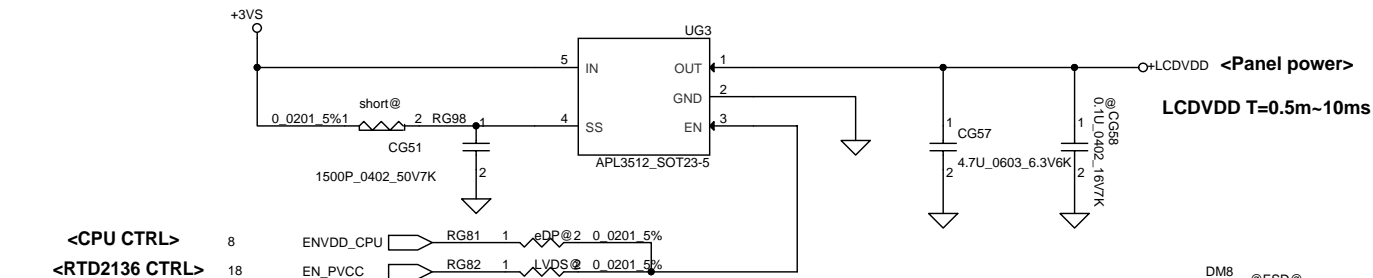


5V PULL UP IN CONNECTER SIDE

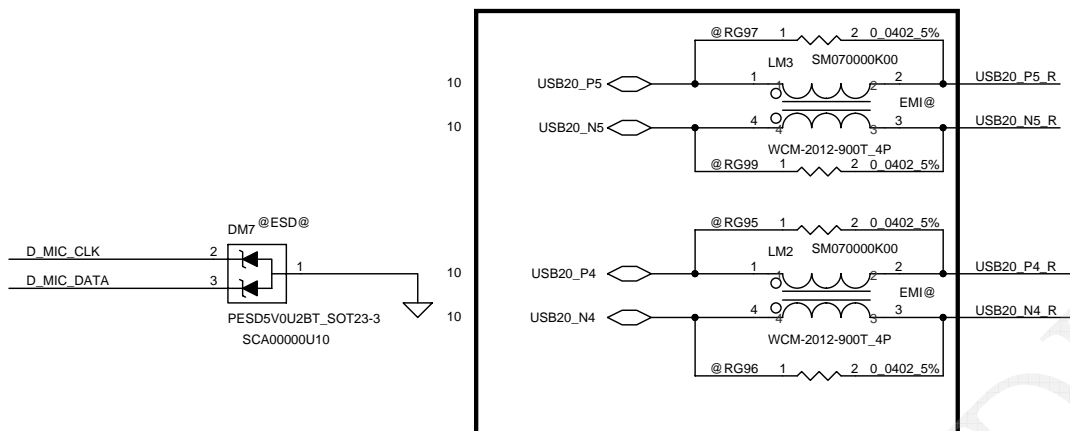
HDMI Conn.



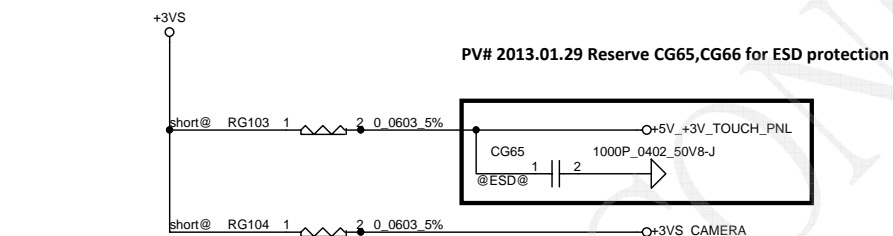
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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	Document Number
				Date	Monday, October 21, 2013
				Sheet	19 of 49
				Rev	A



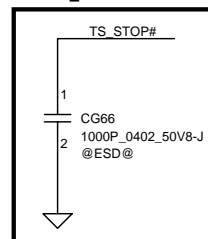
PV# 2013.01.24 Add R572 to support FHD black light current.



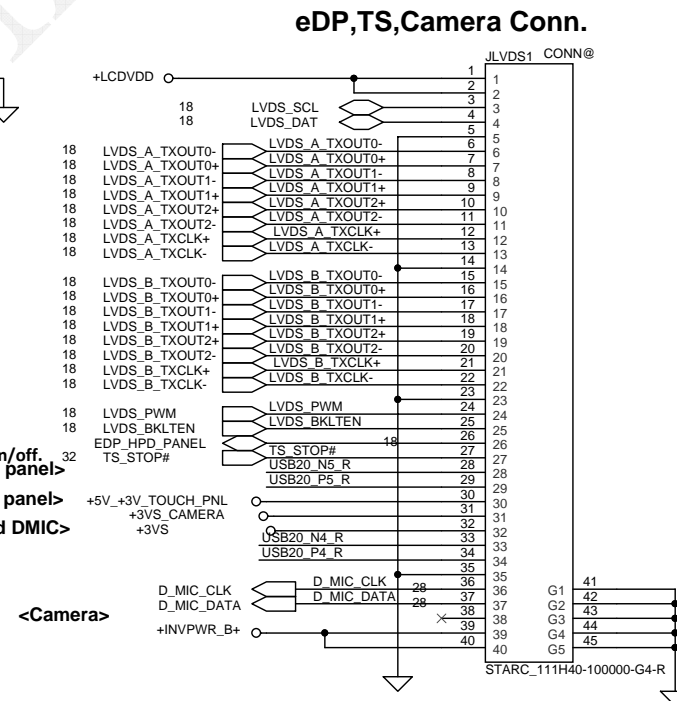
SI# 2012.10.25 Add RG103 short pad for touch panel and RG104 for CAMERA, and reserve UG4, CG53, CG54



SI# 2012.10.25 Add TS_STP# to control touch screen power on/off.

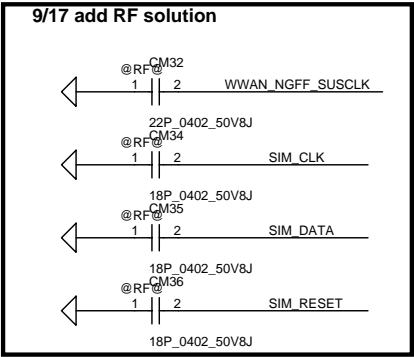


<USB Touch panel>
<Touch panel>
<Camera and DMIC>



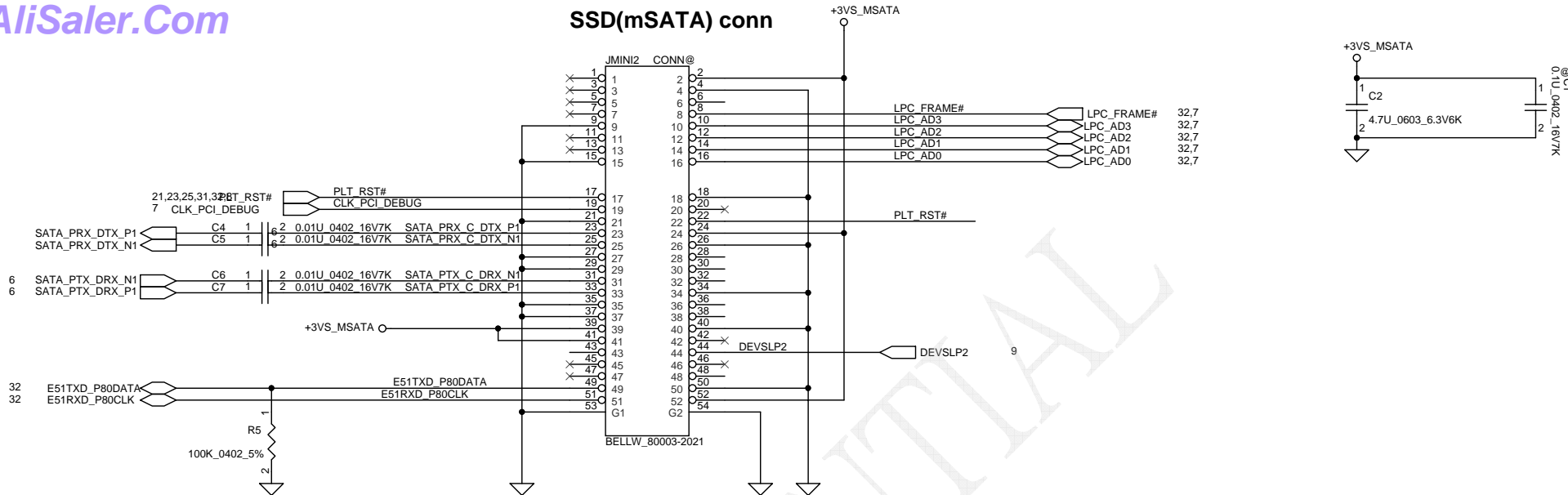
PV# 2013.01.23 Change D_MIC signals to pin36,37

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/03/10	Deciphered Date	2009/06/22	Title	SCHEMATIC, MB A9315
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.				Document Number	4019LR
				Date	Monday, October 21, 2013
				Sheet	20 of 49



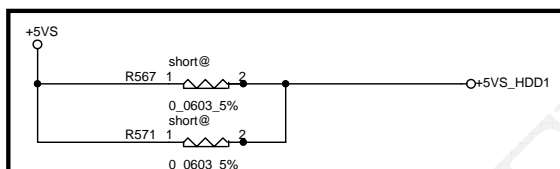
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/30	Deciphered Date	2013/06/30	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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	Rev
				B	A
				4019LR	
Date:		Monday, October 21, 2013		Sheet	21 of 49

SSD(mSATA) conn

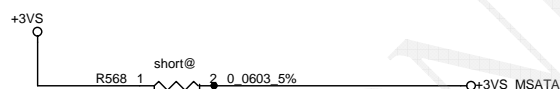


SATA2 (mSATA SSD)

9/5 change Q23 +5VALW/+3VALW to +5VS/+3VS



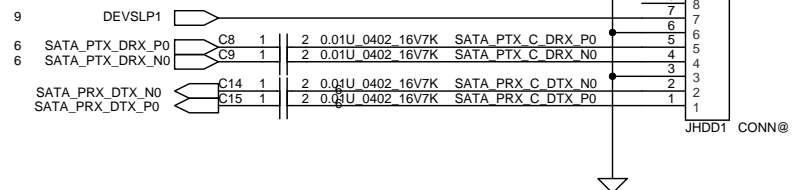
PV# 2013.01.24 Add R572 to support HDD heavy loading current .



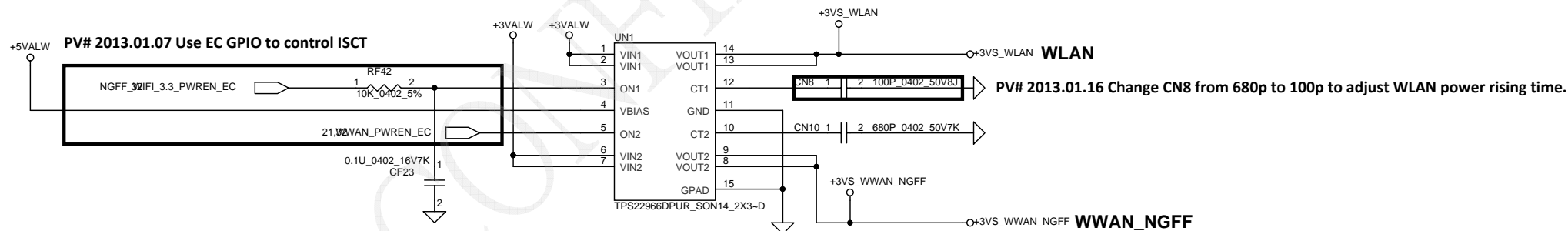
SI# 2012.10.25 Add R567 short pad for HDD and R568 for mSATA, and reserve Q23, C538, C542

SATA 1 (2.5" HDD)

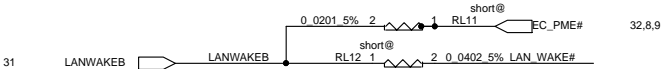
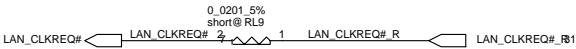
<SATA port 0>



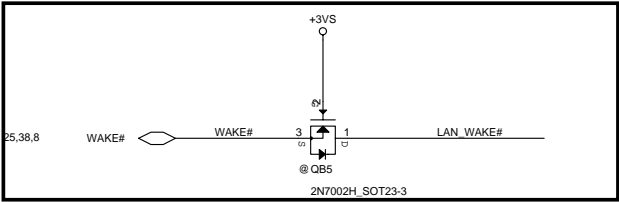
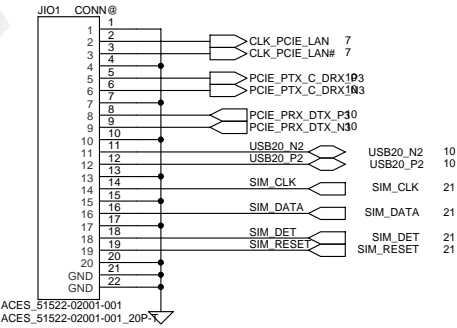
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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.				Document Number	4019LR
				Date:	Monday, October 21, 2013
				Sheet	22 of 49



Security Classification	Compal Secret Data			<i>Compal Electronics, Inc.</i>		
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	<i>SCHEMATIC, MB A9315</i>	
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	Document Number	Rev
					4019LR	A
Date:				Monday, October 21, 2013	Sheet	23 of 49



20 Pin FFC



PV# 2013.01.07 Add QB5 abd RL23 to support OBFF

Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2011/06/29	Deciphered Date	2011/0/03	Title	SCHEMATIC, MB A9315	
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	Document Number	Rev
					4019LR	A
				Date:	Monday, October 21, 2013	Sheet 24 of 49

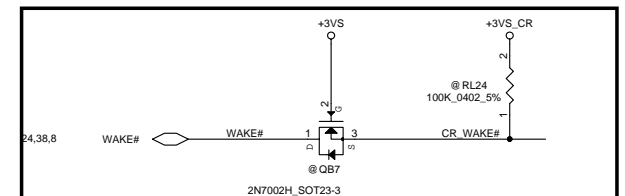
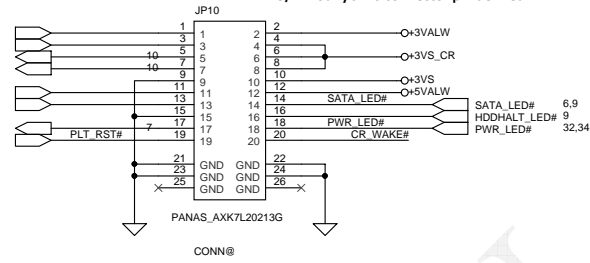
Card reader conn

9/4 Modify JP10 connector pin defined

PCIE_PTX_C_DRX_P2
PCIE_PTX_C_DRX_N2
PCIE_PRX_DTX_P2
PCIE_PRX_DTX_N2

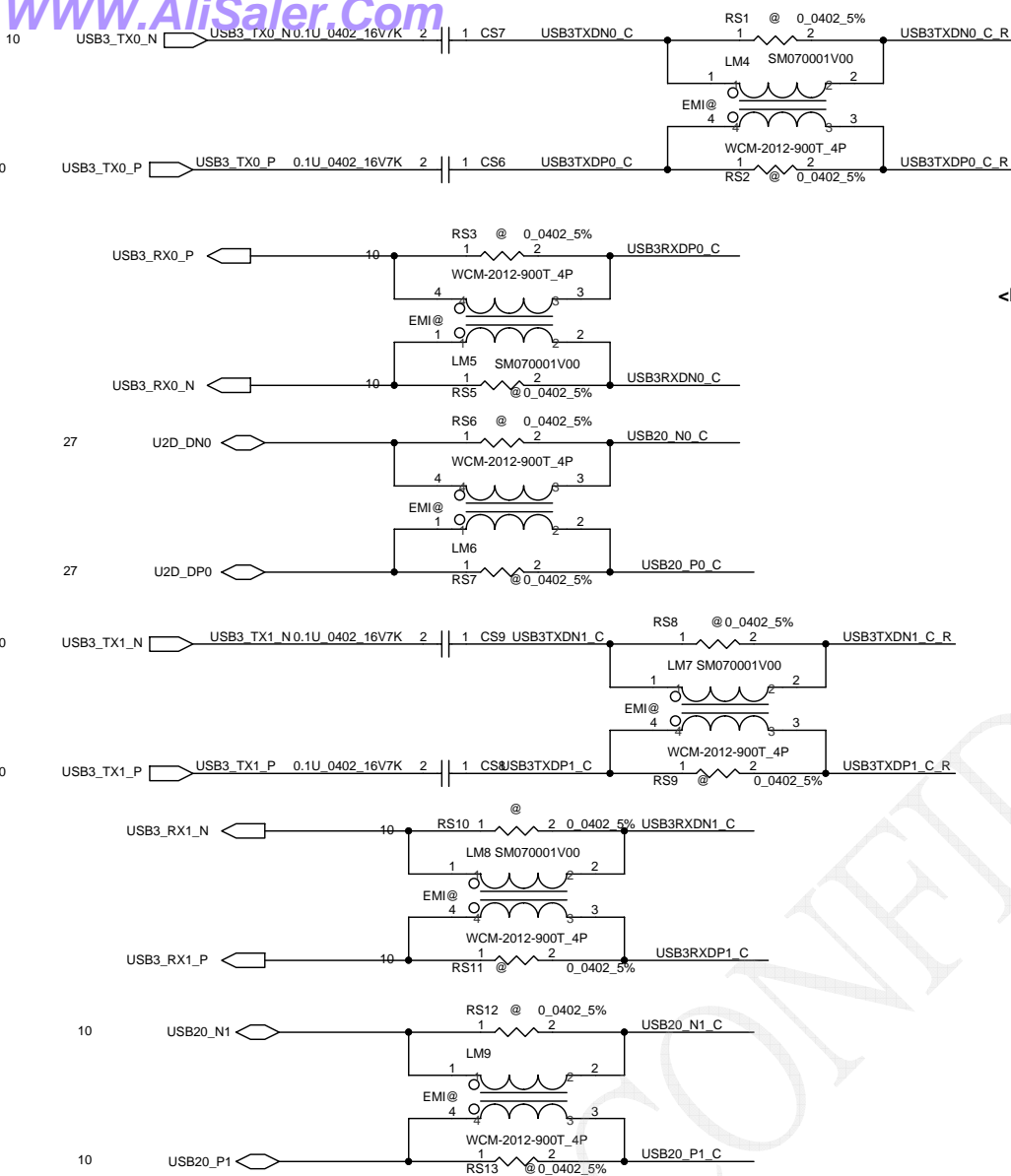
7 CLK_PCIE_CR
7 CLK_PCIE_CR#

CR_CLKREQ#
21,22,23,25,26,27,28



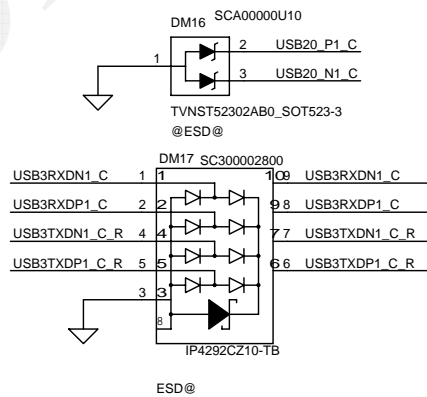
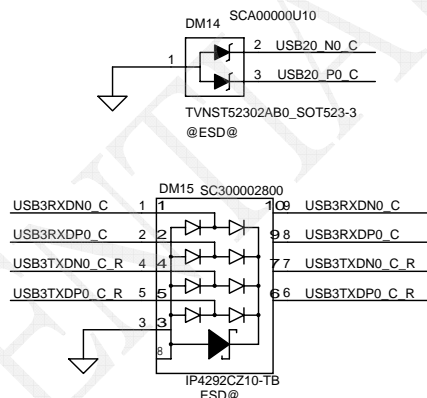
PV# 2013.01.23 Add QB7 abd RL24 to support OBFF

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A9315
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	Document Number
				Customer	4019LR
				Date	Monday, October 21, 2013
				Sheet	25 of 49
				Rev	A



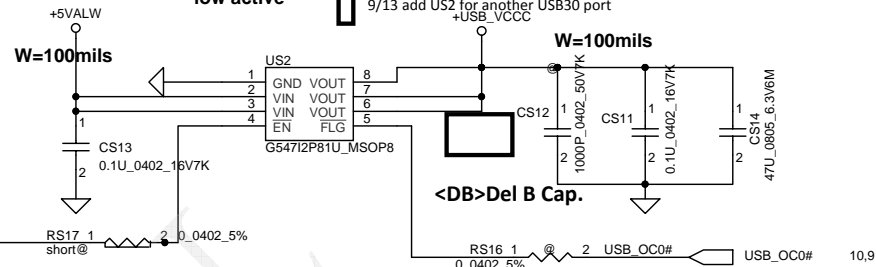
<EC>31,32

USB_ON# RS17 1 short@ 2 0_0402_5%

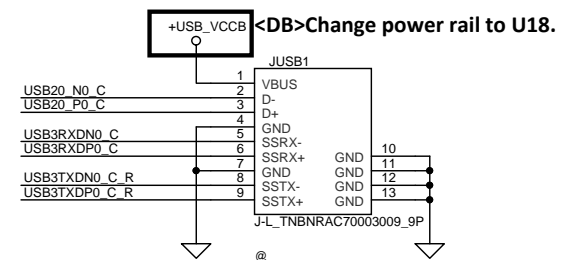


USB3.0 need support 2.5A
change USB PWR SW SA00003TV00
low active

9/13 add US2 for another USB30 port
+USB_VCC

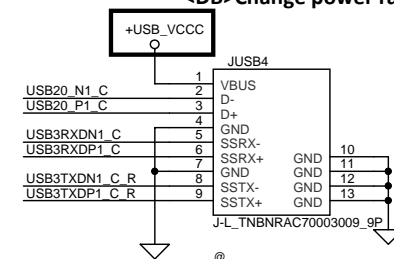


<DB>Update footprint to DC233008M10.
USB2.0/USB3.0 port 1



USB2.0/USB3.0 port 2

<DB>Change power rail to U18.

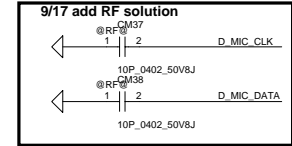


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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.				Document Number	4019LR
				Date	Monday, October 21, 2013
				Sheet	26 of 49

USB_CHARGE_EN short@R550 1 2 0.0402 5% USB_CHARGE_EN_R

Security Classification		Compal Secret Data		Compal Electronics, Inc.			
Issued Date	2011/06/30	Deciphered Date	2013/06/30	Title	SCHEMATIC, MB A9315		
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.				Docuement Number	Rev		
				4019LR		A	
				Date:	Monday, October 21, 2013	Sheet	27

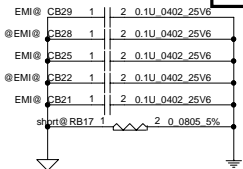
DVDD_IO should match
with HDA Bus level(optional for 3.3V signaling or 1.5V signaling)



☐ change PN(SA000059J10) for 92HD91B2X5NLGXWCX8

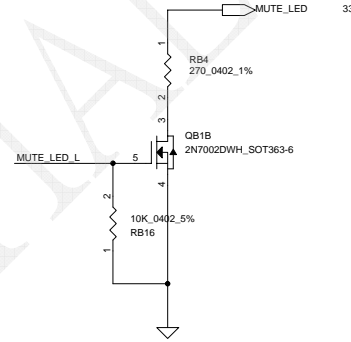
SB Beep

9/18 add reserve CB28, CB29
and stuff CB25,CB22,CB21 0.1uF

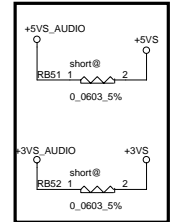


Notes:

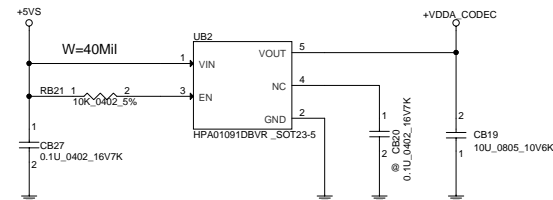
- Keep PVDD supply and speaker traces routed on the DGND plane
- Keep away from AGND and other analog signals



SI# 2012.10.25Add RB51 short pad for Audio 5VS PWR and RB52 for Audio 3VS PWR, and reserve QB5, CB65, CB66



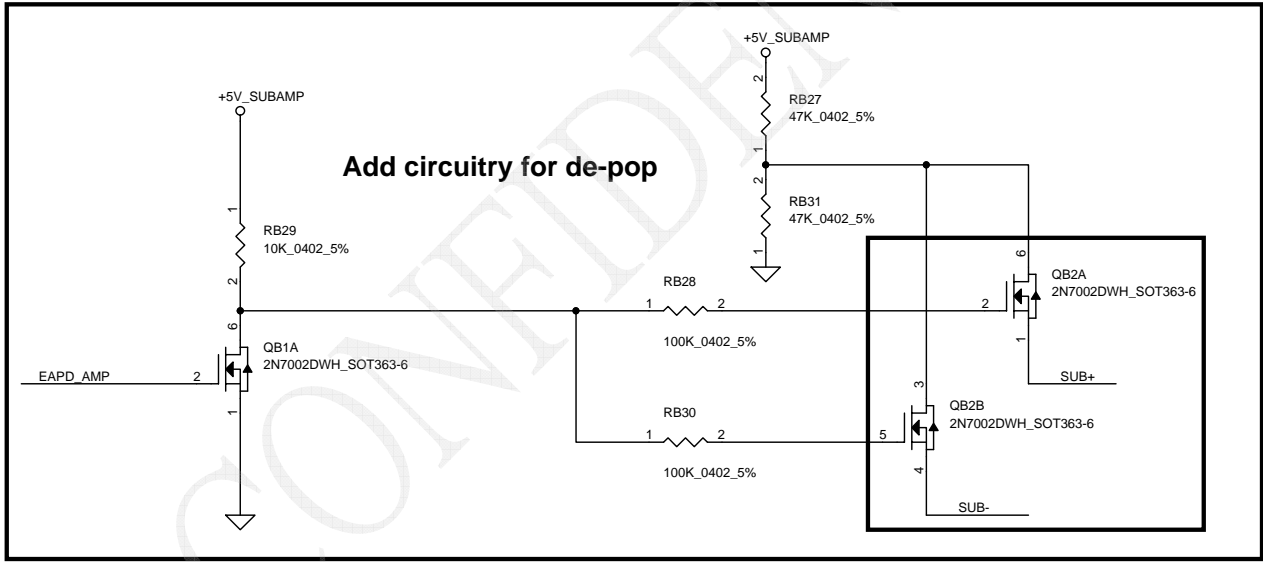
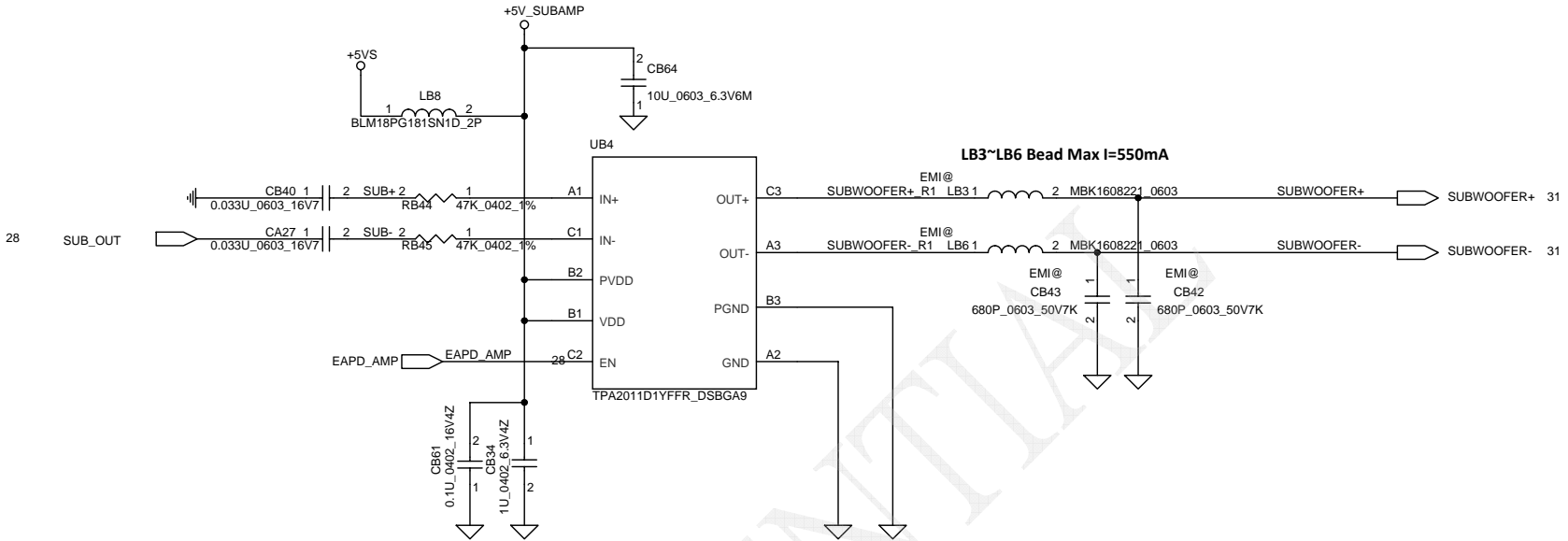
Audio power



Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date		2011/06/29	Deciphered Date		2011/06/29	Title
						SCHEMATIC, MB A9315
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 OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.						Docu- ment Number
						4019LR
Date: Monday, October 21, 2013						Sheet 28 of 49
						Rev A

Subwoofer AMP TPA2011 = HPA01086YFFR

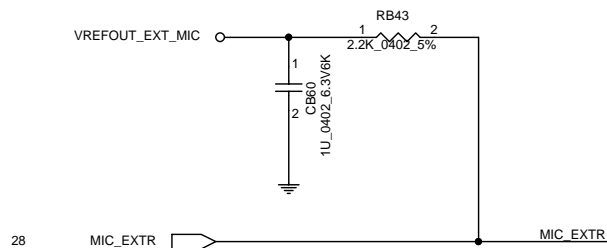
DB> TPA2012 Change to TPA2011



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	
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.				Document Number	Rev
				4019LR	A
				Date: Monday, October 21, 2013	Sheet 29 of 49

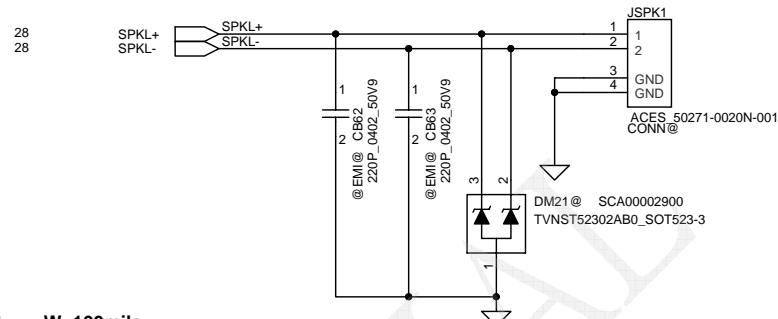
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2009/04/07	Deciphered Date	2012/10/21	Title	SCHEMATIC, MB A9315	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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	Document Number	Rev
				B	4019LR	A
				Date:	Monday, October 21, 2013	Sheet 30 of 49

Ext. Mic

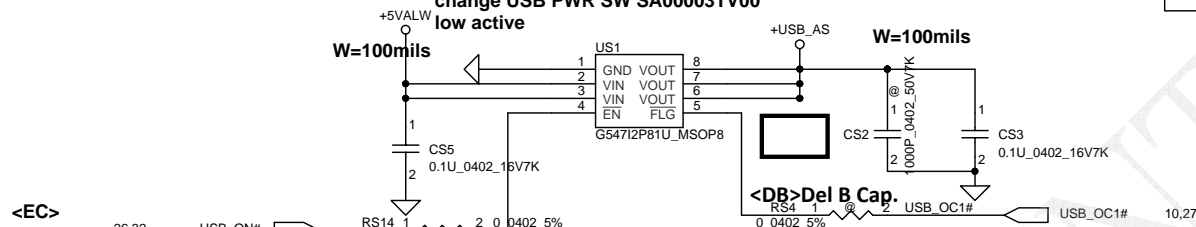


Front Speaker Connector 1

SPK conn

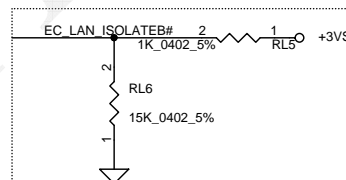
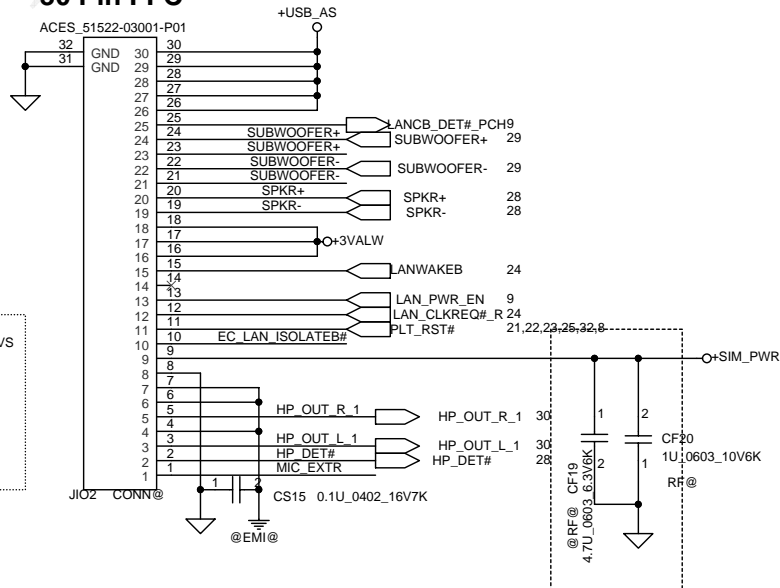


USB3.0 need support 2.5A
change USB PWR SW SA00003TV00
low active



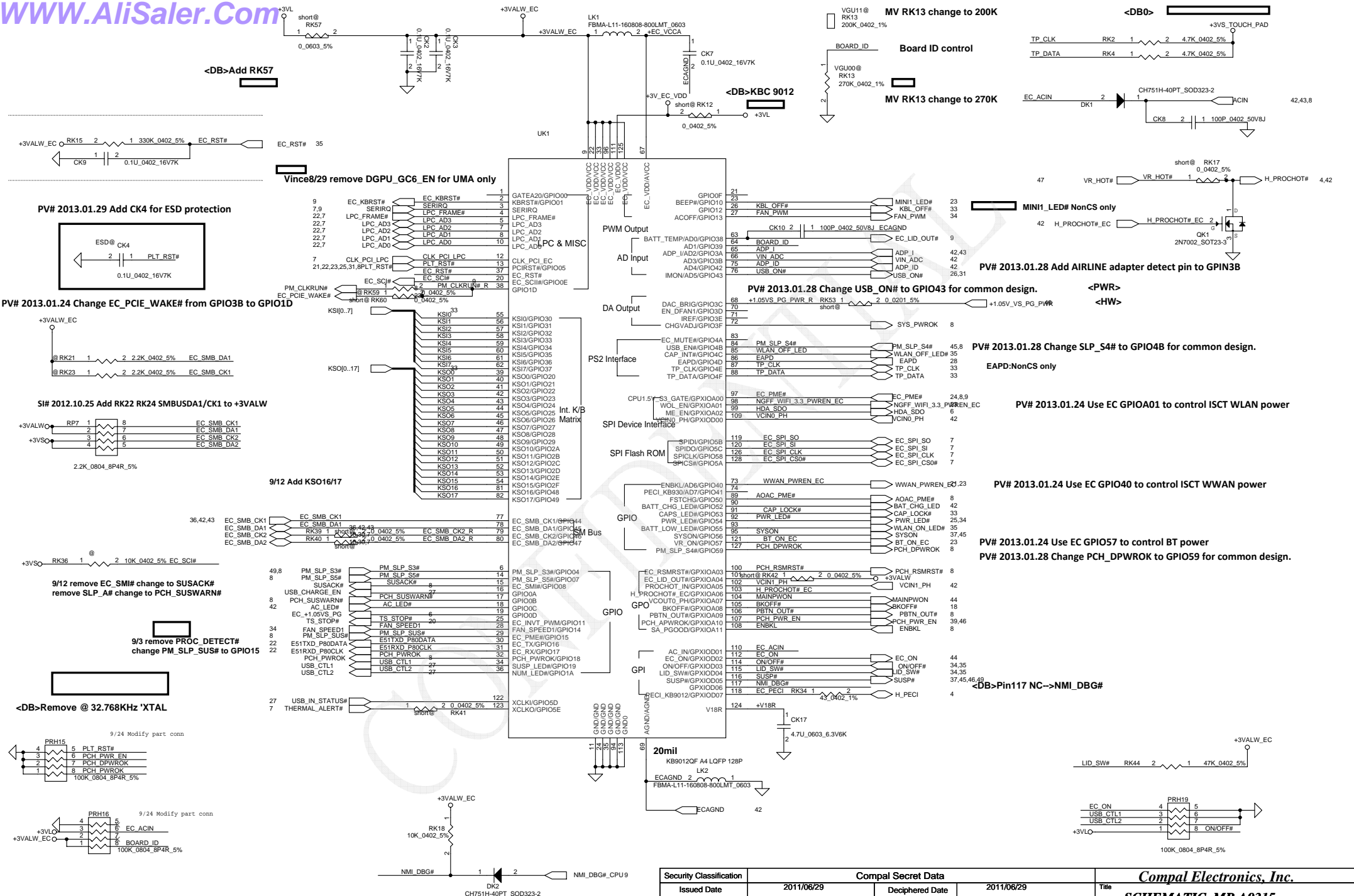
<DB>Change power rail to US1.

30 Pin FFC

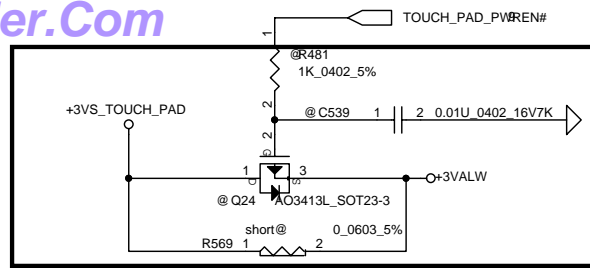


10/30 RF add, near JIO1 connector.

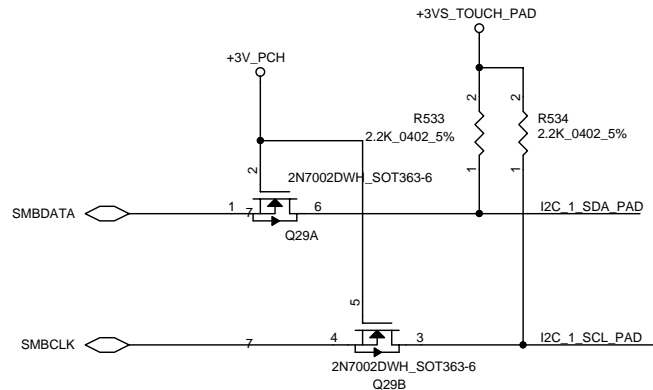
Security Classification	Compal Secret Data			Title	
Issued Date	2006/09/25	Deciphered Date	2006/09/25	Compal Electronics, Inc.	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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.				Document Number	Rev A
				4019LR	
				Date: Monday, October 21, 2013	Sheet 31 of 49



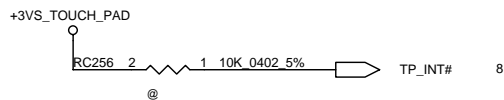
Security Classification		Compal Secret Data		<i>Compal Electronics, Inc.</i> SCHEMATIC, MB A9315	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. 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	Rev
				Custom	A
				Date:	Monday, October 21, 2013
				Sheet	32 of 49



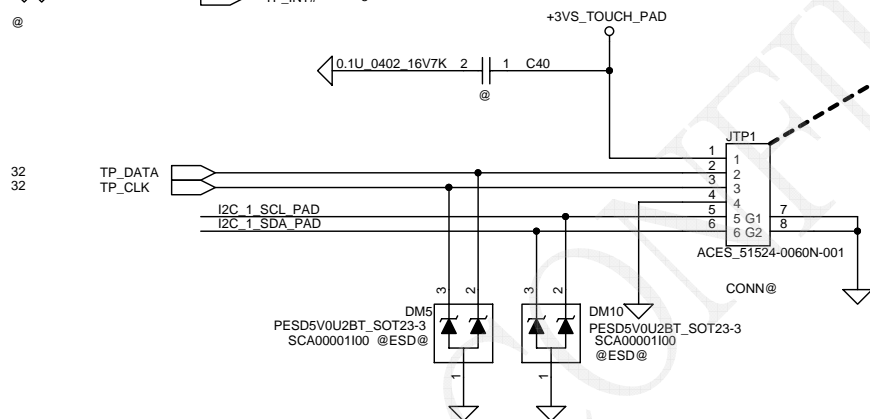
SI# 2012.10.25 Add R569 short pad for Touch PAD PWR, and reserve Q24, R569, R481



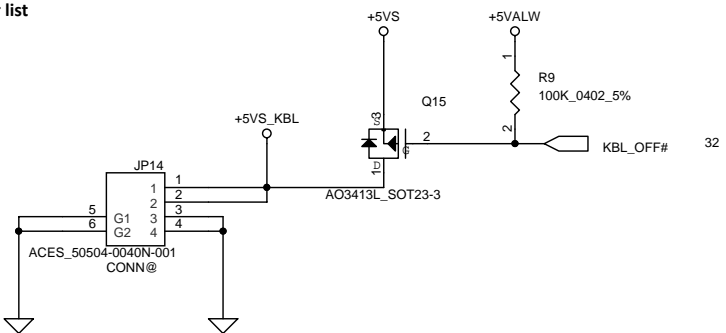
Touch pad conn



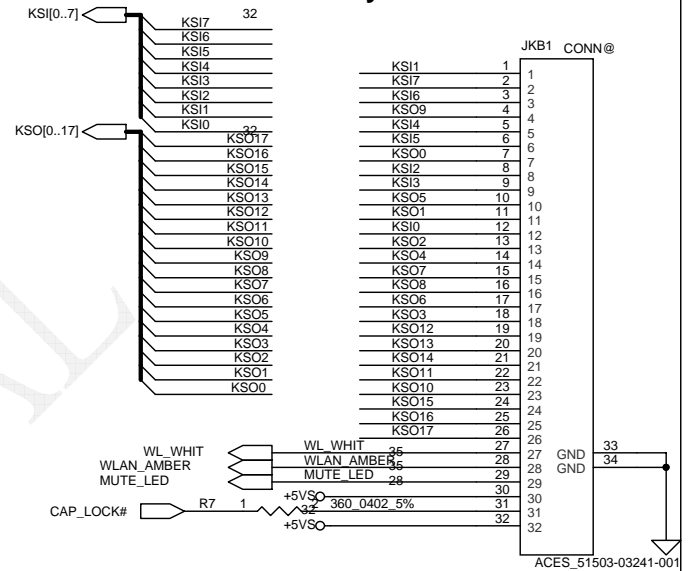
PV# 2012.01.08 Change TP connector to 6 pin and pin define



Waiting for connector list

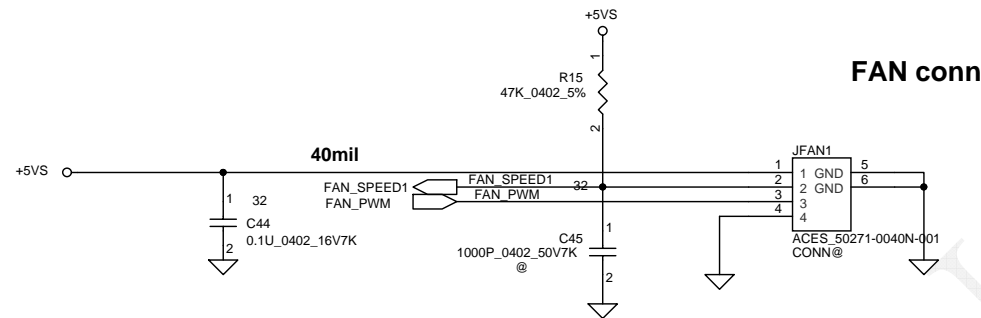


Keyboard conn

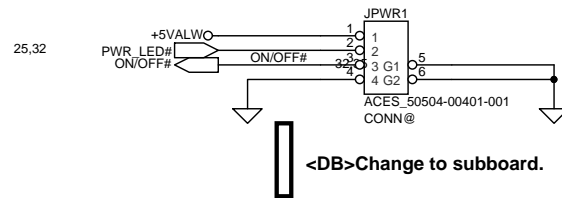


Keyboard backlight Conn

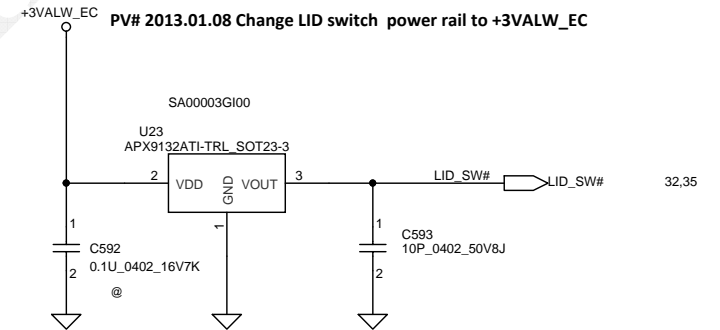
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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.				Document Number	4019LR
				Date:	Monday, October 21, 2013
				Sheet	33 of 49



Power Button Connector



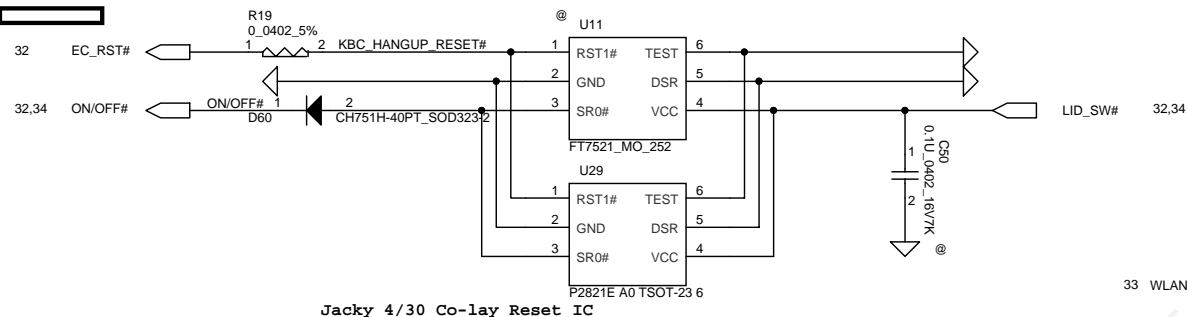
Lid Switch (Hall Effect Sensor)



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2009/04/07	Deciphered Date	2012/10/21	Title	SCHEMATIC, MB A9315
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.				Document Number	4019LR
				Date:	Monday, October 21, 2013
				Sheet	34 of 49

<DB> RST1# connect to EN_3V_5V

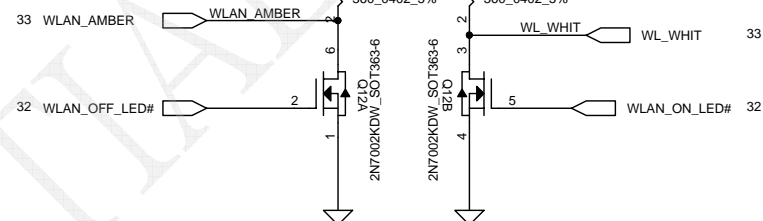
Reset IC



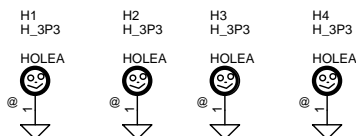
Jacky 4/30 Co-lay Reset IC

Amber

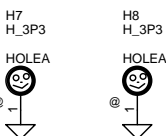
White



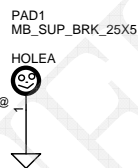
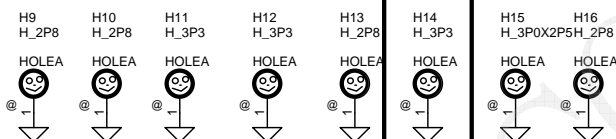
CPU



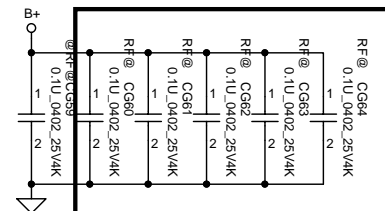
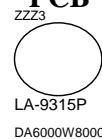
Card reader



SI# 2012.10.31 Add H14 for WLAN stand off



PCB



PV# 2013.01.30 Add CG60~CG64 for RF.

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2006/09/25	Deciphered Date	2006/09/25	Title	SCHEMATIC, MB A9315
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.				Document Number	4019LR
				Date:	Monday, October 21, 2013
				Sheet	35 of 49

liSaler.Com

ACCELEROMETER

Sensor hub -->G-sensor

Check ACCEL_INT# with BIOS

Must be placed in the center of the system.

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/30	Deciphered Date	2013/06/30	Title	
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.				SCHEMATIC, MB A9315	
Date: Monday, October 21, 2013				Sheet 36 of 49	Rev A

liSaler.Com

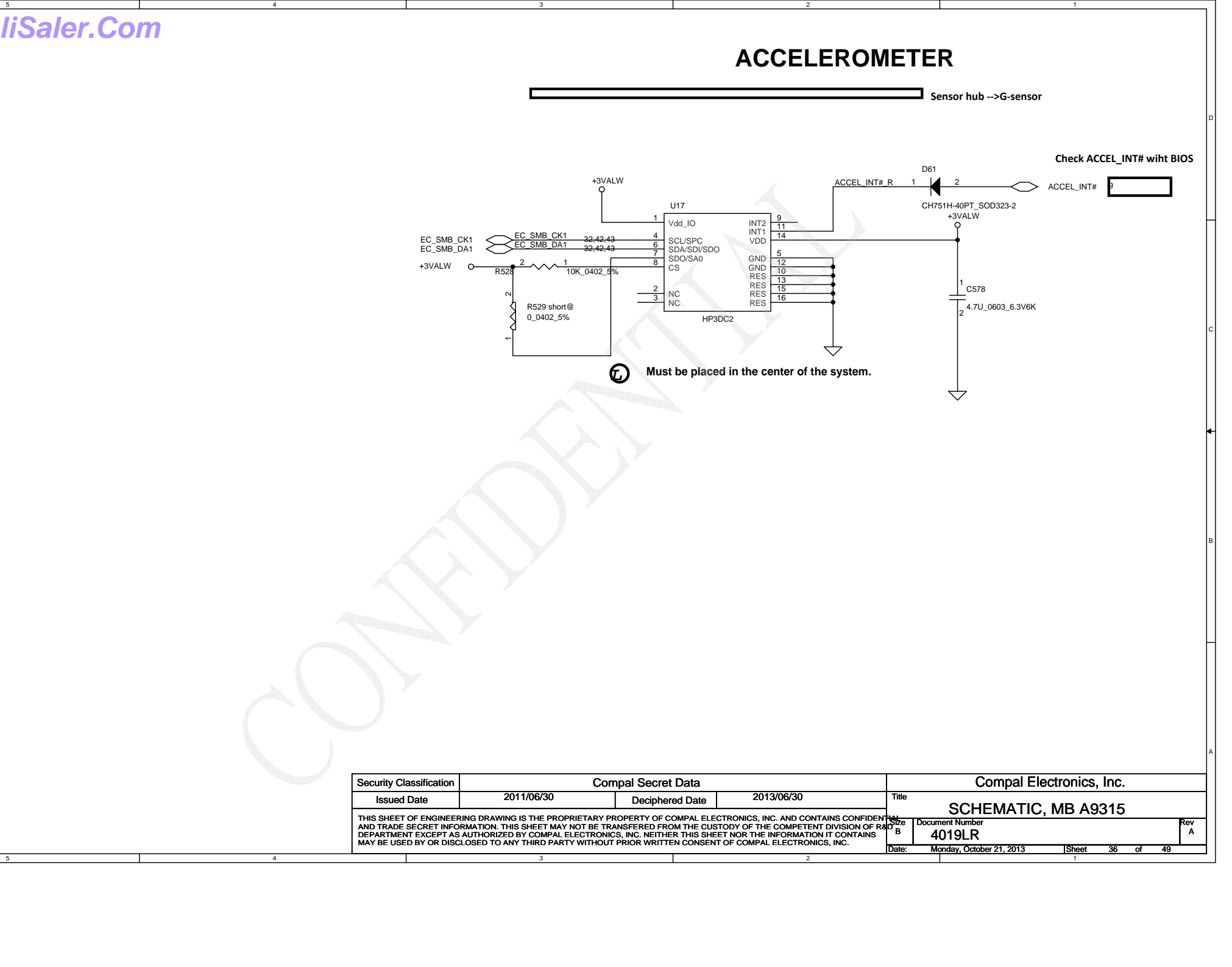
ACCELEROMETER

Sensor hub -->G-sensor

Check ACCEL_INT# with BIOS

Must be placed in the center of the system.

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/30	Deciphered Date	2013/06/30	Title	
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.				SCHEMATIC, MB A9315	
Date: Monday, October 21, 2013				Sheet 36 of 49	Rev A



liSaler.Com

ACCELEROMETER

Sensor hub -->G-sensor

Check ACCEL_INT# with BIOS

Must be placed in the center of the system.

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/30	Deciphered Date	2013/06/30	Title	
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.				SCHEMATIC, MB A9315	
Date: Monday, October 21, 2013				Sheet 36 of 49	Rev A

liSaler.Com

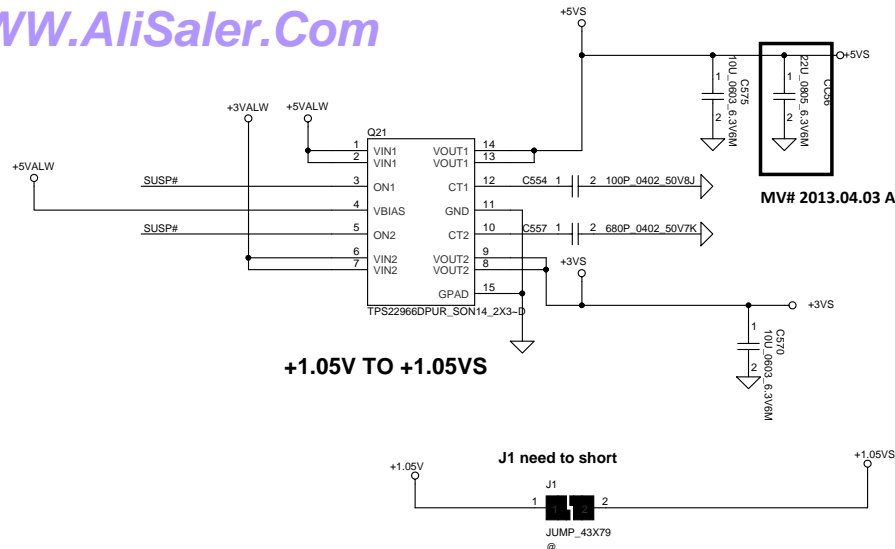
ACCELEROMETER

Sensor hub -->G-sensor

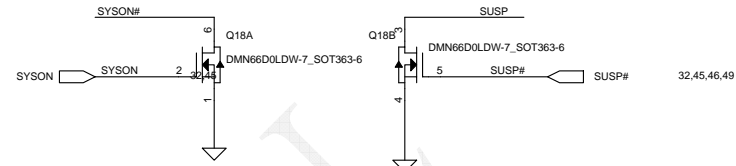
Check ACCEL_INT# with BIOS

Must be placed in the center of the system.

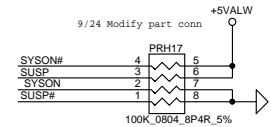
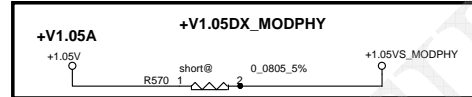
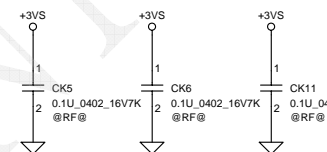
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/30	Deciphered Date	2013/06/30	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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.				Document Number	Rev A
Date: Monday, October 21, 2013				Sheet	36 of 49



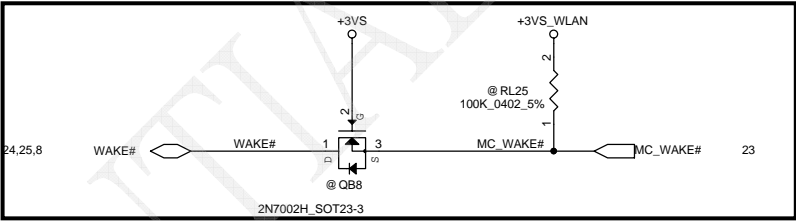
MV# 2013.04.03 Add 22UF for RF suggestion



PV# 2013.02.07 Reserve 0.1u x 3 for RF

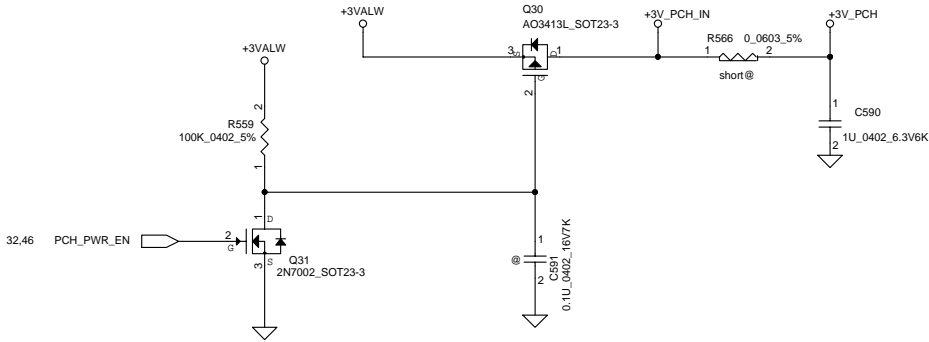


Security Classification		Compal Secret Data				Compal Electronics, Inc.				
Issued Date		2011/06/29		Deciphered Date		2011/06/29		Title		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT 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.								SCHEMATIC, MB A9315		
								Size	Document Number	Rev
								Custom	4019LR	A
								Date:	Monday, October 21, 2013	Sheet



PV# 2013.01.23 Add QB8 abd RL25 to support OBFF

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date		Deciphered Date		Title	SCHEMATIC, MB A9315
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 TRANSFERED 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.				Document Number	Rev
				4019LR	A
Date:		Monday, October 21, 2013		Sheet	38 of 49



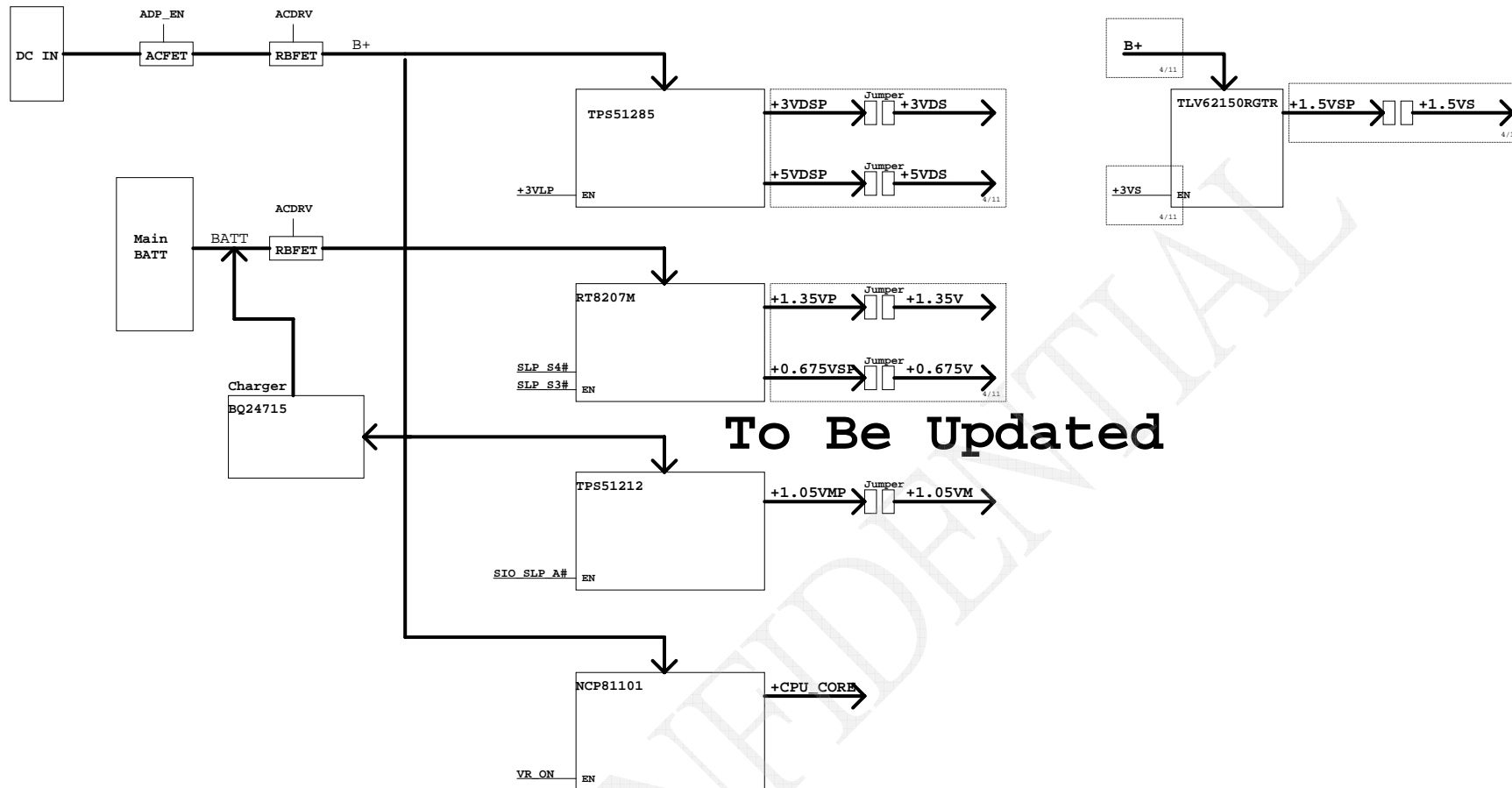
<DB>NonCS no +1.8VS and low switch-->PMOS

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/06/29	Deciphered Date	2011/06/29	Title	SCHEMATIC, MB A9315
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 4019LR
				Date: Monday, October 21, 2013	Sheet 39 of 49
A		B		E	

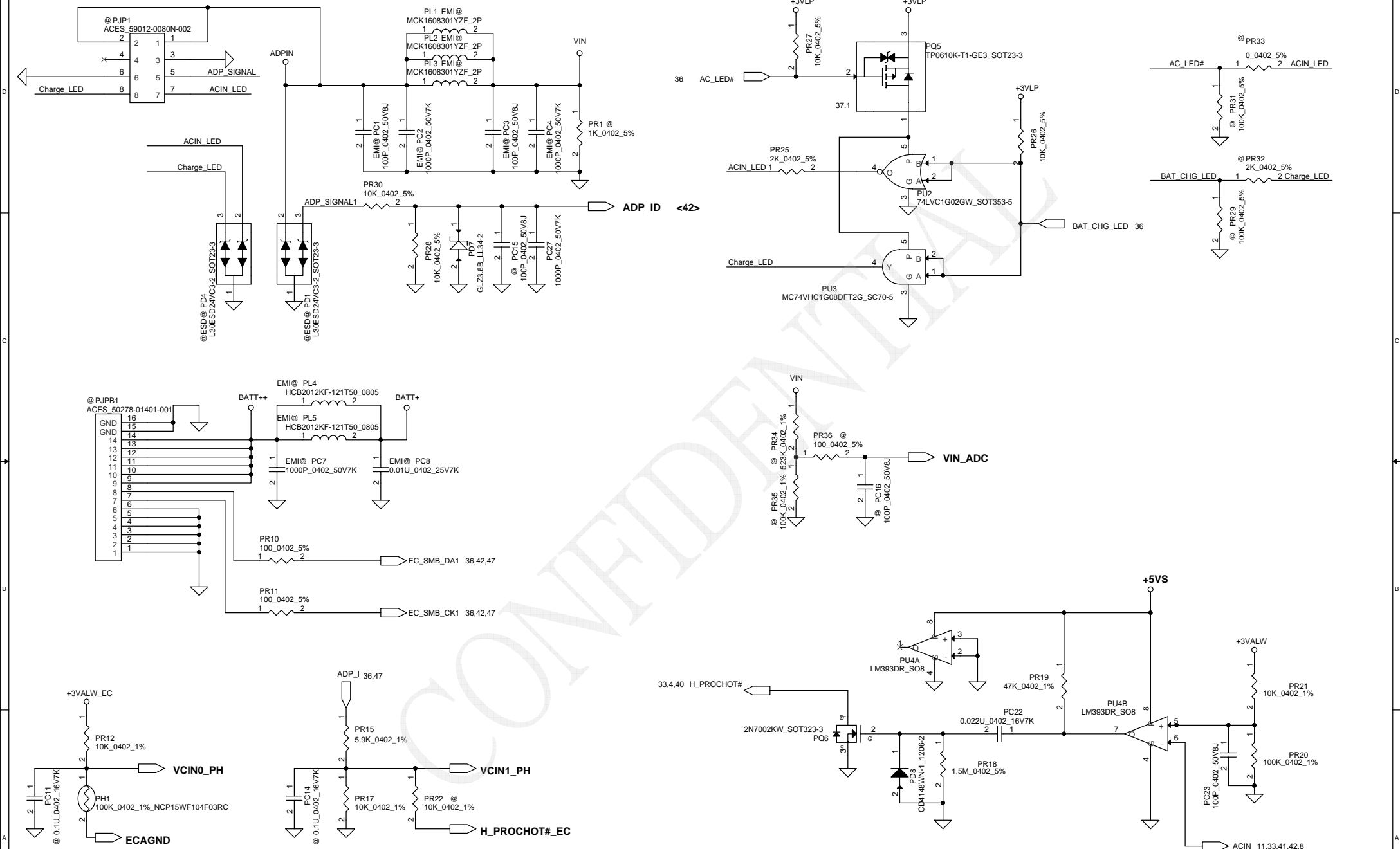
Headphone and Mic conn

CONFIDENTIAL

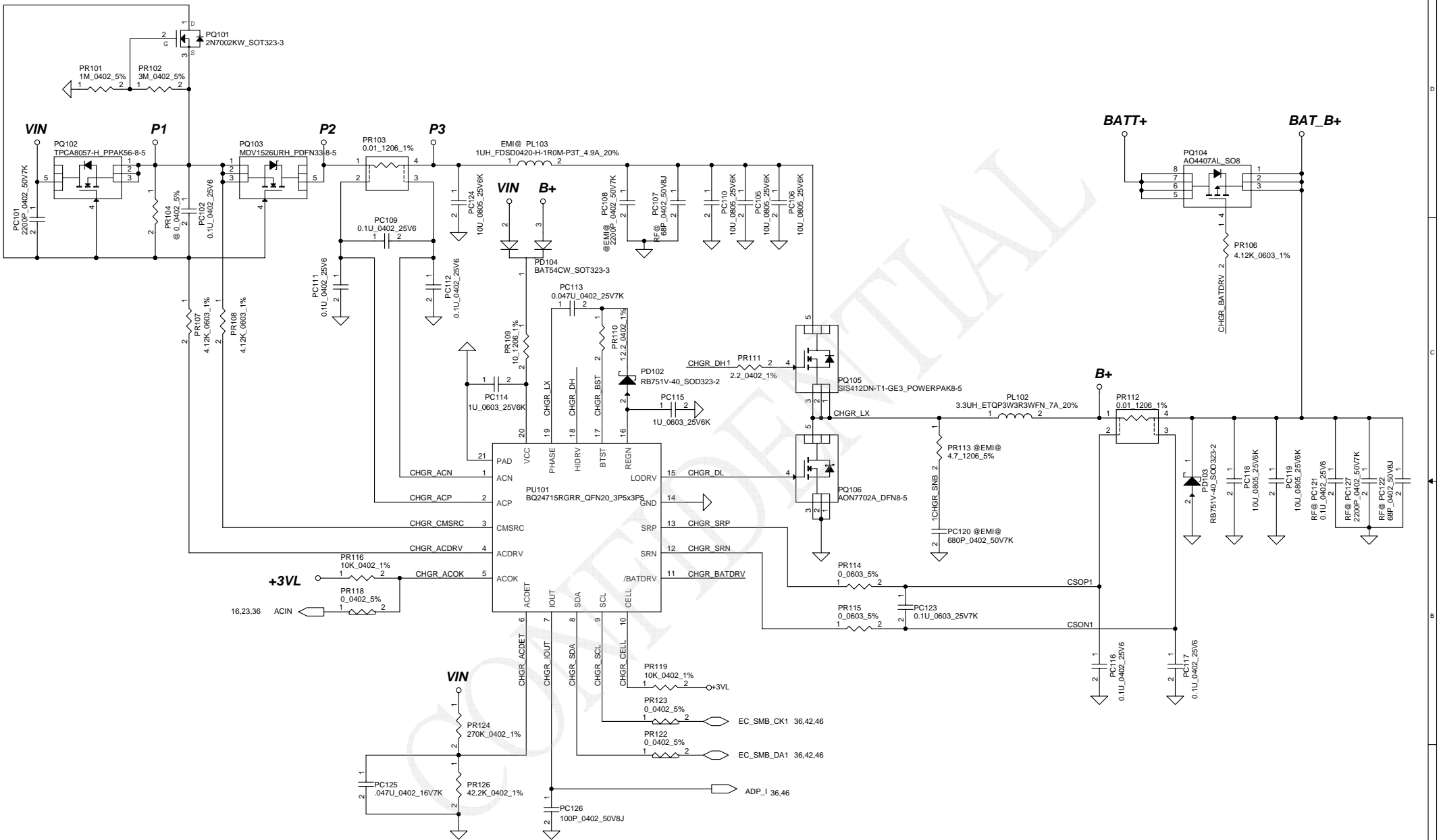
Security Classification	Compal Secret Data			Title		
Issued Date	2011/06/29	Deciphered Date	2011/06/29	SCHEMATIC, MB A9315		
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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	Document Number	Rev
				Custom	4019LR	A
				Date:	Monday, October 21, 2013	Sheet 40 of 49



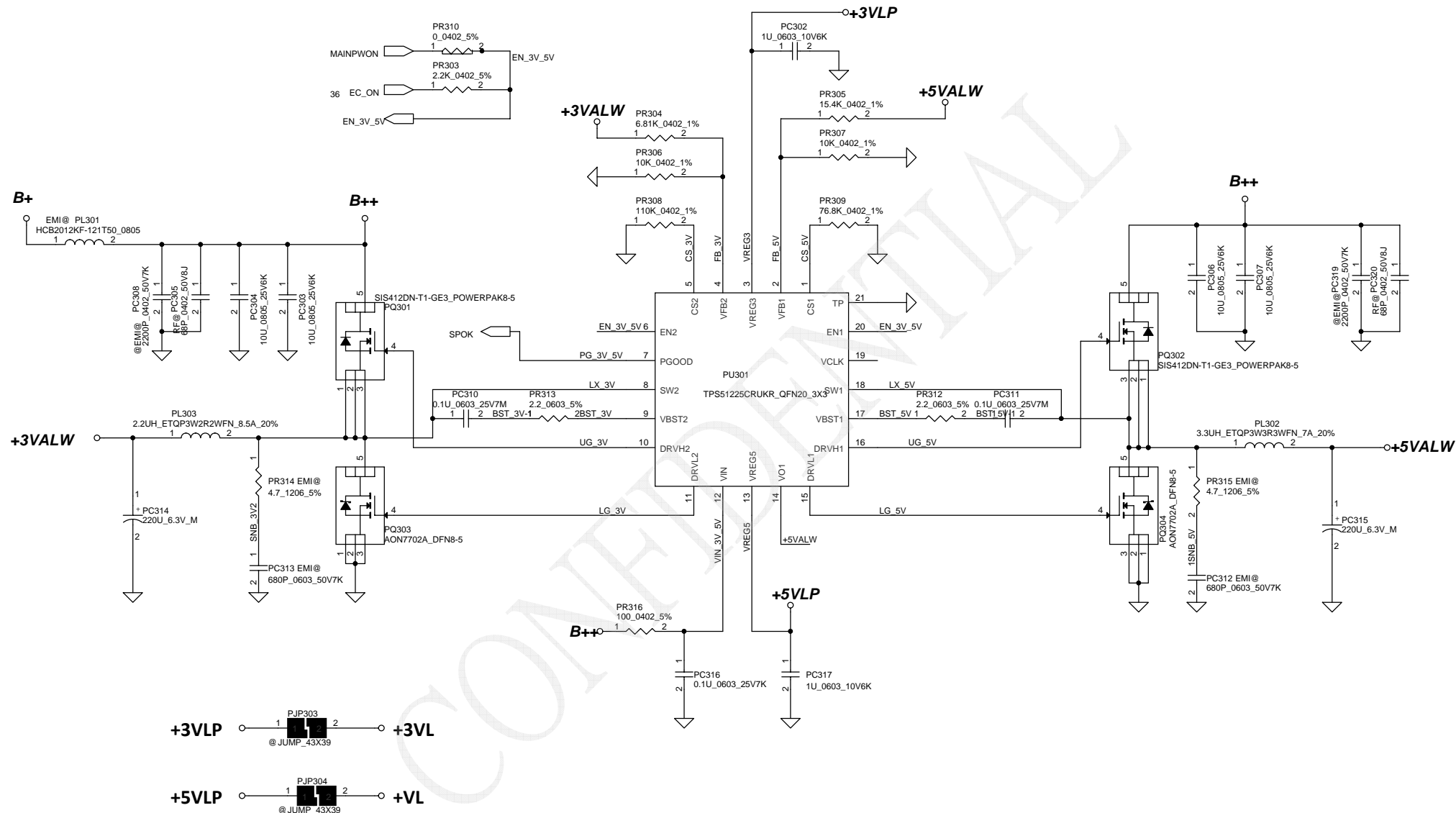
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/04/03	Deciphered Date	2014/12/31	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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.				Document Number	4019LR
				Date:	Monday, October 21, 2013
				Sheet	41 of 49



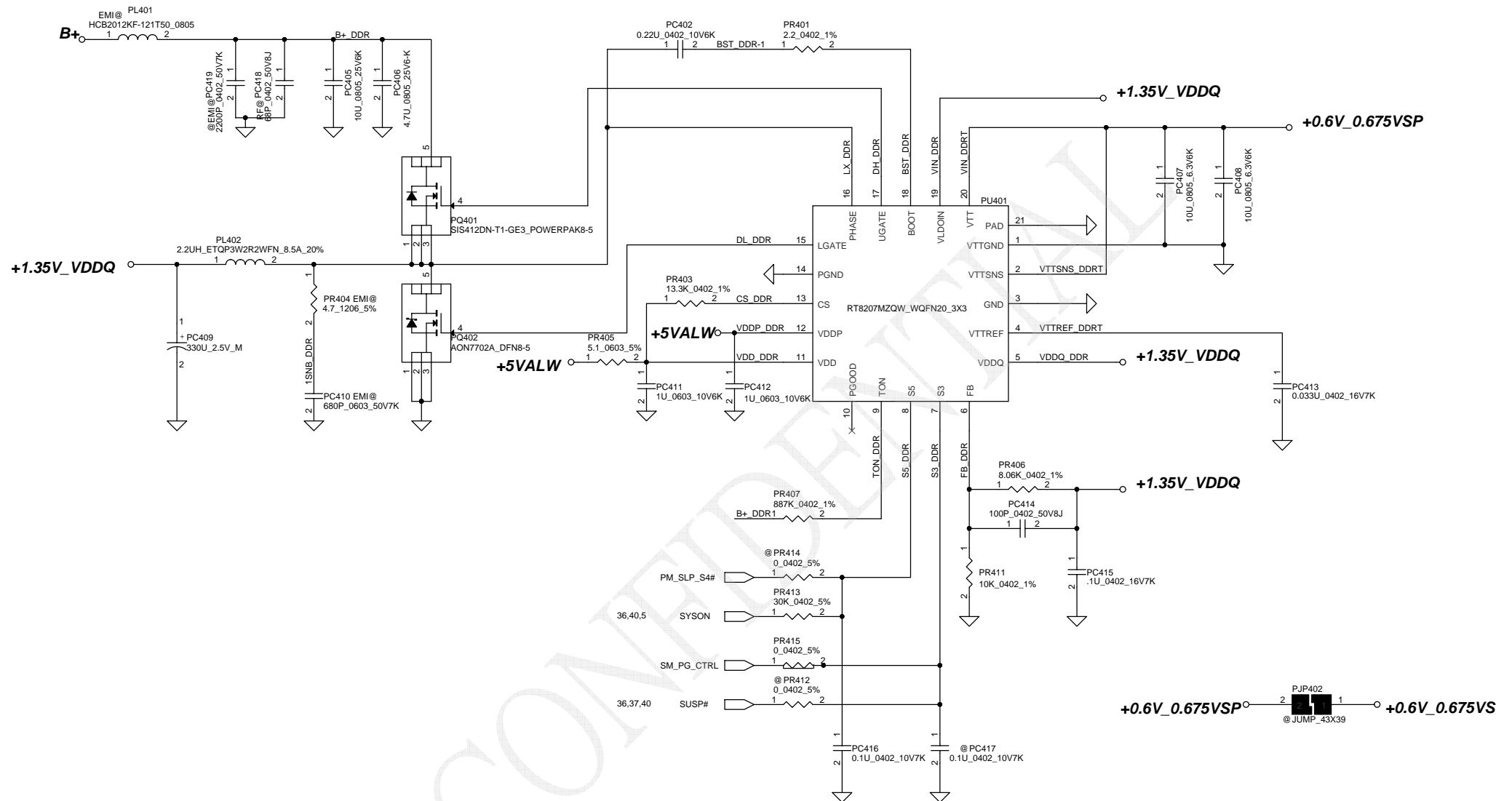
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/04/03	Deciphered Date	2014/12/31	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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.				Document Number	4019LR
				Date:	Monday, October 21, 2013
				Sheet	42 of 49



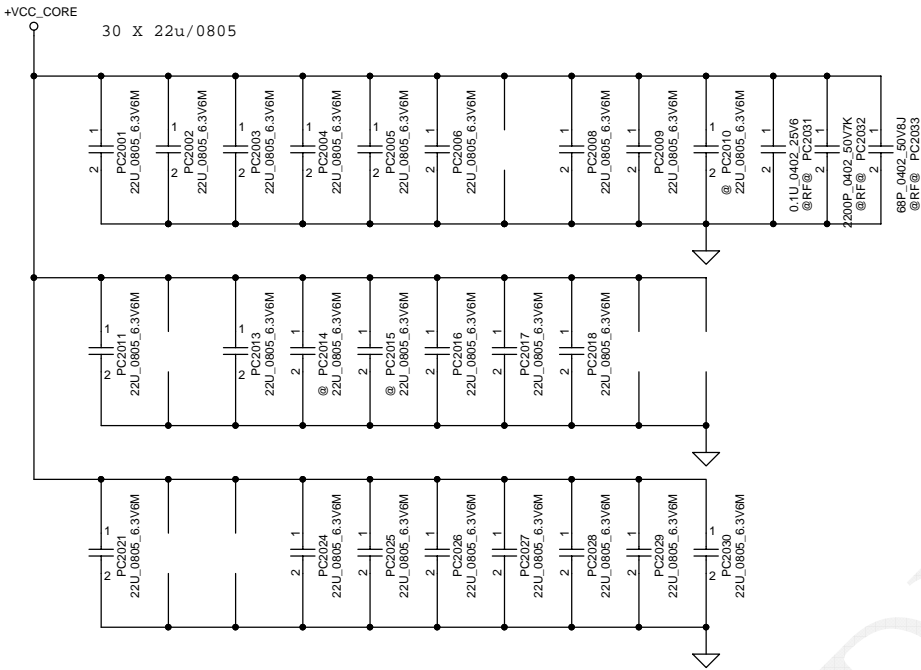
Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2012/04/03	Deciphered Date	2014/12/31	Title	SCHEMATIC, MB A9315
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET 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.					Document Number 4019LR
Date: Monday, October 21, 2013					Rev A
Sheet 43 of 49					



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/04/03	Deciphered Date	2014/12/31	Title	SCHEMATIC, MB A9315
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.				Document Number	4019LR
				Date	Monday, October 21, 2013
				Sheet	44 of 49



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/04/03	Deciphered Date	2014/12/31	Title	SCHEMATIC, MB A9315
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.				Document Number	4019LR
				Date	Monday, October 21, 2013
				Sheet	45 of 49



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/04/03	Deciphered Date	2014/12/31	Title	SCHEMATIC, MB A9315
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.				Document Number	4019LR
				Date	Monday, October 21, 2013
				Sheet	48 of 49

