

Compal Confidential

Model Name : Bellemere_BE
Compal Project Name : B5W1E
File Name : LA-D121P

Compal Confidential

B5W1E Schematics Document

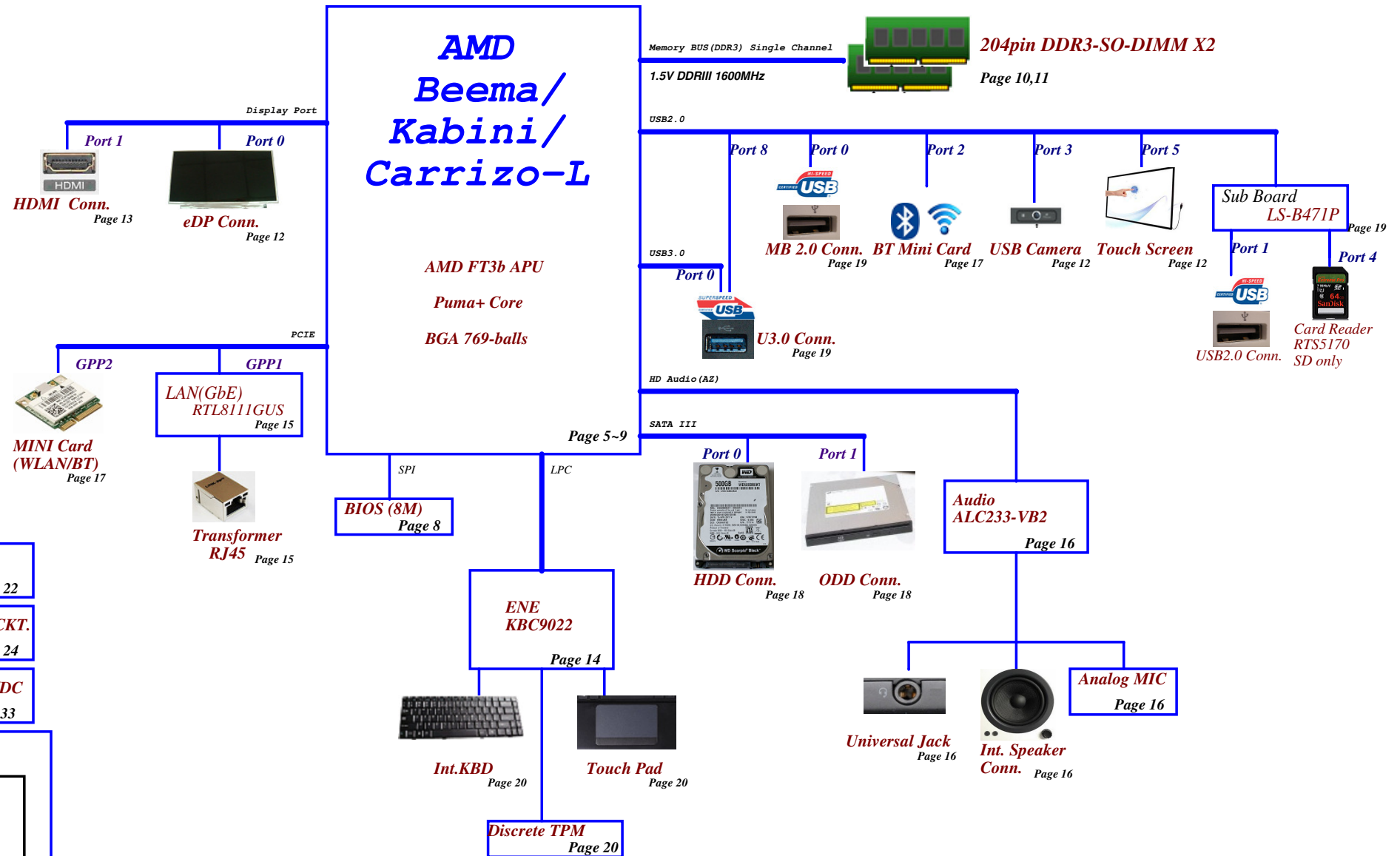
AMD "Beema" Platform
AMD 15W APU With Puma+ Core

LA-D121P REV: 1.0
2015-04-16

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2014/03/27	Deciphered Date	2016/03/27	Title	COVER PAGE
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 THE 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
				B5W1E_LA-D121P	1.0
				Date	Sheet
				Tuesday, April 21, 2015	1 of 33

Compal Confidential

Model Name : B5W1E
B5W1K
B5W1R

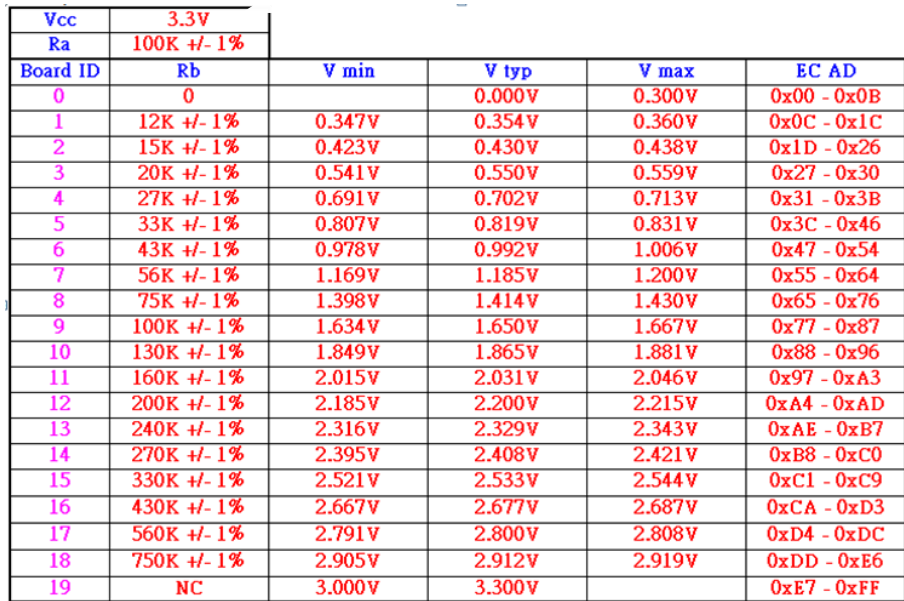


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2014/03/27	Deciphered Date	2016/03/27	Title	BLOCK DIAGRAMS
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF FACTORY 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	B5W1E_LA-D121P
				Date	Thursday, April 16, 2015
				Sheet	2 of 33
				Rev	1.0

[illegible]

EC SMBus Port1 (+3VALW)			EC SMBus Port2 (+3VS)		
Device	Address	HEX	Device	Address	HEX
Smart Battery	0001 011X b	16H	SB-TSI (APU)	1001 100X b	98H

APU SMBus Port0 (+3VS)			APU SMBus Port1(+3VALW)		
Device	Address	HEX	Device	Address	HEX
DDR DIMM1	1010 000Xb	A0H			
DDR DIMM2	1010 001Xb	A2H			



BOM Structure	BTO Item
@	Unpop
CONN@	Connector part control by ME
KBN@	Stuff when use Kabini APU
BMA@	Stuff when use Beema APU
CZL@	Stuff when use CZ-L APU
233@	Use for Audio Codec ALC233-VB2
255@	Use for Audio Codec ALC255
283@	Use for Audio Codec ALC283
EMC@	EMI pop component
@EMC@	EMI unpop component
SP@	Short pad for clear CMOS
HDT@	HDT+ for test phase, MP remove
RS@	R-short
45@	HDMI royalty
9012@	Use KBC9012
9022@	Use KBC9022
BL@	Keyboard backlight
TPM@	Use discrete TPM module
ECI2C@	Use EC I2C T/P
TPUSB@	Use USB to I2C IC for T/P
BYOC@	Stuff when support BYOC
NBYOC@	Stuff when non-support BYOC
JP@	Jump
TP@	Test point

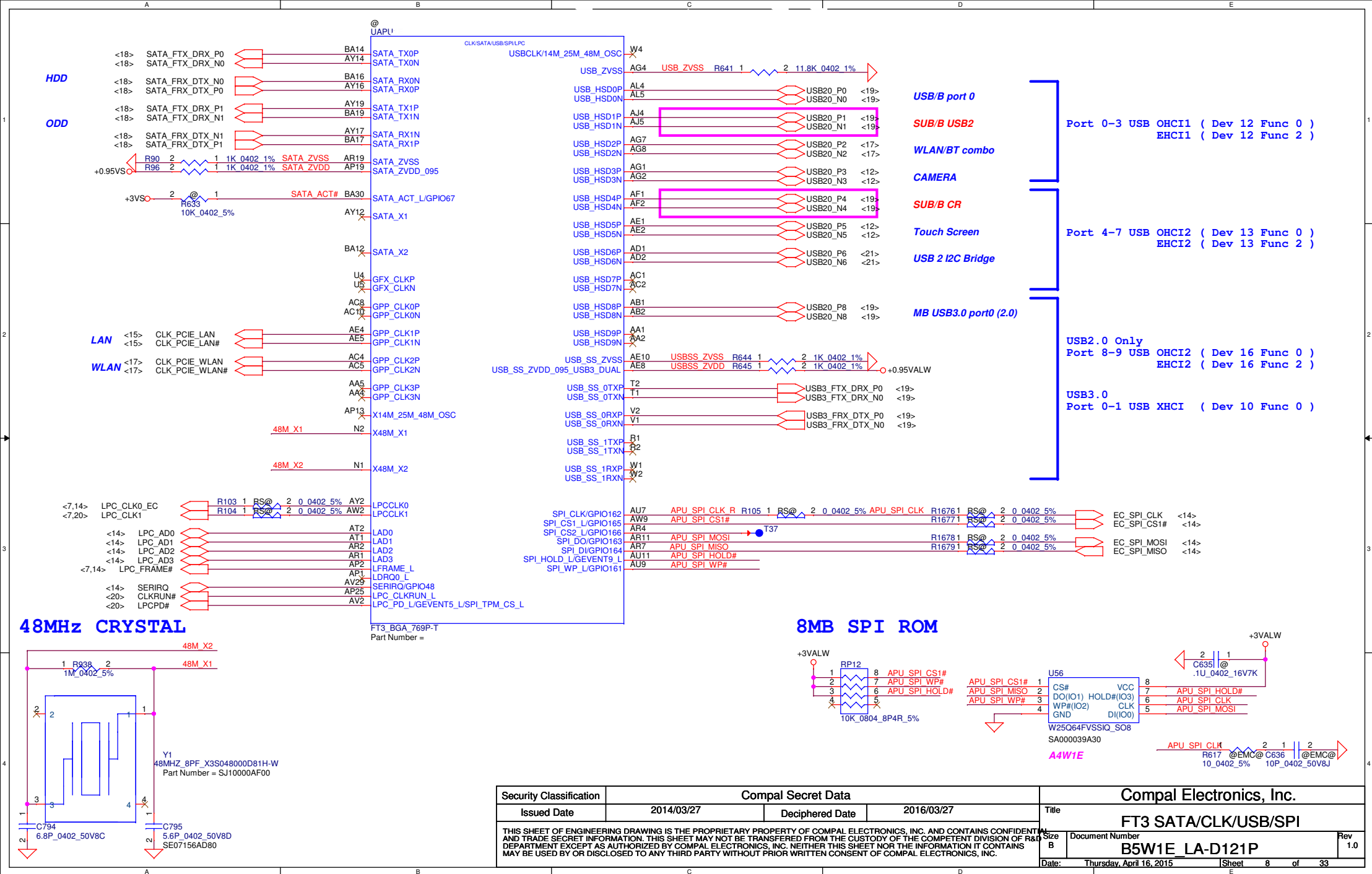
Board ID	PCB Revision
12	EVT
13	DVT
14*	PVT
15	Pre-MP
16	
17	
18	
19	

<i>SIGNAL</i>	<i>SLP_S3#</i>	<i>SLP_S5#</i>	<i>+VALW</i>	<i>+V</i>	<i>+VS</i>	<i>Clock</i>
<i>Full ON</i>	<i>HIGH</i>	<i>HIGH</i>	<i>ON</i>	<i>ON</i>	<i>ON</i>	<i>ON</i>
<i>S1(Power On Suspend)</i>	<i>HIGH</i>	<i>HIGH</i>	<i>ON</i>	<i>ON</i>	<i>ON</i>	<i>LOW</i>
<i>S3 (Suspend to RAM)</i>	<i>LOW</i>	<i>HIGH</i>	<i>ON</i>	<i>ON</i>	<i>OFF</i>	<i>OFF</i>
<i>S4 (Suspend to Disk)</i>	<i>LOW</i>	<i>HIGH</i>	<i>ON</i>	<i>OFF</i>	<i>OFF</i>	<i>OFF</i>
<i>S5 (Soft OFF)</i>	<i>LOW</i>	<i>LOW</i>	<i>ON</i>	<i>OFF</i>	<i>OFF</i>	<i>OFF</i>

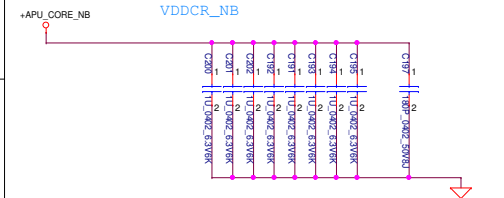
The diagram shows the timing relationships for signals G-A through G-E. The signals and their transitions are as follows:

- G-A**:
 - +RTC: Transitions from low to high.
 - EC_ON: Transitions from low to high.
- G-B**:
 - +3VALW/+5VALW: Transitions from low to high.
 - +1.8VALW: Transitions from low to high.
 - +0.95VALW: Transitions from low to high.
 - SYSON: Transitions from low to high.
- G-C**:
 - +1.5V: Transitions from low to high.
 - SUSP#: Transitions from low to high.
- G-D**:
 - +3VS: Transitions from low to high.
 - +1.8VS: Transitions from low to high.
 - +1.5VS: Transitions from low to high.
 - +0.95VS: Transitions from low to high.
 - VR_ON: Transitions from low to high.
- G-E**:
 - +APU_CORE: Transitions from low to high.
 - +APU_CORE_NB: Transitions from low to high.

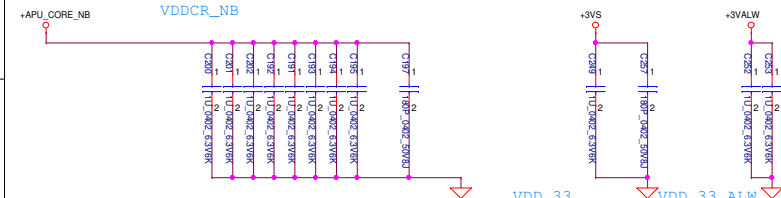
DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAQ ELECTRONICS, INC. NEITHER
MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN



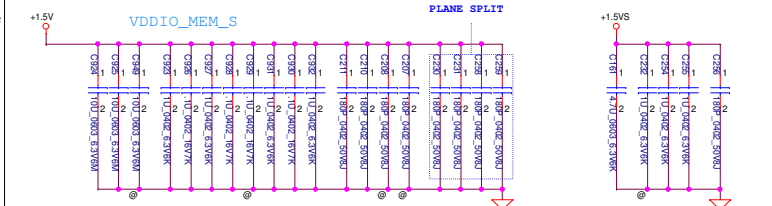
ADULT CODE



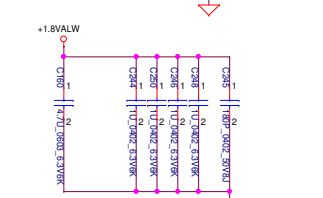
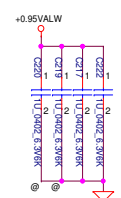
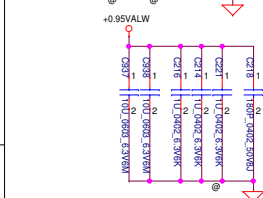
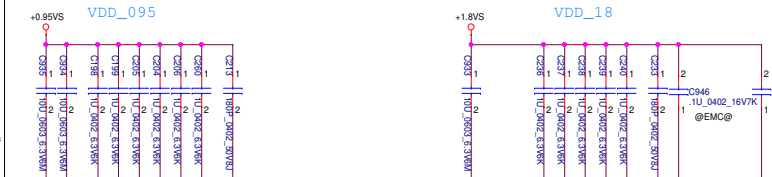
+3VALW/+3VS OF APU



VDDIO_AZ_ALW
(Could be S0 or S5 power rail)

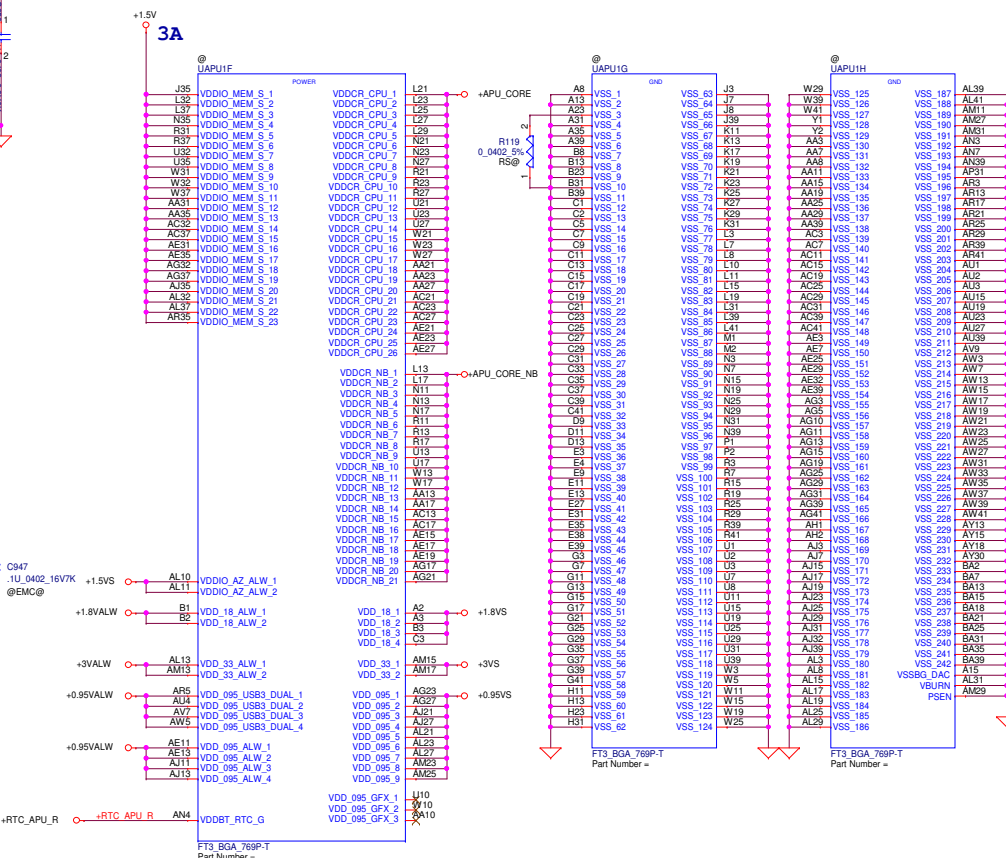


+1.8VALW/+1.8VS OF APU

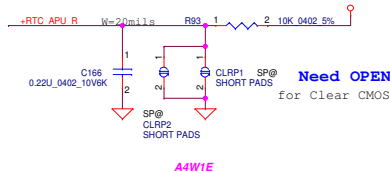


VDD 095 ALW

VDD 18 ALW



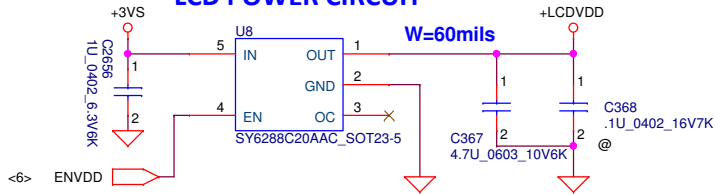
RTC OF APU



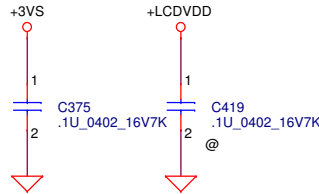
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2014/03/27	Deciphered Date	2016/03/27	Title	FT3 PWR/GND	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY 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 REPRODUCED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.				Size	Document Number	Rev 1.0
				B5W1E_LA-D121P		
				Date:	Thursday, April 16, 2015	Sheet 9 of 33



LCD POWER CIRCUIT

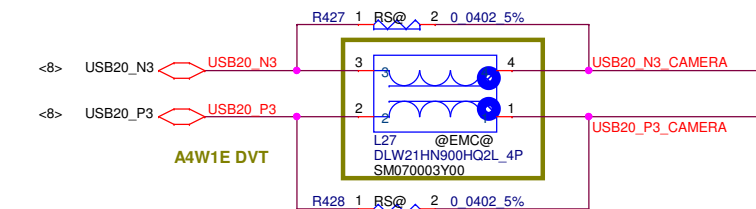
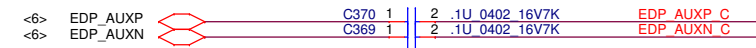
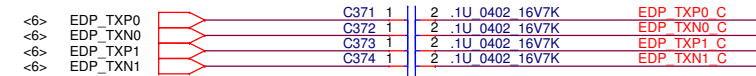
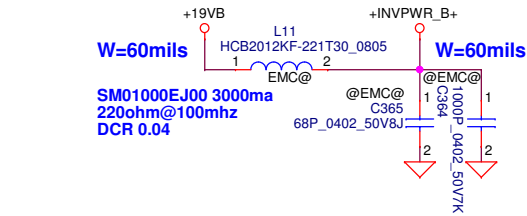
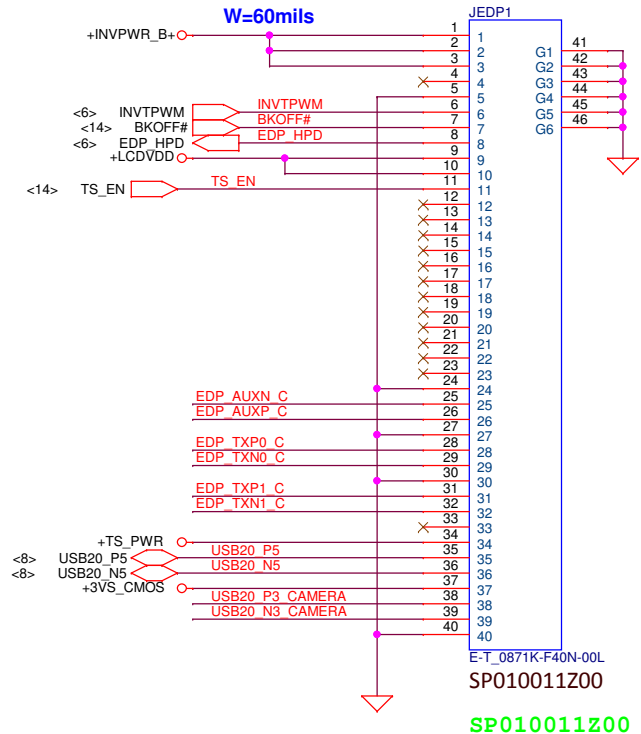


Place closed to JEDP1

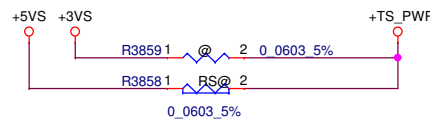


LED PANEL Conn.

3/13 Change Pin define to follow Z5W1M

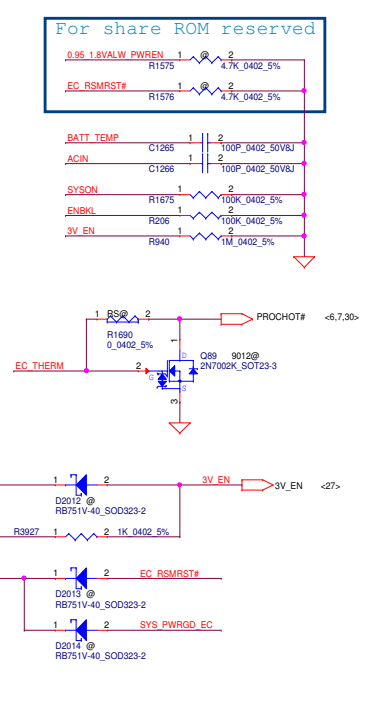


Change to R-Short when MP



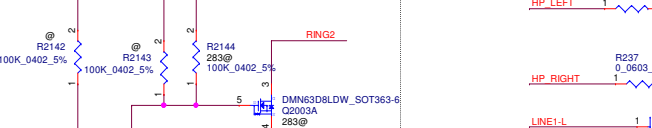
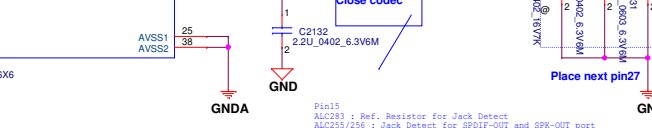
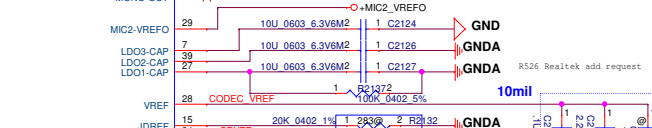
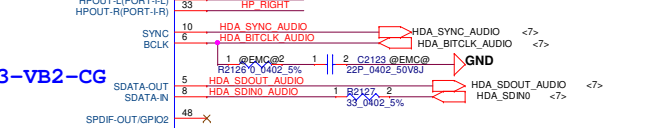
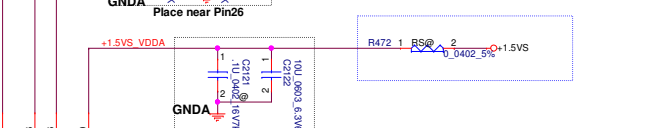
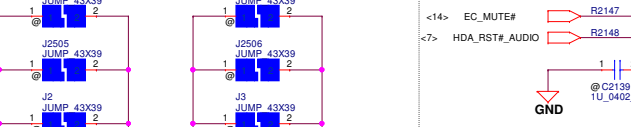
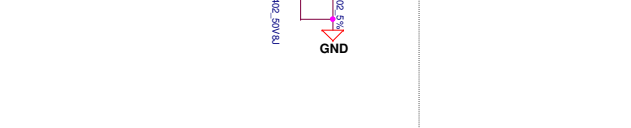
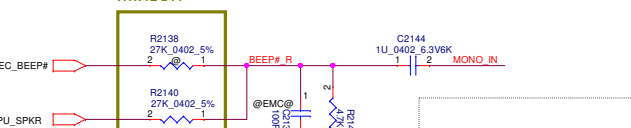
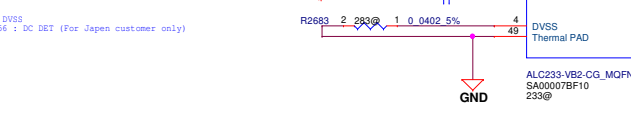
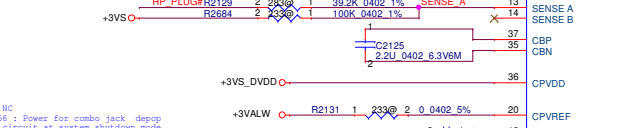
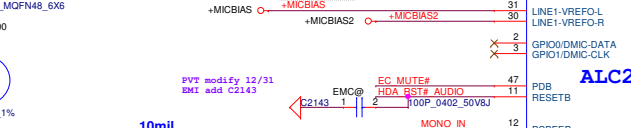
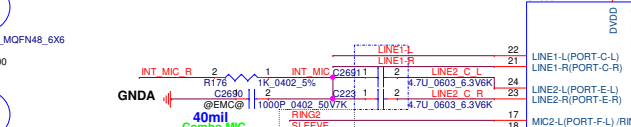
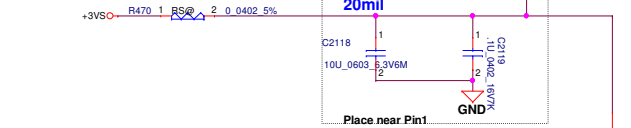
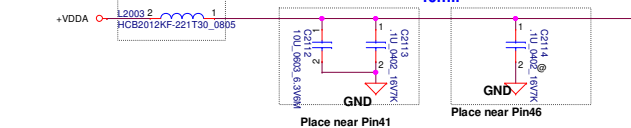
Touch Screen
For Camera

Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2014/11/04	Deciphered Date	2016/11/04	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.				Rev 1.0
B5W1E_LA-D121P				Sheet 12 of 33
Date: Thursday, April 16, 2015				Rev 1.0

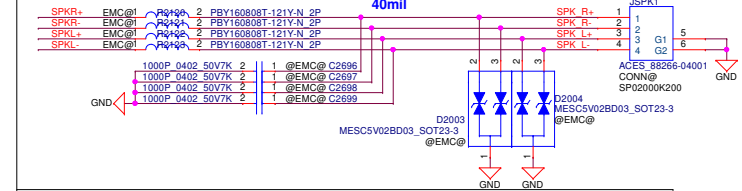


HD Audio Codec

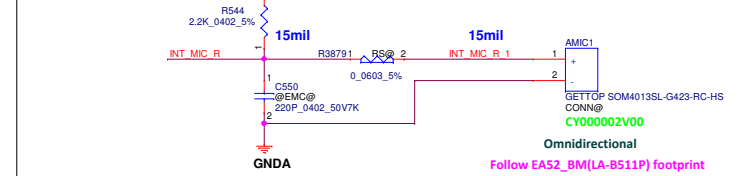
SM01000EJ00 3000ma 220ohm@100mhz DCR 0.04



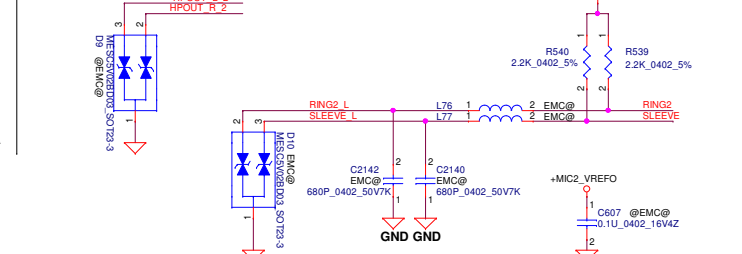
Int. Speaker Conn.



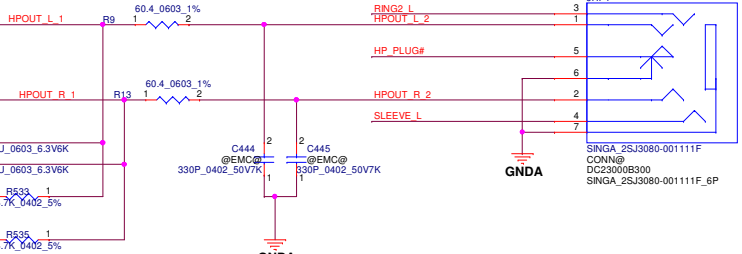
Analog MIC(SMD)



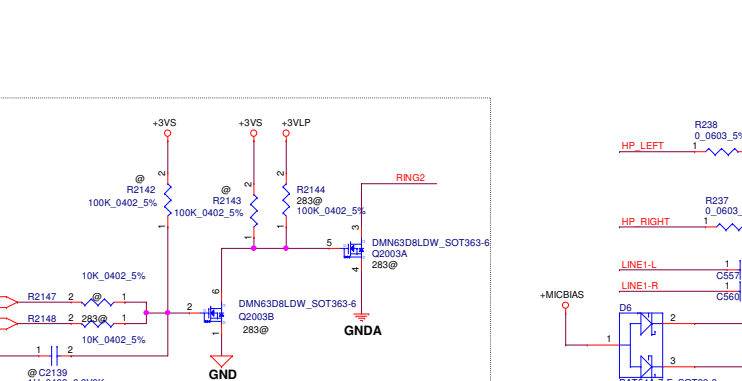
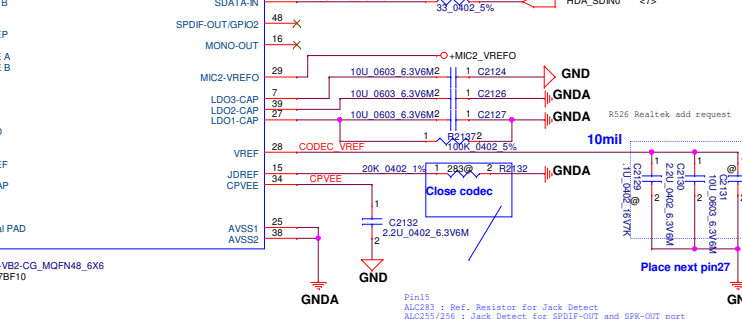
Headphone Out



Headphone Out



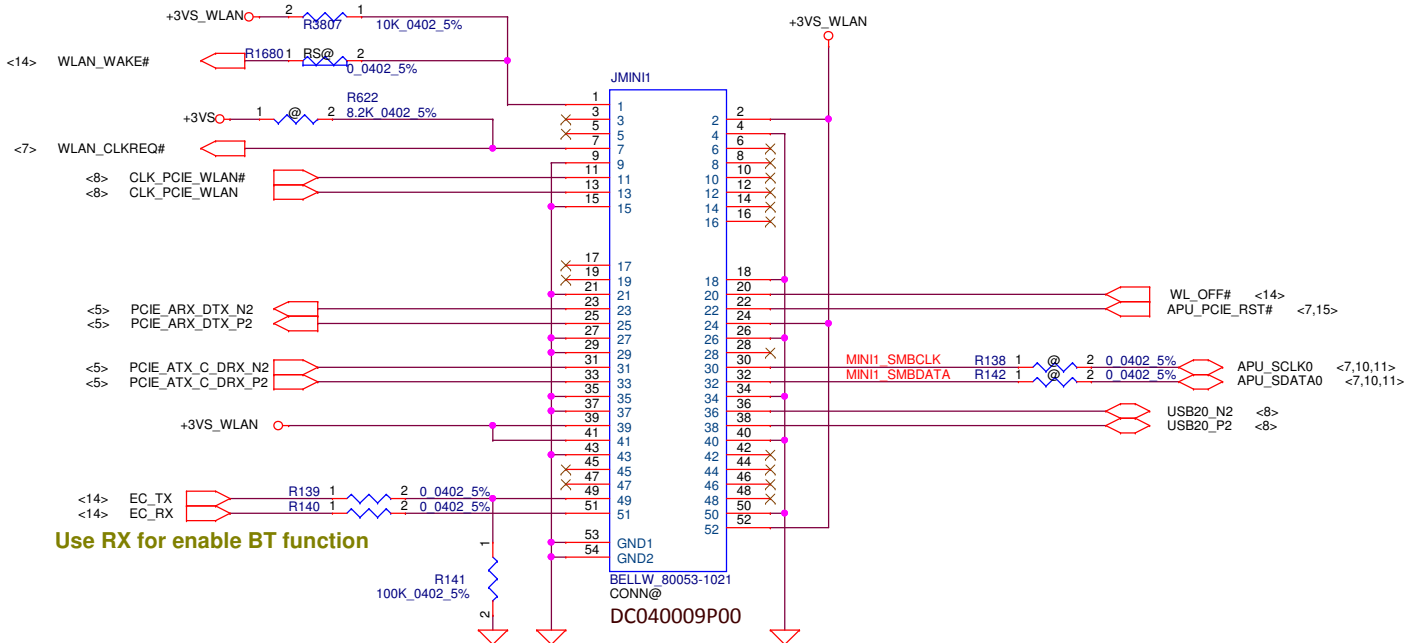
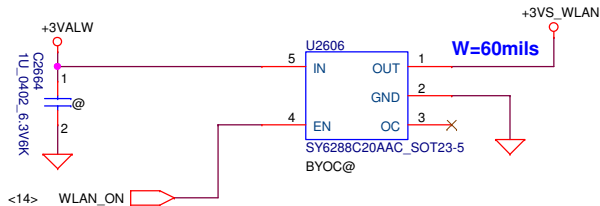
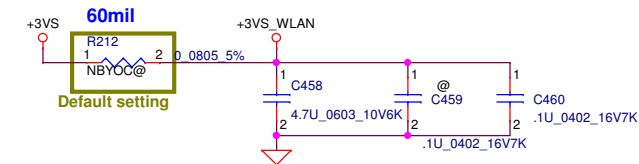
ALC233-VB2-CG



To solve the background noise while combo jack connecting to an active speaker and system entry into S3/S4/S5 without analog power

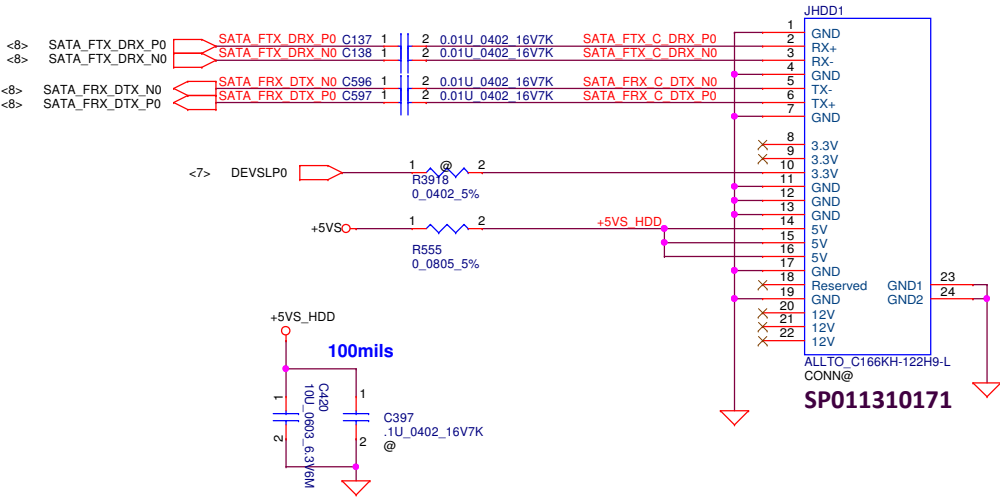
Security Classification		Compal Secret Data	
Issued Date	2014/11/04	Deciphered Date	2016/11/04
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF R&D DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.			
Title		Compal Electronics, Inc.	
HD Audio Codec ALC233-VB2		Size: Document Number	
B5W1E_LA-D121P		Rev: 1.0	
Date: Thursday, April 16, 2015		Sheet: 16 of 33	

Wireless LAN

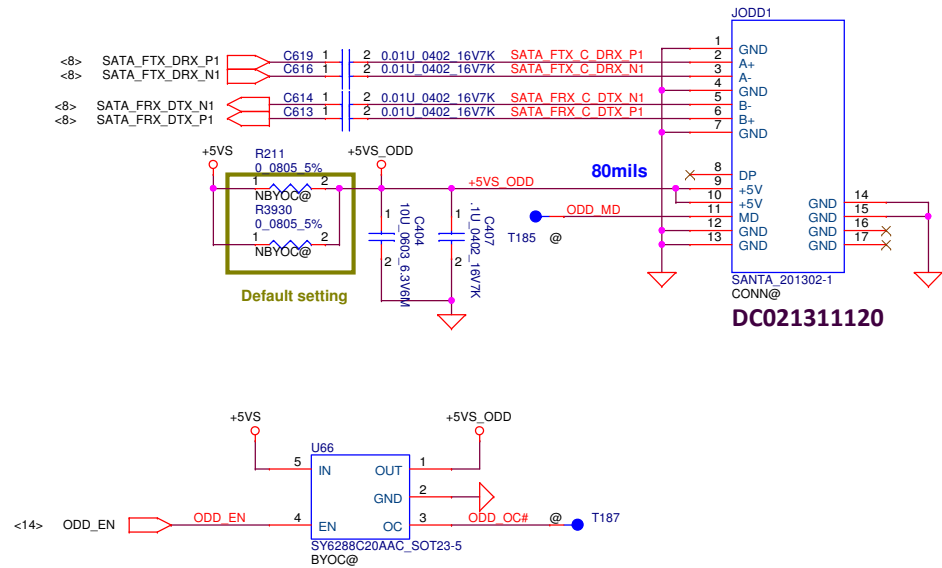


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2014/11/04	Deciphered Date	2016/11/04	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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
				B5W1E_LA-D121P	1.0
				Date: Thursday, April 16, 2015	Sheet 17 of 33

SATA HDD Conn.

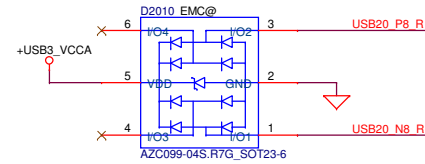
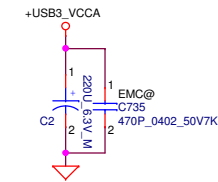
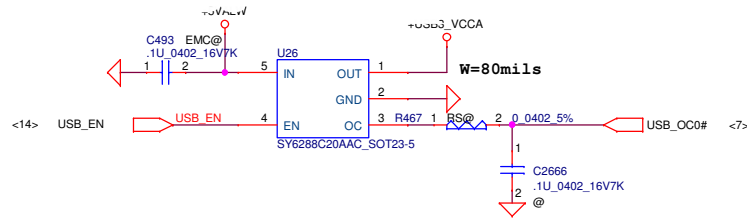
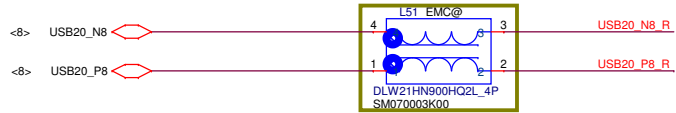


SATA ODD Conn.

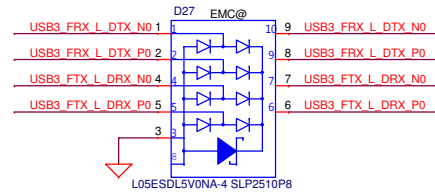


Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date		2014/11/04		Deciphered Date	
2014/11/04		2016/11/04		Title	
2016/11/04		2016/11/04		HDD/ODD	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE 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	
B5W1E_LA-D121P		1.0		Date: Thursday, April 16, 2015	
Sheet		18		of 33	

change L51 from SM070003Y00 to SM070003K00

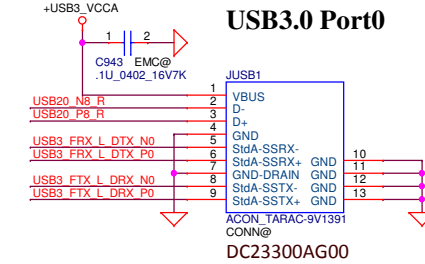


For ESD request

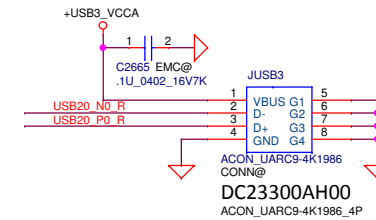


W=80mils

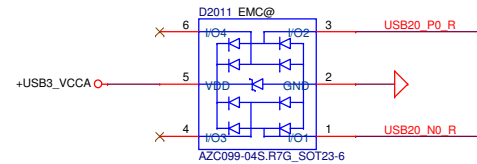
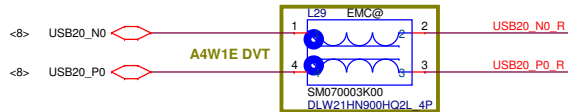
USB3.0 Port0



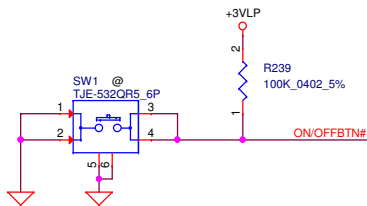
USB2.0 Port0



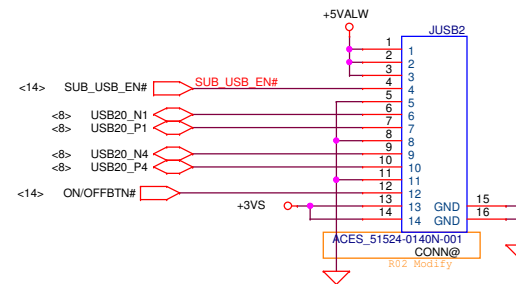
change L29 from SM070003Y00 to SM070003K00



ON/OFF BTN

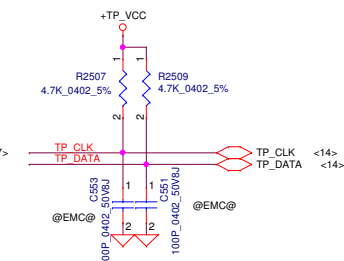
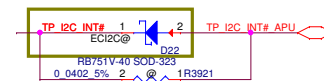
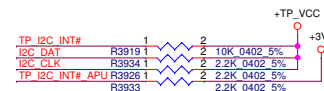


USB & CR/B



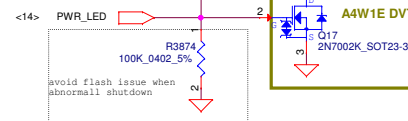
Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2014/03/27	Deciphered Date	2016/03/27	Title	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED 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
				Custom	B5W1E_LA-D121P
				Date	Thursday, April 16, 2015
				Sheet	19 of 33
				Rev	1.0

www.vinatix.vn



Modify R02,U14 Link CIS symbol

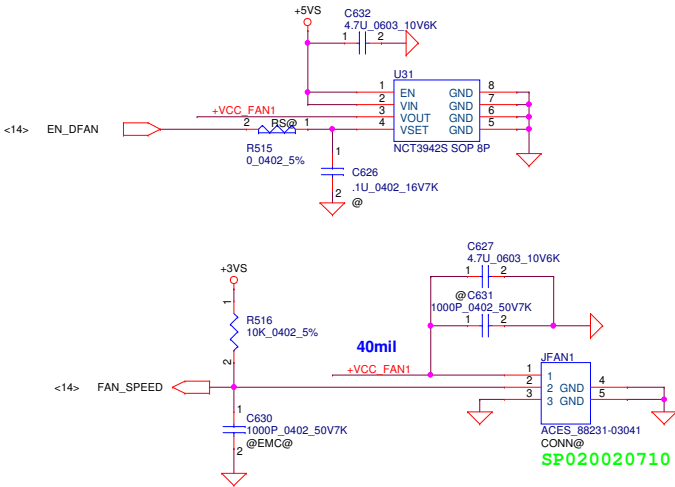
LPC CLK1 R2603 1 2 33 0402 5% C2606 1 2 22P 0402 50V8J @EMC@ @EMC@

[illegible]

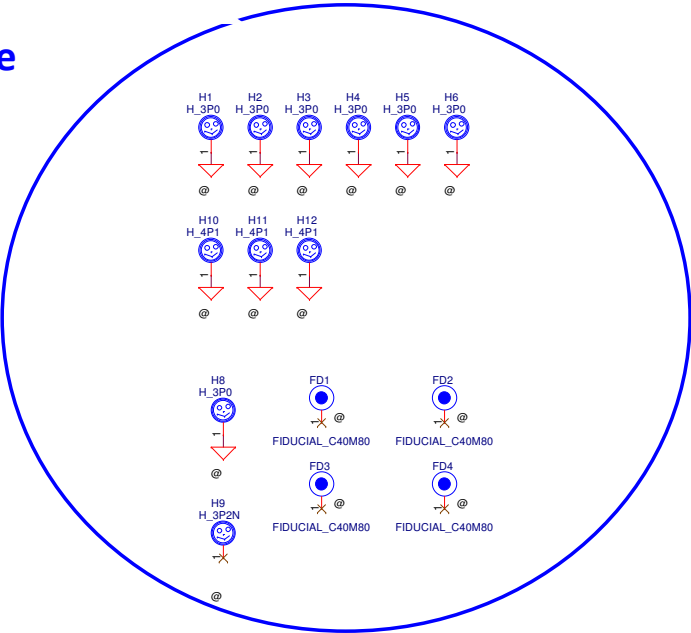
Security Classification		Compal Secret Data		Compal Electronics, Inc.					
Issued Date		2014/11/04	Deciphered Date	2016/11/04	Title				
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT 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.					KB/TP/TPM Connector/LED				
					Size	Document Number		Rev	
					Custom	B5W1E_LA-D121P		1.0	
Date:		Thursday		April 16, 2015	Sheet	20 of 33			

FAN1 Conn

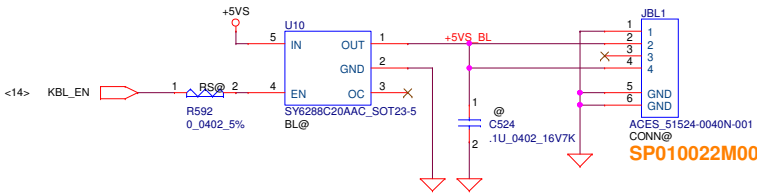
FAN Conn



Screw Hole

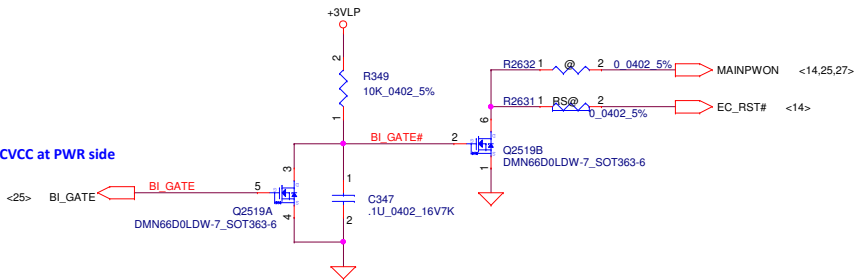


KB BackLight Conn. Reserve



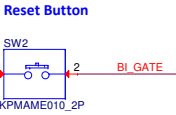
Reset Circuit

BI_GATE PH to +RTCVCC at PWR side



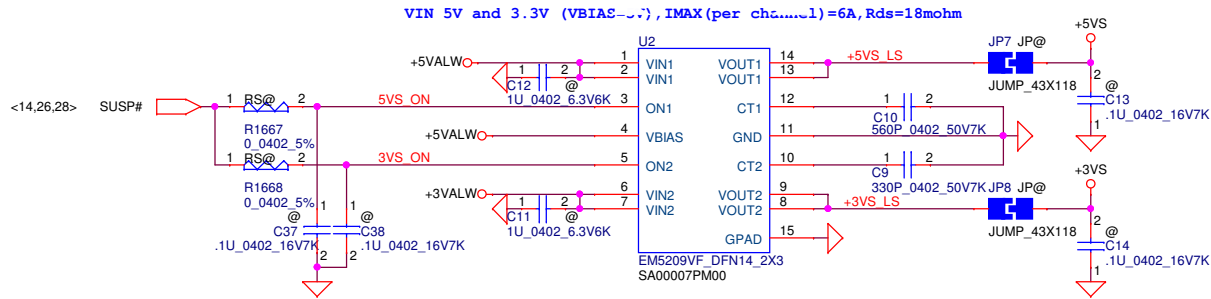
Del BI button

Reset Button

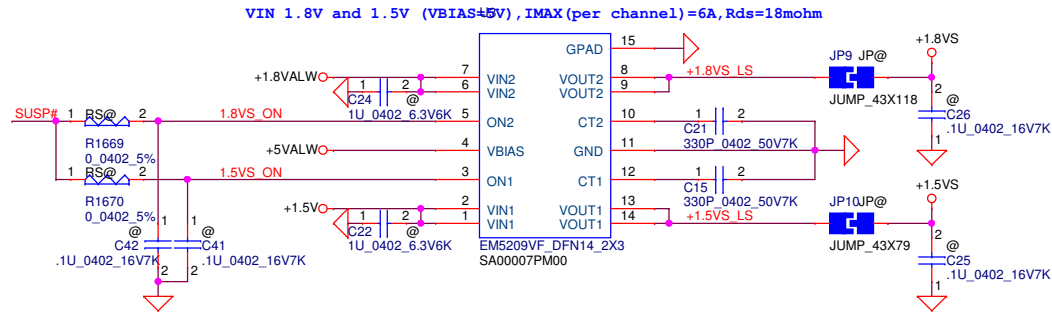


Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2014/11/04	Deciphered Date	2016/11/04	Title	FAN/BATT RESET_DEGUB SW	
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERRED FROM THE CUSTODY OF THE COMPETENT DIVISION OF HALLS 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	B5W1E_LA-D121P	1.0
				Date:	Thursday, April 16, 2015	Sheet 22 of 33

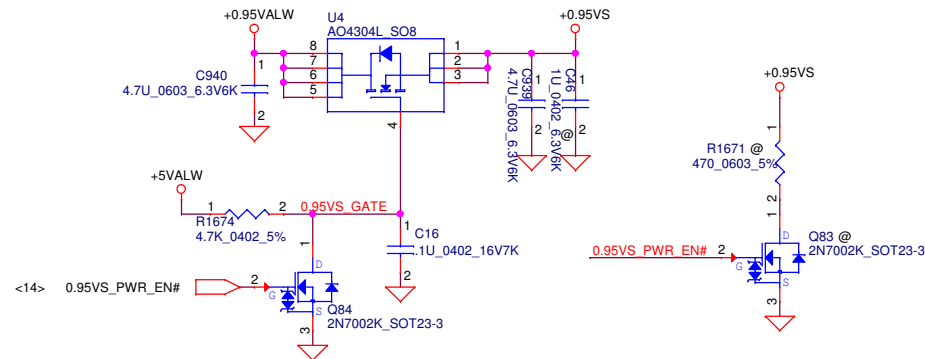
+5VALW TO +5VS
+3VALW TO +3VS
Load switch



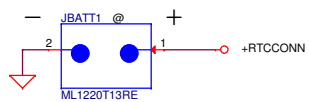
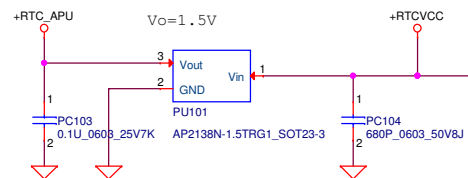
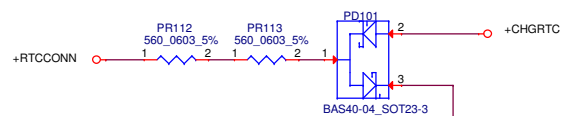
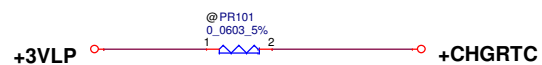
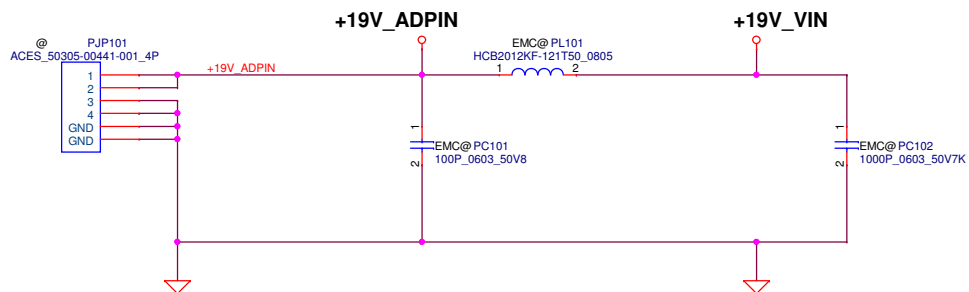
+1.8VALW TO +1.8VS
+1.5V TO +1.5VS
Load switch



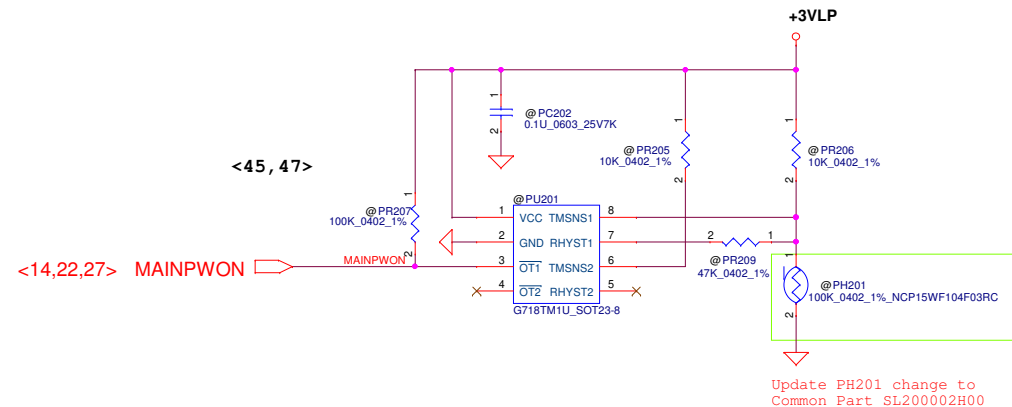
+0.95VALW to +0.95VS



Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2014/03/27	Deciphered Date	2016/03/27	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.				P22-DC INTERFACE	
				Document Number	Rev
				B5W1E_LA-D121P	1.0
Date: Thursday, April 16, 2015				Sheet	23 of 33



Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2014/10/20	Deciphered Date	2016/10/20	Title
				DCIN
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.				Rev
Customer				1.0
Document Number				B5W1E_LA-XXXXP
Date				Thursday, April 16, 2015
Sheet				24 of 33

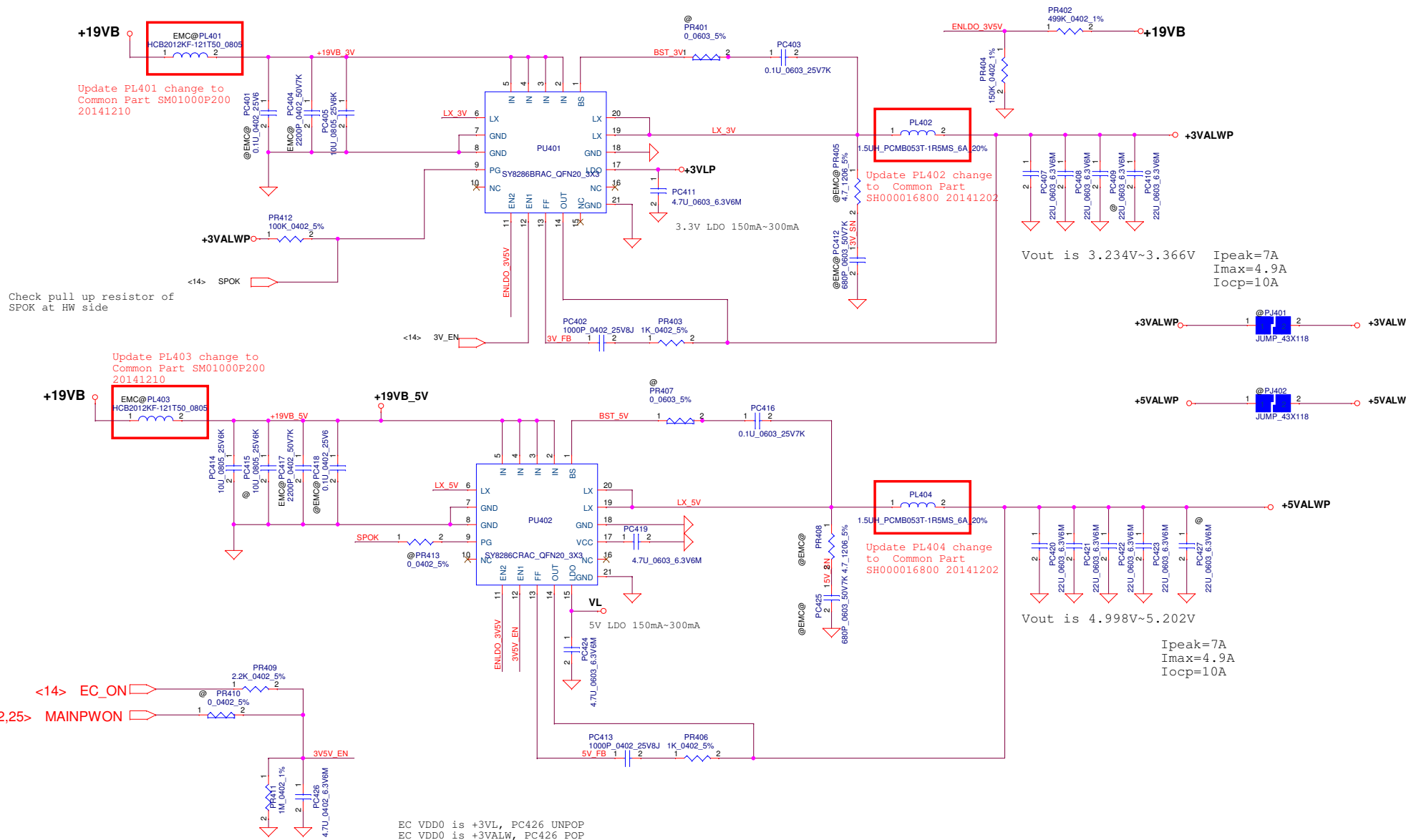


PIN8	GND
PIN7	GND
PIN6	SMD
PIN5	SMC
PIN4	TS
PIN3	B/I
PIN2	Batt+
PIN1	Batt+

For KB9012 sense 20mΩ	Active	Recovery
45W	48.15W, 0.73V	38.7W, 0.59V
65W	69.55W, 0.73V	55.9W, 0.59V

Update PH202 change to
Common Part SL200002H00

Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2014/10/20	Deciphered Date	2016/10/20	Title	BATTERY CONN / OTP	
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	B5W1E LA-XXXXP	1.0
Date:				Thursday, April 16, 2015	Sheet	25 of 33



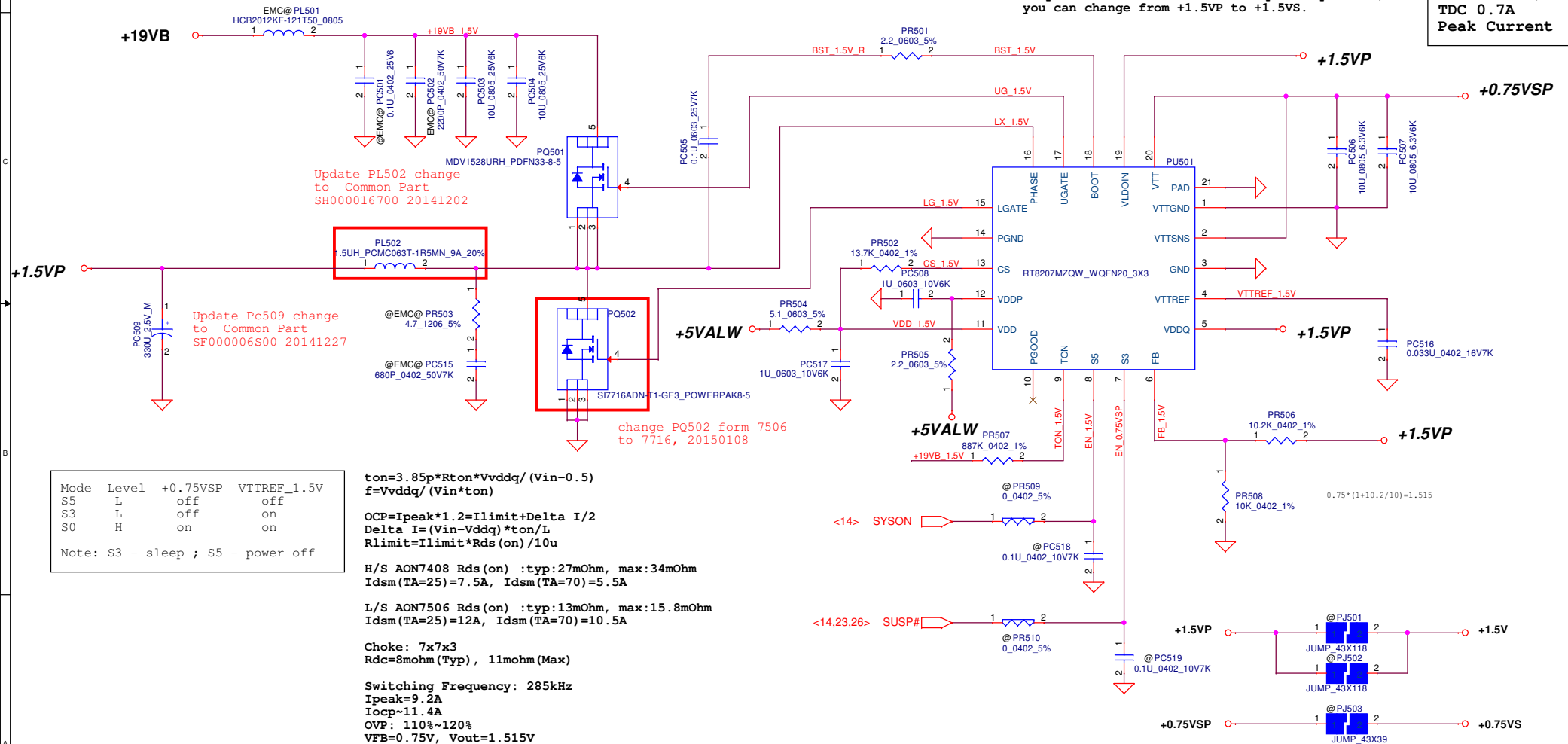
Security Classification		Compal Secret Data				Compal Electronics, Inc.									
Issued Date		2014/10/20		Deciphered Date		2016/10/20		Title		+3VALW/+5VALW					
THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. 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.										Document Number		Rev			
DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. 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.										Custom		B5W1E LA-XXXXP		1.0	
										Date: Thursday, April 16, 2015		Sheet		27 of 33	

Module model information

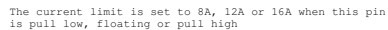
RT8207M_V1.mdd For Single layer
RT8207M_V2.mdd For Dual layer

Pin19 need pull separate from +1.5VP.
If you have +1.5V and +0.75V sequence question,
you can change from +1.5VP to +1.5VS.

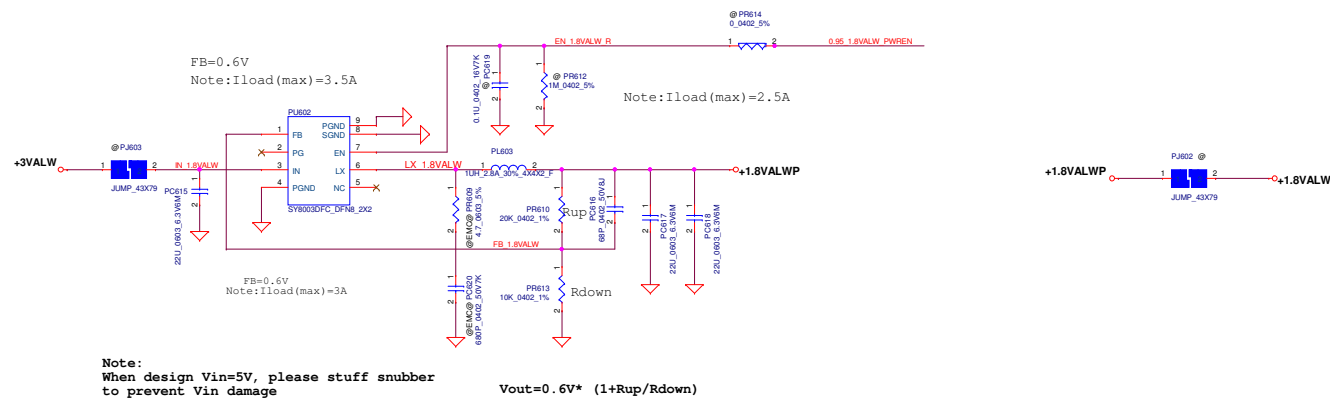
0.75Volt +/- 5%
TDC 0.7A
Peak Current 1A



Security Classification		Compal Secret Data				Compal Electronics, Inc.							
Issued Date		2014/10/20		Deciphered Date		2016/10/20		Title					
<div>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.</div>								+1.5VP/+0.75VSP					
								Size		Document Number		Rev	
								Custom		B5W1E LA-XXXXP		1.0	
								Date:					
								Thursday, April 16, 2015			Sheet 28 of 33		

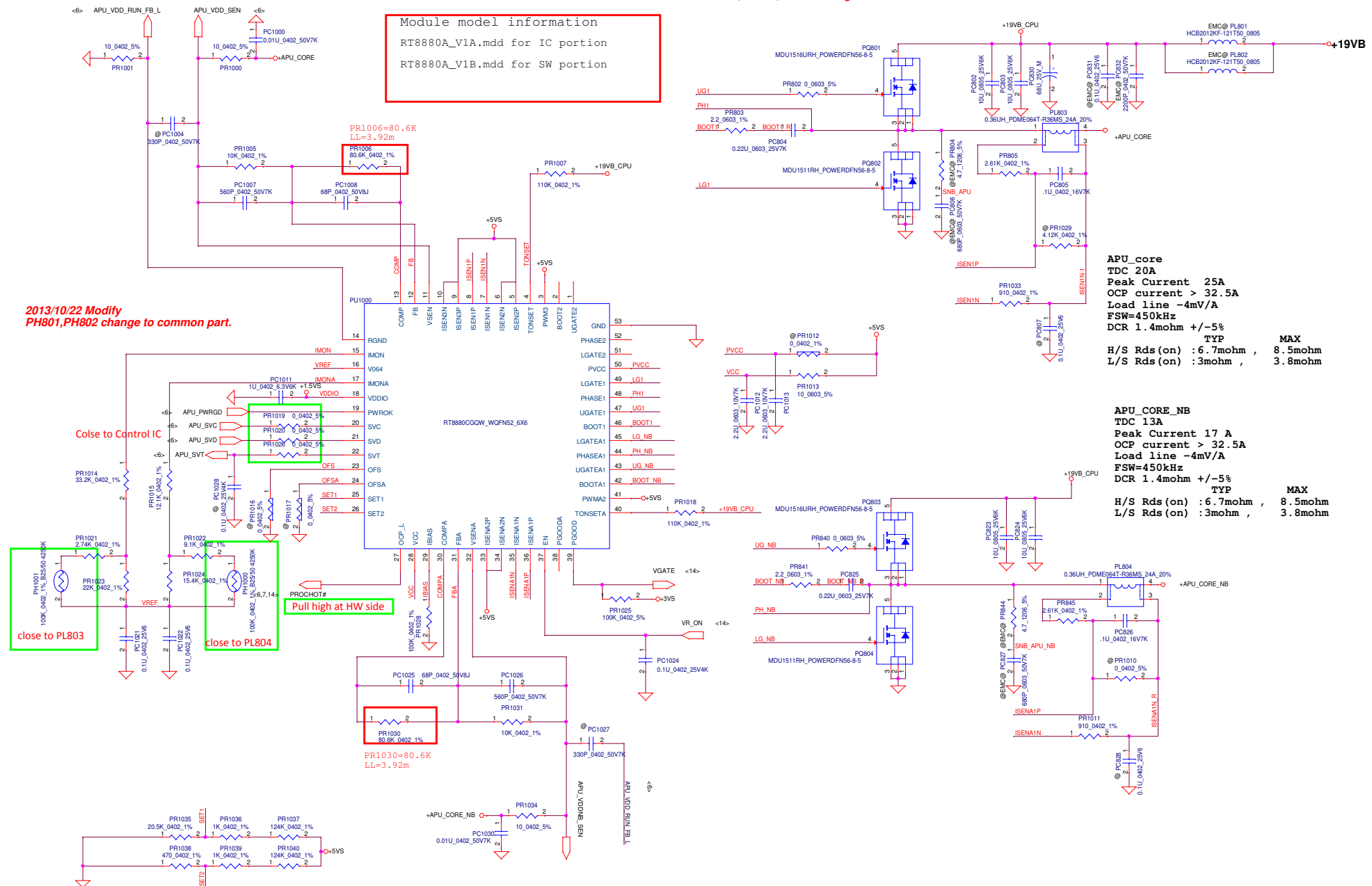


VDDP_ALW_VCTRL	VDDPALW
1	1.062V
0	0.96V



Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2014/10/20	Deciphered Date	2016/10/20	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 COMPAL ELECTRONICS, INC. WITHOUT THE WRITTEN AUTHORIZATION BY COMPAL ELECTRONICS, INC. THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC.			+0.95VALW/+1.8VALW	
Document Number	B5W1		LA-XXXXP	
Issue	00		00	

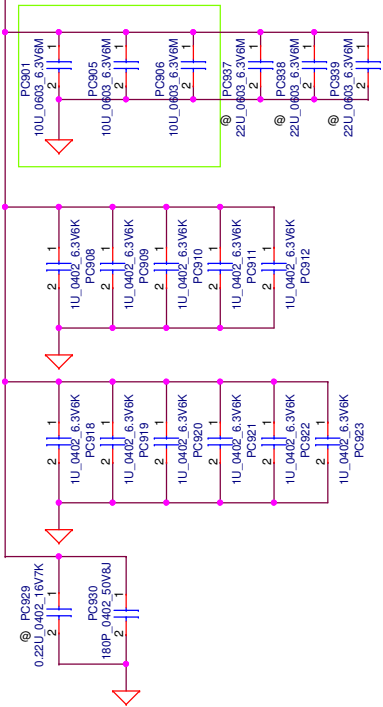
2013/10/16 Modify
PQ801,PQ803 change to AON6552.
PQ802,PQ804,PQ805 change to AON6554.



Delete PR834.PR835.PR836.PR839.PR840.PR841,
follow vender FAE suggest.
2013/11/29 modify.

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/06/19	Deciphered Date	2012/07/31	Title	CPU CORE
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
				Custom	BSW1E_LA-XXXXX
				Date:	Thursday, April 16, 2015
				Sheet	30 of 33
				Rev	1.0

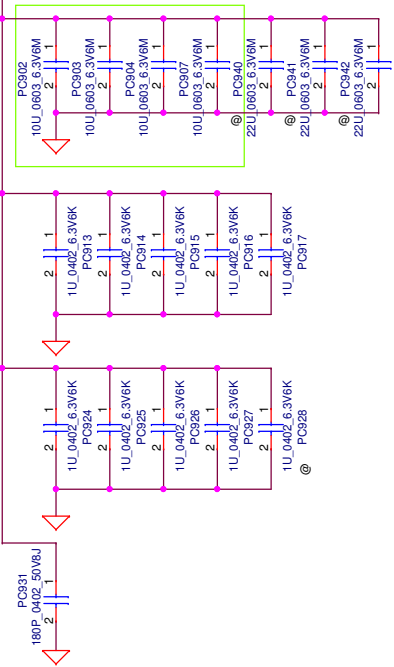
+APU_CORE



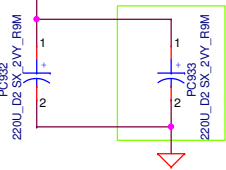
+APU_CORE (36.4)

+APU_CORE_NB (36.5)

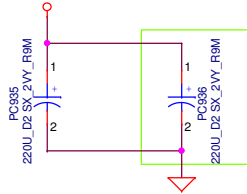
+APU_CORE_NB



+APU_CORE



+APU_CORE_NB



Security Classification		Compal Secret Data		Compal Electronics, Inc.					
Issued Date	2014/10/20	Deciphered Date	2016/10/20	Title +APU_CORE Cap					
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	B5W1E LA-XXXXP	1.0			
				Date: Thursday, April 16, 2015			Sheet	31	of 33

Page 1 of 1
for PWR

Security Classification		Compal Secret Data		Compal Electronics, Inc.		
Issued Date	2014/10/20	Deciphered Date	2016/10/20	Title	PWR_PIR1	
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 FACTORY MANAGEMENT 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.				Doc No	Document Number	Rev
				Customer	B5W1E_LA-XXXXP	1.0
				Date:	Thursday, April 16, 2015	Sheet 32 of 33

Item	Page	Date	Reason for change	Phase
01		2015/02/05	modify form A4W1E, i/o copy from Z5W1M	DVT
02	11	2015/02/06	update to DIMM*2	
03	06		del JHDT1 circuit	
04	20	2015/02/09	for TP diff device	
05	18		del EXT HDD connector	
06	14	2015/02/11	define 15" EVT	
07			Change all EMI/ESD BS to EMC@	
08	15	2015/02/13	del JP25 (confirm with EMI Eddie)	
09	21	2015/02/24	schematic update	
10	07		del Q2520 and change to 2505A	
11	14		APU_GPIO49 pull high change S0 domain, (+3VS)	
12	15		R1562/3949/3950 change to 1% tolerance	
13	15		replace R3959~3962 by RP10	
14		2015/02/25	add R3935/R3936 for PH LAN_PME# & CLKREQ#	
15	14		update power circuit.	
16	17		for common use Z5W1M I/O board	
17	23	2015/02/26	schematic update	
18	17		add EC Pin 108 "SUB_USB_EN"	
19	08		change R3956 to 0 ohm (@), and unpop R3955	
20	07		net swap D10 and 3/5V load switch for layout.	
21	07		R139/140 change to 0 ohm from R-S.	
22	18	2015/03/03	C795 change to 5.6P (follow A4W1E)	
23	14		Change R668 to PH +3VALW for Project define.	
24	05		Change R694/R695 to 1k ohm for Platform define	
25	13,19,21		JODD1 pin 16&17 not connect to GND	
26	13	2015/03/04	add dummy R3949/R3950 for CZL ID	
27	15		replace RP2 by R75~R77	
28	19		swap L39/L41/L29/L49/L50/RP16/RP24 for layout	
29	5	2015/03/05	swap RP1.3 & RP1.4	
30	4	2015/03/06	swap Transformer T2507 pins	
31	23	2015/03/07	change L29,L51 from SM070003Y00 to SM070003K00	
32	5	2015/03/10	add beema & kabini APU	
33	15	2015/03/10	Remove A4@, A6@, E1@, E2@	
34	12	2015/03/13	SWAP U3	
35	1,2	2015/03/18	add CZL-L APU	
36	13,15,19	2015/04/08	Change L2004 to SH00000RT00	
37		2015/04/09	Change JEDP1 pin define to follow Z5W1M	
38		2015/04/09	Update Project Name & function block page	
39		2015/04/10	remove co-layout footprint for DFB.	
			update power circuit to 0409	
			Change 0 ohm to 0ohm R-S	
			Change R3923,R427,R428,R3858,R3925,R124,R125,R1682,R1690,R470,R471,R472,R3879,R1680,R563,R564,R567,R568,R467,R2631 to R-S	
			Update PCB PN to Ver1.0 (DA6001FR010)	

Security Classification

2014/03/27

Deciphered Date

2016/03/27

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 C

Document Number B5W1E_LA-D121P

Date: Thursday, April 16, 2015

Compal Electronics, Inc.

HW-PIR

Rev 1.0

Sheet 33 of 33