

## KIWA5/A6

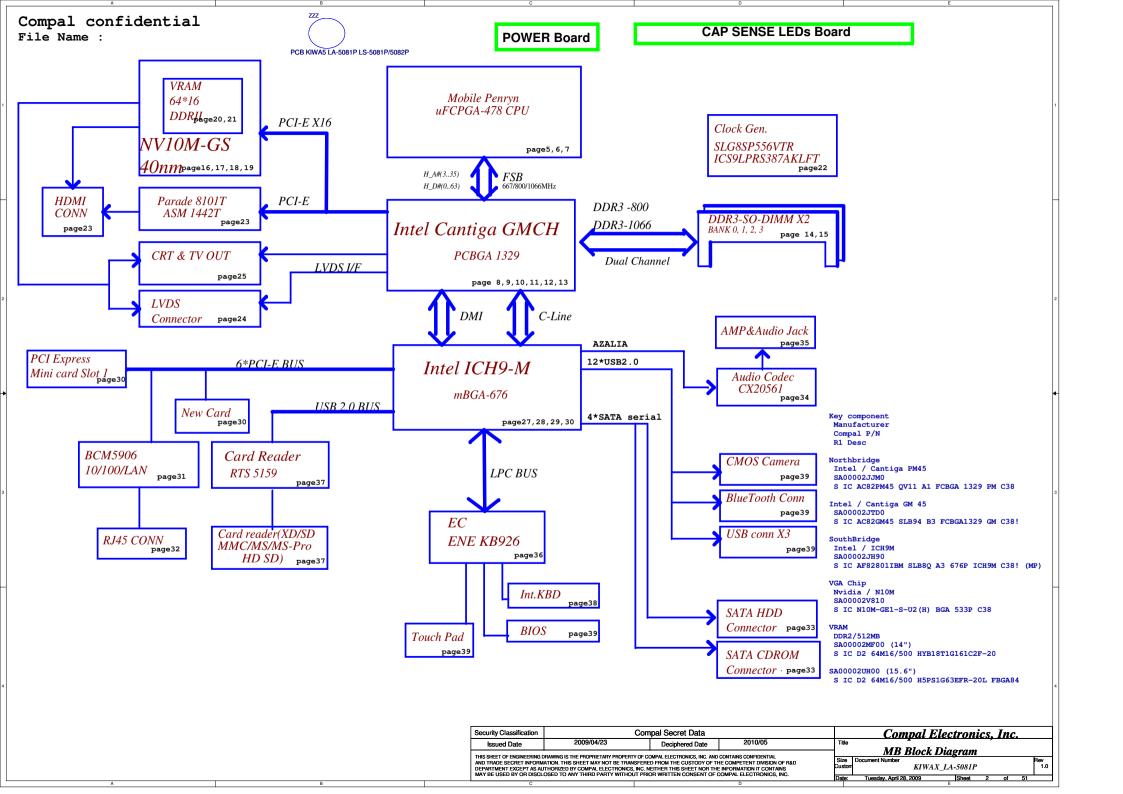
### **Schematics Document**

# Mobile Penryn uFCPGA with Intel Cantiga\_GM/PM+ICH9-M core logic

REV:1.0

本文来自:http://www.yunweipc.com,郴州运维电脑维修网,更多最新维修资料、维修实例、问题咨询敬请您关注。

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**DDR3 Voltage Rails** power plane +5VALW +1.5V +5VS B+ +3VS +3VALW +1.5VS +0.75VS State +VCCP +CPU\_CORE +VGA\_CORE +1.8VS S0 0 0 0 0 S1 0 0 0 0 s3 0 0 0 X S5 S4/AC 0 0 X X S5 S4/ Battery only 0 X X X

X

X

SMBUS, SPI and I2C Control Table

S5 S4/AC & Battery don't exist

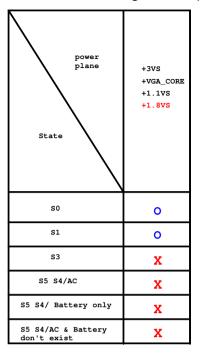
	SOURCE	HDMI	LVDS	CRT	HDCP	SERIAL EEPROM	NEW CARD	CLK GEN	CAP sensor	Mini CARD1	Mini CARD2	BATT	THERMAL SENSOR (VGA)	THERMAL SENSOR (CPU)
EC_SMB_CK1 EC_SMB_DA1	KB926	Χ	Χ	Χ	Х	Х	Χ	Χ	Х	Χ	Χ	V	Х	Х
EC_SMB_CK2 EC_SMB_DA2	КВ926	Х	Х	Х	Х	Х	Χ	Х	V	Χ	Χ	Х	V	V
ICH_SMBCLK ICH_SMBDAT	ICH9	Х	Х	Х	Х	X	V	v	Х	V	٧	Х	Х	Х
LVDS_SCL LVDS_SDA	Cantiga	Х	V	Х	X	Χ	Х	Х	Х	Χ	Χ	Х	Χ	Χ
GMCH_CRT_CLK GMCH_CRT_DAT	Cantiga	Х	Χ	v	Χ	Χ	Χ	Χ	Х	Χ	Χ	Х	Χ	Χ
HDMICLK_NB HDMIDAT_NB	Cantiga	v	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Χ	Х	Χ	Χ
VGA_DDCCLK VGA_DDCDATA	N10M	X	Χ	v	X	Х	Χ	X	Х	Χ	Χ	Х	Χ	Χ
VGA_LVDS_SCL VGA_LVDS_DAT	N10M	X	V	X	X	Χ	Χ	X	X	Χ	Χ	Х	Χ	Χ
VGA_HDMI_SCL VGA_HDMI_DAT (55nm)	N10M	v	Χ	Х	Χ	Х	Χ	Х	Х	Χ	Χ	Χ	Х	Х
HDCP_SMB_CK1 HDCP_SMB_DA1	N10M	X	X	X	V	Х	Χ	X	Х	Χ	Χ	Х	Χ	Χ
IFPC_AUX IFPC_AUX_N (40nm)	N10M	v	Х	Х	Х	Х	Х	Х	Х	X	X	Х	Х	Х
FSEL#SPICS# FRD#SPI_SO SPI_CLK FWR#SPI_SI	KB926	Х	Х	Х	Х	V	Х	Х	Х	X	Х	Х	Х	Х

X

X

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							Rev		
						KIWAX_LA-5081P	1.0		
						Tuesday April 28 2009   Sheet 2 of 51			

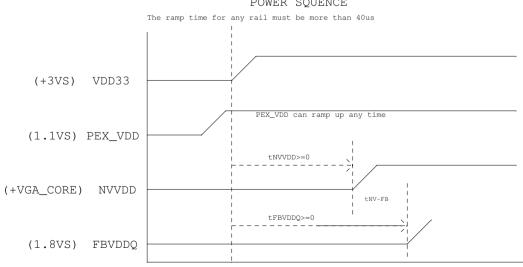
#### VGA and DDR2 Voltage Rails (N10M)



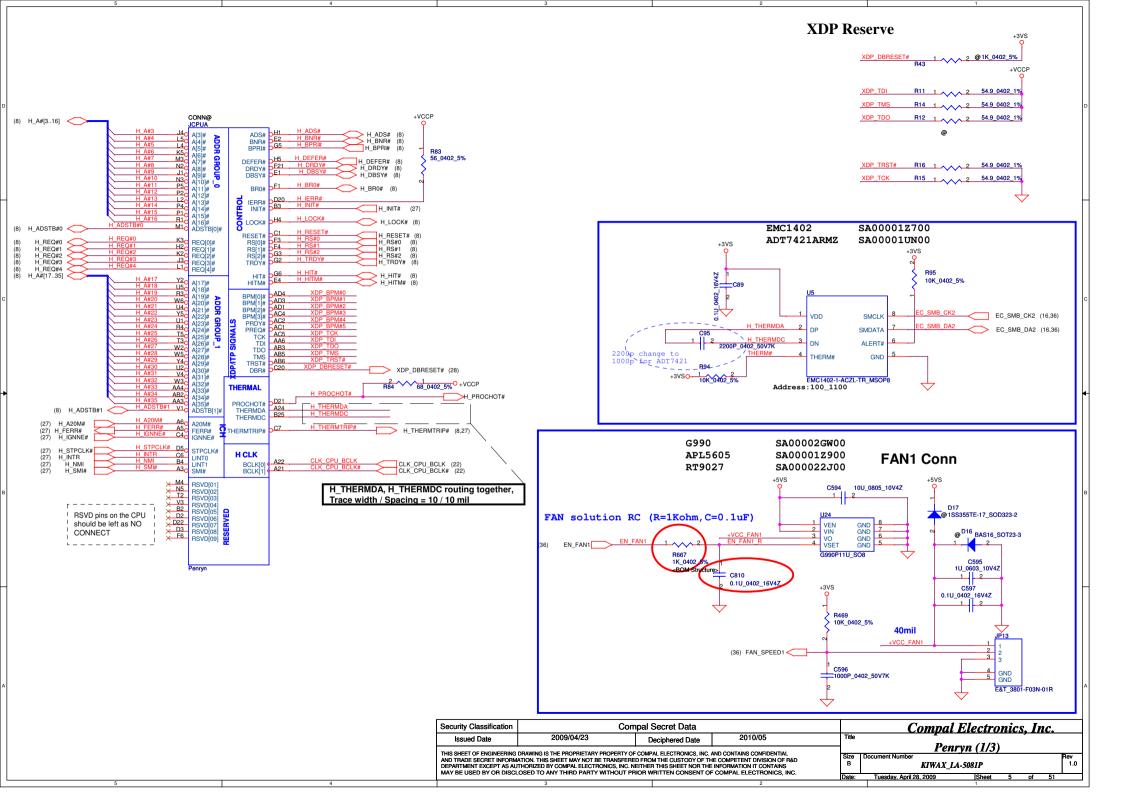
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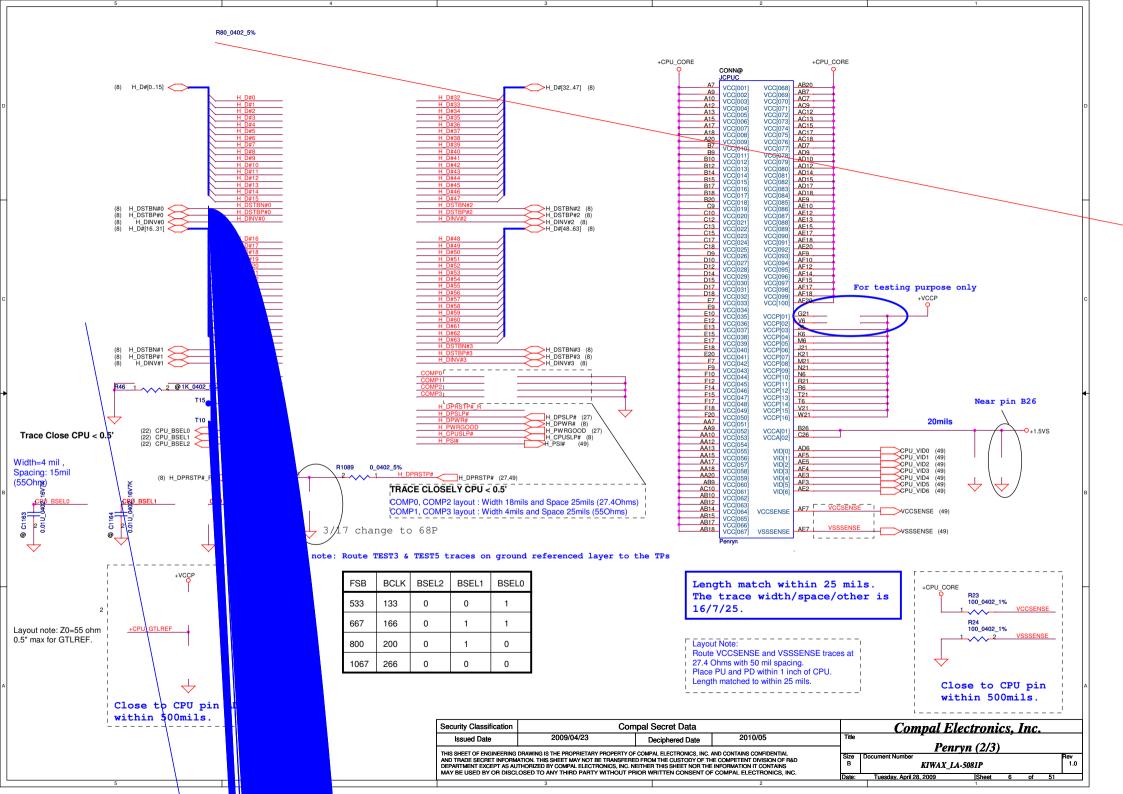
Power Supply Rail	NB1	IOM-GS	N10M-GE1-S			
	(V)	GDDR3	DDR2	GDDR3	DDR2	
NVVDD	Variable	11.22A	10.87A	13.56A	13.47A	
FB_DLLAVDD	1.1	25m	ıΑ	25mA		
FB_PLLAVDD	1.1	10m	nΑ	10mA		
IFPC_IOVDD	1.1	385	mA	180mA		
IFPD_IOVDD	1.1	385	mA	180mA		
IFPE_IOVDD	1.1	385	mA	180	mA	
IFPF_IOVDD	1.1	385	mA	180	mA	
PEX_IOVDD/Q	1.1	155	0mA	155	0mA	
PEX_PLLVDD	1.1	165	mA	65mA		
PLLVDD	1.1	55m	nΑ	30mA		
SP_PLLVDD	1.1	25m	nΑ	10mA		
VID_PLLVDD	1.1	50m	nΑ	25mA		
TOTAL	1.1	3.42	25A	2.43	35A	
FBVDD/Q	1.8	2.24A	1.65A	2.24A	1.75A	
IFPA_IOVDD	1.8	50m	nA	50m <i>A</i>		
IFPB_IOVDD	1.8	50m	nΑ	50mA		
IFPAB_PLLVDD	1.8	100	100mA		١	
IFPCD_PLLVDD	1.8	160	mA	80mA		
IFPEF_PLLVDD	1.8	160	mA	80m <i>A</i>	١	
TOTAL	1.8	2.76A	2.17A	2.575A	2.085A	
DACA_VDD	3.3	110	mA	110m	Α	
DACB_VDD	3.3	125	mA	125m	Α	
DACC_VDD	3.3	110	mA	110m	Α	
MIOA_VDDQ	3.3	10m	nΑ	10mA		
MIOB_VDDQ	3.3	10m	nΑ	10mA		
VDD33	3.3	80m	ıΑ	80m <i>A</i>	١	
TOTAL	3.3	0.44	15A	0.445	A	

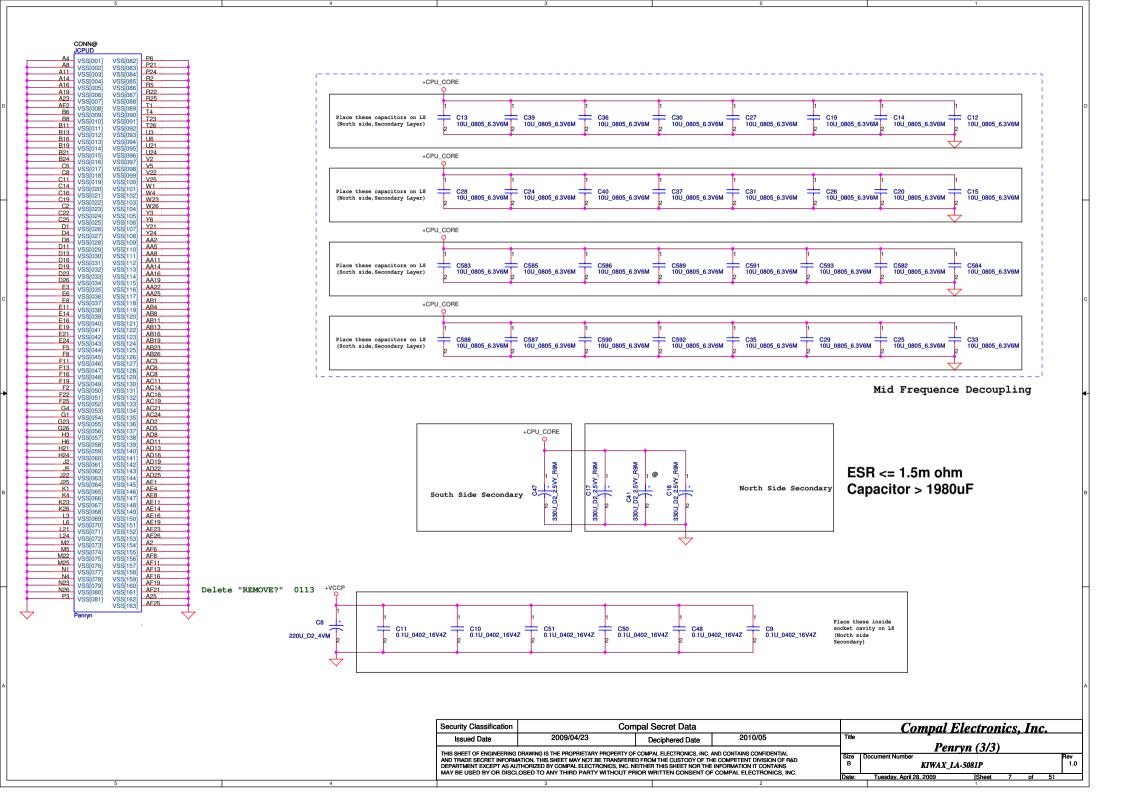
#### POWER SQUENCE



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DDR A D0
DDR A D1
DDR A D2
DDR A D3
DDR A D4
DDR A D5
DDR A D6
DDR A D6
DDR A D7
DDR A D8
DDR A D8
DDR A D9
DDR A D10
DDR A D11
DDR A D12
DDR A D12
DDR A D12 DDR B D0 DDR B D1 DDR B D2 DDR B D3 DDR B D4 DDR B D5 DDR\_A\_BS#0 DDR\_A\_BS#1 DDR\_A\_BS#2 DDR\_B\_BS#1 DDR\_B\_BS#1 DDR A RAS# DDR A CAS# DDR A WE# DDR\_B\_RAS#
DDR\_B\_WE# DDR A DMO
DDR A DMI
DDR A DM2
DDR A DM2
DDR A DM3
DDR A DM5
DDR A DM6
DDR A DM6
DDR A DM6
DDR A DM6 DDR A D12

DDR A D13

DDR A D14

DDR A D15

DDR A D16

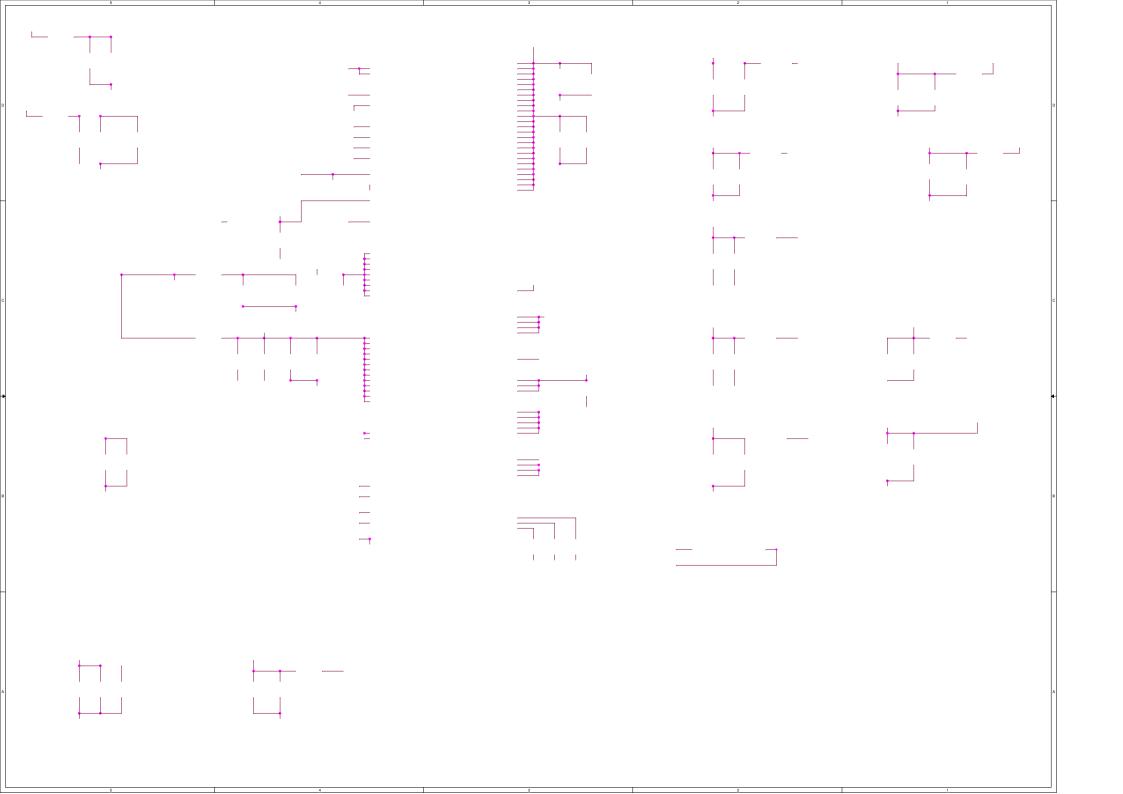
DDR A D17

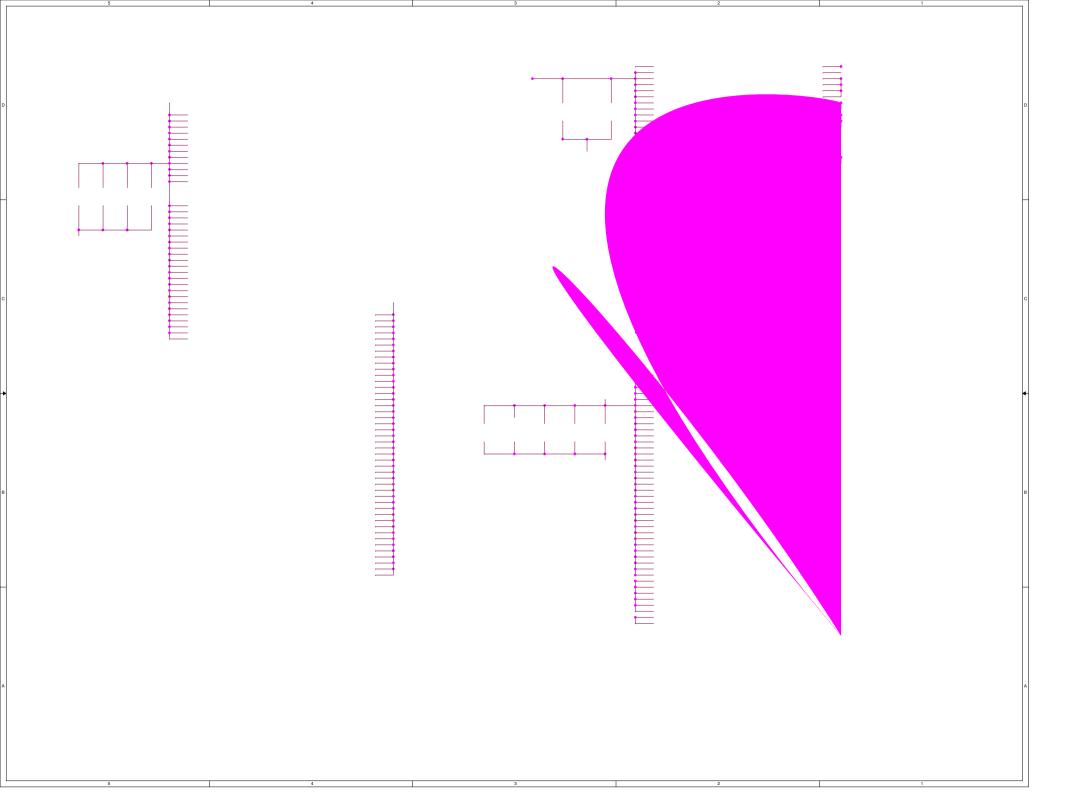
DDR A D18

DDR A D19

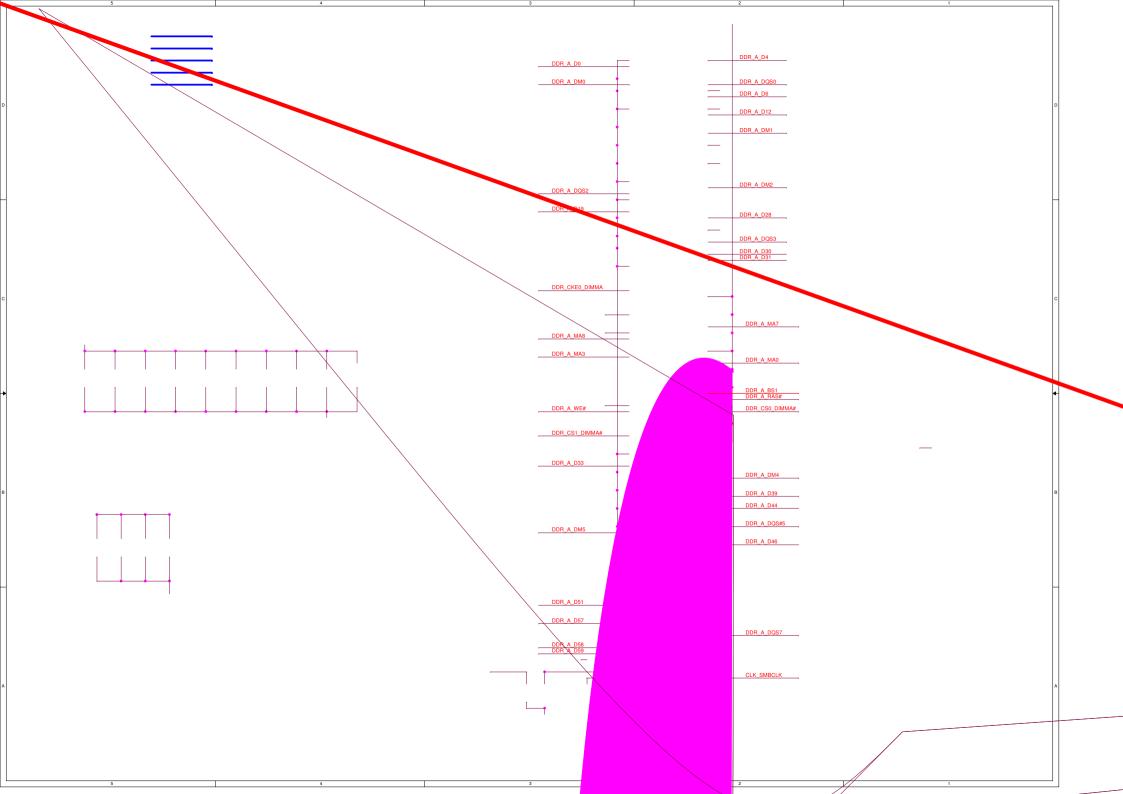
DDR A D20 DDR B DM0
DDR B DM1
DDR B DM2
DDR B DM3
DDR B DM3
DDR B DM4
DDR B DM5
DDR B DM6
DDR B DM6
DDR B DM7 DDR A D20 DDR A D21 DDR A D22 DDR A D23 DDR A DQS0
DDR A DQS1
DDR A DQS2
DDR A DQS3
DDR A DQS3
DDR A DQS4
DDR A DQS5
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DDR A DQS6
DDR A DQS7 DDR A D23
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DDR B DQS1
DDR B DQS2
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DDR B DQS5
DDR B DQS5
DDR B DQS6 DDR B DQS6 DDR B DQS7 DDR A DOS#0
DDR A DOS#1
DDR A DOS#2
DDR A DOS#2
DDR A DOS#3
DDR A DOS#4
DDR A DOS#4
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DDR A DOS#6
DDR A DOS#6 DDR B DQS#0
DDR B DQS#1
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DDR B DQS#6 DDR A D44
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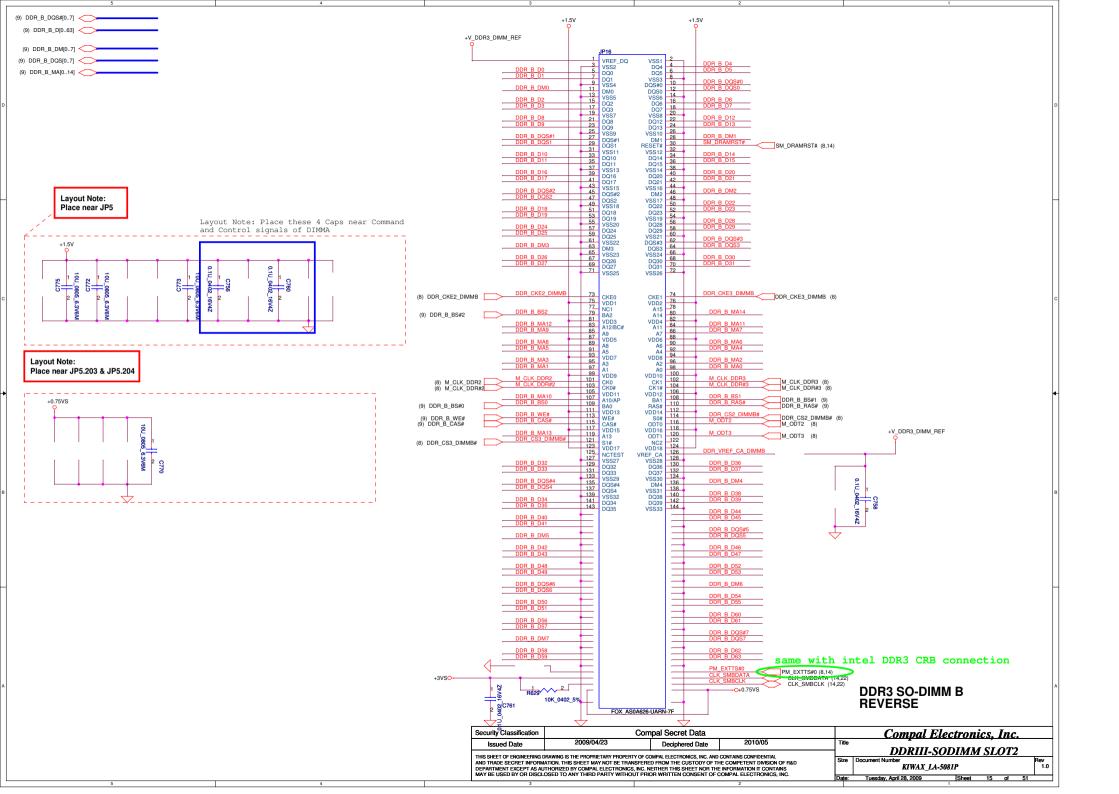
GM\_ENVDD GMCH\_CRT\_B GMCH\_CRT\_R GMCH\_CRT\_G GMCH\_CRT\_G GMCH\_CRT\_B GMCH\_CRT\_R

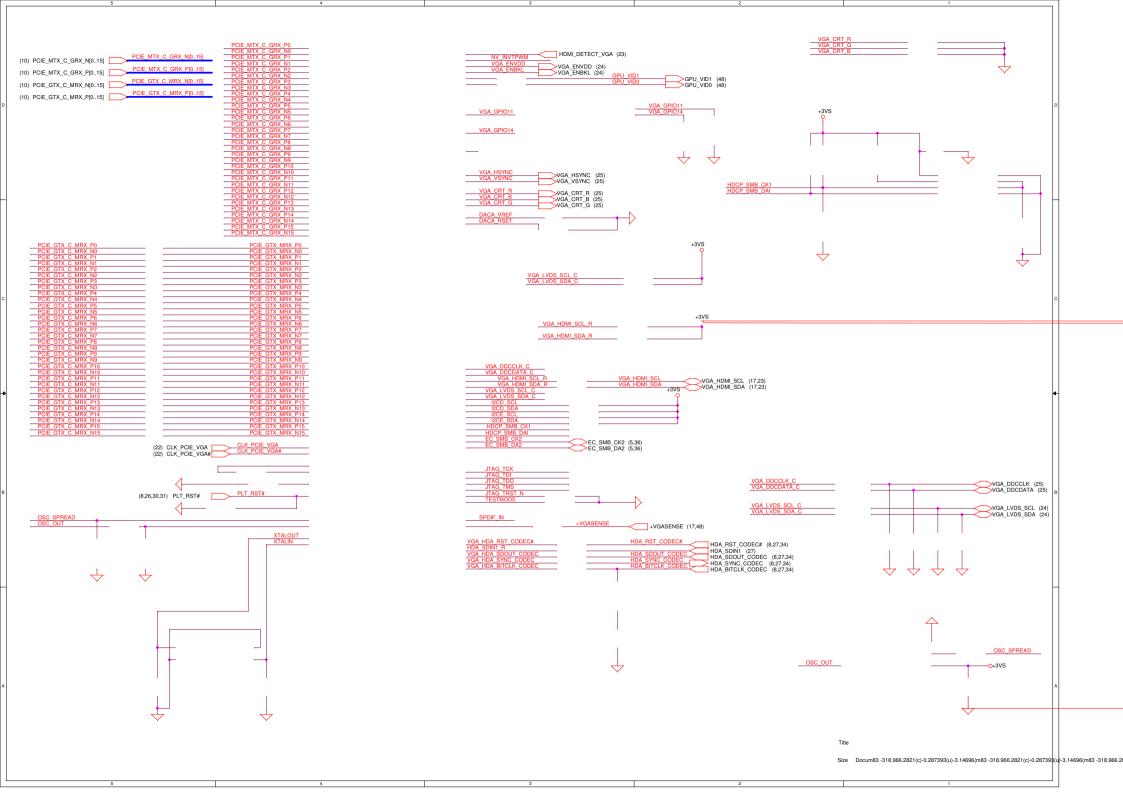


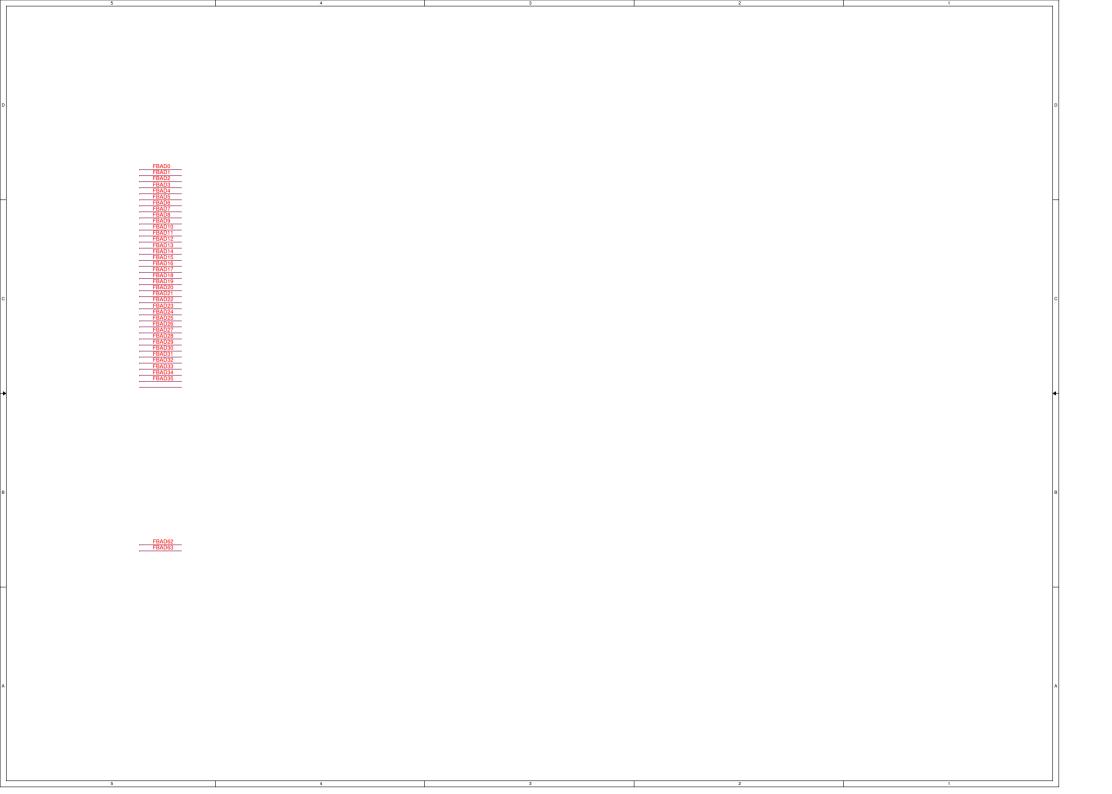


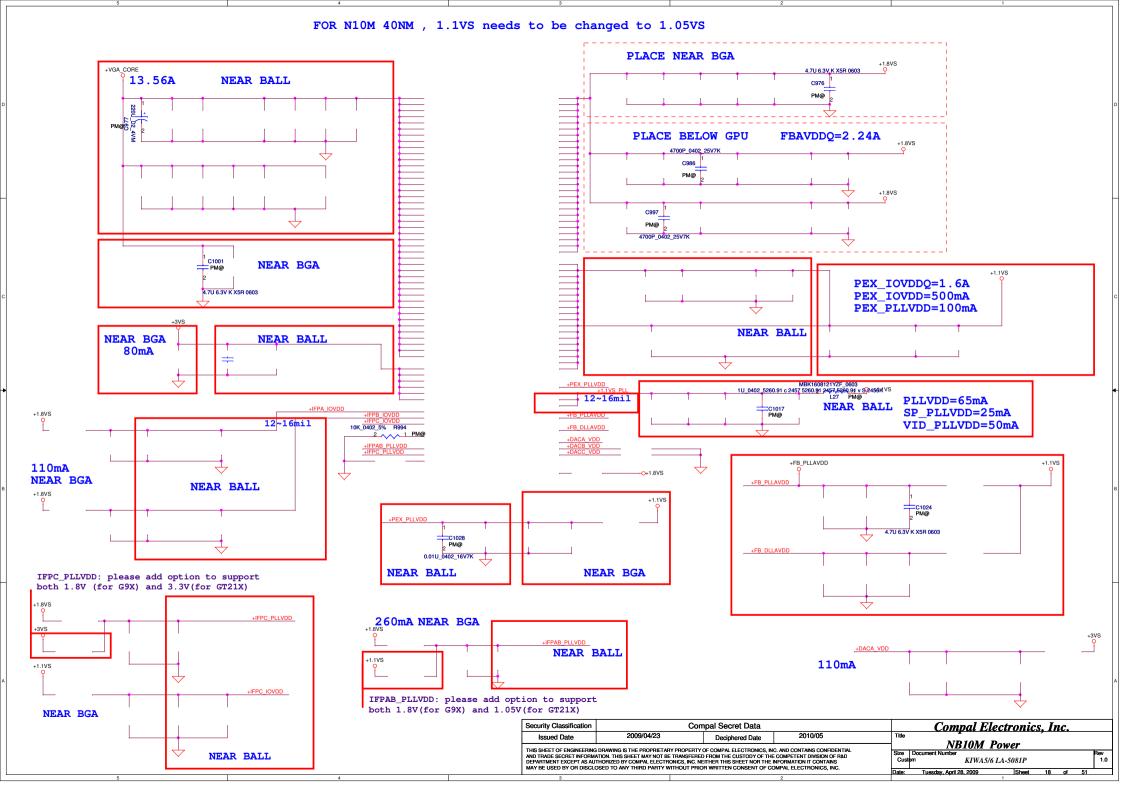


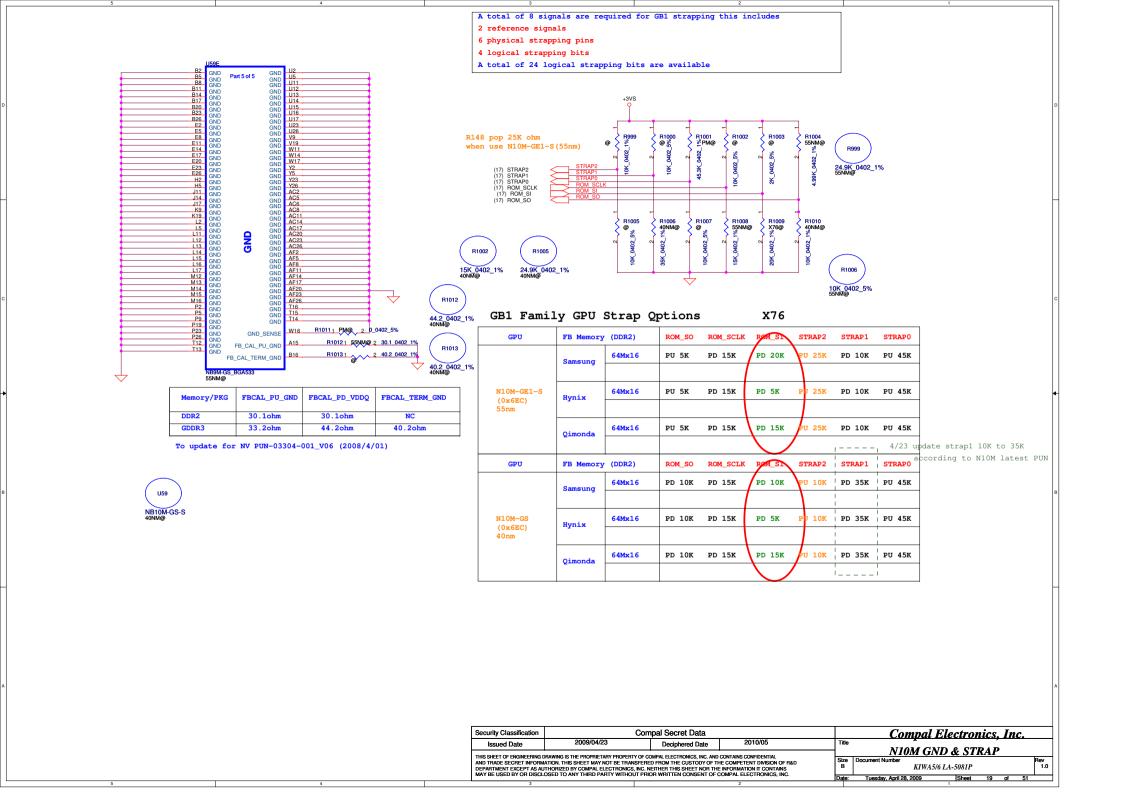


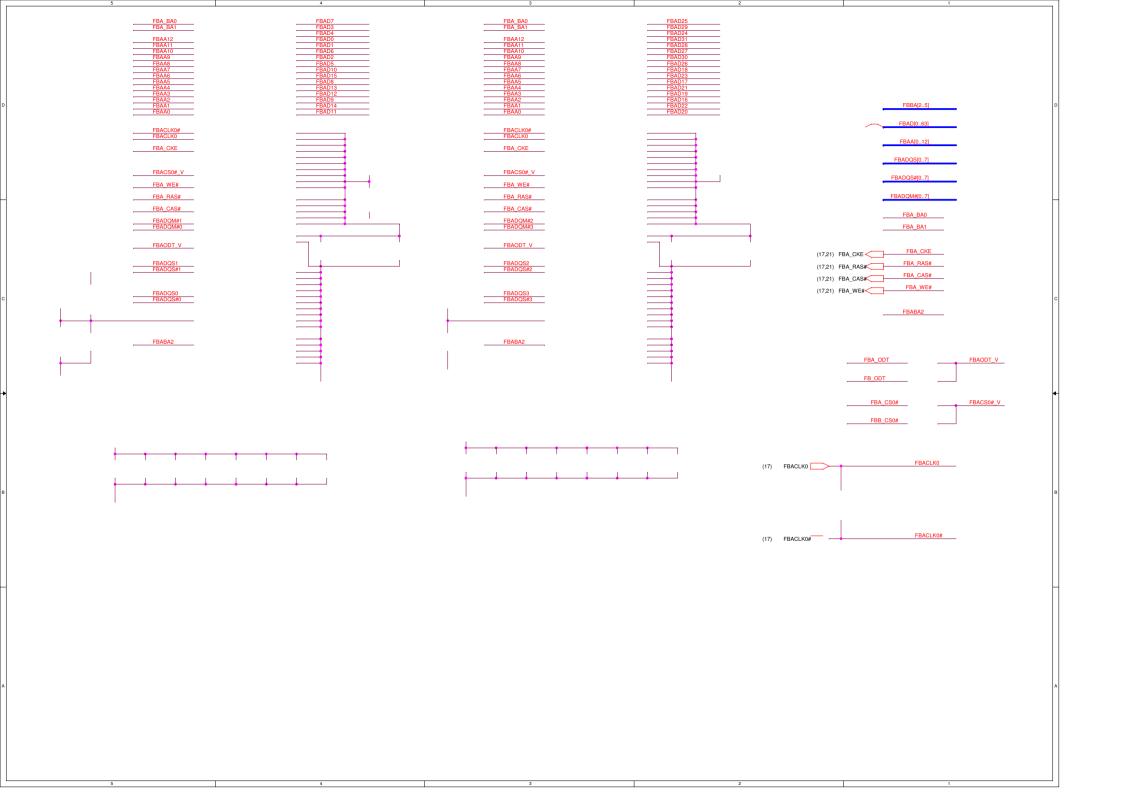


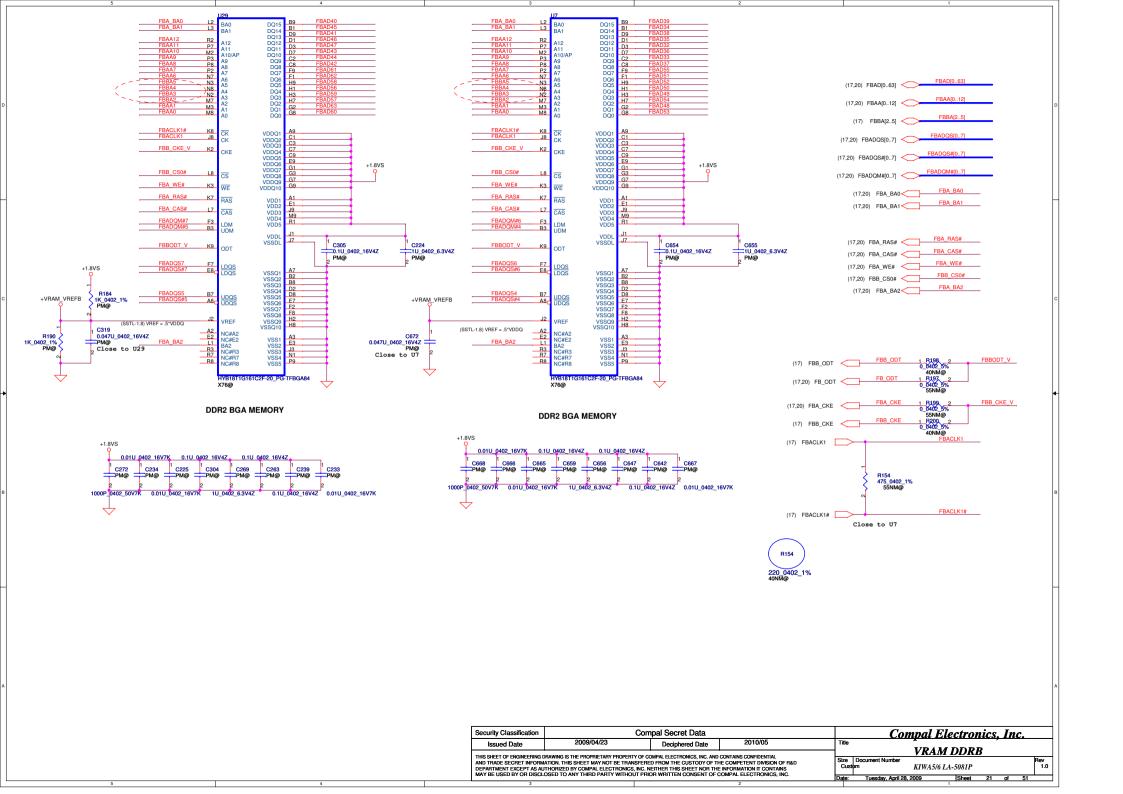


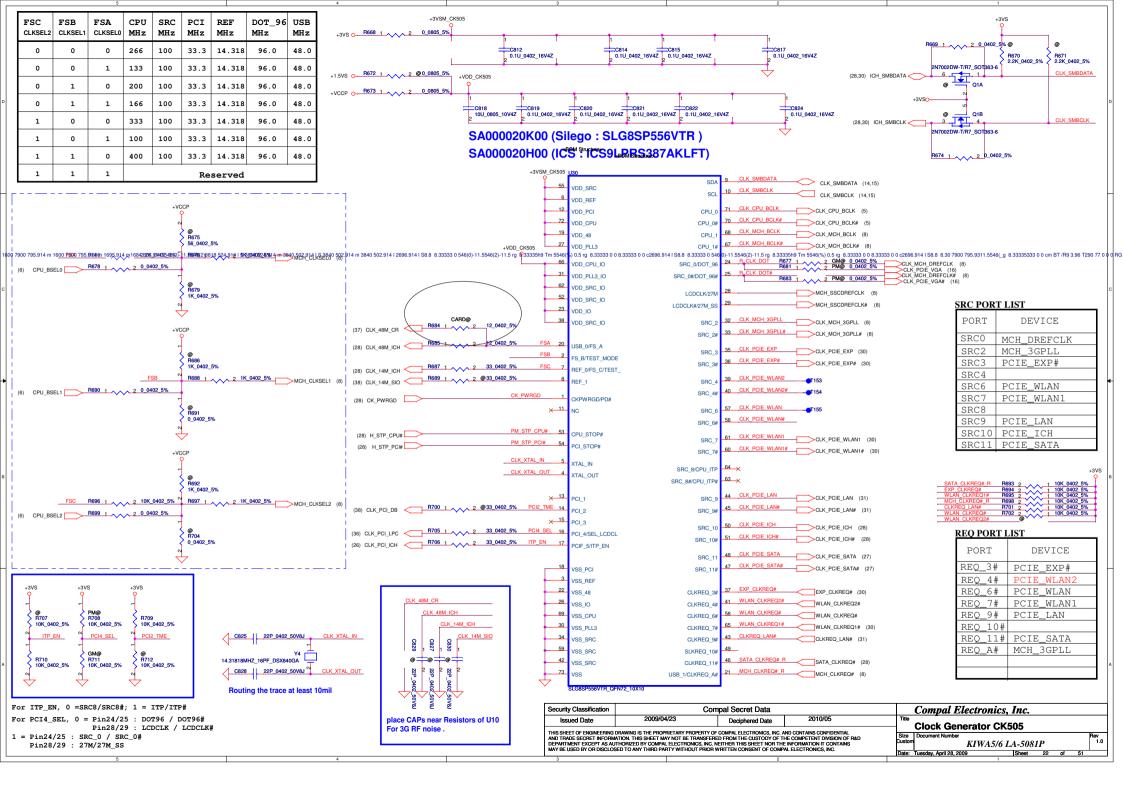


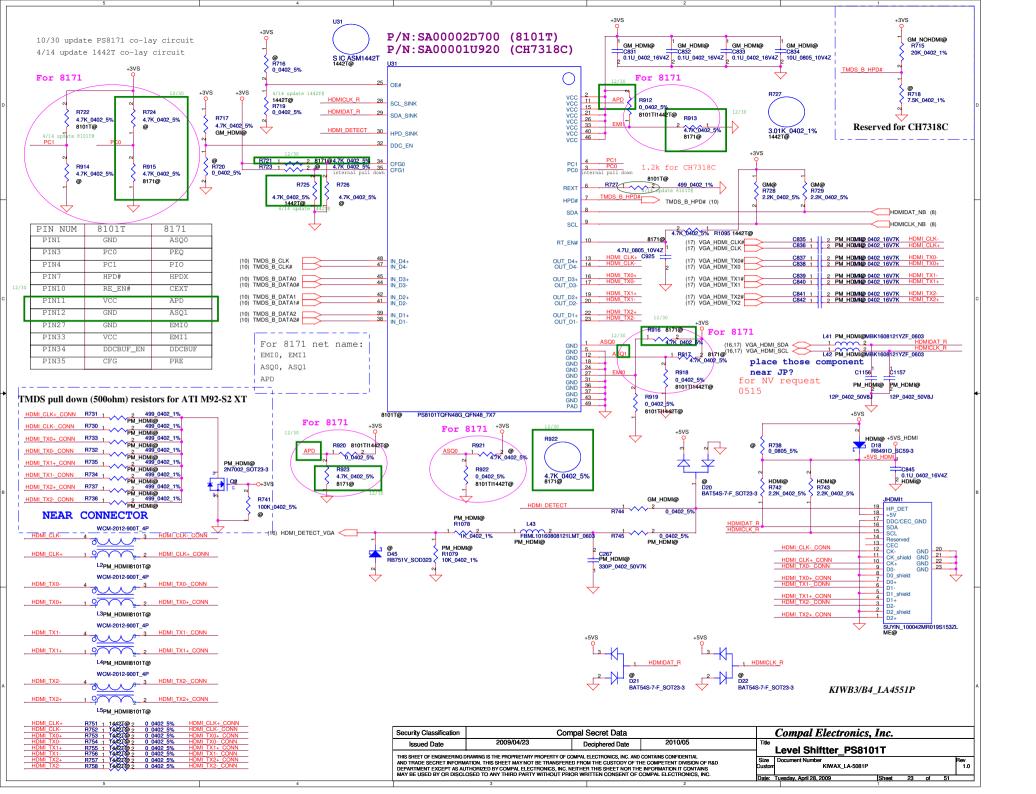


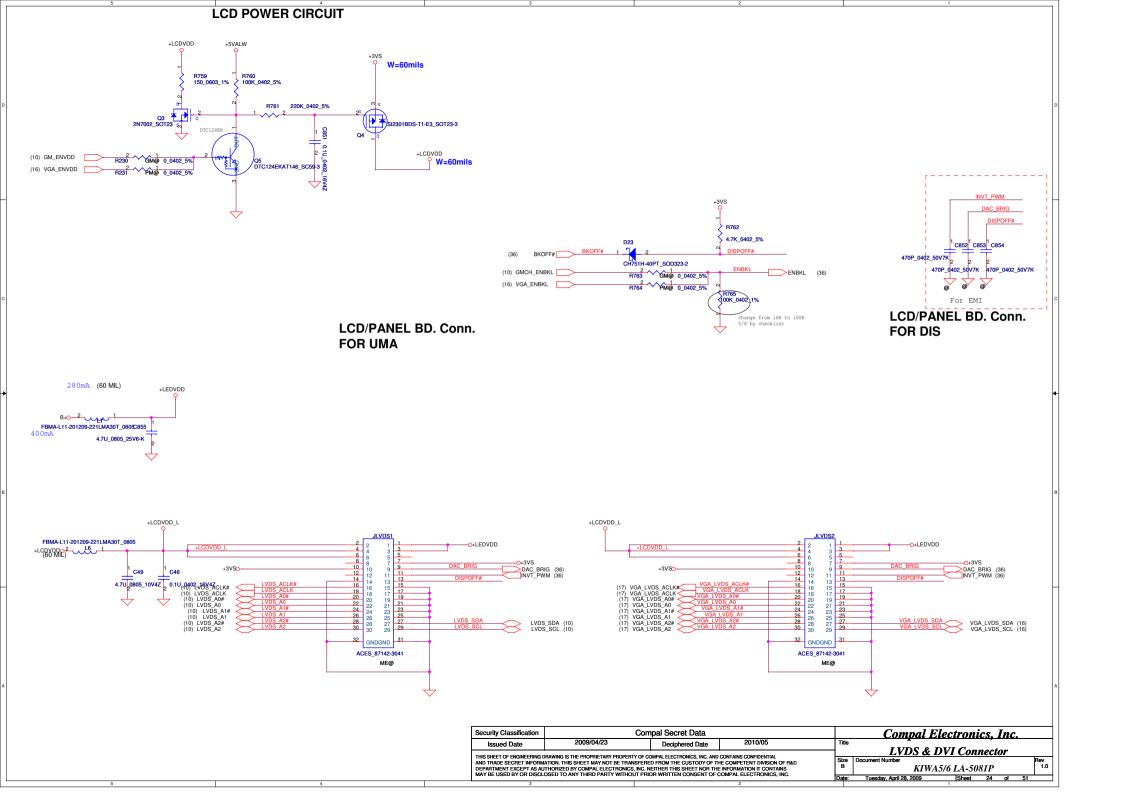


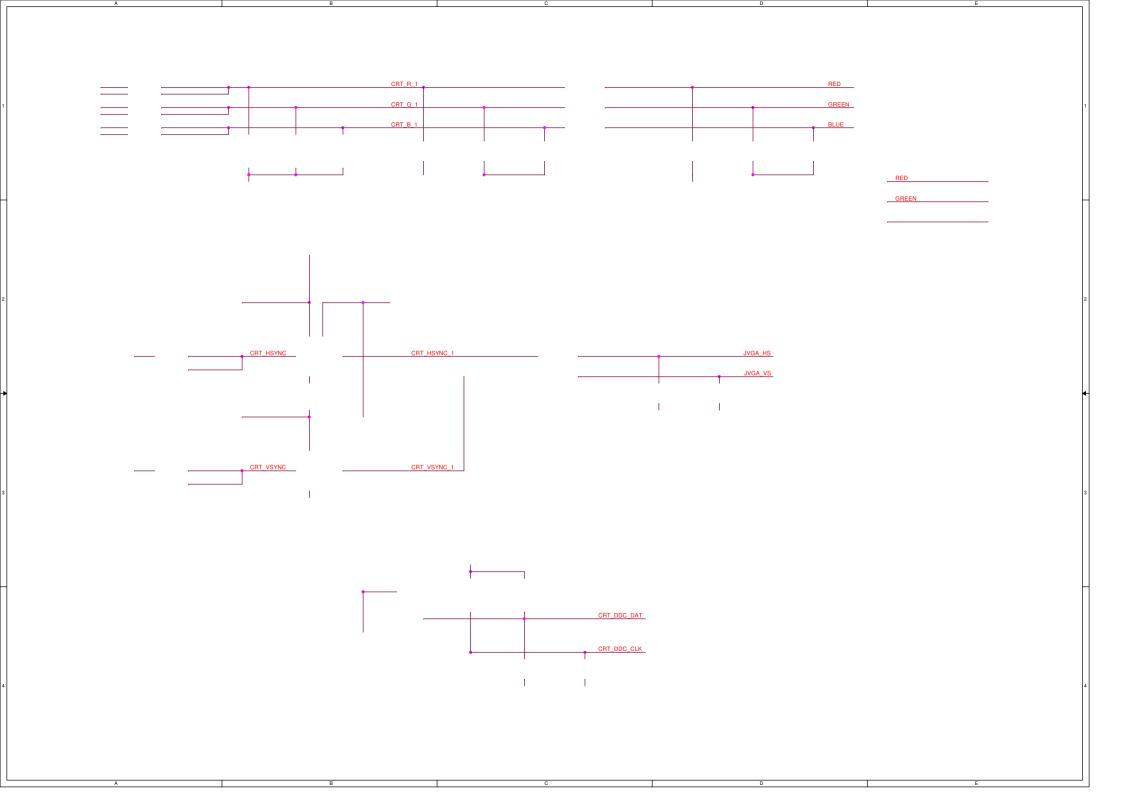


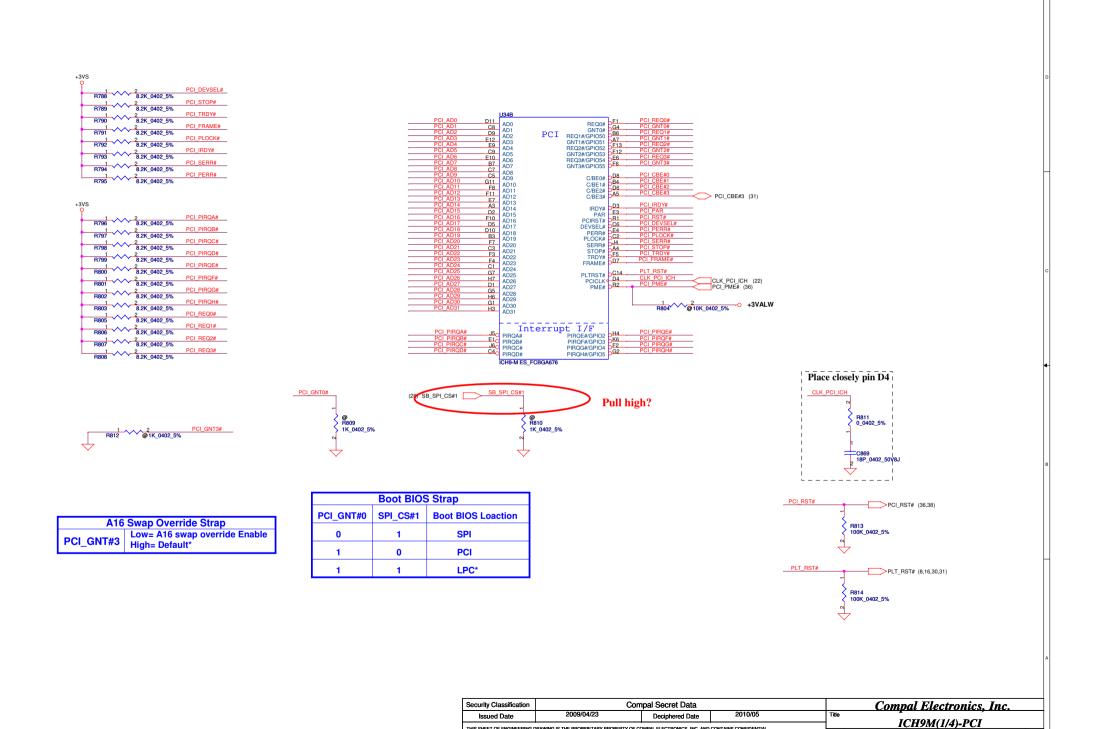










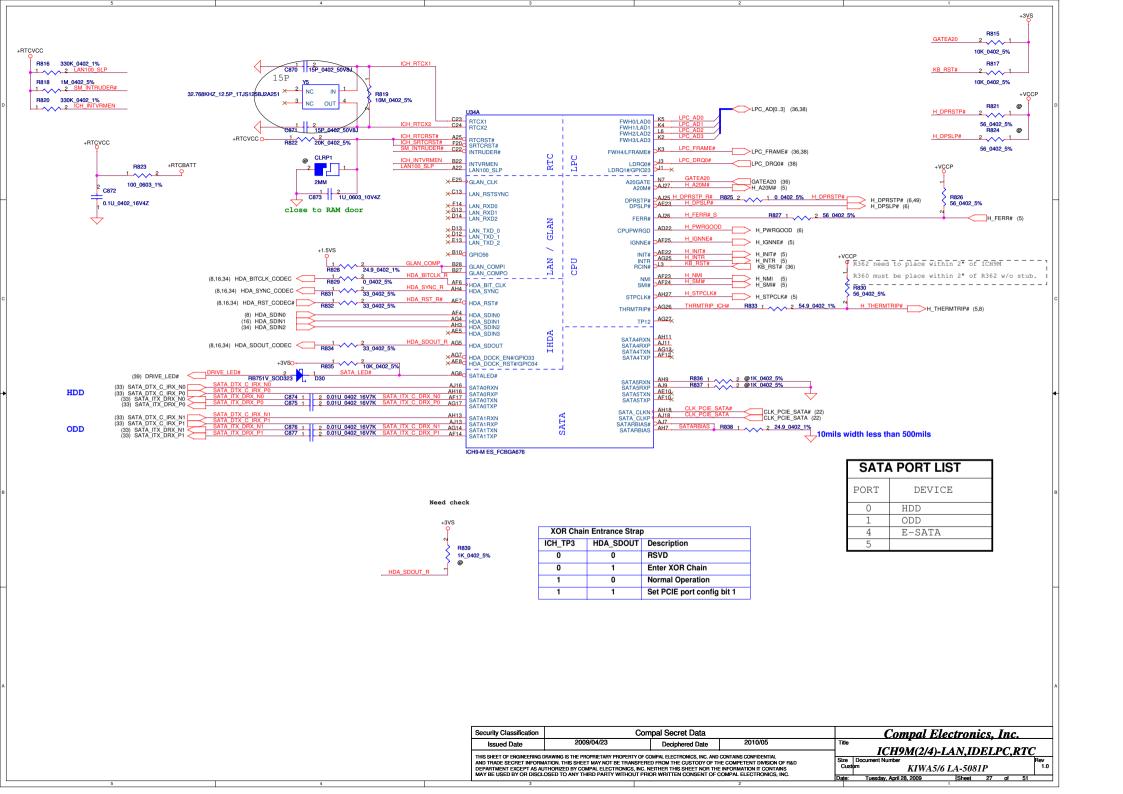


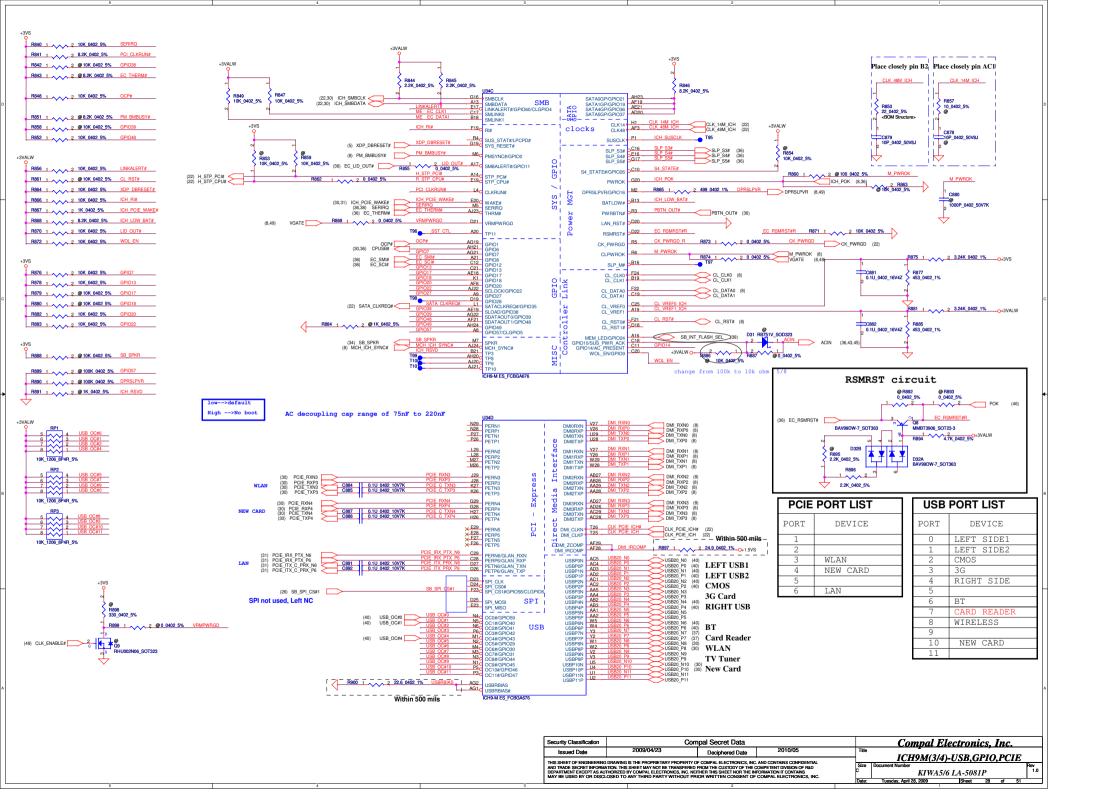
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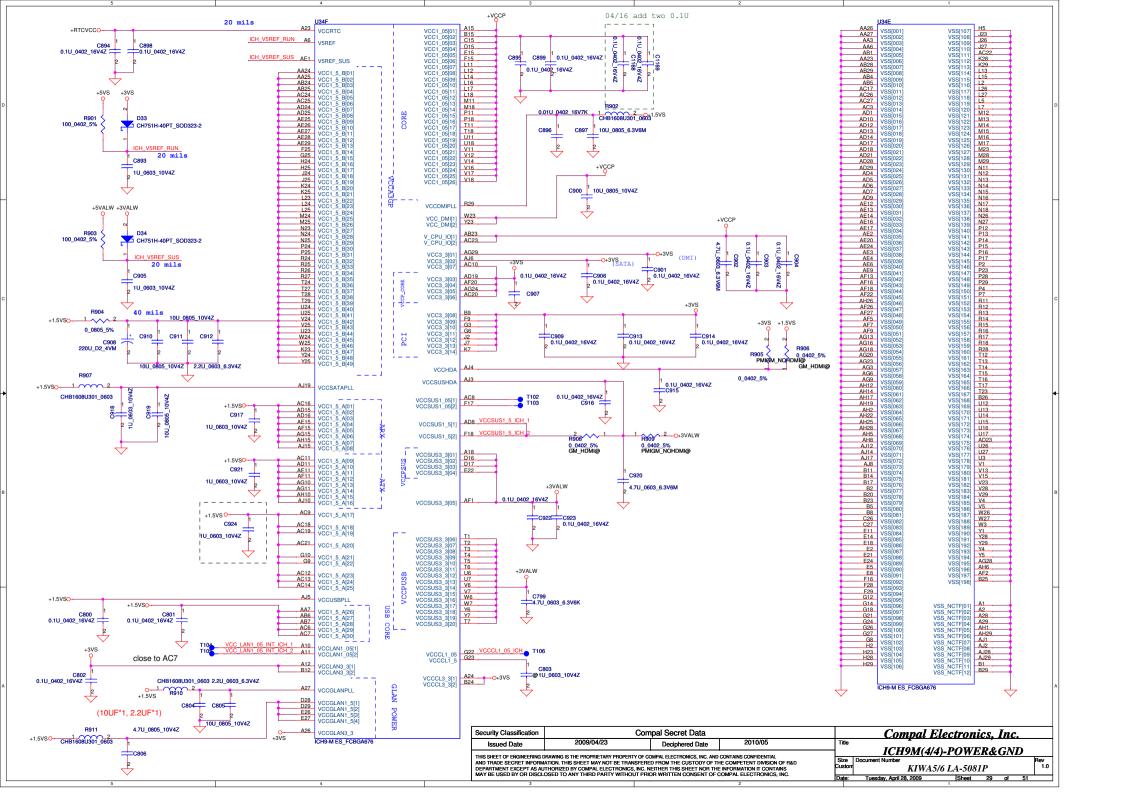
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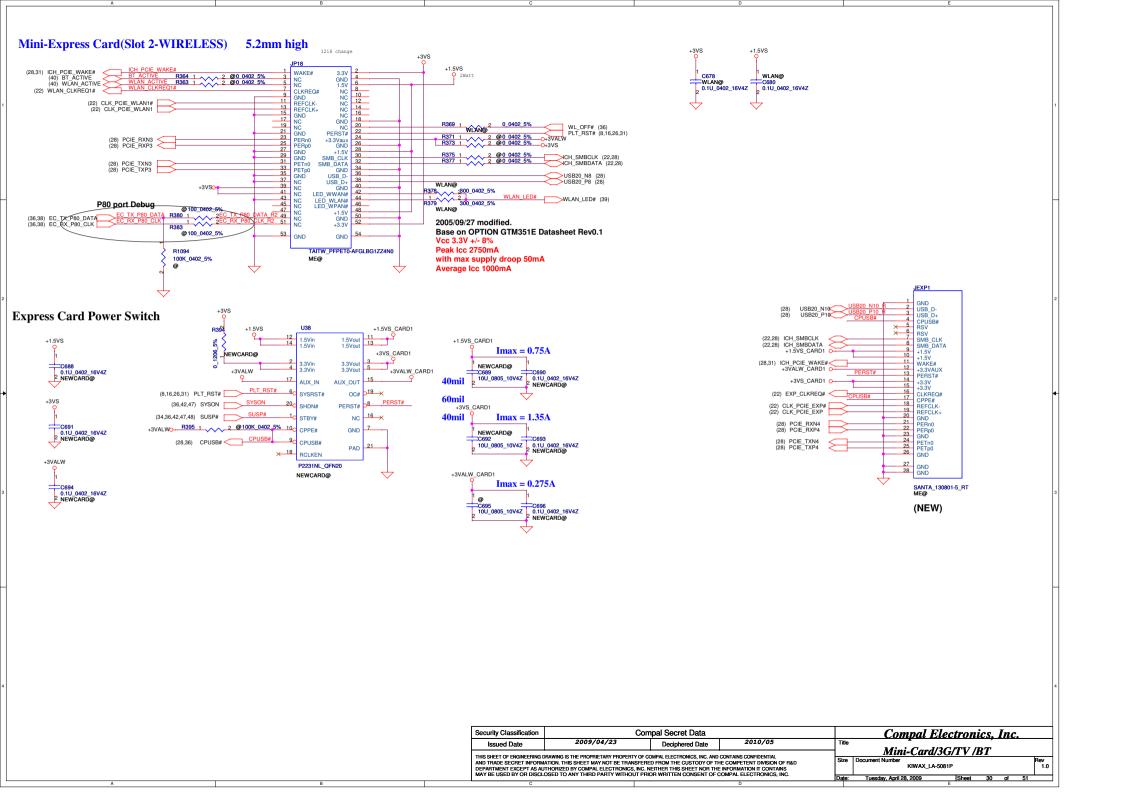
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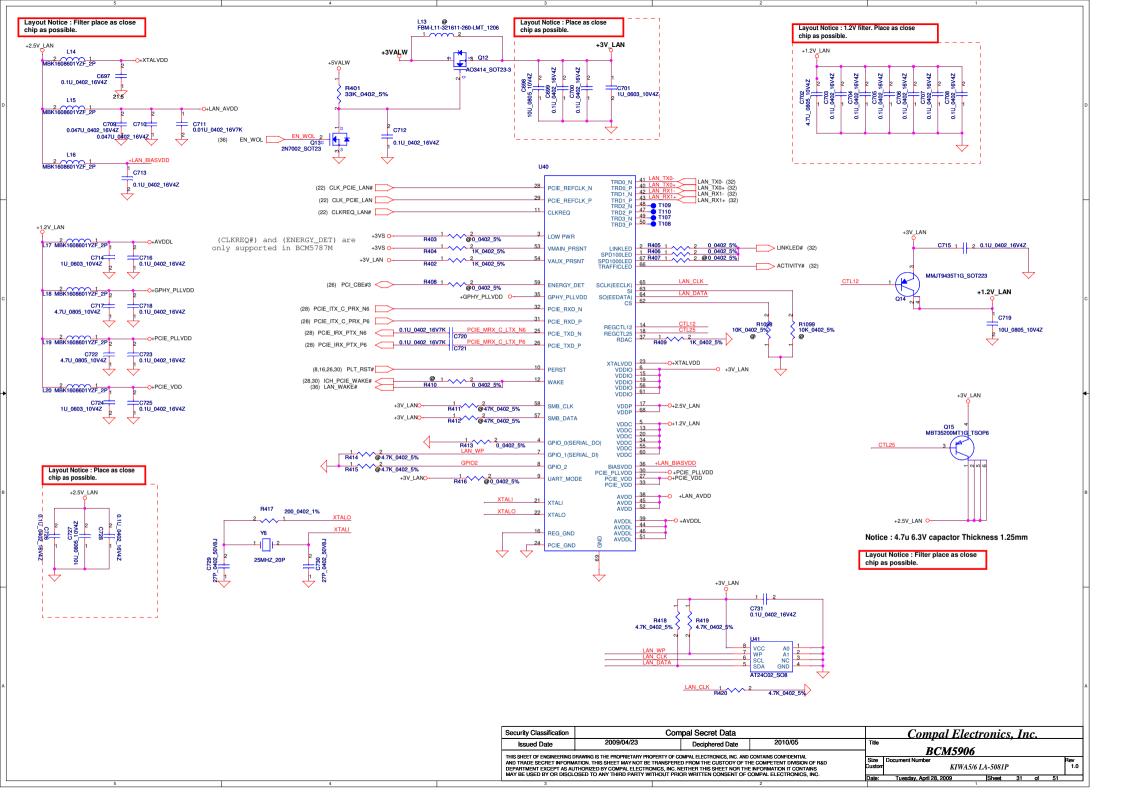
Tuesday, April 28, 2009 | Sheet 26 of

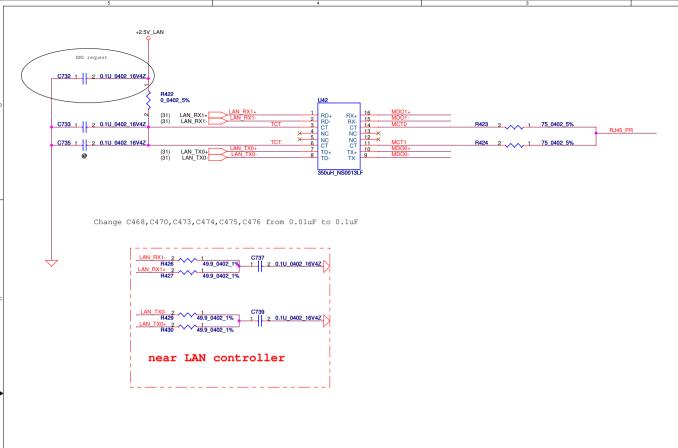




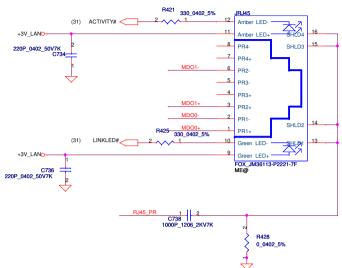




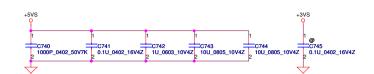




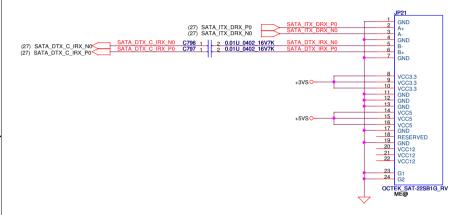
#### RJ45 CONN

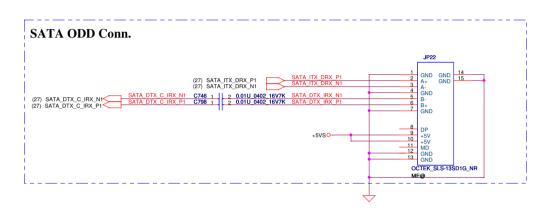


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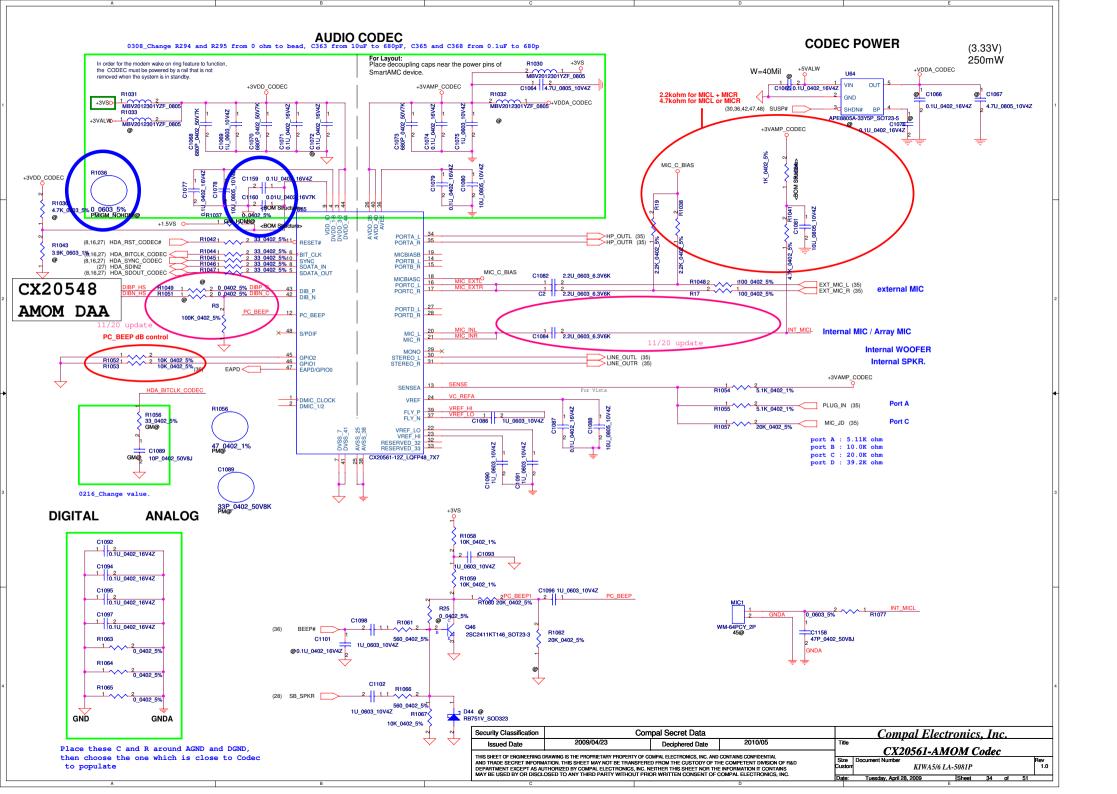


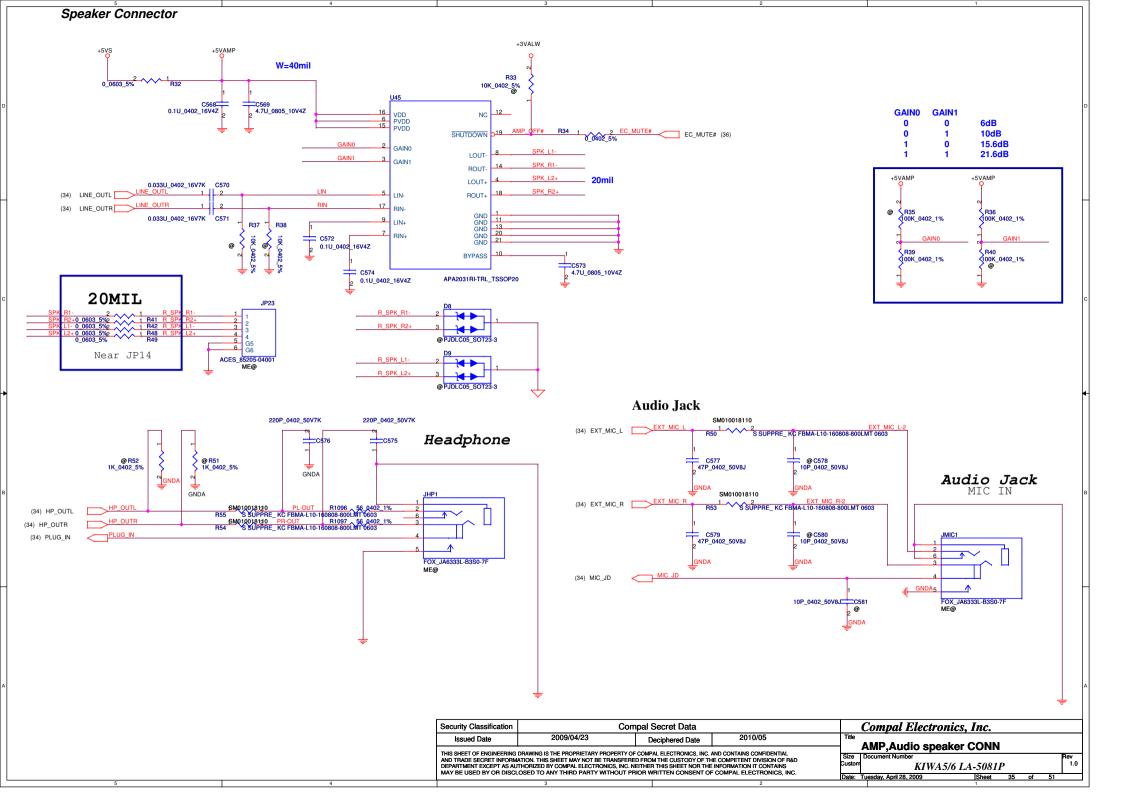
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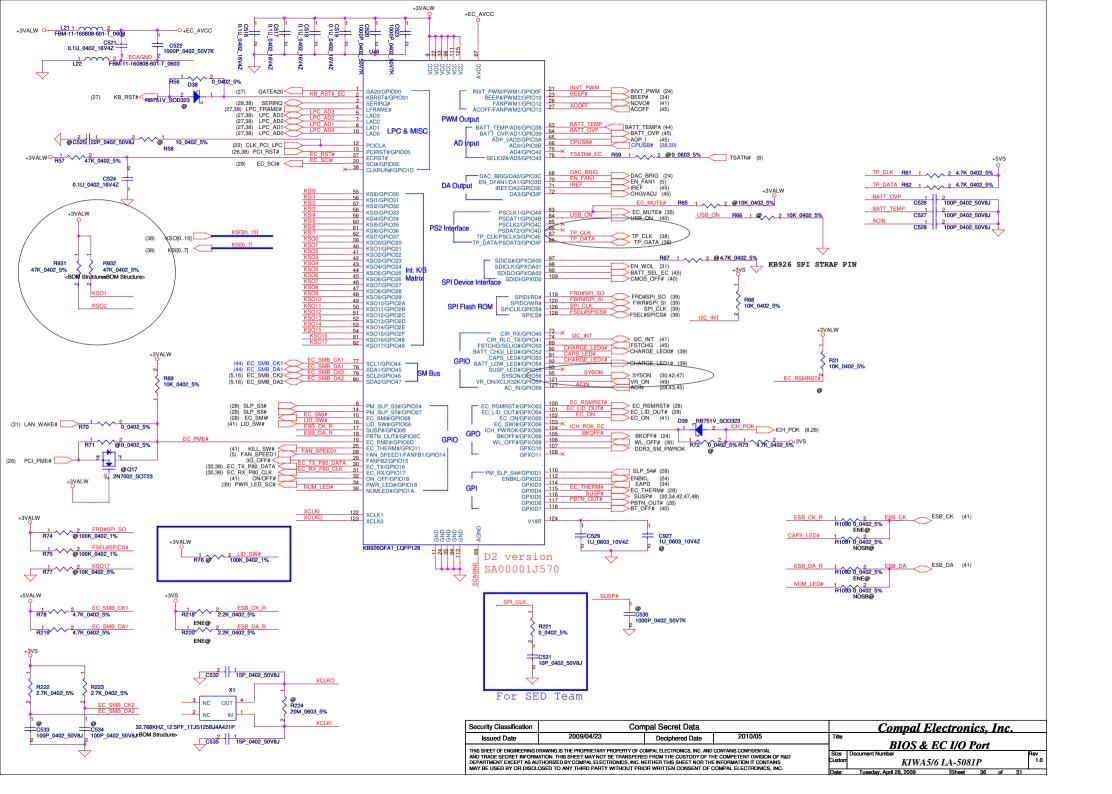




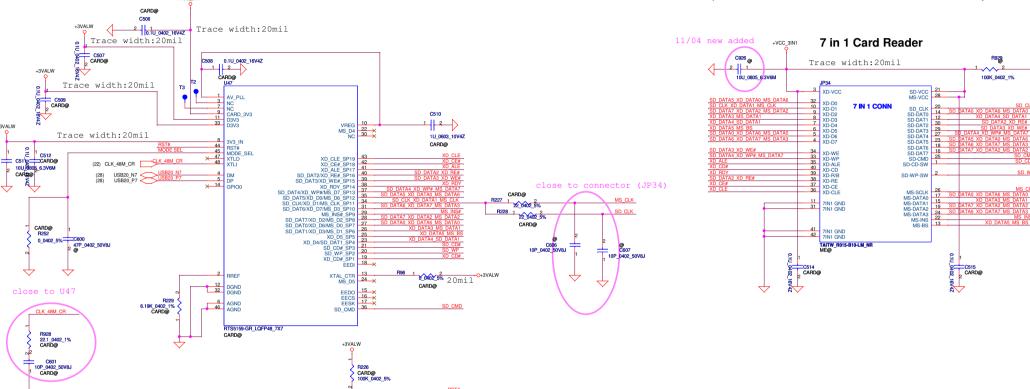
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# Card reader(XD/SD/MMC/MS/MS-Pro HD SD)



RTS5159 ap	plication	notes	V1.0	2008/09/30	by	Ryan	Chen	
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R252	C600	USB Auto De-link(*1)	MS Formatter(*2)	Description
0	NC	Yes		Recommended
NC	47pF	Yes	Yes	
NC	NC			Compatible with RTS5158E
NC	680pF	Yes		LED ON (*3)
10K	180pF			LED ON (*3)
10K	680pF		Yes	

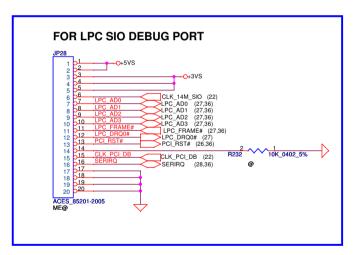
C513 CARD@ 1U\_0603\_10V4Z~D 2

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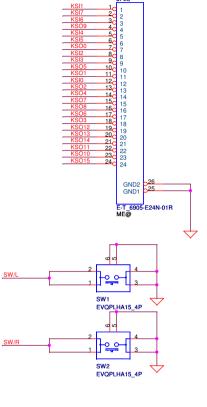
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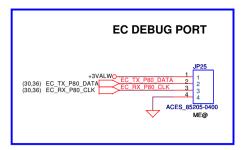
KSI[07]		KSI[07] (36)			
KSO[01	5]	KSO[015] (36)			
KSO2	C478 <sub>1</sub>	2 @100P_0402_50V8J	KSO1	C479 <sub>1</sub>	2 @ 100P_0402_50V8J
KSO15	C480 1	2 @100P_0402_50V8J	KSO7	C477 1	2 @100P_0402_50V8J
KSO6	C481 1	2 @100P_0402_50V8J	KSI2	C482 1	2 @ 100P_0402_50V8J
KSO8	C483 1	2 @100P_0402_50V8J	KSO5	C484 1	2 @ 100P_0402_50V8J
KSO13	C485 1	2 @100P_0402_50V8J	KSI3	C486 1	2 @ 100P_0402_50V8J
KSO12	C487 1	2 @100P_0402_50V8J	KSO1	4 C488 1	2 @ 100P_0402_50V8J
KSO11	C489 1	2 @100P_0402_50V8J	KSI7	C490 1	2 @ 100P_0402_50V8J
KSO10	C491 <sub>1</sub>	2 @100P_0402_50V8J	KSI6	C492 <sub>1</sub>	2 @100P_0402_50V8J
KSO3	C493 1	2 @100P_0402_50V8J	KSI5	C494 <sub>1</sub>	2 @100P_0402_50V8J
KSO4	C495 1	2 @100P_0402_50V8J	KSI4	C496 1	2 @100P_0402_50V8J
KSI0	C497 1	2 @100P_0402_50V8J	KSOS	C498 1	2 @ 100P_0402_50V8J
KSO0	C499 1	2 @100P_0402_50V8J	KSI1	C500 1	2 @ 100P_0402_50V8J
					]

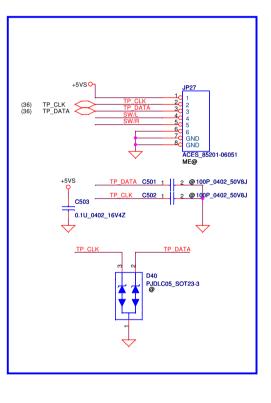
CONN PIN define need double check



#### Source:SP01000IE00 2nd source:SP01000IF00 30 pin

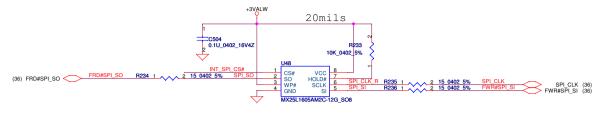




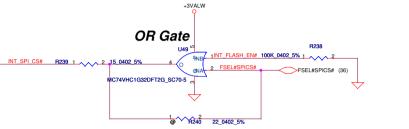


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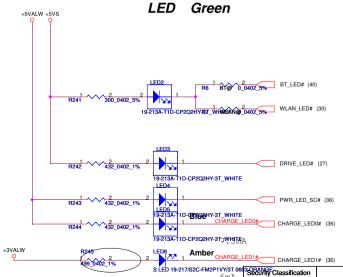
#### FOR EC 16M SPI ROM

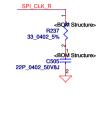


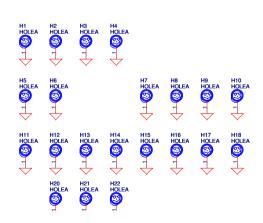
INP	UT	OUTPUT
A	В	Y
L	L	L
н	L	н
L	н	н
н	н	н







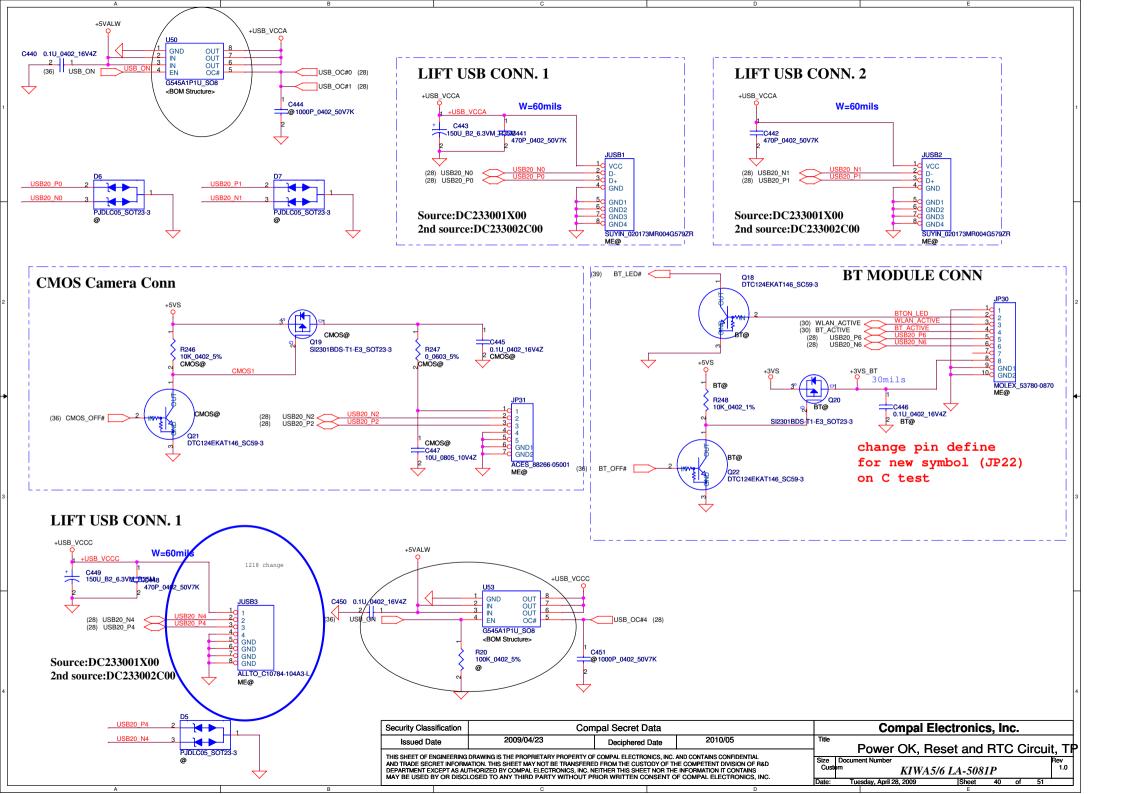


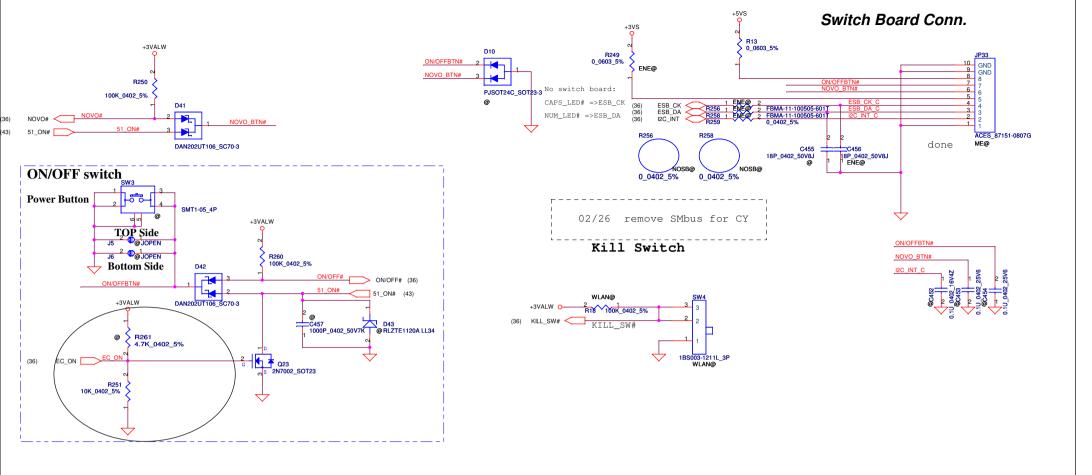


Tuesday, April 28, 2009

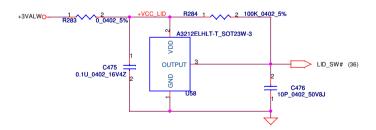
Sheet 39 of

Compal Secret Data Compal Electronics, Inc. 2009/04/23 2010/05 Deciphered Date LED/EC SPI ROM THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COURAL ELECTRONICS, INC, AND CONTAINS COMPIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE THANDSFERED FROM THE CUSTODY OF THE COMPRETED TOMISON OF RAD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPA. 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 LECTRONICS, INC. KIWA5/6 LA-5081P

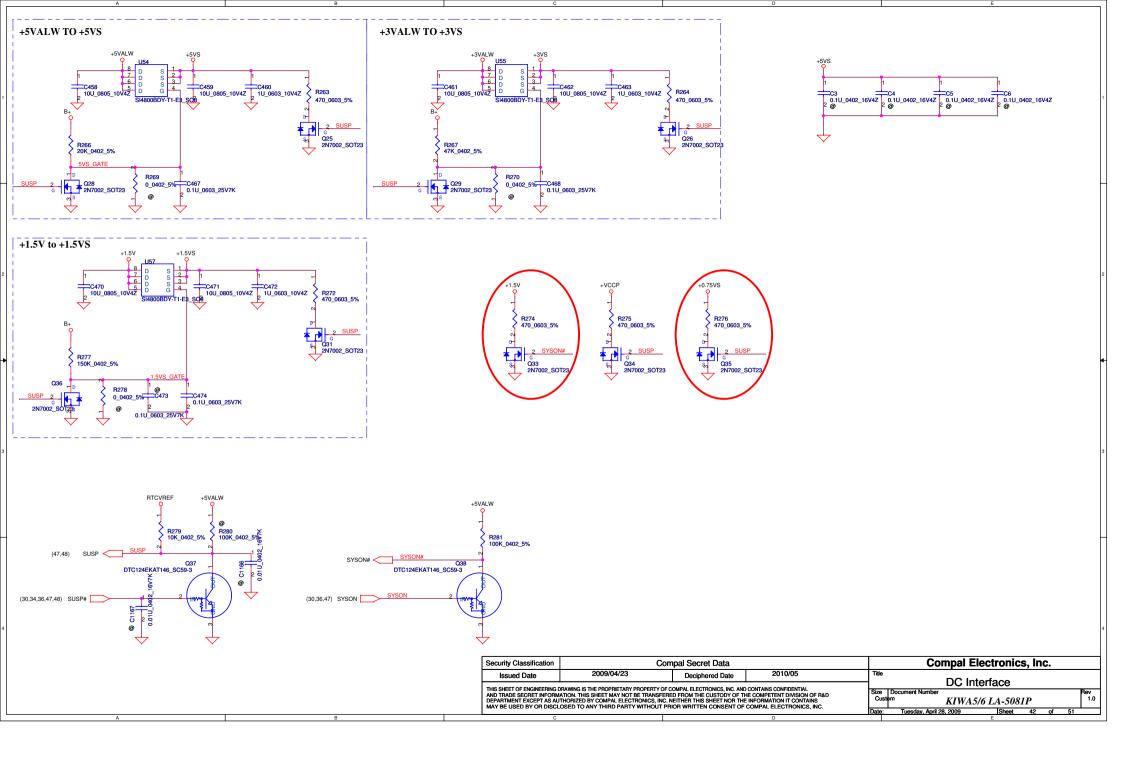


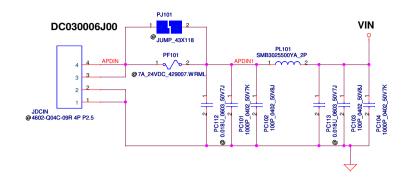


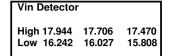
## Lid Switch

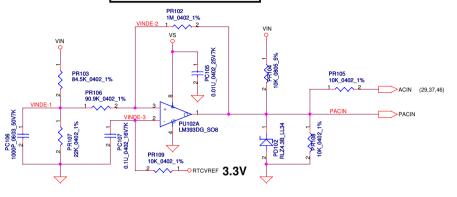


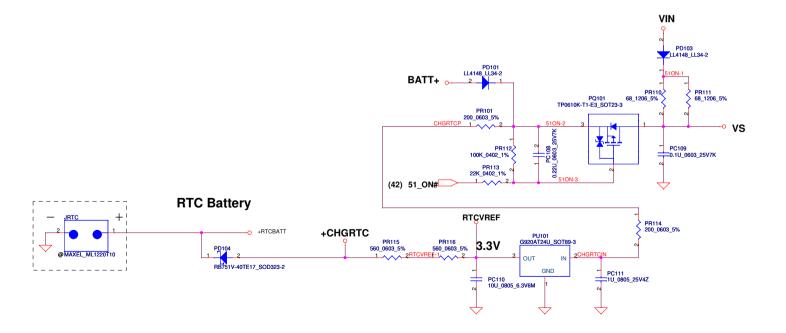
Security Classification	Compal Secret Data         2009/04/23         Deciphered Date         2010/05         Title		Compal Electronics, Inc.			
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AND TRADE SECRET INFORM DEPARTMENT EXCEPT AS AU	DRAWING IS THE PROPRIETARY PROPERTY OF IATION, THIS SHEET MAY NOT BE TRANSFERE ITHORIZED BY COMPAL ELECTRONICS, INC. N LOSED TO ANY THIRD PARTY WITHOUT PR	D FROM THE CUSTODY OF THE	E COMPETENT DIVISION OF R&D INFORMATION IT CONTAINS	Size Custon	Document Number	Rev 1.0



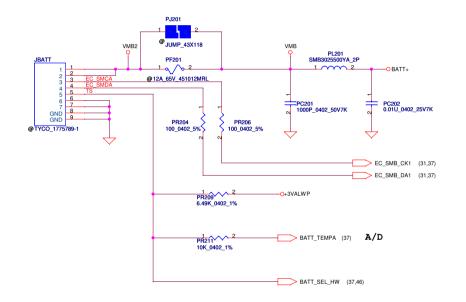






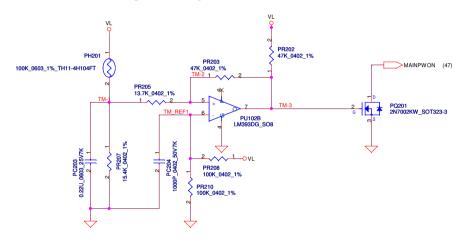


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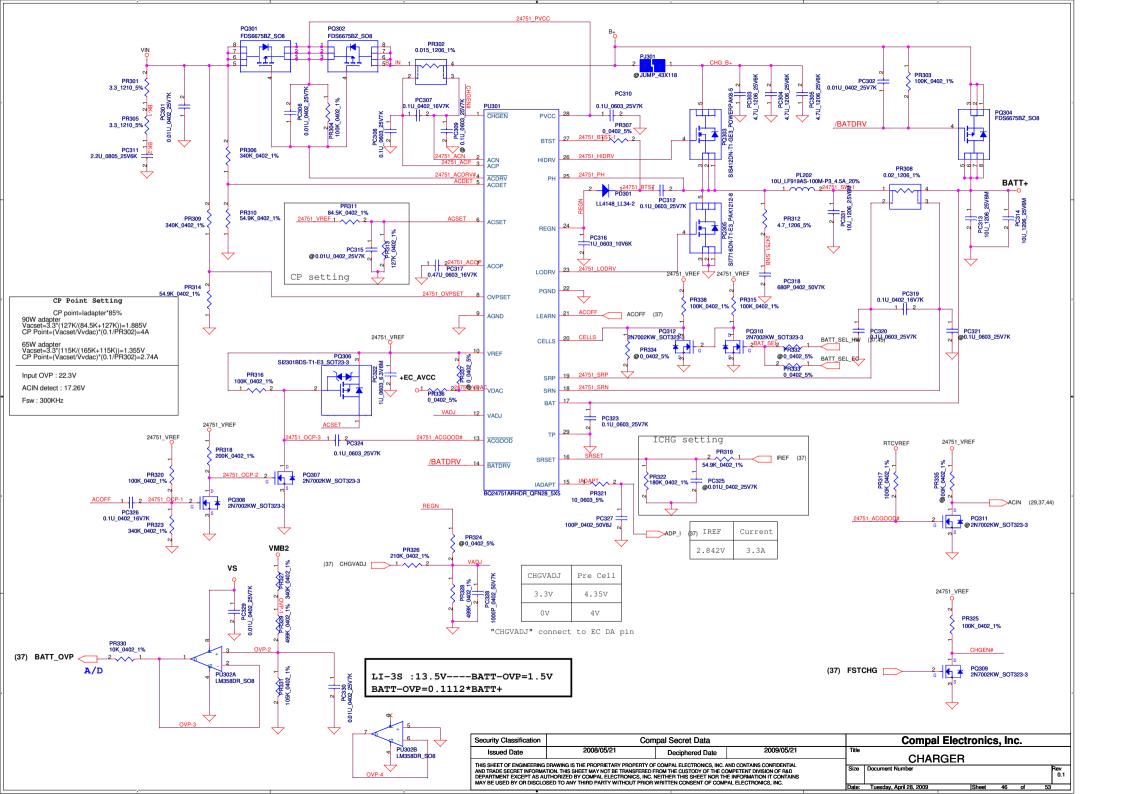


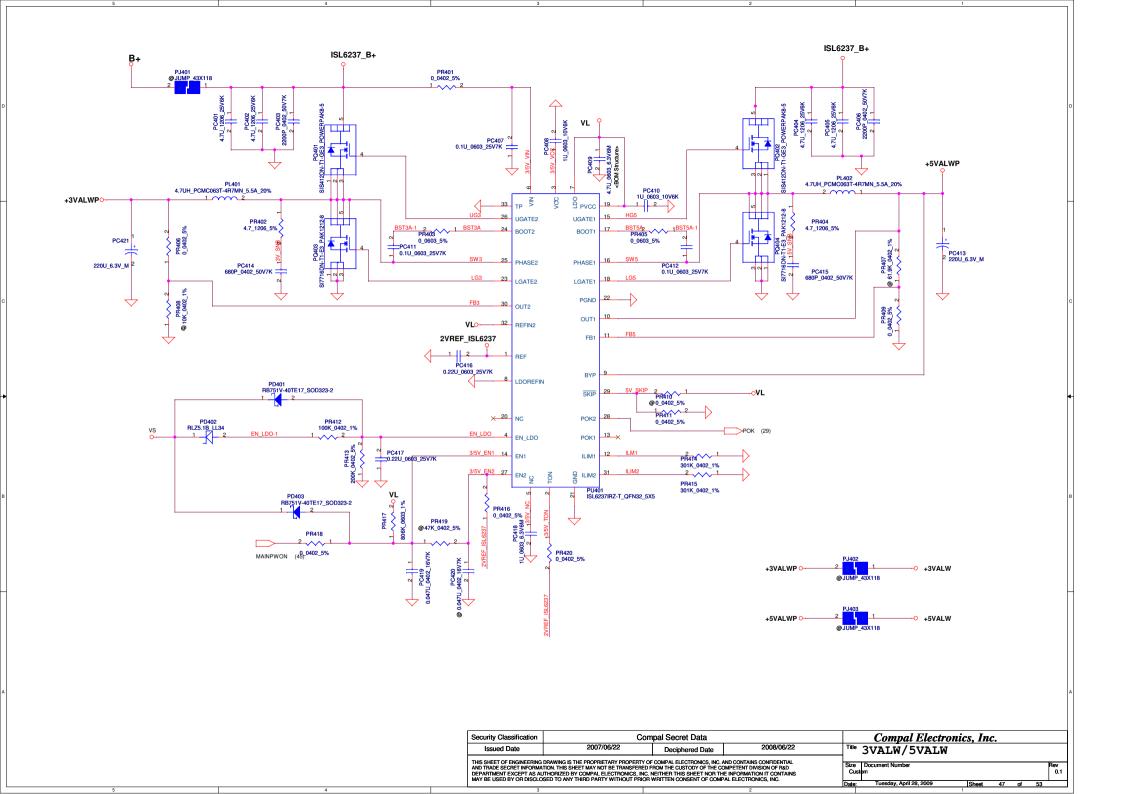
#### PH1 under CPU botten side :

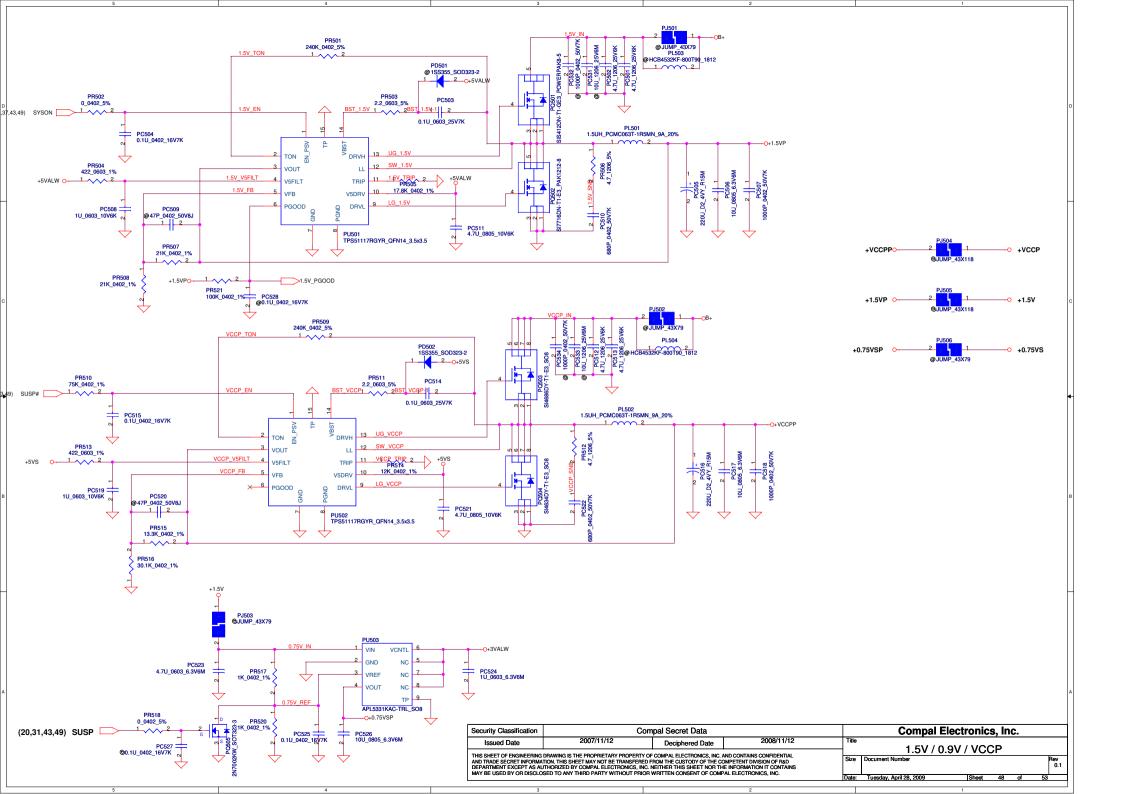
CPU thermal protection at 92 degree C Recovery at 56 degree C  $\,$ 

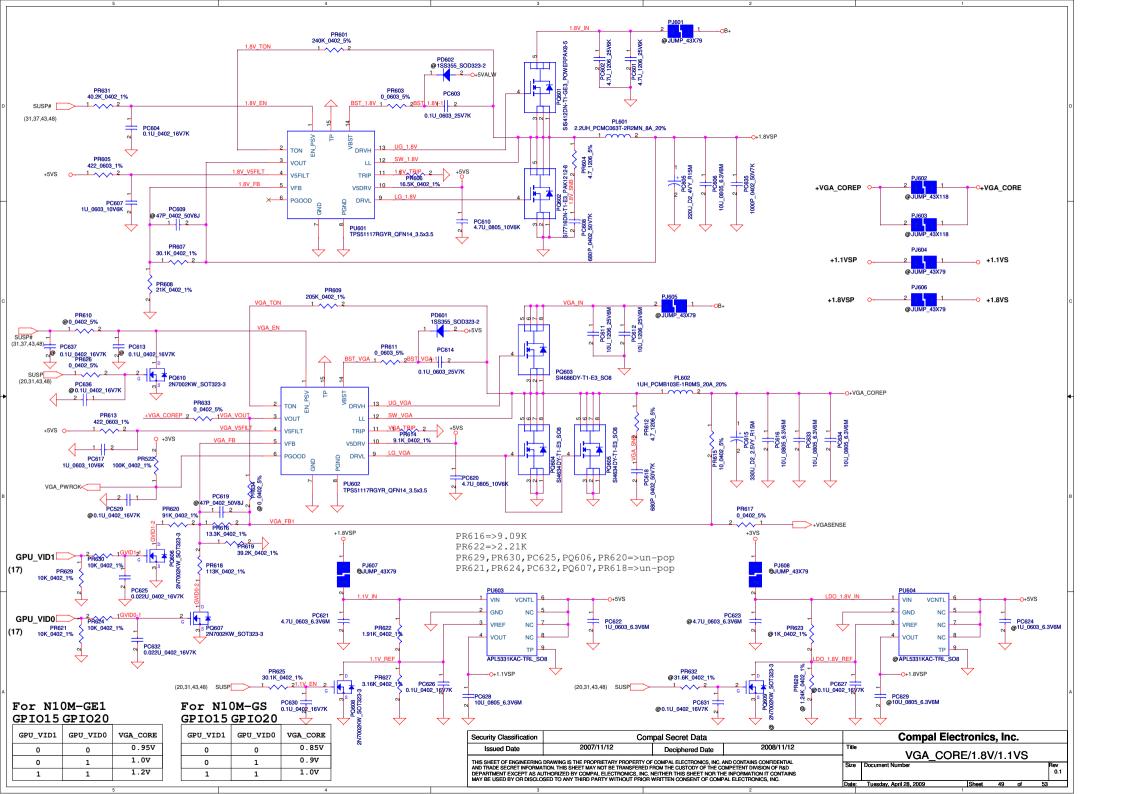


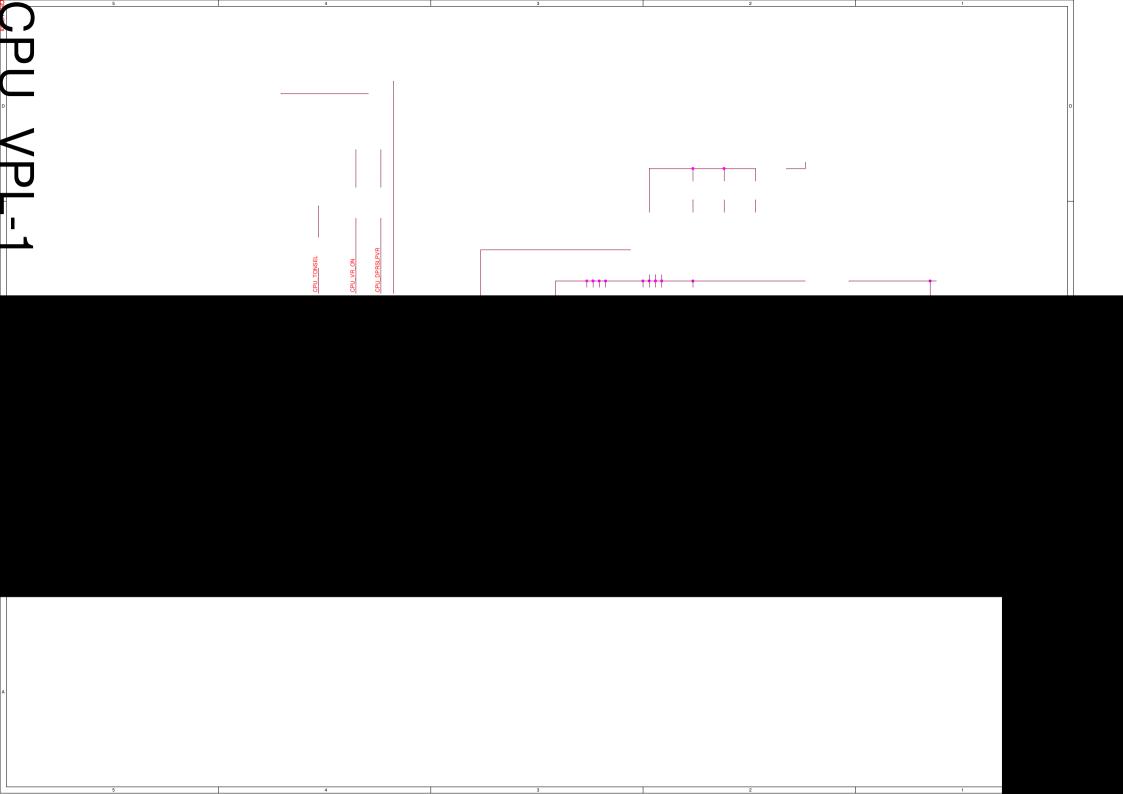
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Version change list (P.I.R. List) Page 1 of 2 for PWR Fixed Issue Reason for change Rev. PG# Modify List Phase Item Date 2009.01.14 modify battery select circuit add P0312 and PR338 1 change +1.1VS voltage to +1.05V change P622 to 2.21K only for N10M-GS(40nm) 2 2009.01.14 3 5 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21 Compal Electronics, Inc. Security Classification Compal Secret Data 2007/09/20 2008/09/20 Issued Date Deciphered Date PIR (PWR) THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SCIENT INFORMATION. THIS SHEET MAY VOT BE TRANSFERED FROM THE CLISTON OF THE COMPETER TOWN OF RAD 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 WHITTEN CONSENT OF COMPAL ELECTRONICS, INC. Rev 0.1 CustomKIWAX\_LA-5081P Tuesday, April 28, 2009

NO DATE PAGE	MODIFICATION LIST	PURPOSE	
1 12/10 39	Remove D11, and add R6, R7		
12/10 36	change PWR_LED_SC# from U46.38 to U46.34		
2 1/15 39	modify H18 hold size, and change the H5 \ H6 and H18 hold type.		
42	add 4 CAPs C3, C4, C5 and C6 for EMI.		
35	change C572 and C574 footprint from 0603 to 0402.		
34	add R25 for BEEP# test		
3 3/16 06	add R1089, C1162 and H_DPRSTP#_R		
	add C1163, C1164,and C1165 for EMC request.		
0.8	change H_DPRSTP# to H_DPRSTP#_R		
19	P19 add Bom structure 40nm@ GPU and 55nm@ GPU		
	R999 change to 24.9K		
23	add R1095 pull high		
35	swap HP_OUTL and HP_OUTR		
36	add R1090, R1091, R1092, R1093		
	CAPS_LED#, NUJM_LED#, ESB_CK_R, and ESB_DA_R		
41	add R256, R258 Bom configuration		
	Remove CY SMBus		
42	add C1166, C1167 for EMC request.		
4/20 27	R829 changed to Oohm.		
0.8	R80 changed to 33ohm		
34	R1044 changed to 33ohm		
	R1056 changed to 33ohm		
	C1089 changed to 10P		

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	2				Tuesday, April 28, 2009 Sheet 51 of	51	