

Compal confidential

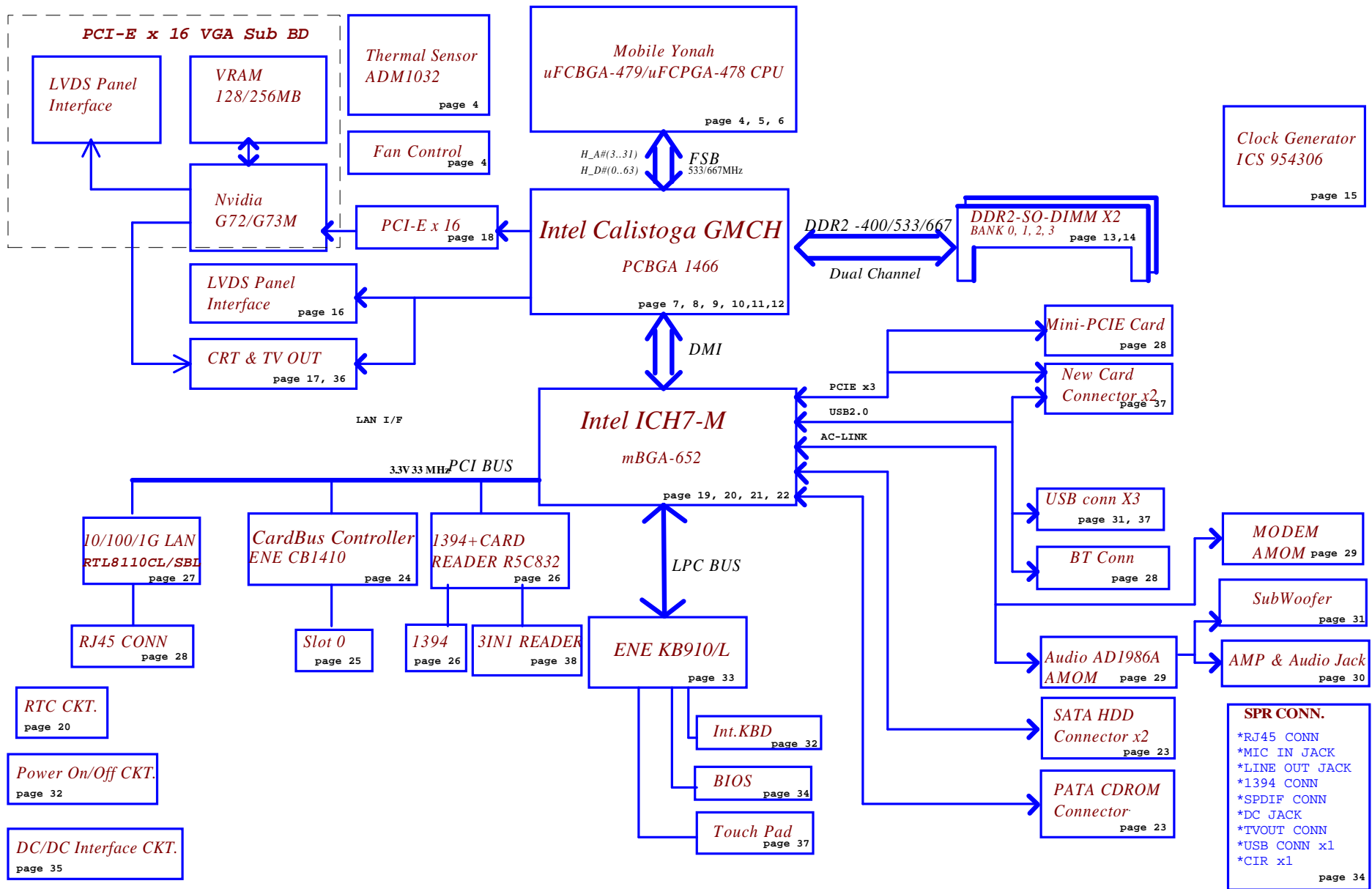
IGL50/51 Schematics Document

Mobile Yonah uFCPGA with Intel
Calistoga_GM/PM+ICH7-M core logic

2006-05-15

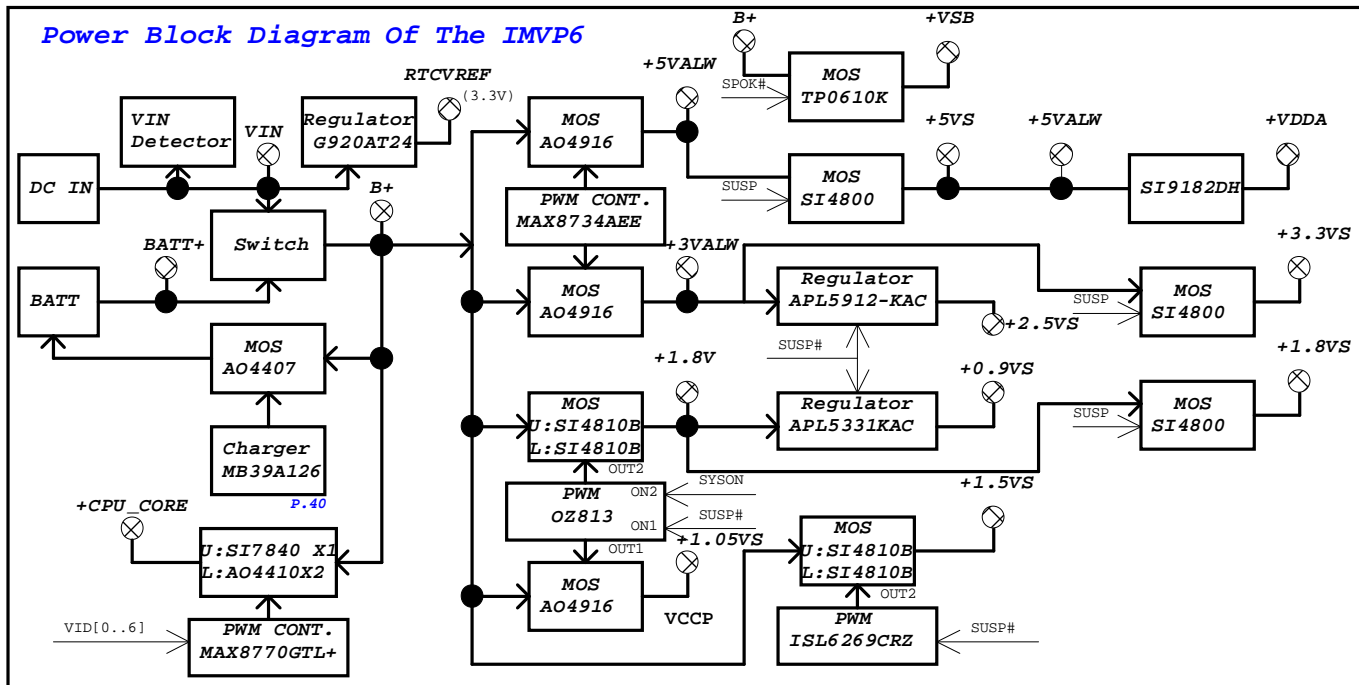
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Power Block Diagram Of The IMVP6



PCI DEVICES

EXTERNAL	IDSEL#	REQ/GNT#	PIRQ
CARD BUS CB1410	AD20	2	PCI_PIRQA#
CARD READER & 1394 R5C832	AD22	0	PCI_PIRQG# PCI_PIRQH#
LAN CONTROLLER RTL8110SBL/CL	AD17	3	PCI_PIRQF#

PCIE LANE

LANE	DEVICE
1	Express Card
2	Mini Card

I2C / SMB Address

DEVICE	ADDRESS R/W
KB910/L (SM1-Pulled-Up 5V)	
AT24C16AN	A3/A2 H
SMART BATTERY	17/16 H
KB910/L (SM2-Pulled-Up 3.3V)	
ADM1032AR	99/98 H
G7xM (I2CC-Pulled-Up 3.3V)	
G781-1 (RESERVED)	9B/9A
ICH7M SM Bus	
ICS9LPR325AKLFT	D3/D2 H (3.3V)
DDR II DIMM0	A1/A0 H (3.3V)
DDR II DIMM1	A3/A2 H (3.3V)
Express Card	NC (2.5V)
Mini-Express	NC (2.5V)

USB

PORT	DEVICE
0	LEFT SIDE
1	BLUE TOOTH
2	RIGHT SIDE
3	JP810
4	RIGHT SIDE
5	CMOS
6	RIGHT SIDE

BOM Structure

MARK	FUNCTION
@	NC FOR ALL
EXP@	PCIE-NEW CARD
BT@	BLUE TOOTH
UMA@	Internal 945GM
VGA@	External G7xM
SUBWOOFER@	SUBWOOFER
HGT30@	HGT30
CB@	PCMCIA/CARD BUS
GIGA@	8110SBL (SCL) Giga LAN
10/100@	8110CL 10/100Mb LAN

Voltage Rails

power plane	+B LDO3 LDO5	+5VALW +3VALW	+1.8V +5V	+5VS +3VS +2.5VS +1.8VS +1.5VS +VGA CORE +1.2VS +0.9VS +CPU CORE +VCCF
State S4 : STD S5 : SOFT OFF				
S0	O	O	O	O
S1	O	O	O	O
S3 : STR	O	O	O	X
S5 S4/AC	O	O	X	X
S5 S4/ Battery only	O	X	X	X
S5 S4/AC & Battery don't exist	X	X	X	X

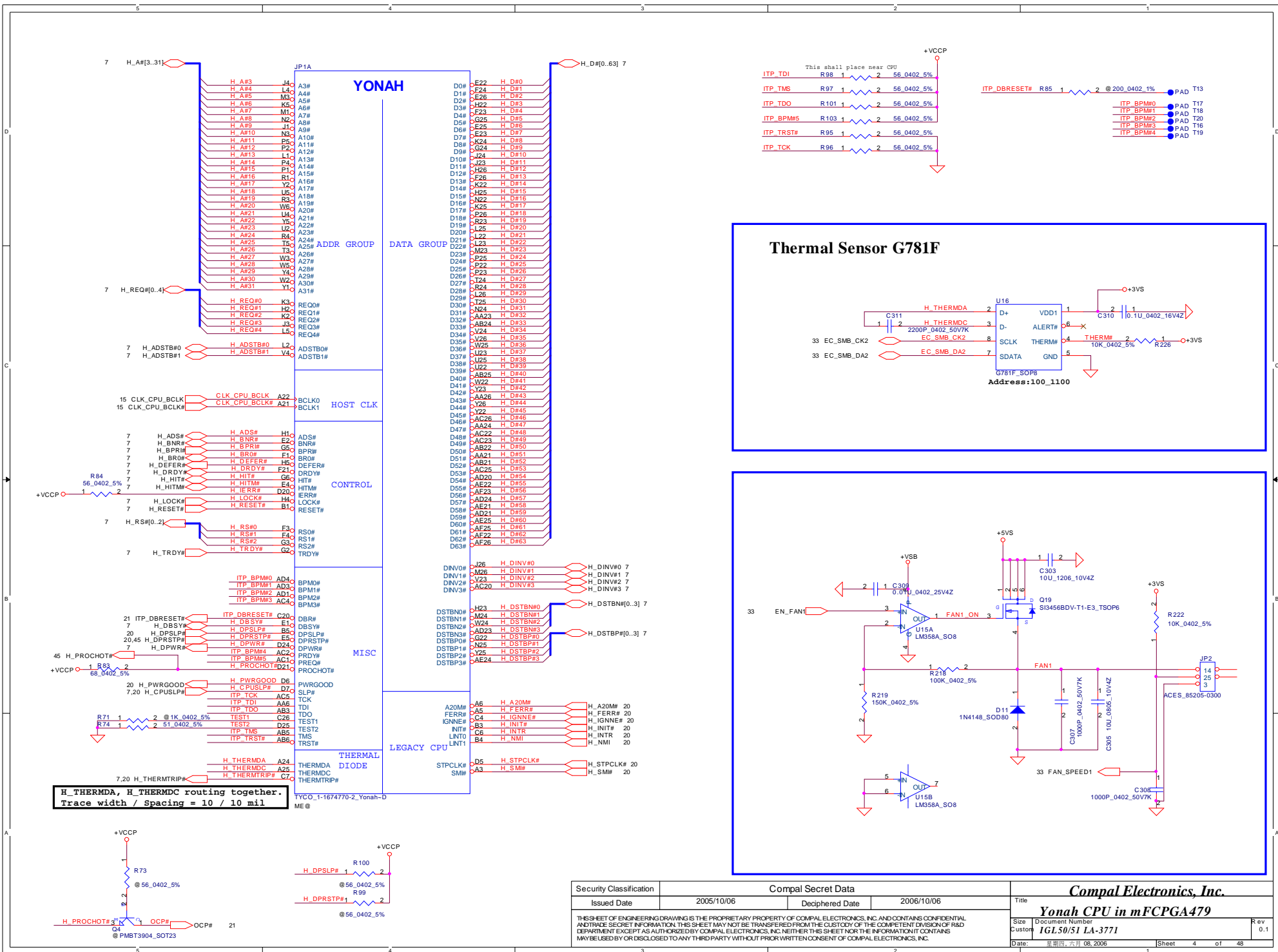
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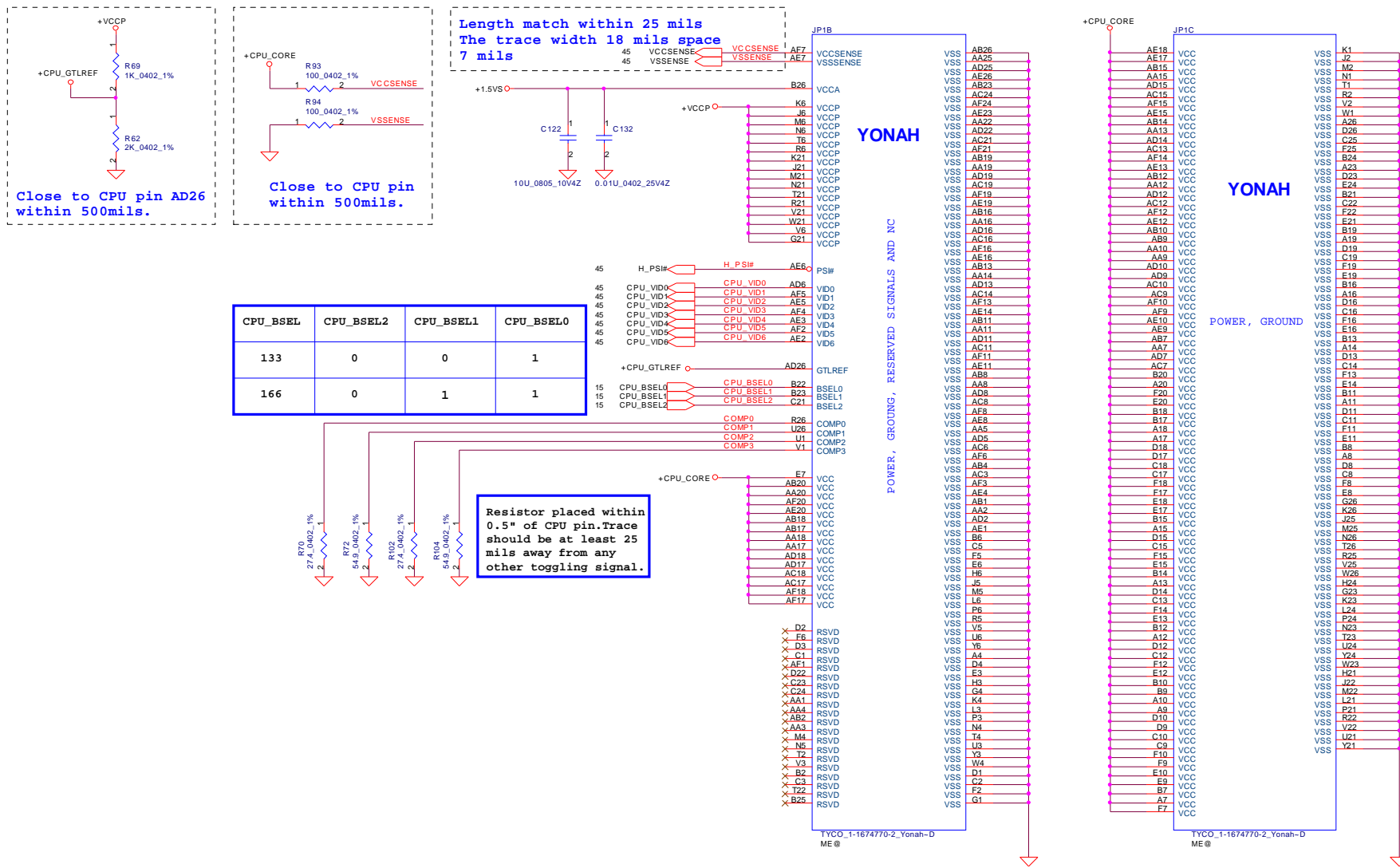
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1	IGL-51

BRD_ID

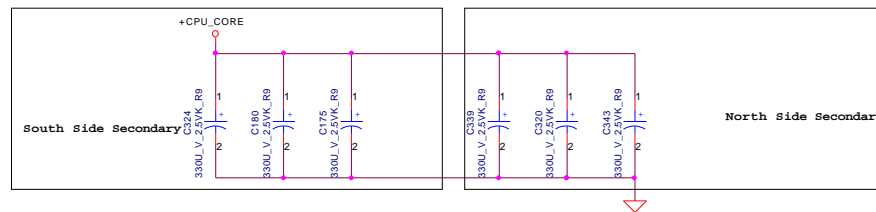
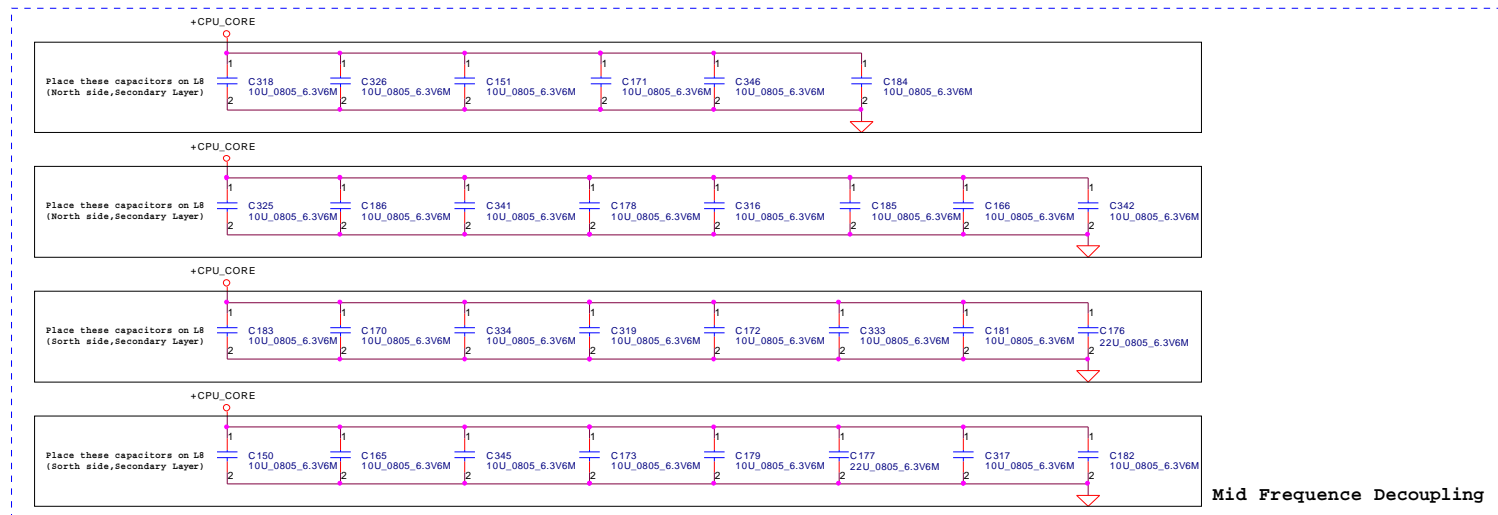
ID	MB REV#	R115(Rb)	Vab
0	R0.1 (EVT)	0	0V
1	R0.2 (DVT)	8.2K	0.25V
2	R0.3 (PVT)	18K	0.50V
3	R1.0 (MP)	33K	0.82V
4		56K	1.19V
5		100K	1.65V
6		200K	2.20V
7		NC	3.30V

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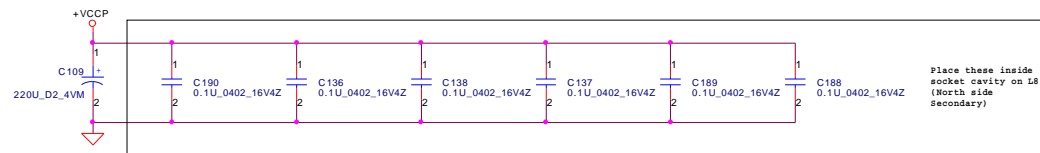




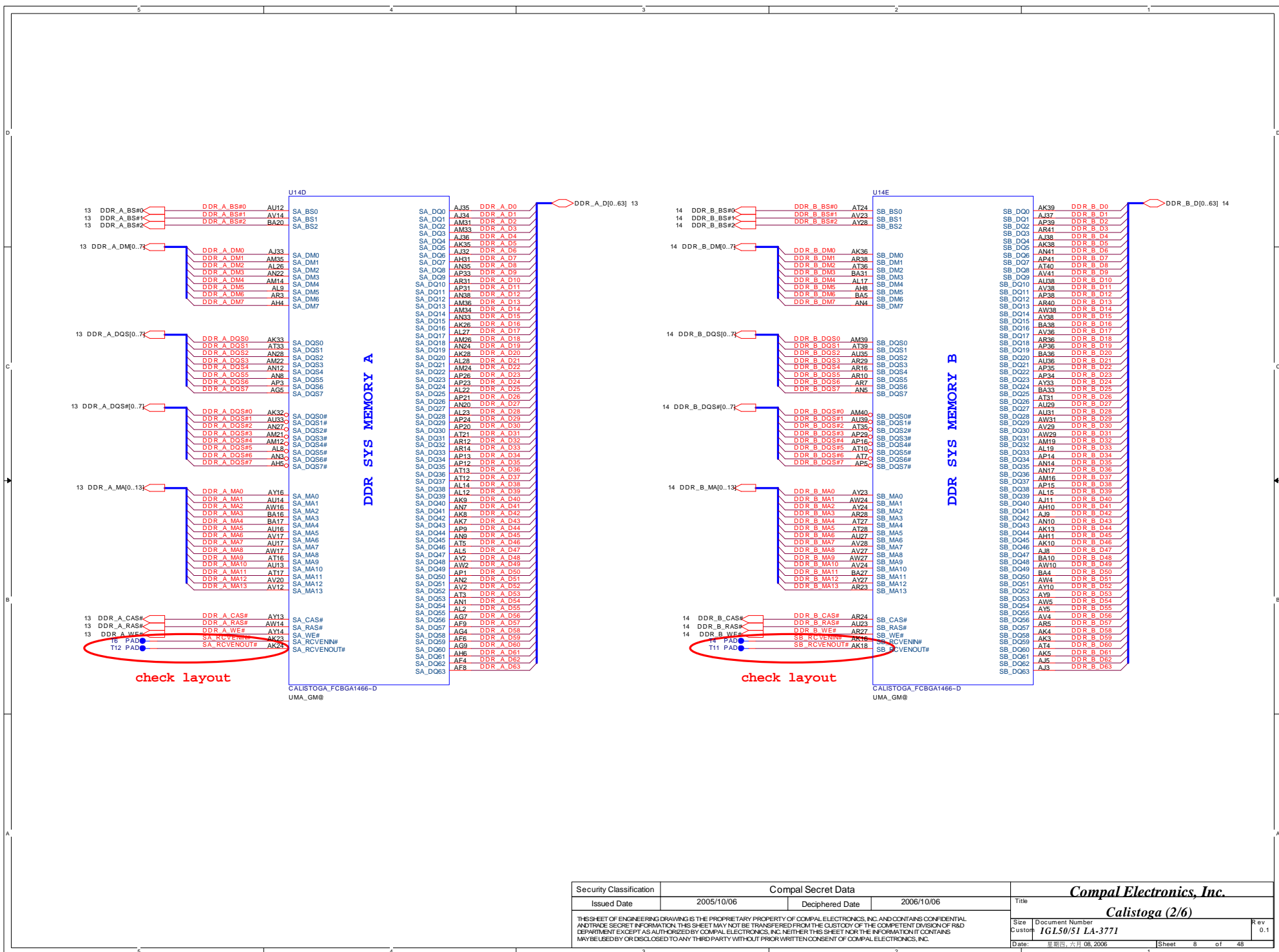
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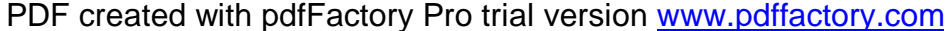
ESR <= 1.5m ohm
Capacitor > 1980uF

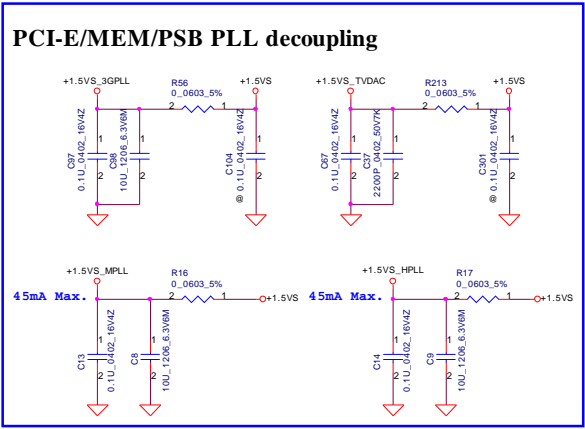


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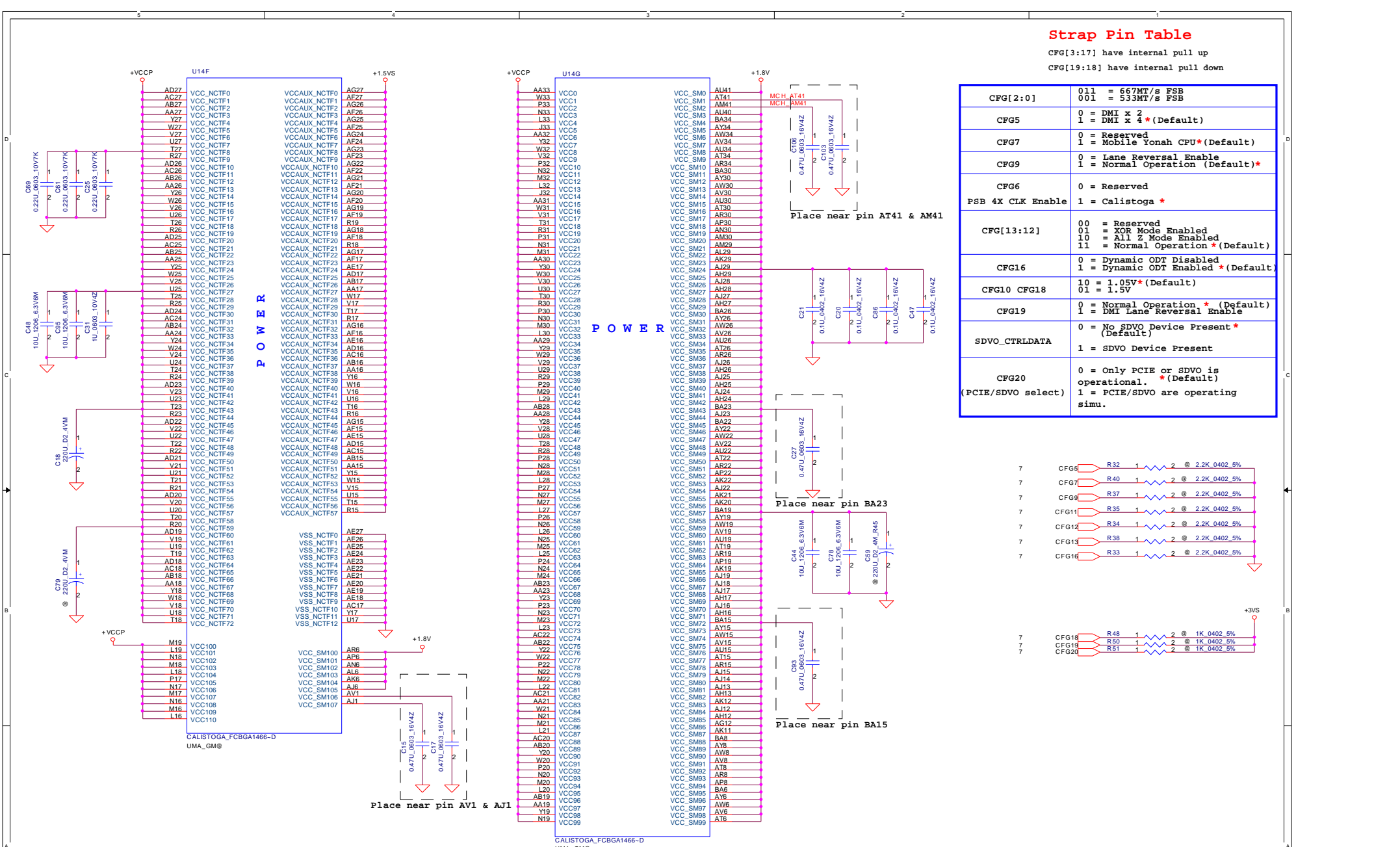
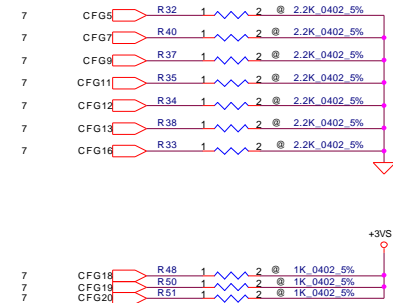
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Strap Pin Table

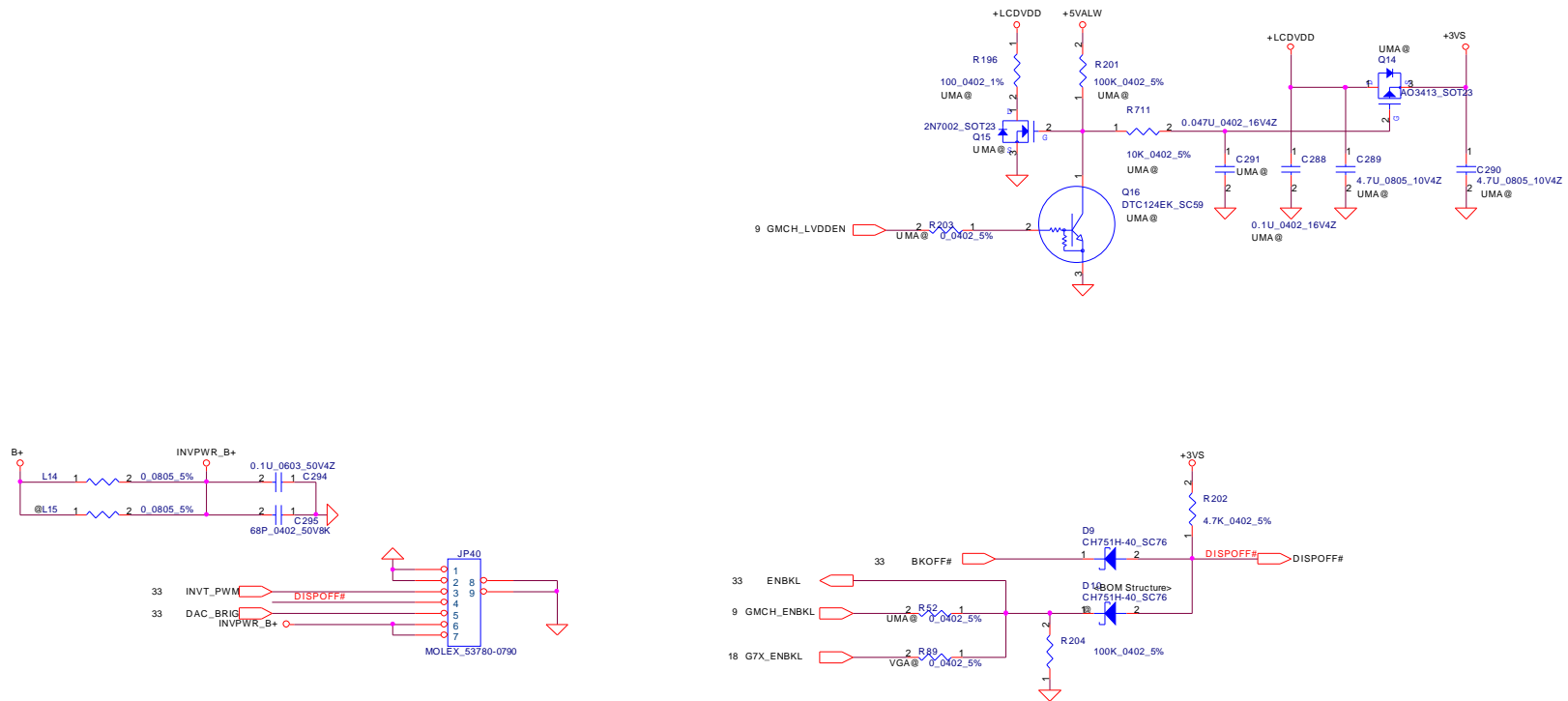
CFG[3:17] have internal pull up

CFG[19:18] have internal pull down

CFG[2:0]	011 = 667MT/s FSB 001 = 533MT/s FSB
CFG5	0 = DMI x 2 1 = DMI x 4 * (Default)
CFG7	0 = Reserved 1 = Mobile Yonah CPU * (Default)
CFG9	0 = Lane Reversal Enable 1 = Normal Operation (Default) *
CFG6	0 = Reserved PSB 4X CLK Enable 1 = Calistoga *
CFG[13:12]	00 = Reserved 01 = XOR Mode Enabled 10 = Mobile Yonah CPU * (Default) 11 = Normal Operation * (Default)
CFG16	0 = Dynamic ODT Disabled 1 = Dynamic ODT Enabled * (Default)
CFG10 CFG18	10 = 1.05V * (Default) 01 = 1.5V
CFG19	0 = No SDVO Device Present * (Default) 1 = DMI Lane Reversal Enable
SDVO_CTRLDATA	0 = No SDVO Device Present * (Default) 1 = SDVO Device Present
CFG20 (PCIE/SDVO select)	0 = Only PCIE or SDVO is operational. * (Default) 1 = PCIE/SDVO are operating simu.

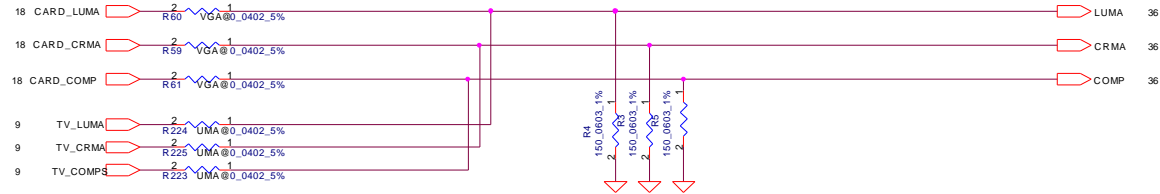






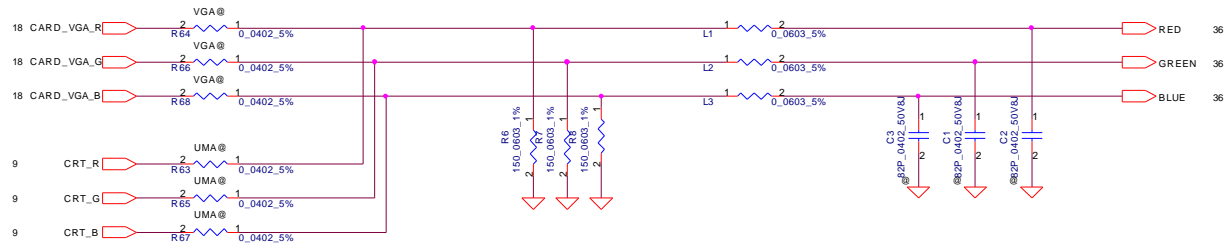
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TV-OUT Conn.

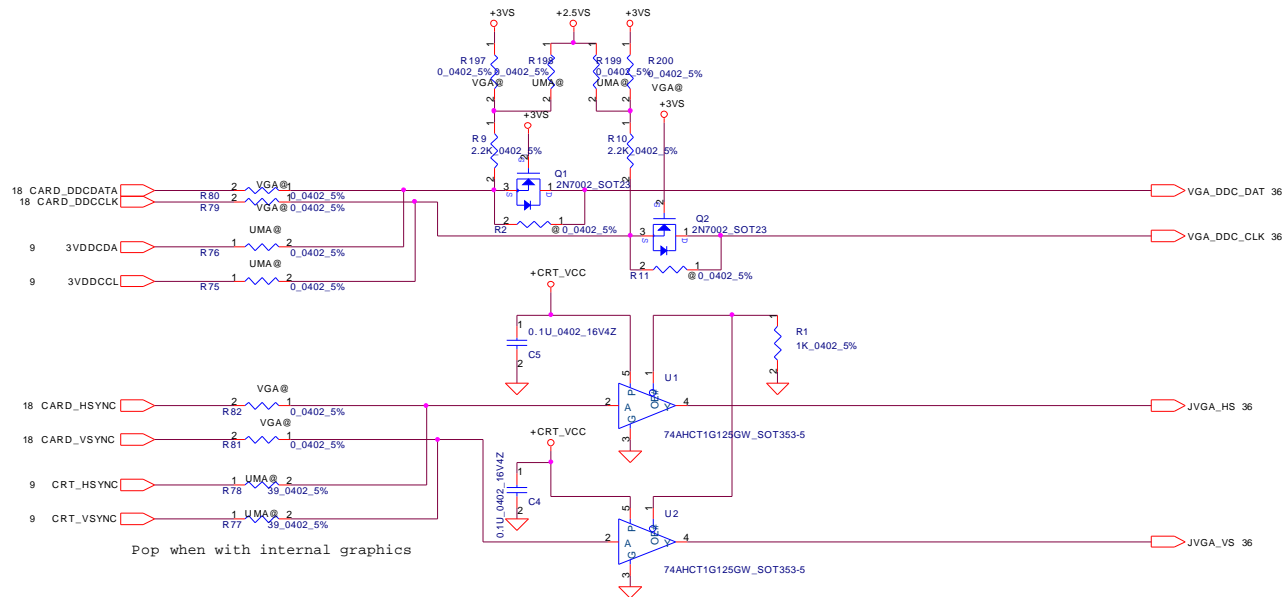


Pop when with internal graphics

CRT Conn.



Pop when with internal graphics

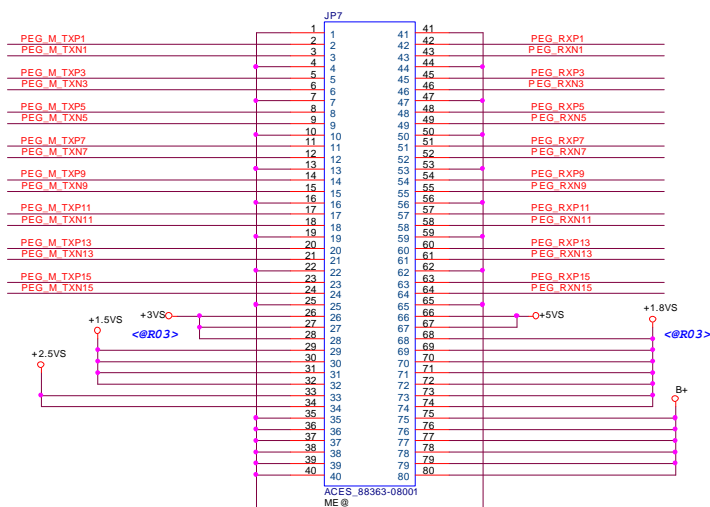


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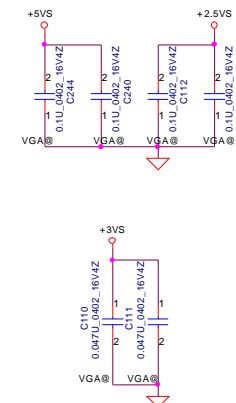
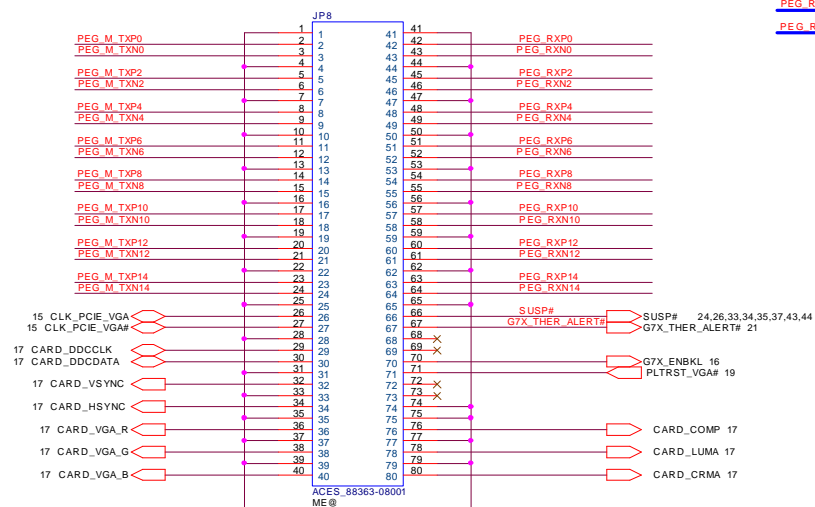
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MAX. 4.06A @ 1.8V
MAX. 130mA @ 2.5V
MAX. 655mA @ 3.3V

PEG_M_TXP[0:15] PEG_M_TXP[0:15] 9
PEG_M_TXN[0:15] PEG_M_TXN[0:15] 9
PEG_RXP[0:15] PEG_RXP[0:15] 9
PEG_RXN[0:15] PEG_RXN[0:15] 9



< New Add Pin.28 for +3VS, Pin.68 for +1.8VS @R03 >

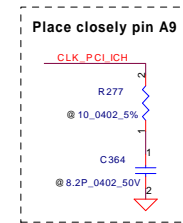
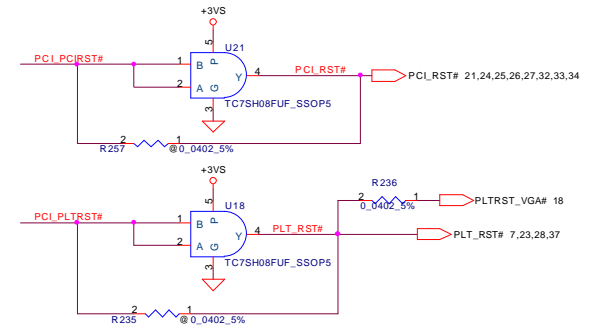
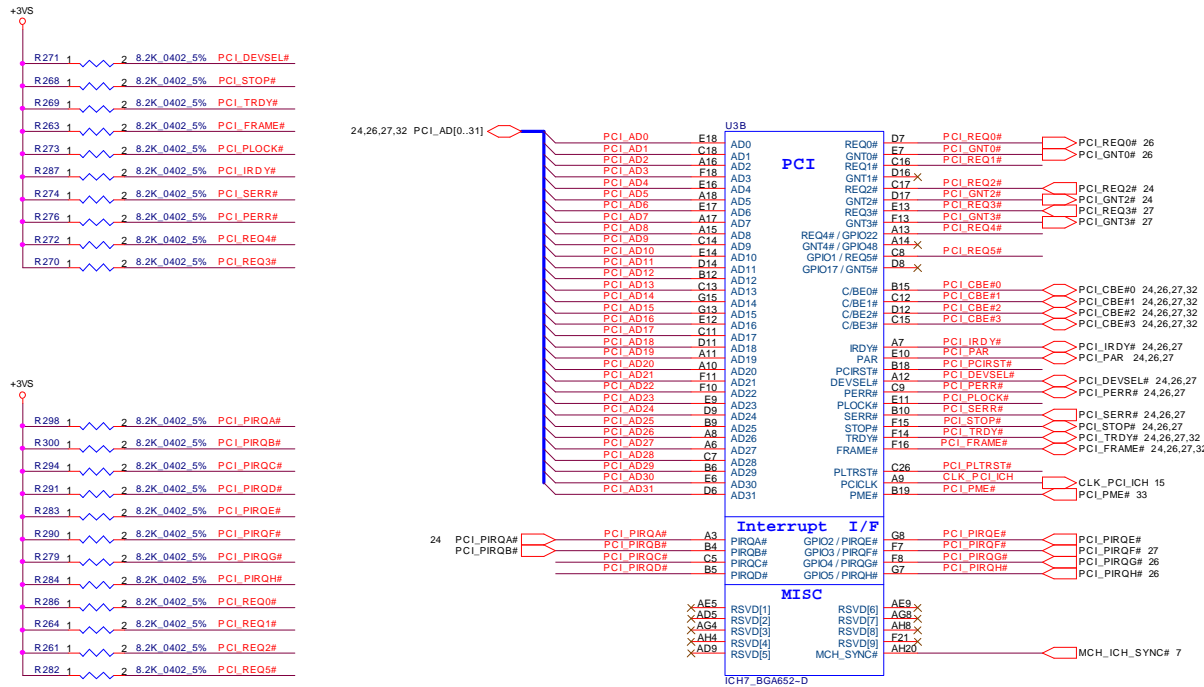


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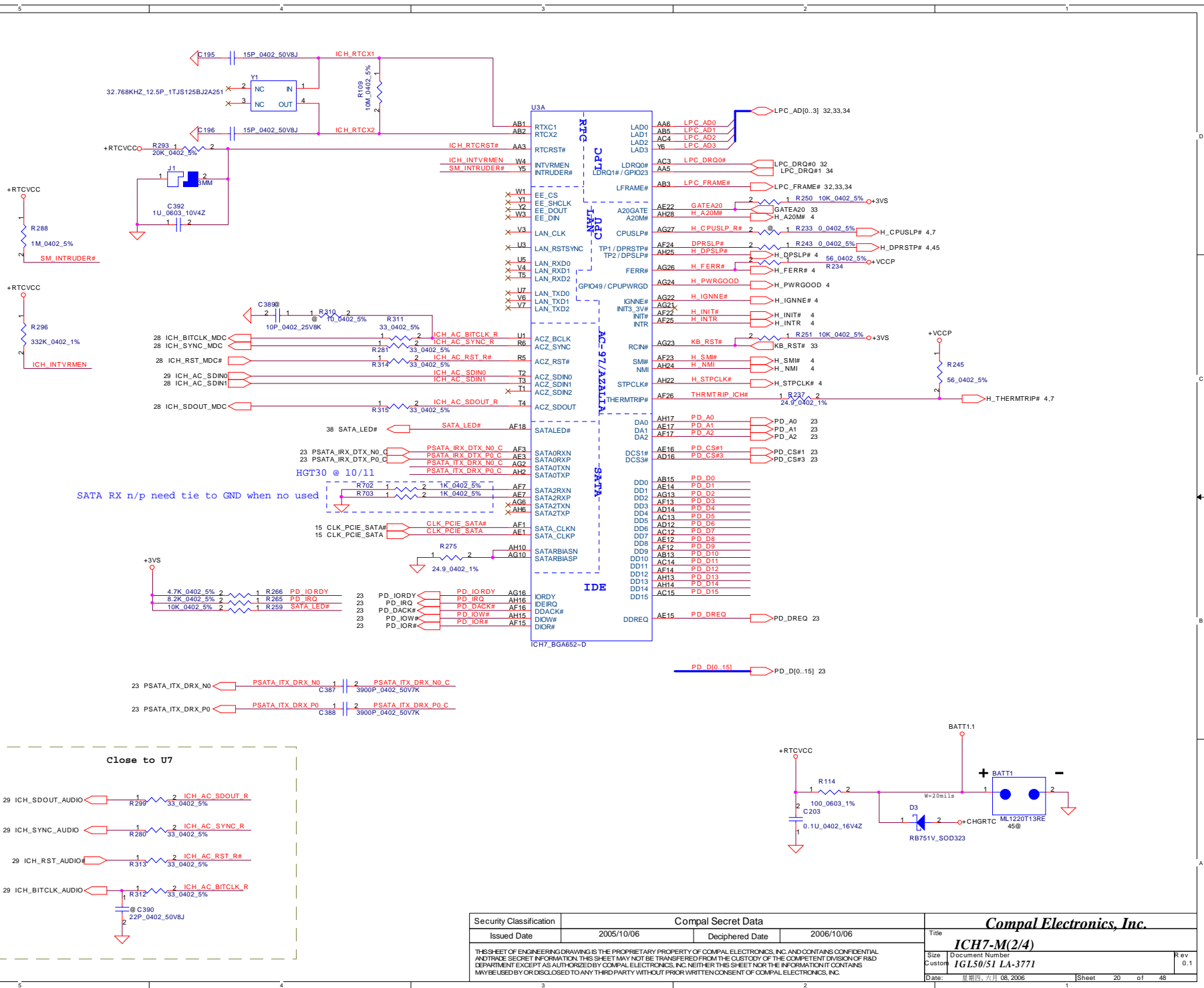
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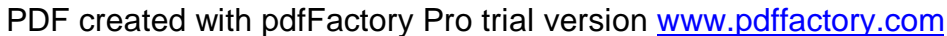
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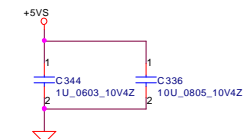
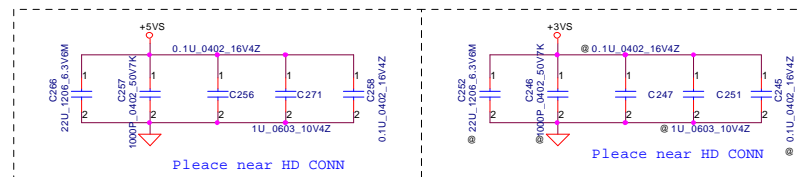
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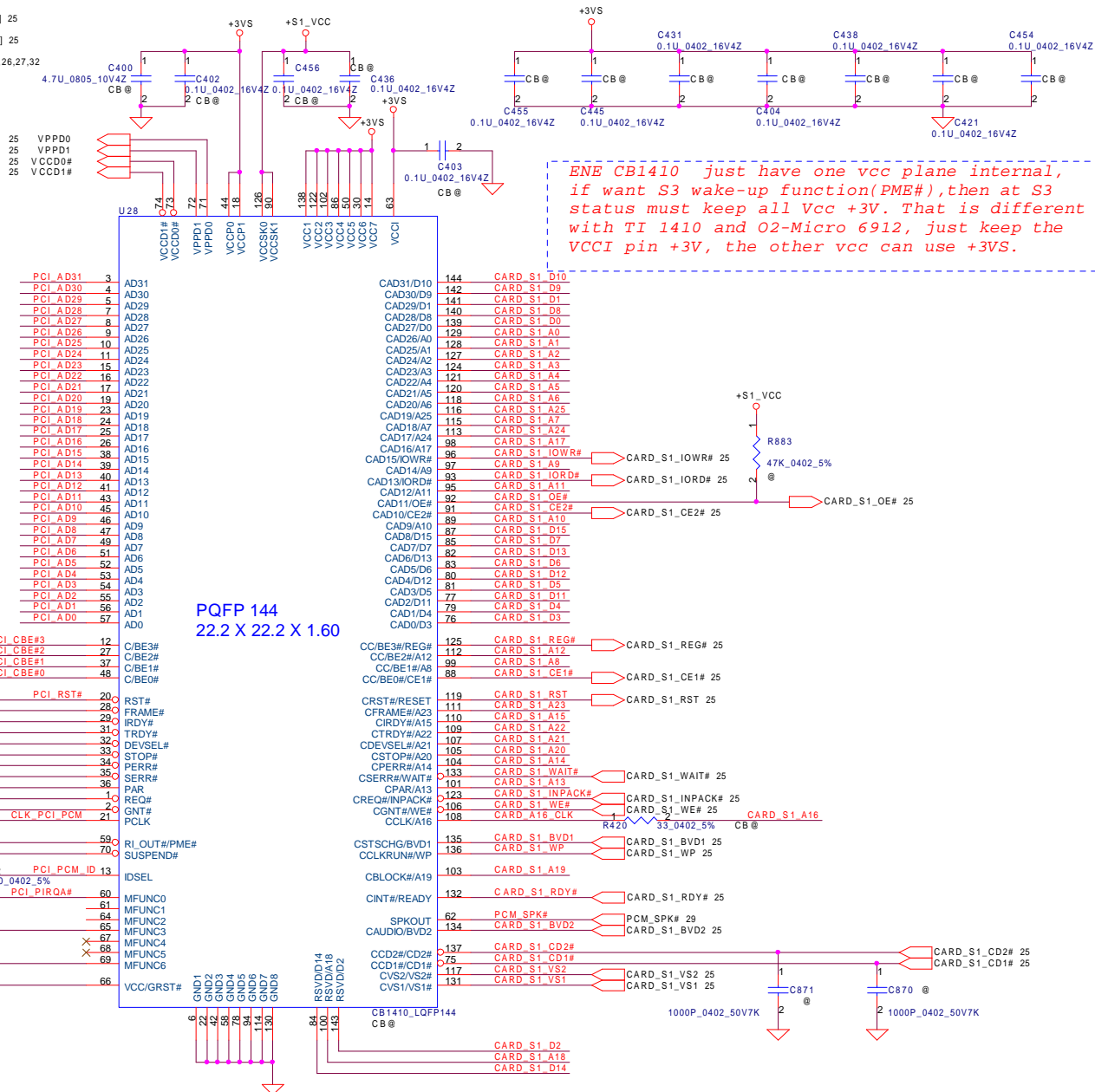
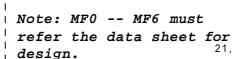
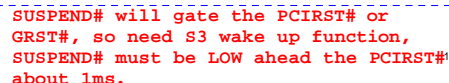
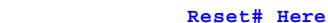
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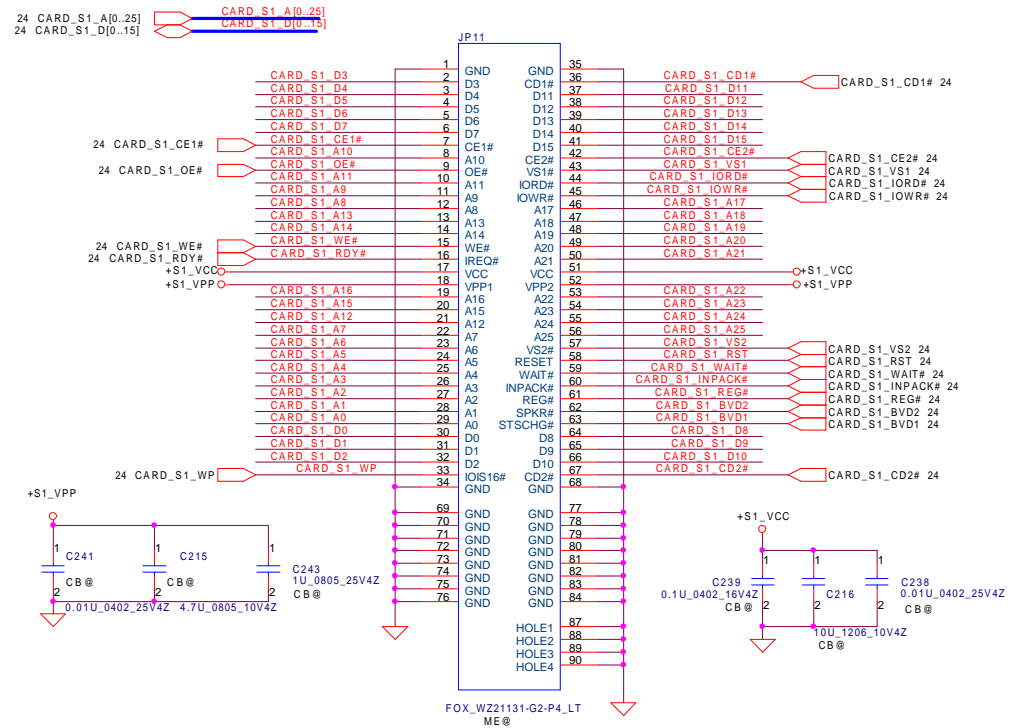
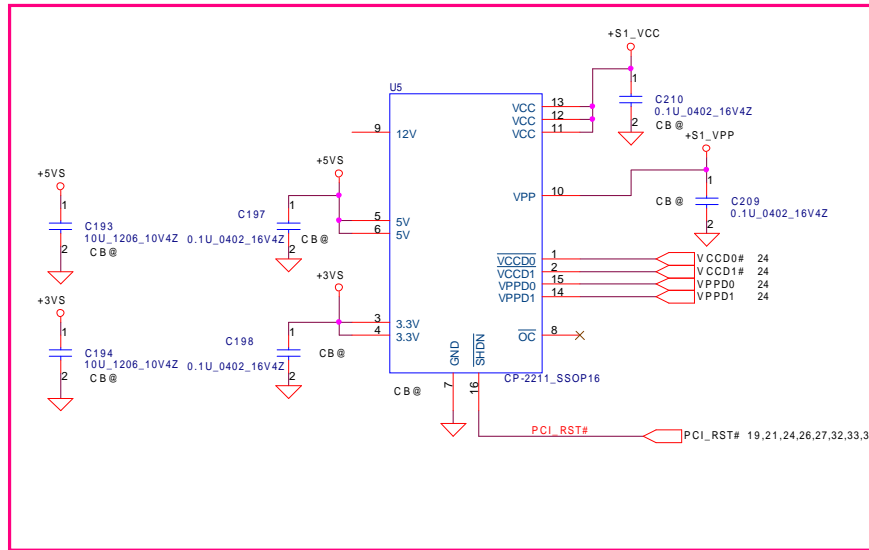


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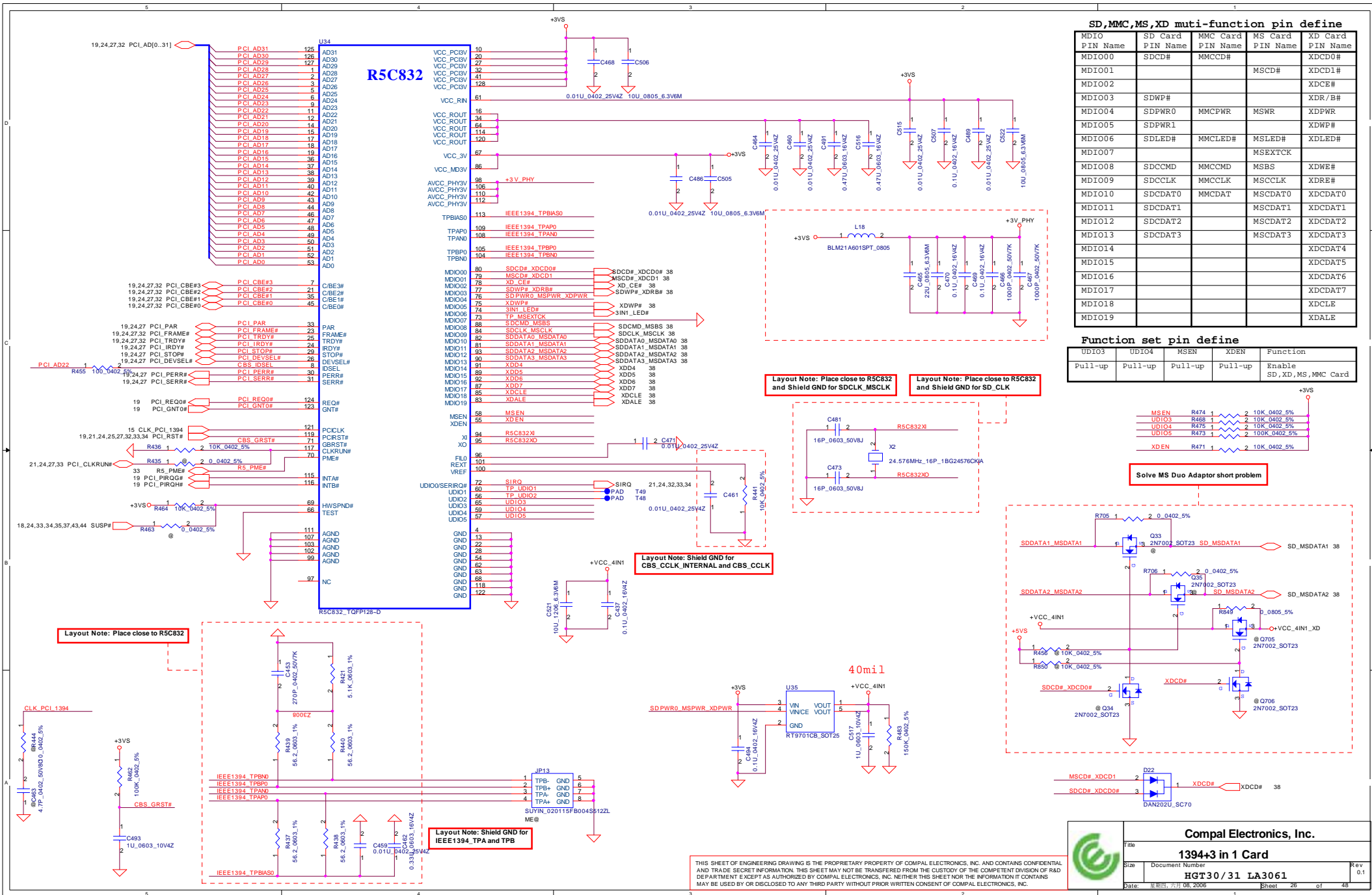


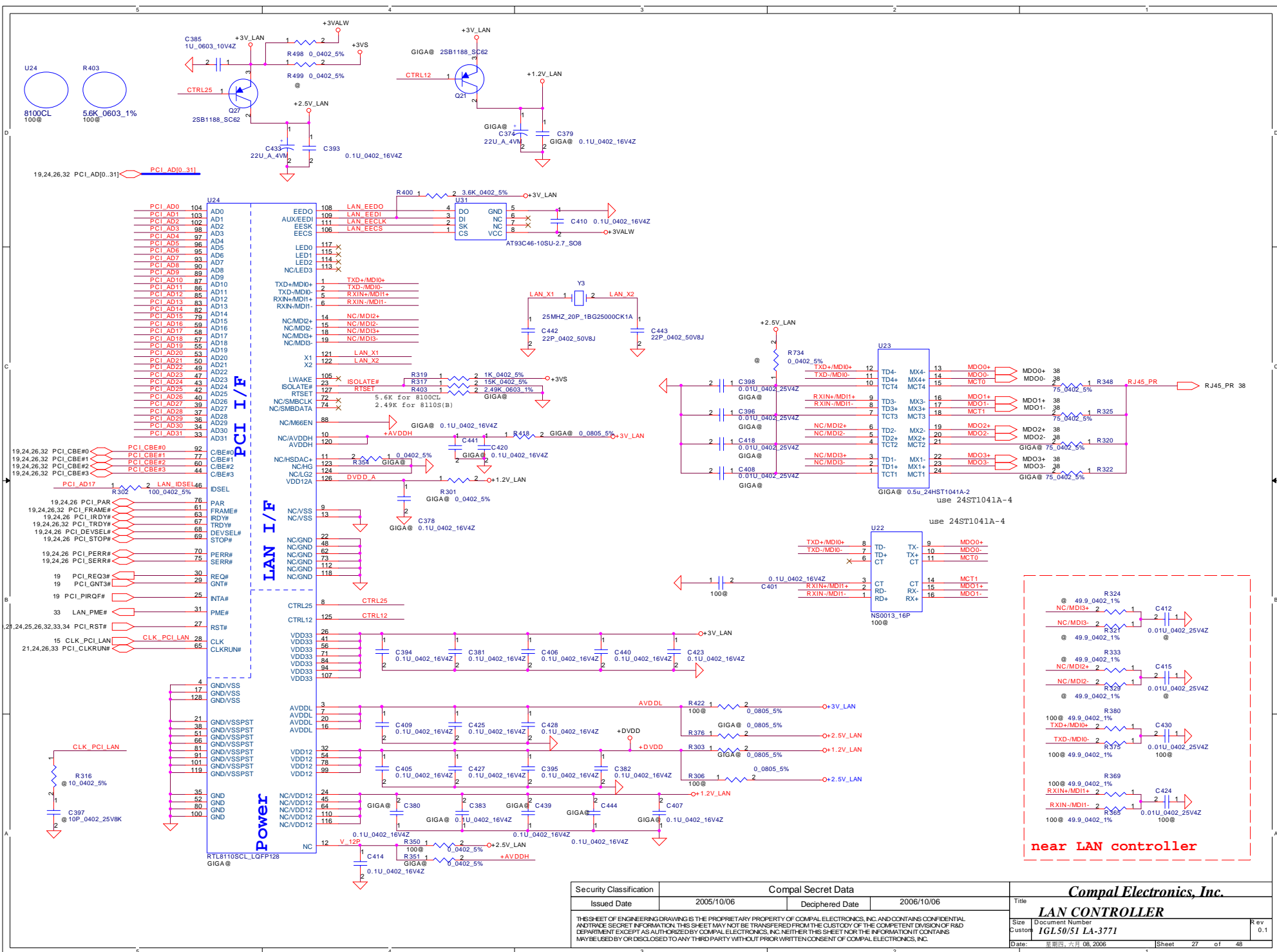
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PCMCIA Power Controller

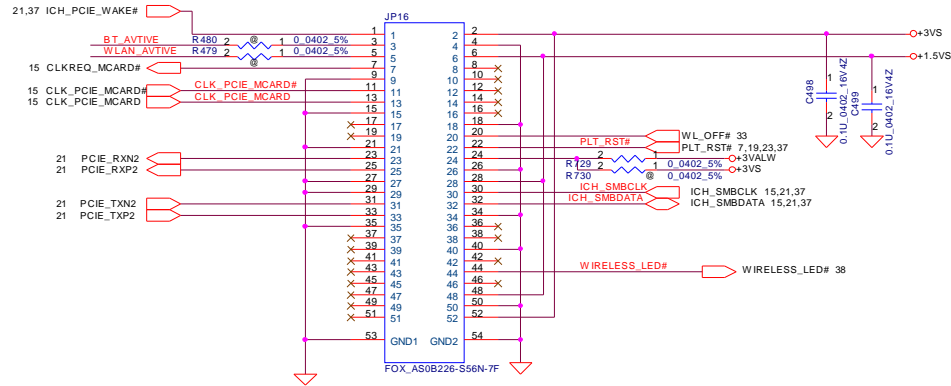


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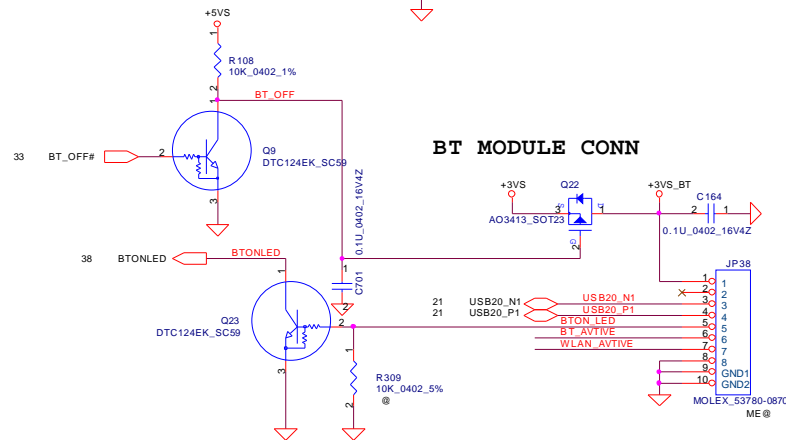
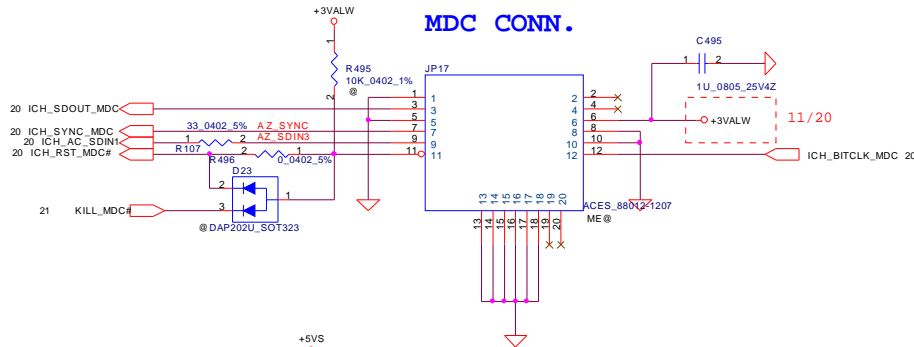
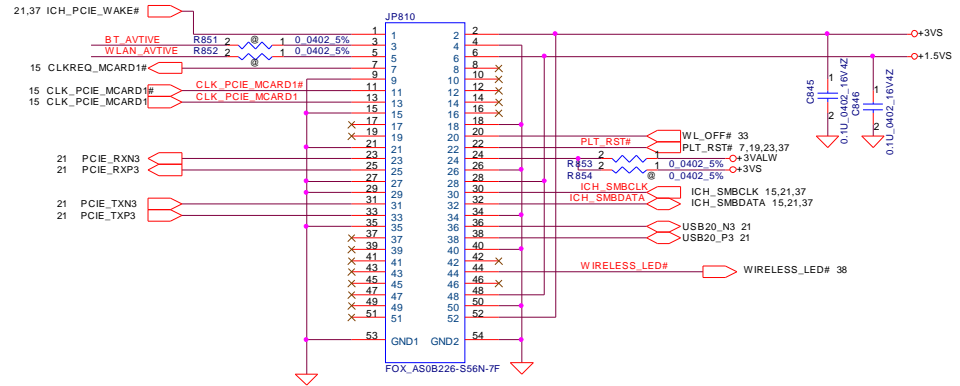




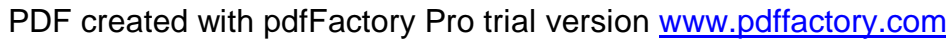
Mini-Express Card(Slot 1-WLAN)

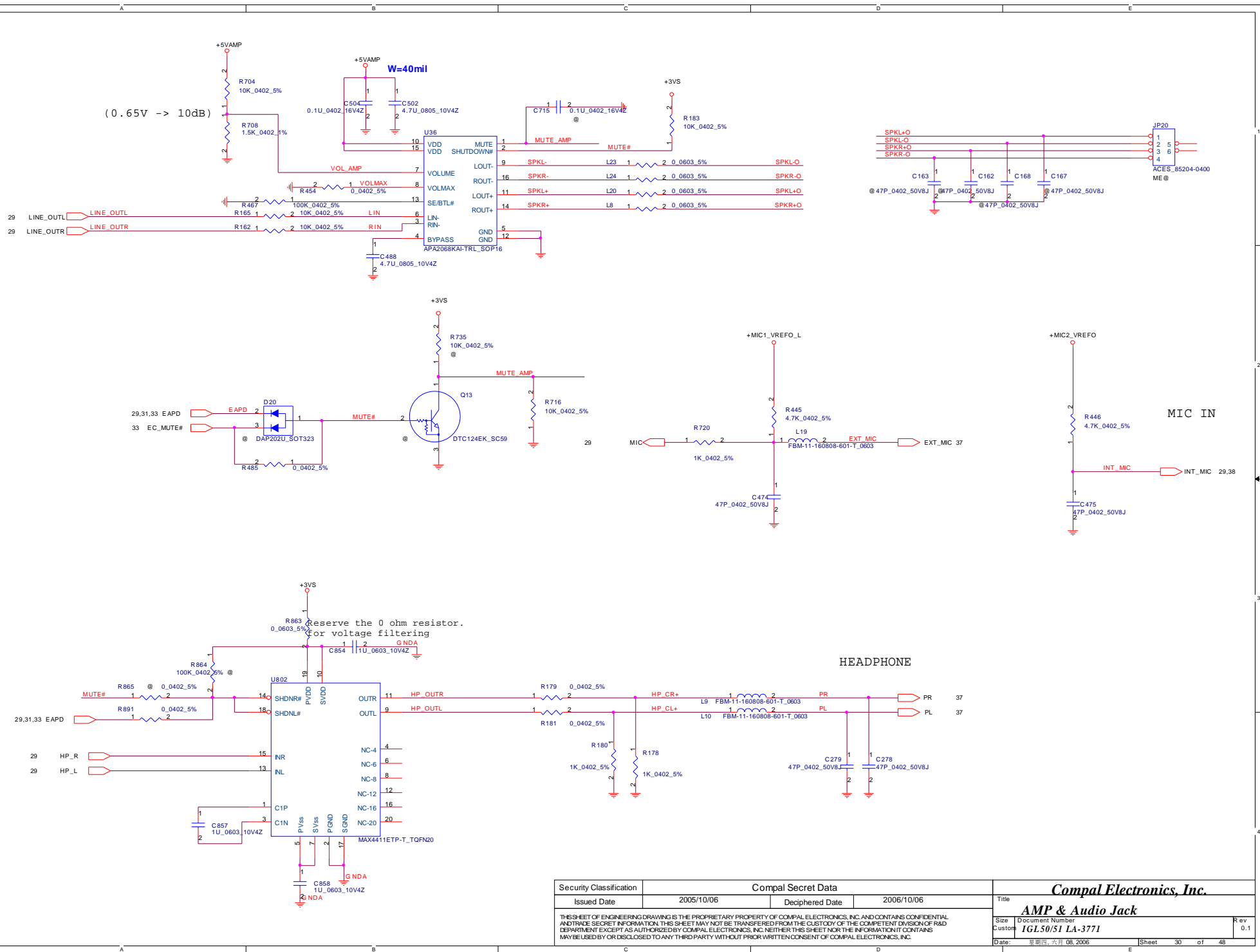


Mini-Express Card(Slot 2-WLAN)



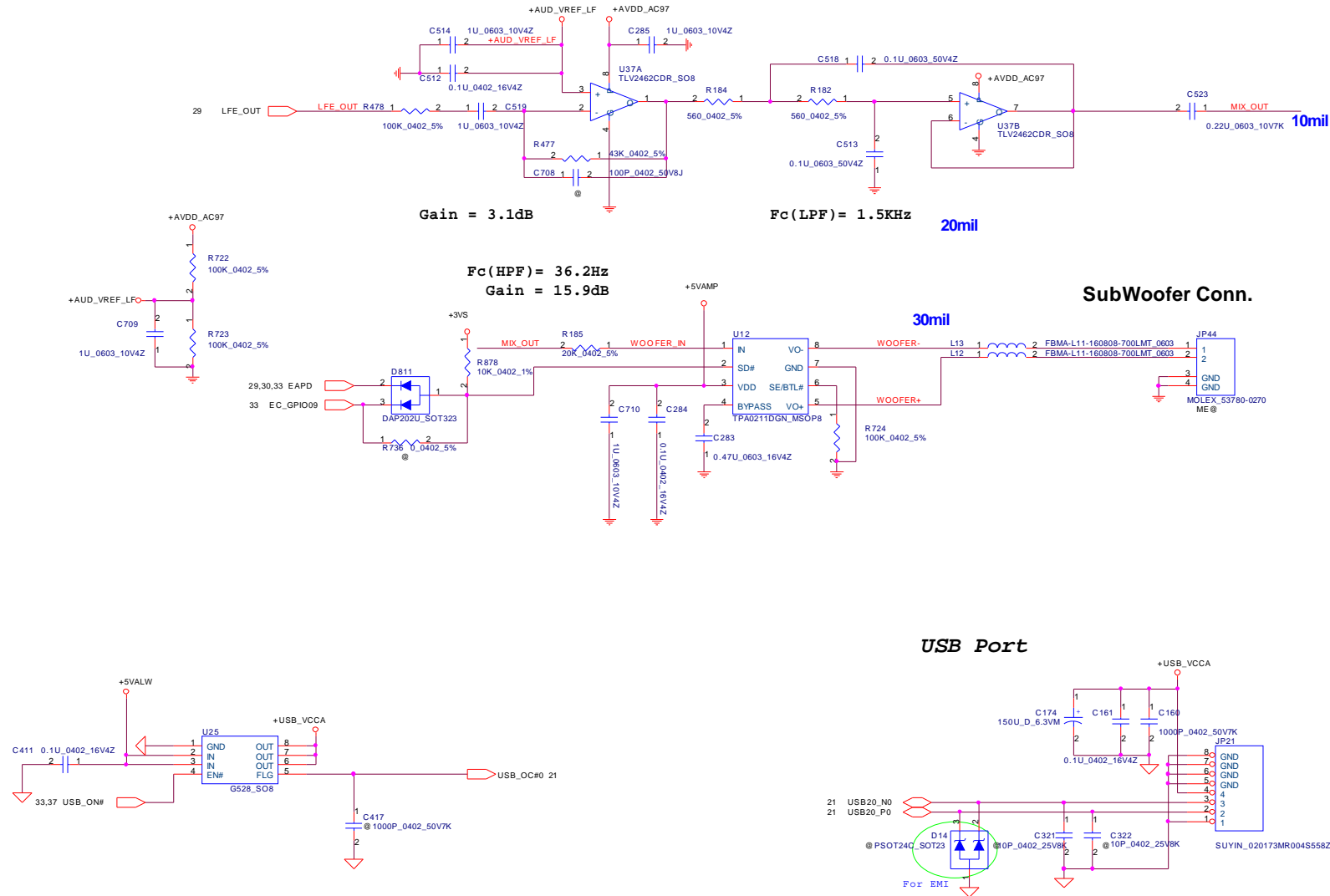
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2006.06.08		28		48	





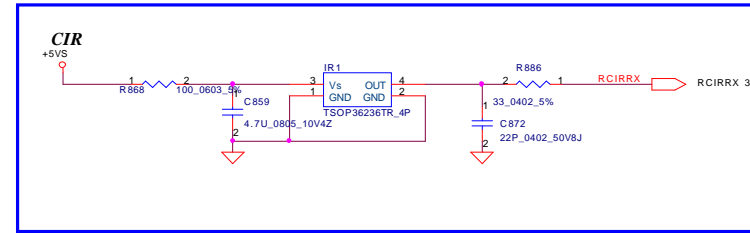
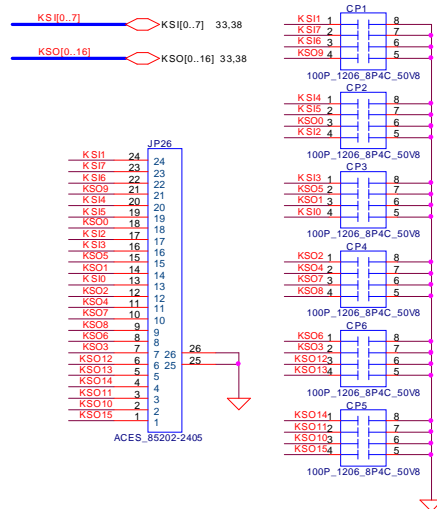
SUBWOOFER (Reserved for C38)

WOOFER@

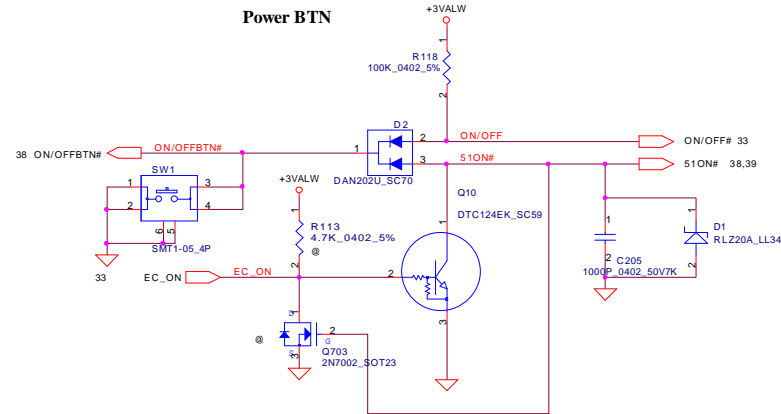


Security Classification		Compal Secret Data		Title	
Issued Date	2005/10/06	Deciphered Date	2006/10/06	Compal Electronics, Inc.	
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Size	Custom	Document Number	1GL50/51 LA-3771		Rev 0.1
Date:	星期四, 六月 08, 2006	Sheet	31	of	48

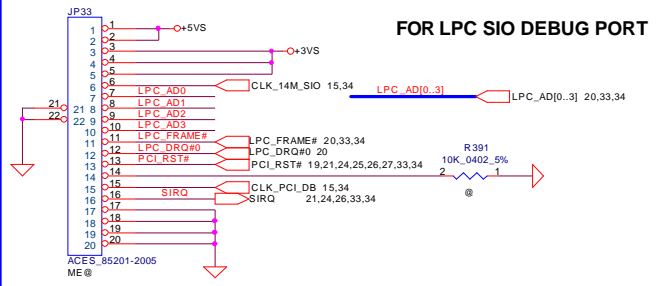
INT_KBD CONN.(TYPE "D" KB)



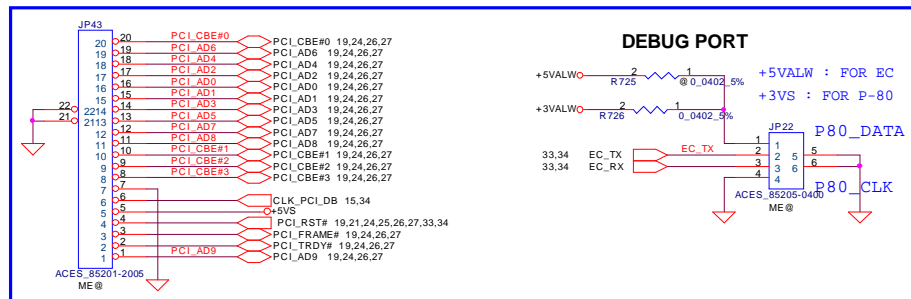
Power BTN



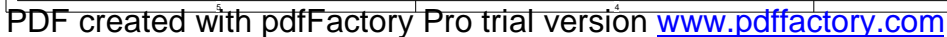
FOR LPC SIO DEBUG PORT

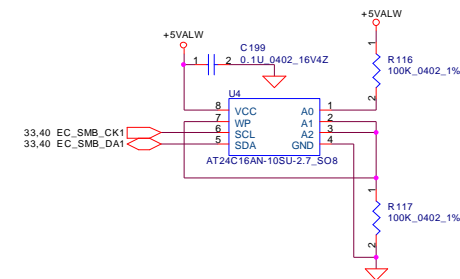
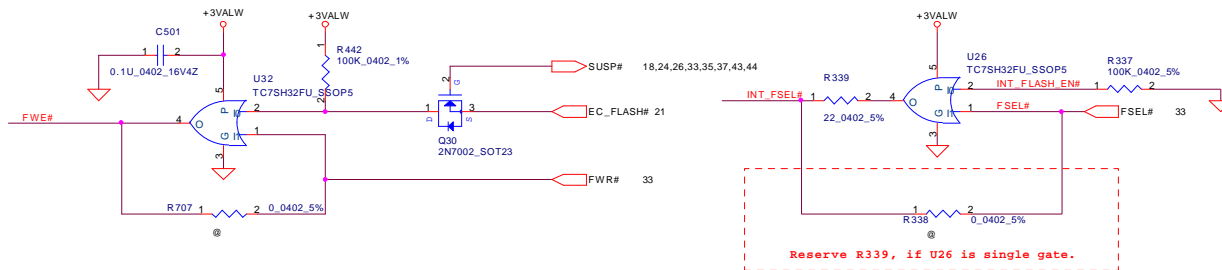


DEBUG PORT



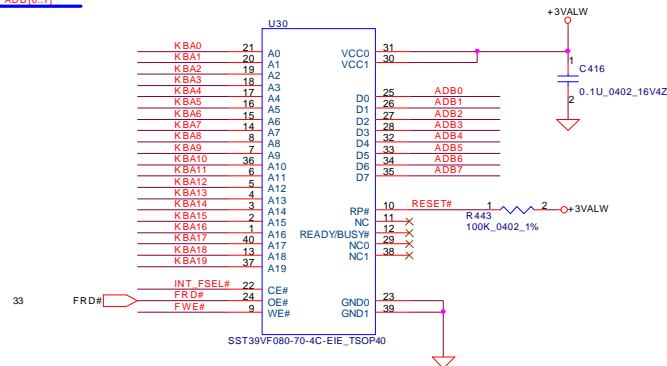
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date		Deciphered Date		Title	
2005/10/06		2006/10/06		KBD,ON/OFF,T/P,LED/B,DEBUG	
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				1GL50/51 LA-3771	
				Rev	
				0.1	
				Date: 星期日, 六月 08, 2006	
				Sheet 32 of 48	



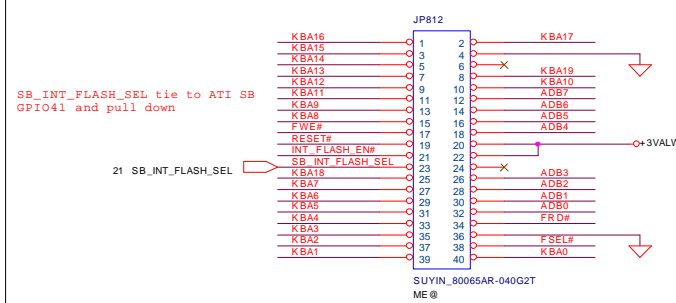


33 KBA[0..19] KBA[0..19]
33 ADB[0..7] ADB[0..7]

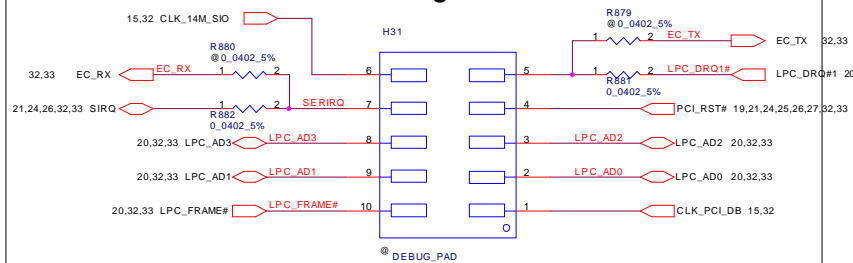
1MB Flash ROM



Change to small socket for ROM part



New LPC Debug Pad ---- MB side



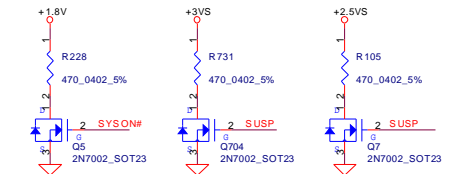
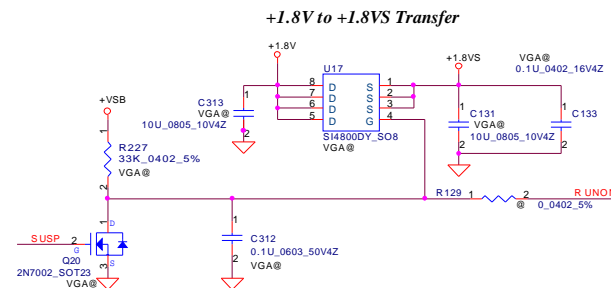
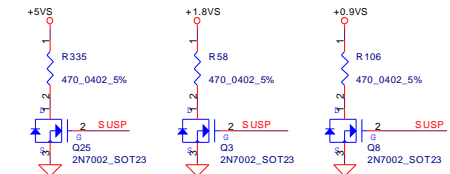
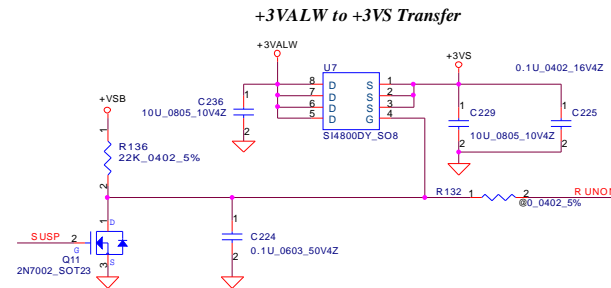
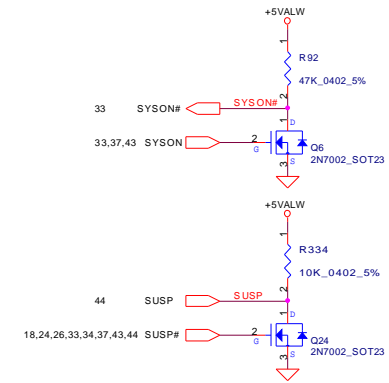
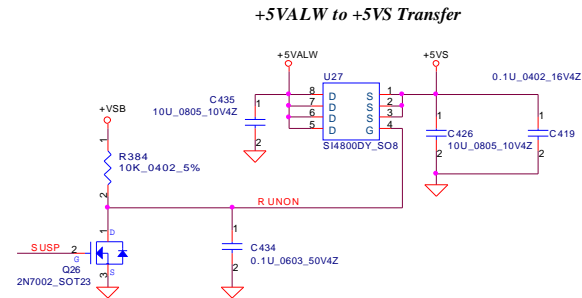
Under DDR ME Assignment Area

Keep Resistor near Debug Pad and in the same side

Standard side DIMM ---- Pin 1 near DIMM

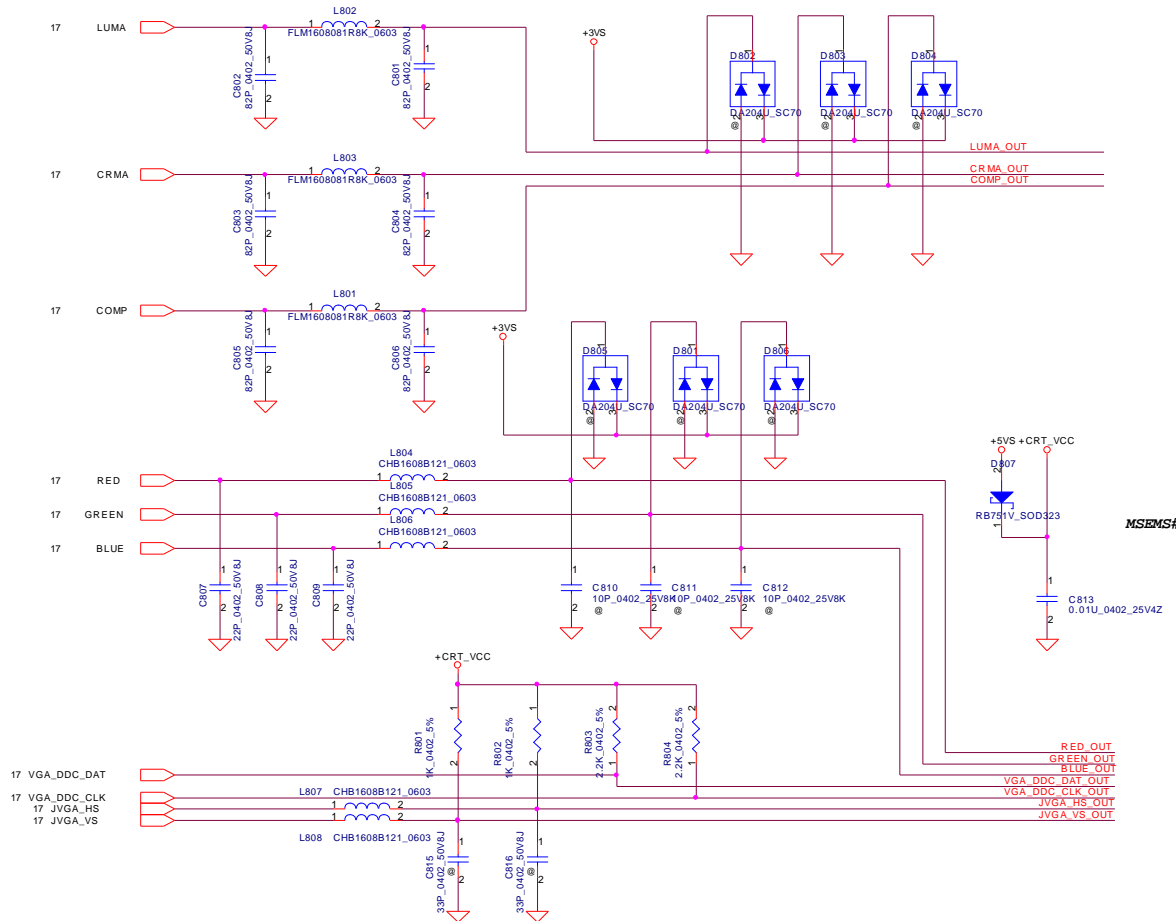
Reverse side DIMM ---- Pin 1 keep away DIMM

Security Classification		Compal Secret Data		Title	
Issued Date		Deciphered Date		BIOS & EC I/O Port	
2005/10/06		2006/10/06		Document Number	
Size		Date		Rev	
Custom		1GL50/51 LA-3771		0.1	
Date		Sheet		of	
2006		34		48	



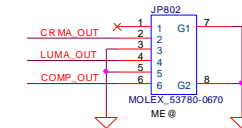
Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/10/06	Deciphered Date	2006/10/06	Title
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Size		Document Number		Rev
Custom		1GL50/51 LA-3771		0.1
Date:		星期四, 六月 08, 2006		Sheet 35 of 48

CLOSE TO JTVOUT1

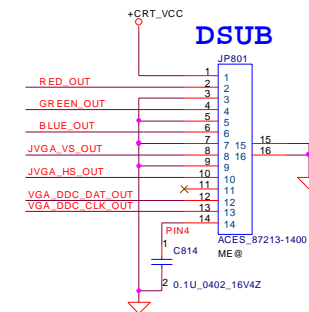


VGA I/O PORT Connector

S-VIDEO



DSUB



PIN ASSIGMENT

PIN	D-SUB	FUNCTION	PIN	SVIDEO	FUNCTION
1	9	+CRT_VCC	1	1	NC
2	1	RED	2	4	CRMA
3	6	GND	3	2	GND
4	2	GREEN	4	3	LUMA
5	7	GND	5	5	GND
6	3	BLUE	6	6	CVBS
7	8	GND			
8	14	VSYNC			
9	10	GND			
10	13	HSYNC			
11	11	SENSE			
12	12	SM_DAT			
13	15	SM_CLK			
14	4	PIN4			

Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2005/03/10	Deciphered Date	2006/03/10	Title	CRT & TVout Connector
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				Custom	IGL50/51 LA-3771
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				Sheet	36 of 48

[illegible][illegible][illegible]

3	2	1
B	B A	B A

Wireless / Bluetooth LED Blue
Amber

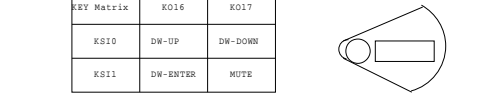
BATT_CHG_LED#

Amber

STATUS	
AC	BLUE
Chargin	Blinking Blue
Low BATT	Amber

Function		
KEY Matrix	K016	K017
KS10	DW-UP	DW-DOWN
KS11	DW-ENTER	MUTE

Function			Dial Wheel



LED Indicator

3 2 1

B B A B A

Wireless / Bluetooth LED

Blue
Amber

BATT_CHG_LED#
Blue
Amber

BATT_LOW_LED#

33 EC_GPIO12
33 EC_GPIO59
28 WIRELESS_LED#
28 BTONLED

33 CHARGE_LED0#
33 CHARGE_LED1#
33 PWR_LED#

Blue : Power On,
Blinking Blue : Suspend

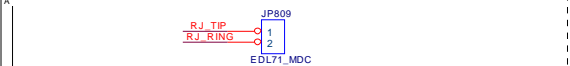
Left Switch BD

3V5
100K_0402_5%
R822
R830
100K_0402_5%
+5VALW
+5VS
JP816
MOLEX_53780-1470-D

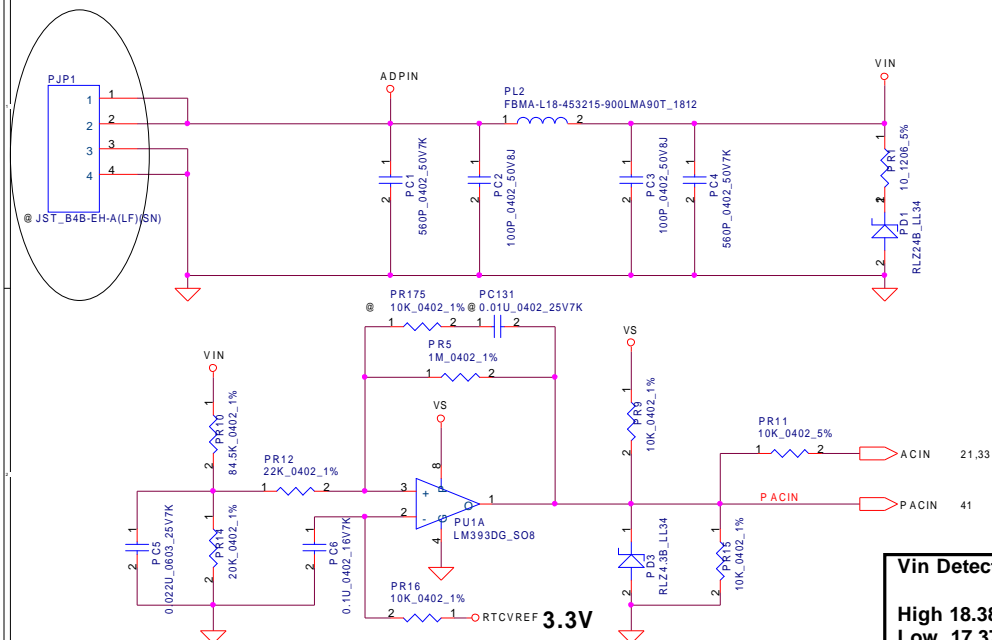
STATUS	
AC	BLUE
Chargin	Blinking Blue
Low BATT	Amber

Right Switch BD

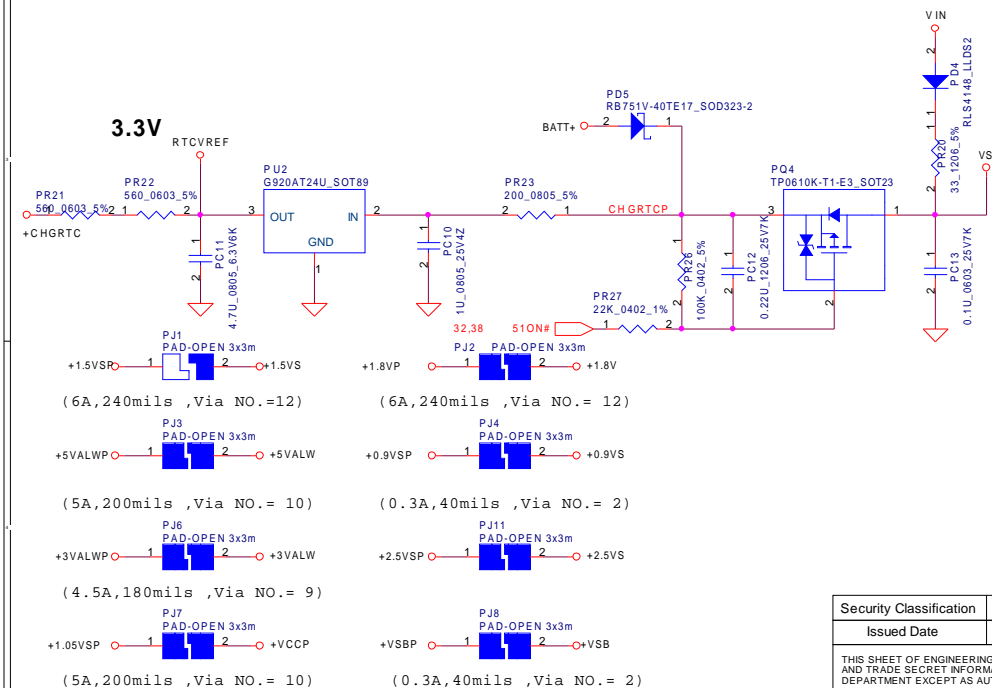
MDC CONN



Security Classification	Compal Secret Data			Compal Electronics, Inc. INDICATE LED	
Issued Date	2005/03/10	Deciphered Date	2006/03/10	Title	1G1.50/S1 La-3771 Document Number
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				Custom	0.1
				Part No.	Rev
				1G1.50/S1 La-3771	0.1

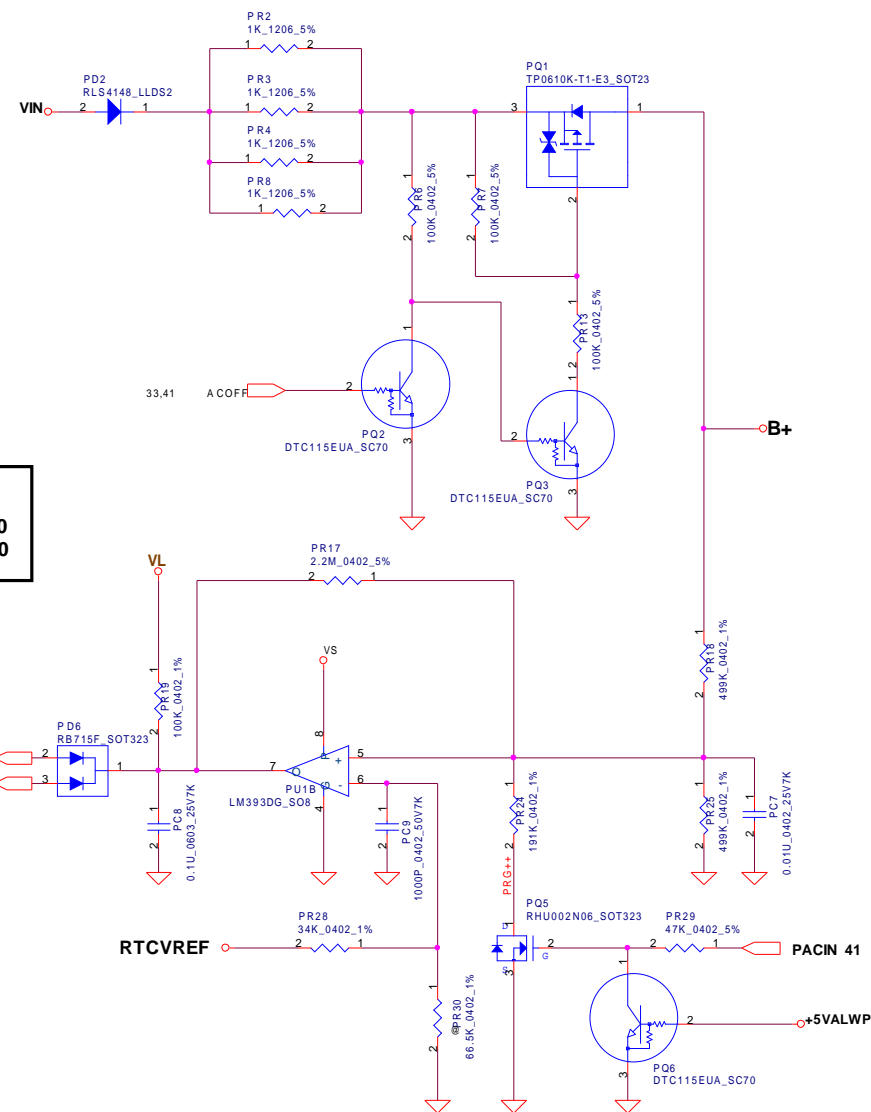


Vin Detector			
High	18.384	17.901	17.430
Low	17.370	16.907	16.630

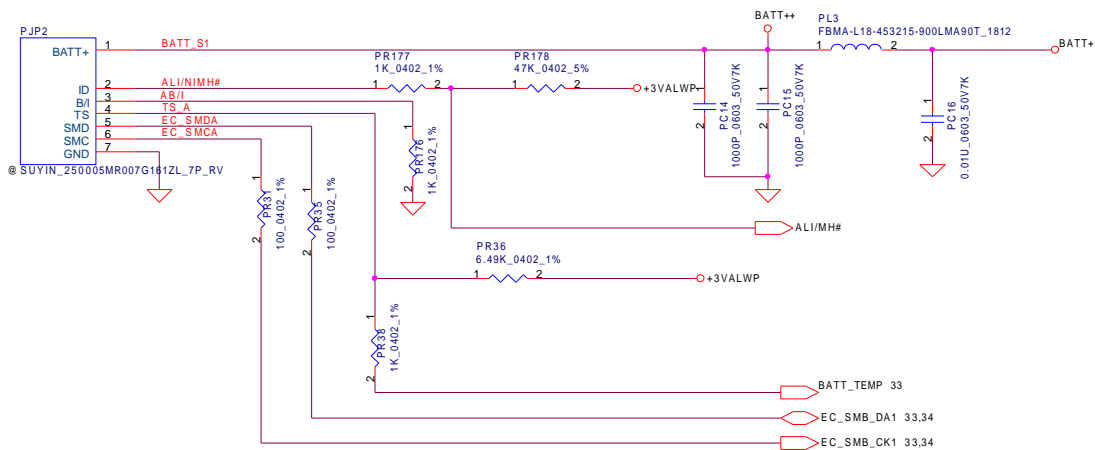


ACIN			
	Precharge detector		
	Min.	typ.	Max.
H-->L	14.620V	14.853V	15.245V
L-->H	15.534V	15.970V	16.421V

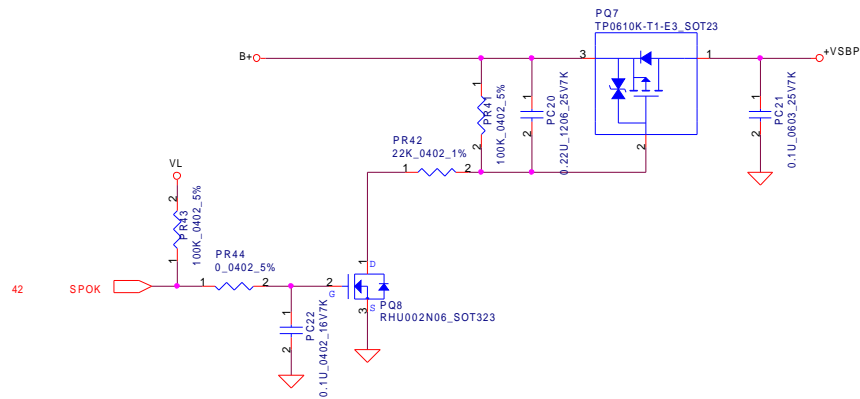
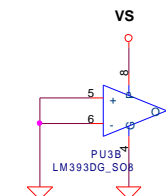
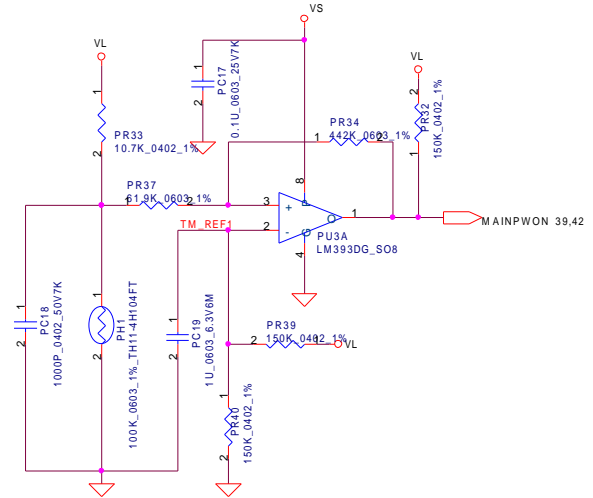
BATT ONLY			
	Precharge detector		
	Min.	typ.	Max.
H->L	6.169V	6.231V	6.361V
L->H	7.168V	7.349V	7.537V



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Size	B	Document Number		Rev	0.1
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PH1 under CPU botten side :
CPU thermal protection at 85 degree C
Recovery at 70 degree C

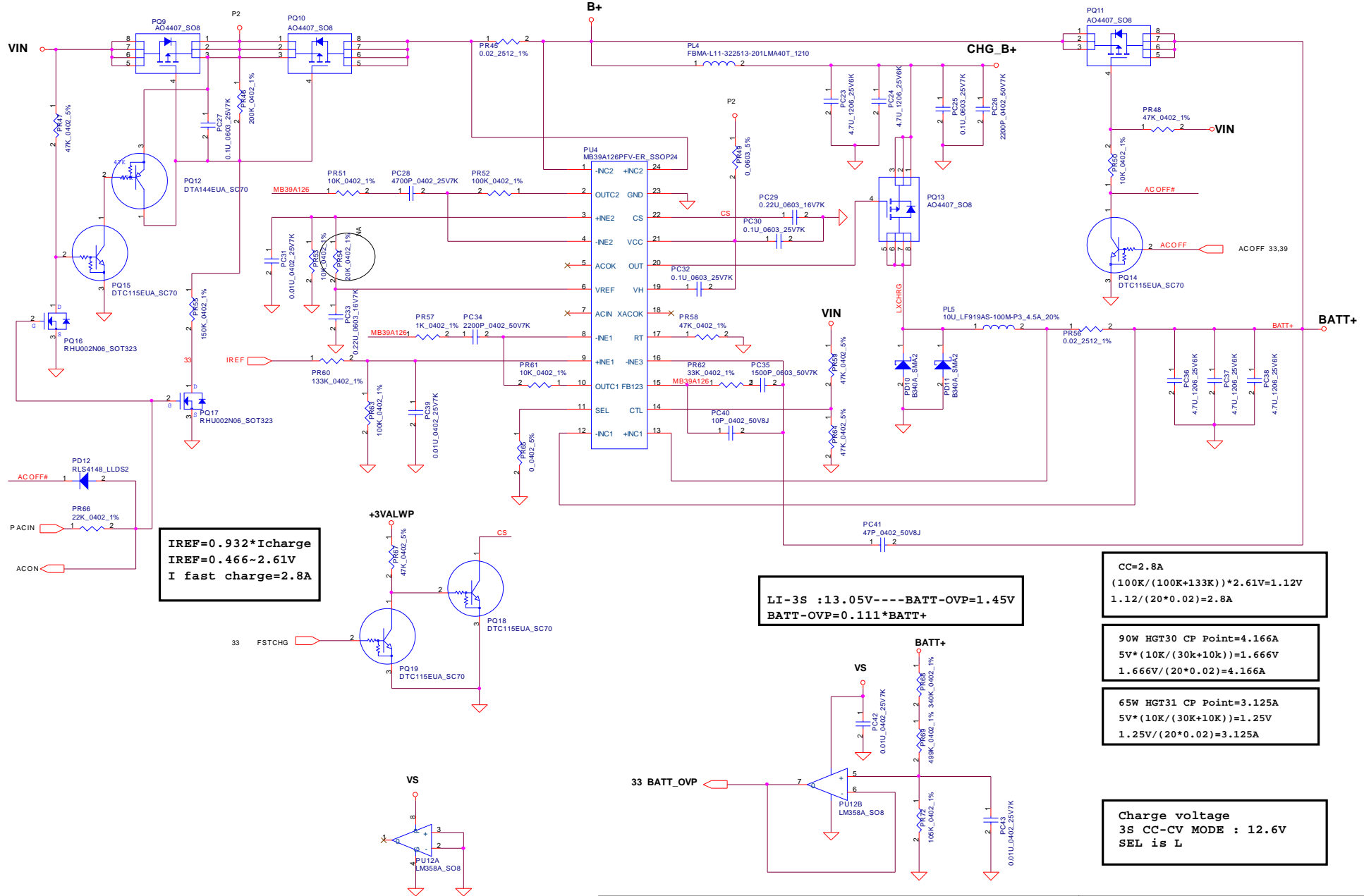


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Issued Date	2005/08/01	Deciphered Date	2006/08/01	Title	
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Size B	Document Number			Rev	0.1
Date: 星期四, 六月 08, 2006		Sheet 40 of 48			

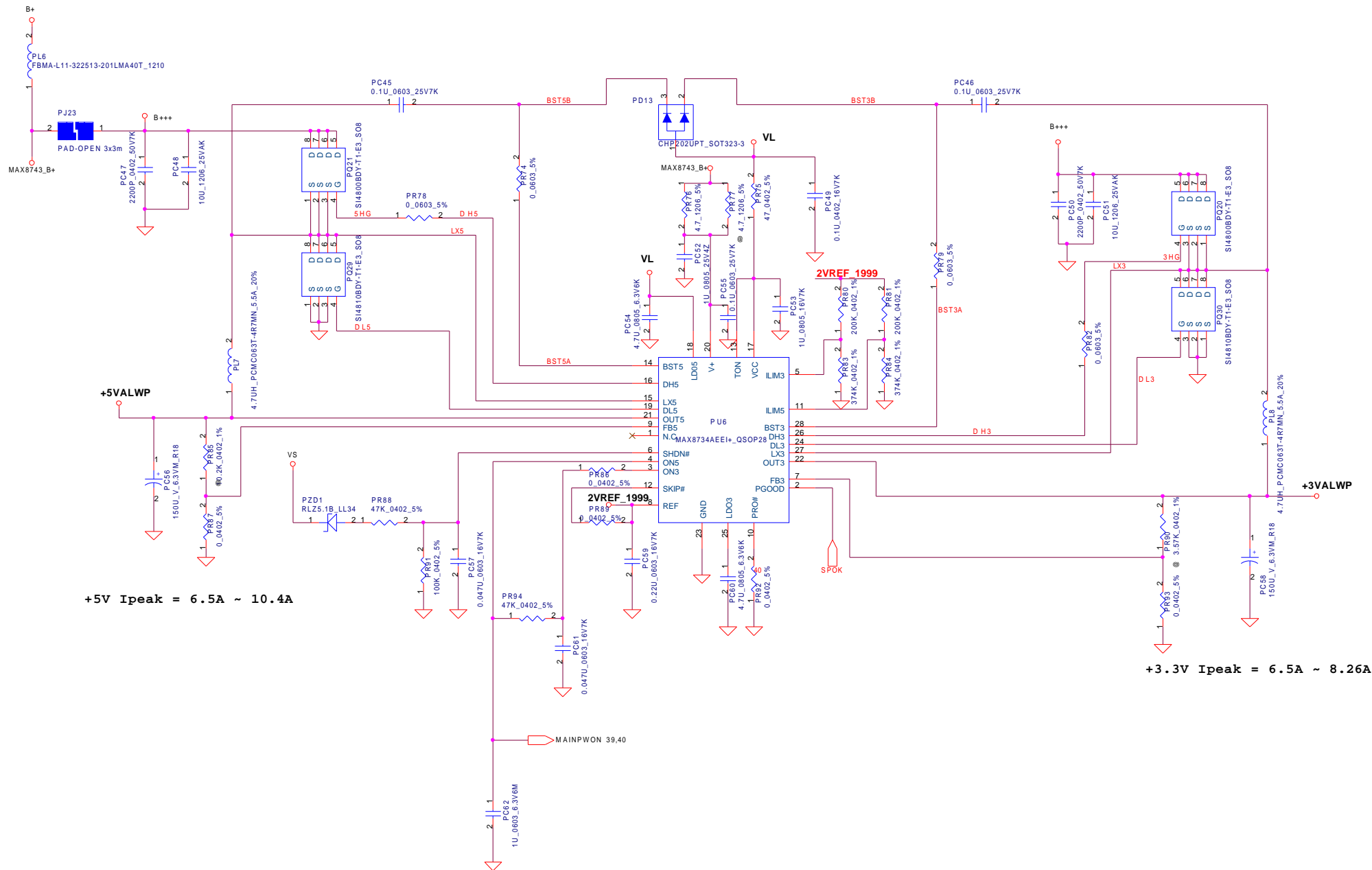
65W PR45=0.02_2512_1% PR54=30K_0402_1% Iadp=0~3.125A
90W PR45=0.02_2512_1% PR54=20K_0402_1% Iadp=0~4.166A

Fosc=14100/Rt=14100/47=300KHz

Charger

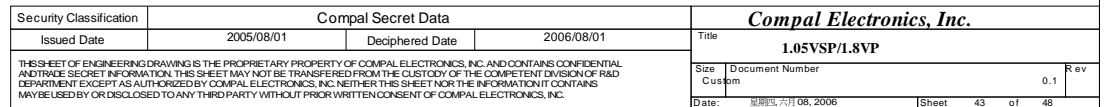


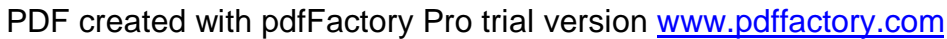
Security Classification				Compal Secret Data				Compal Electronics, Inc.			
Issued Date				2005/08/01				Title			
				Deciphered Date				PWR-Charger			
				2006/08/01				Size			
								Document Number			
								Rev			
								0.1			
								Date			
								星期日, 六月 08, 2006			
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								41 of 48			

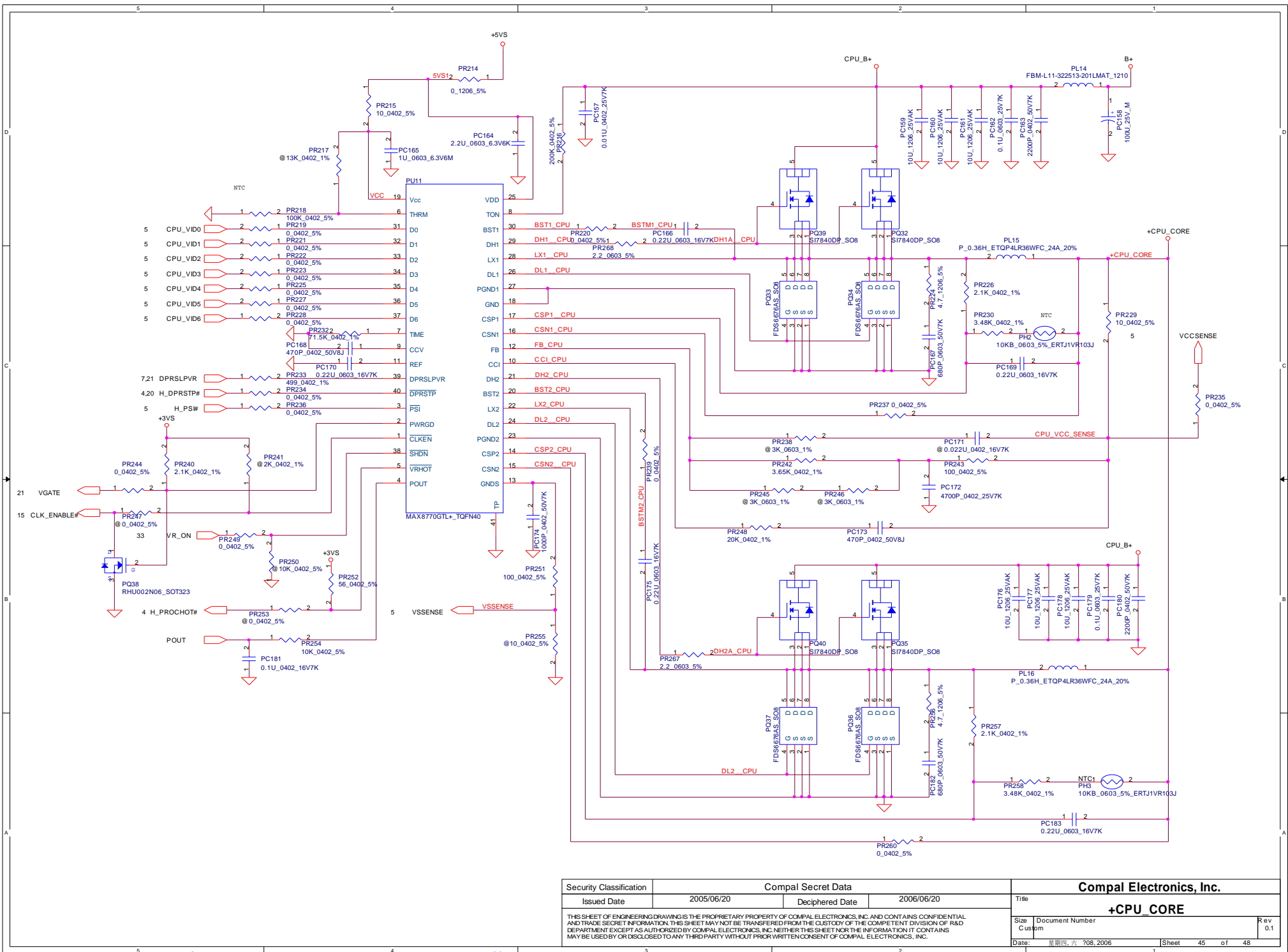


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Size	Document Number	Rev		Date	
Custom		0.1		星期四, 六月 08, 2006	
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+1.05VSP Ilimit=6.33A~10.03A







Version change list (P.I.R. List)

Page 1 of 1
for PWR

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	VER	Phase
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
8							
9							

Compal Electronics, Inc.		
Title PIR (PWR)		
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Version change list (P.I.R. List)

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Item	Fixed Issue	Rev.	PG#	Modify List	B.Ver#	Phase
1					0.2	DVT
2					0.2	DVT
3					0.2	DVT
4					0.2	DVT
5					0.2	DVT
6					0.2	DVT
7					0.2	DVT
8					0.2	DVT
9					0.2	DVT
10					0.2	DVT
11					0.2	DVT

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Compal Electronics, Inc.			
Title			
PIR			
Size	Document Number		Rev
	HGT30/31 LA-3061		0.0
Date:	日期 1, 六月 08, 2006		Sheet 47 of 48

Version change list (P.I.R. List)

Page 1 of 1

Item	Fixed Issue	Rev.	PG#	Modify List	B.Ver#	Phase
12					0.3	PVT
13					0.3	PVT
14					0.3	PVT
15					0.3	PVT
16					0.3	PVT

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www.91xiu.com

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Compal Electronics, Inc.			
Title			
PIR			
Size	Document Number		Rev
	HGT30/31 LA-3061		0.0
Date:	日期	08, 2006	Sheet 48 of 48