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PCB

SE000008600

# Compal Confidential

## Everest Schematics Document

Intel Merom Processor with Crestline + DDRII + ICH8M

2007-03-05

REV: 0.2

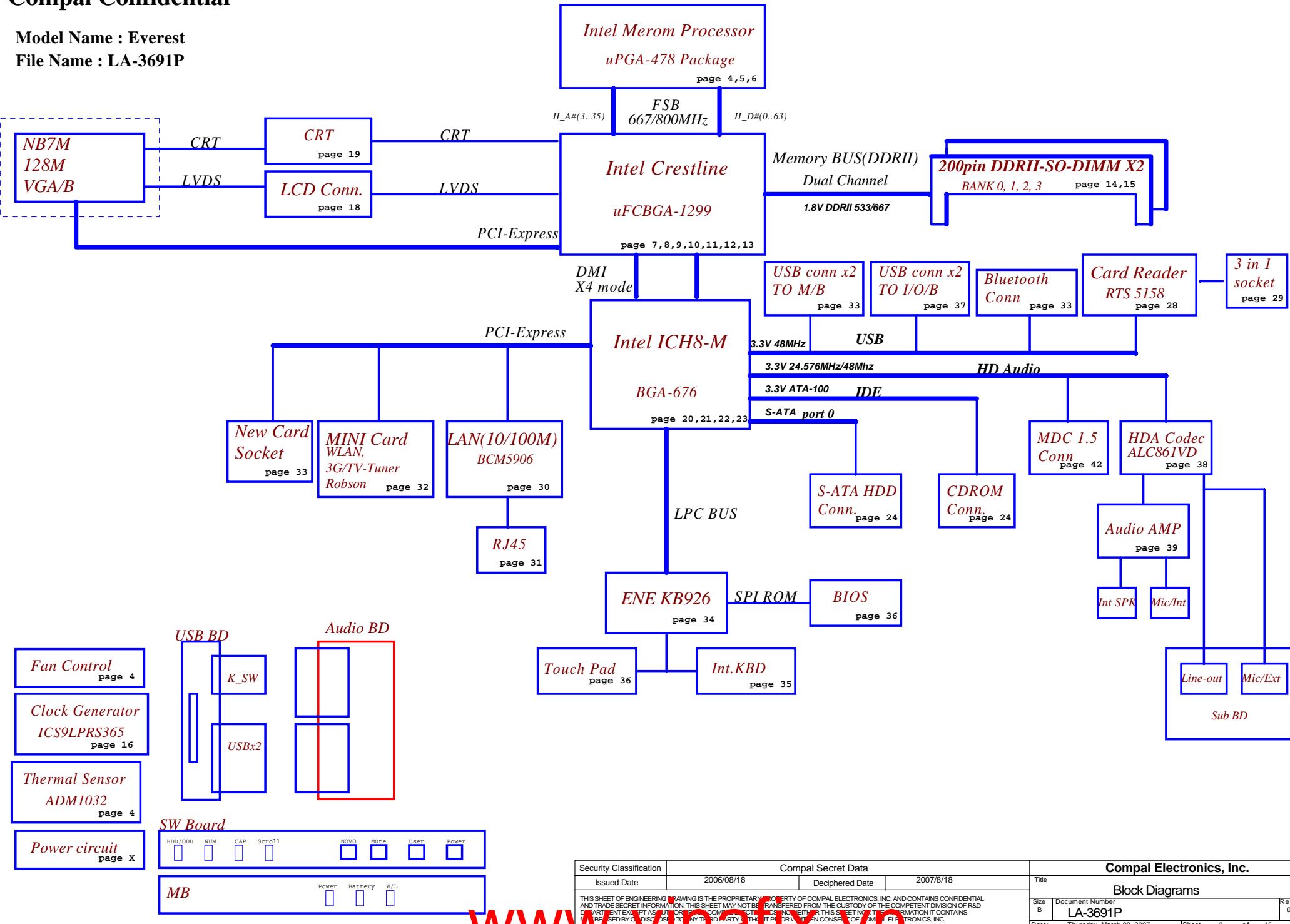
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Model Name : Everest

File Name : LA-3691P



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Block Diagrams

Size B Document Number

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## Voltage Rails

Power Plane	Description	S1	S3	S5
VIN	Adapter power supply (19V)	N/A	N/A	N/A
B+	AC or battery power rail for power circuit.	N/A	N/A	N/A
+CPU_CORE	Core voltage for CPU	ON	OFF	OFF
+0.9VS	0.9V switched power rail for DDR terminator	ON	OFF	OFF
+1.05VS	1.05V switched power rail	ON	OFF	OFF
+1.25VS	1.25V switched power rail	ON	OFF	OFF
+1.5VS	1.5V switched power rail	ON	OFF	OFF
+1.8V	1.8V power rail for DDR	ON	ON	OFF
+1.8VS	1.8V switched power rail	ON	OFF	OFF
+2.5VS	2.5V switched power rail	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON*
+5VS	5V switched power rail	ON	OFF	OFF
+VSB	VSB always on power rail	ON	ON	ON*
+RTCVCC	RTC power	ON	ON	ON

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

## BOARD ID Table

ID1	ID0	TEST
0(R744)	0(R745)	A-TEST
0(R744)	1(R742)	B-TEST
1(R741)	0(R745)	C-TEST

## PANEL ID Table

R	Size
Ra (R743)	15W
Rb (R740)	14W

Note : ON\* means that this power plane is ON only with AC power available, otherwise it is OFF.

## External PCI Devices

DEVICE	IDSEL #	REQ/GNT #	PIRO
--------	---------	-----------	------

## No PCI Device

## EC SM Bus1 address

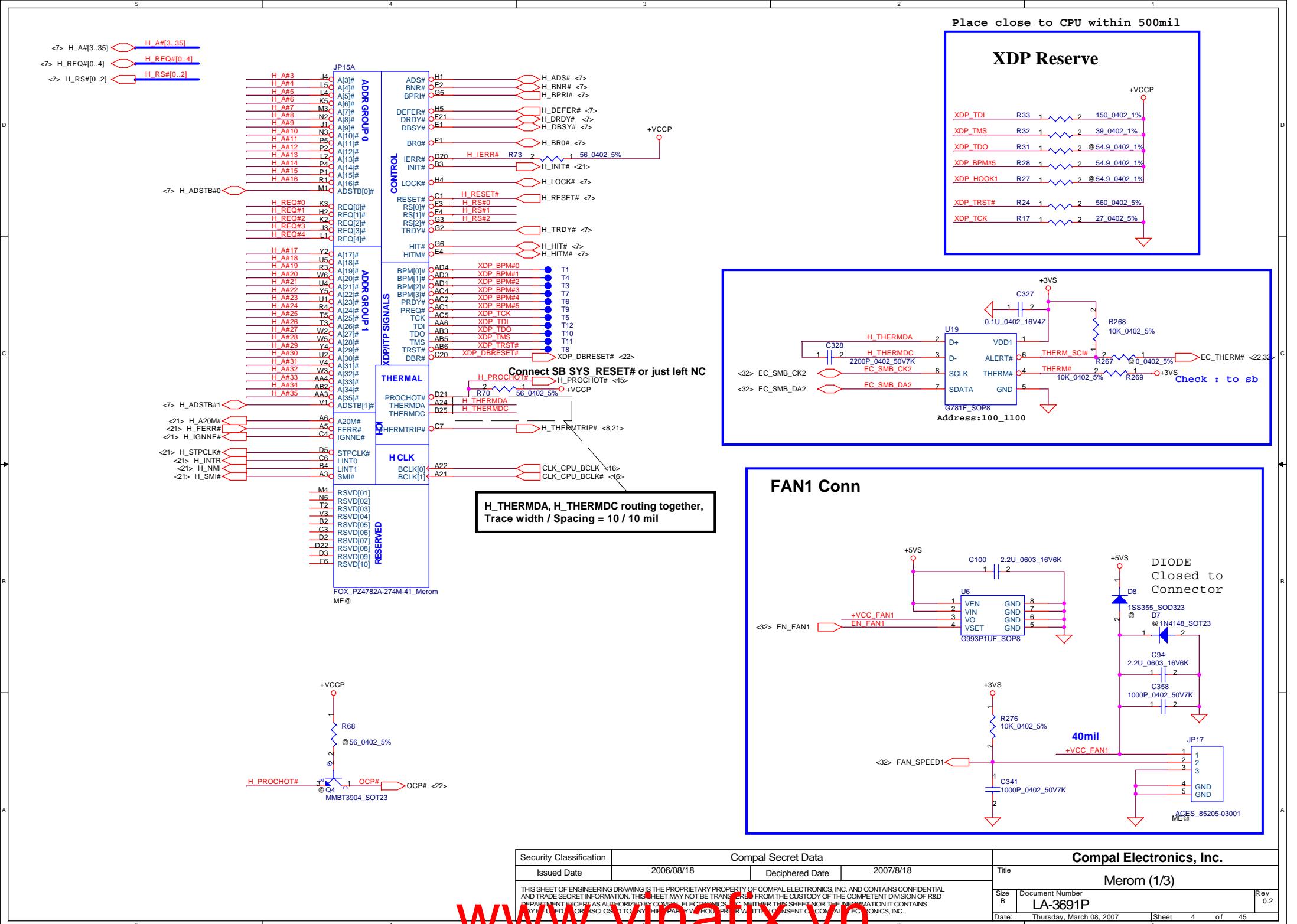
Device	Address	Device	Address
Smart Battery	0001 011X b	GMT-781	1001 100X b
EEPROM(24C16/02)	1010 000X b	NVIDIA NB8X	

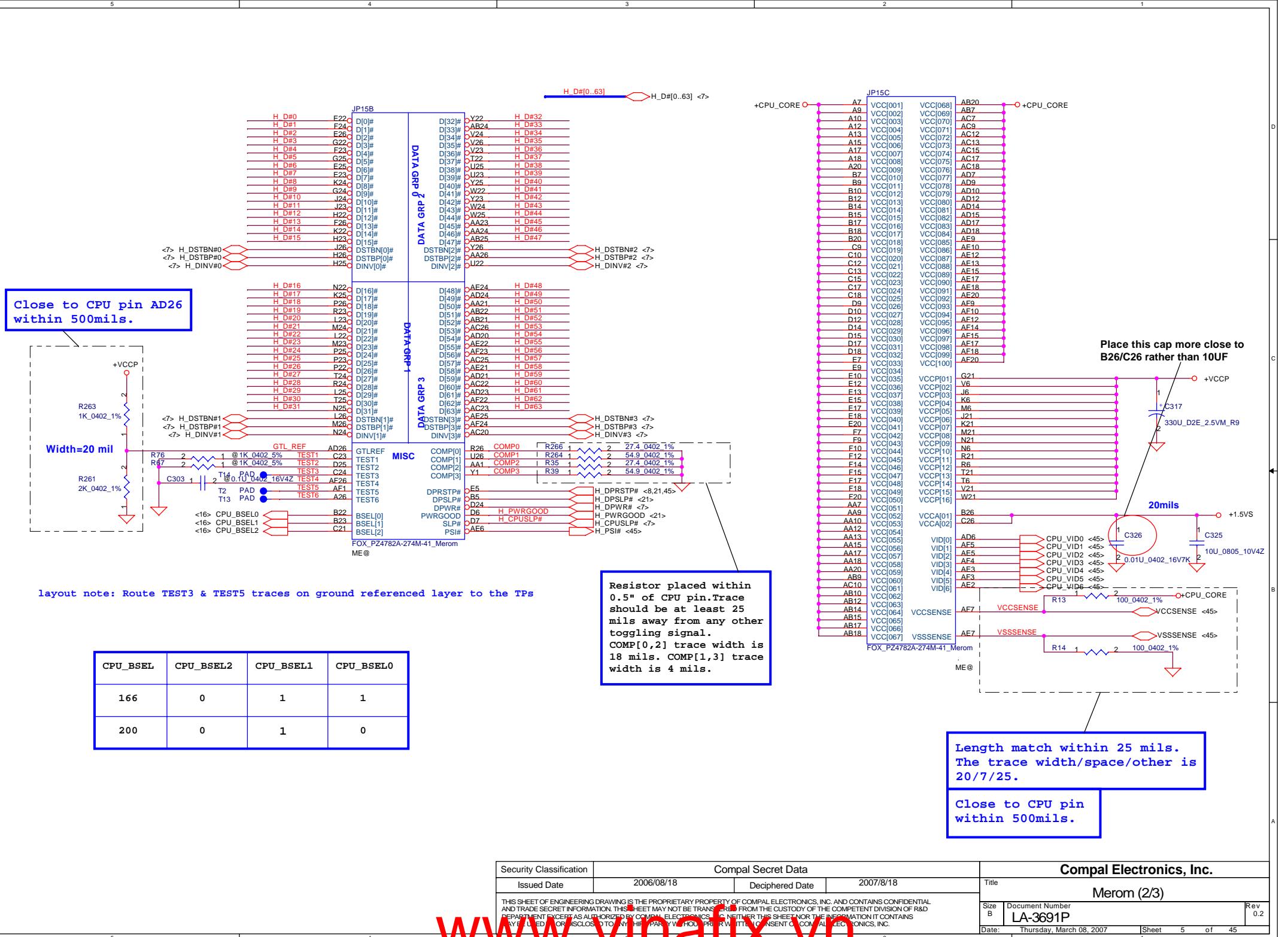
## EC SM Bus2 address

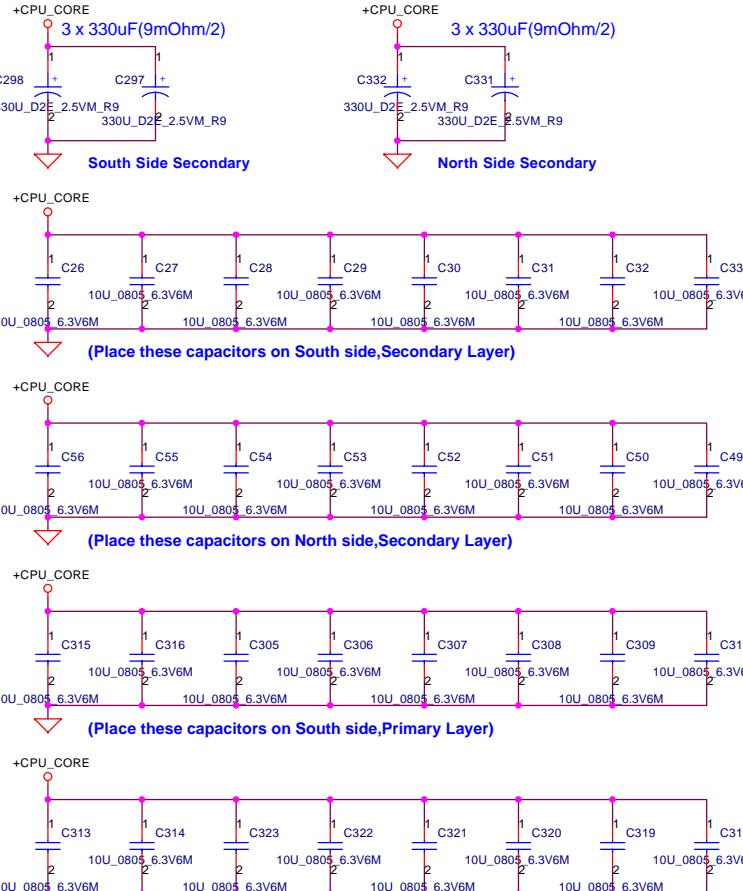
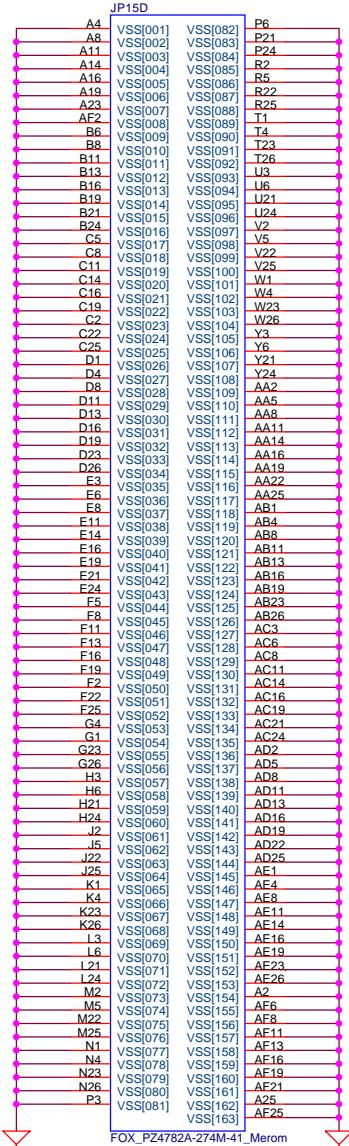
## ICH8M SM Bus address

Device	Address
Clock Generator (ICSSLPRS325AKLFT_MLF72)	1101 001Xb
DDR DIMMO	1010 000Xb
DDR DIMM1	1010 010Xb

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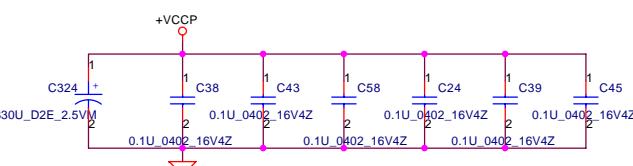






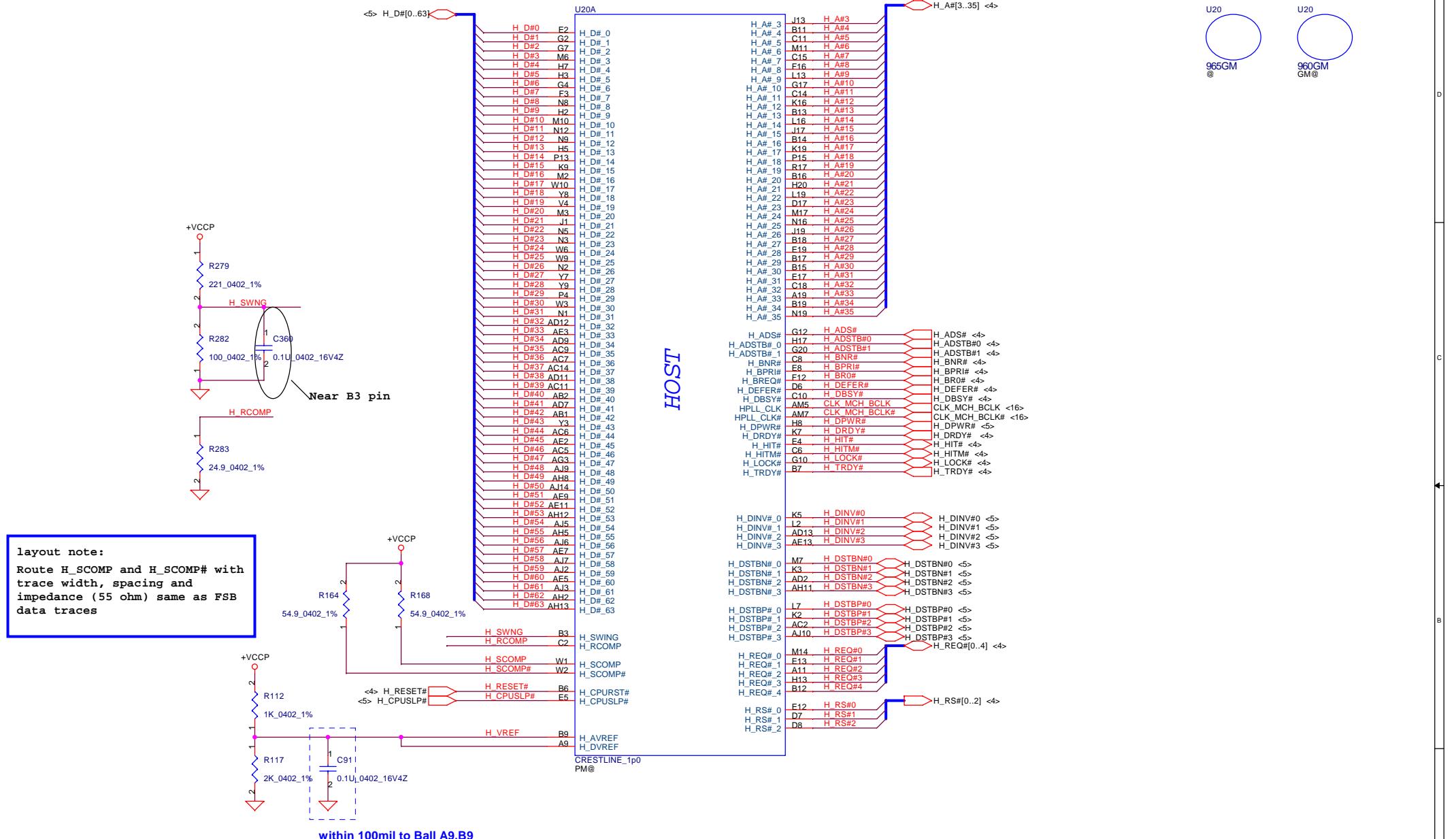
9/25 10U checked. OK for use!

+CPU-CORE Decoupling	C,uF	ESR, mohm	ESL,nH
SPCAP,Polymer	6X330uF	9m ohm/6	1.8nH/6
MLCC 0805 X5R	32X22uF 32X10uF	3m ohm/32 3m ohm/32	0.6nH/32 0.6nH/32



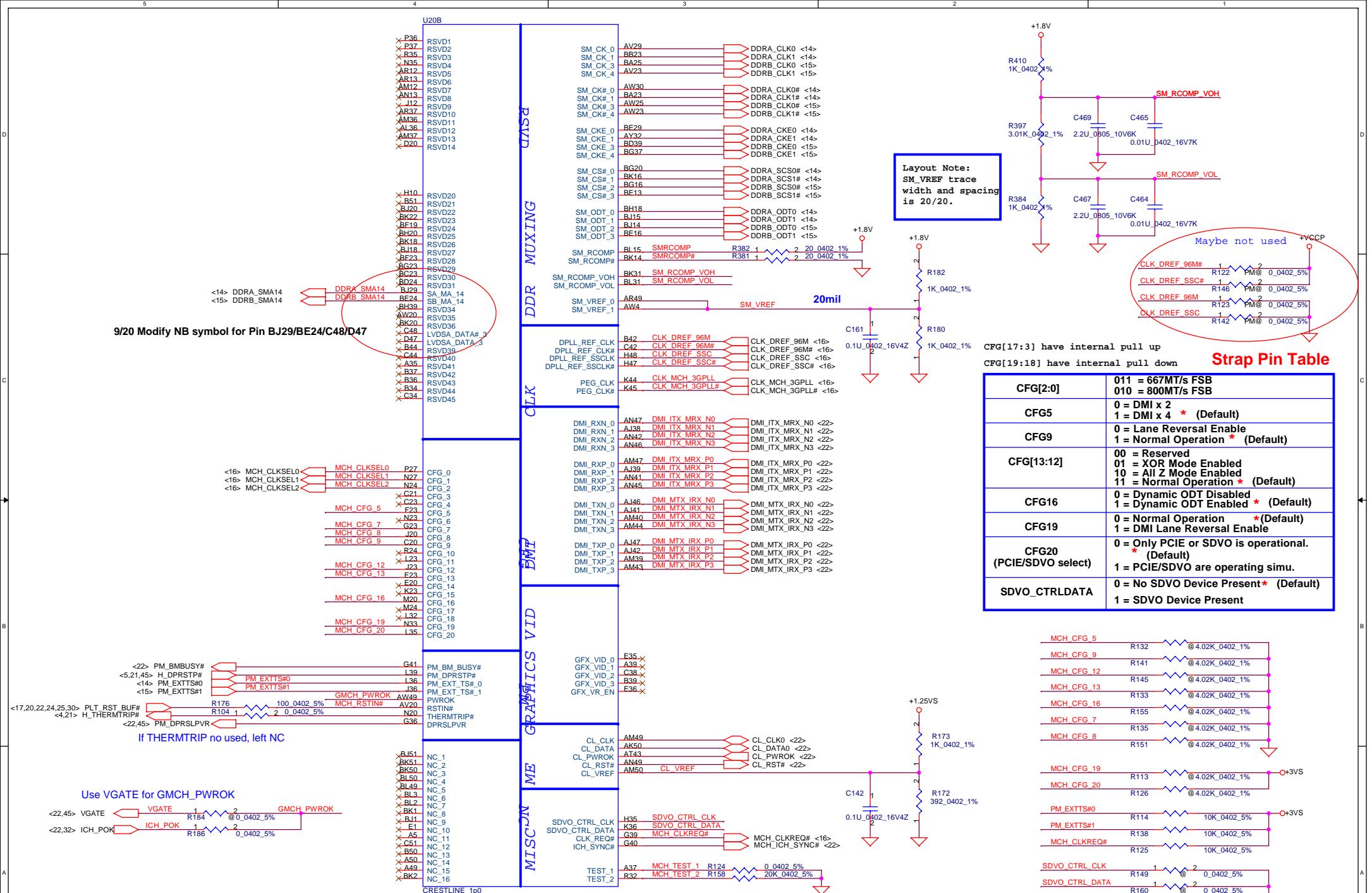
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**Layout Note:**  
H\_RCOMP / H\_VREF / H\_SWNG  
trace width and spacing is 10/20

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Crestline (2/7)-DMI/DDR

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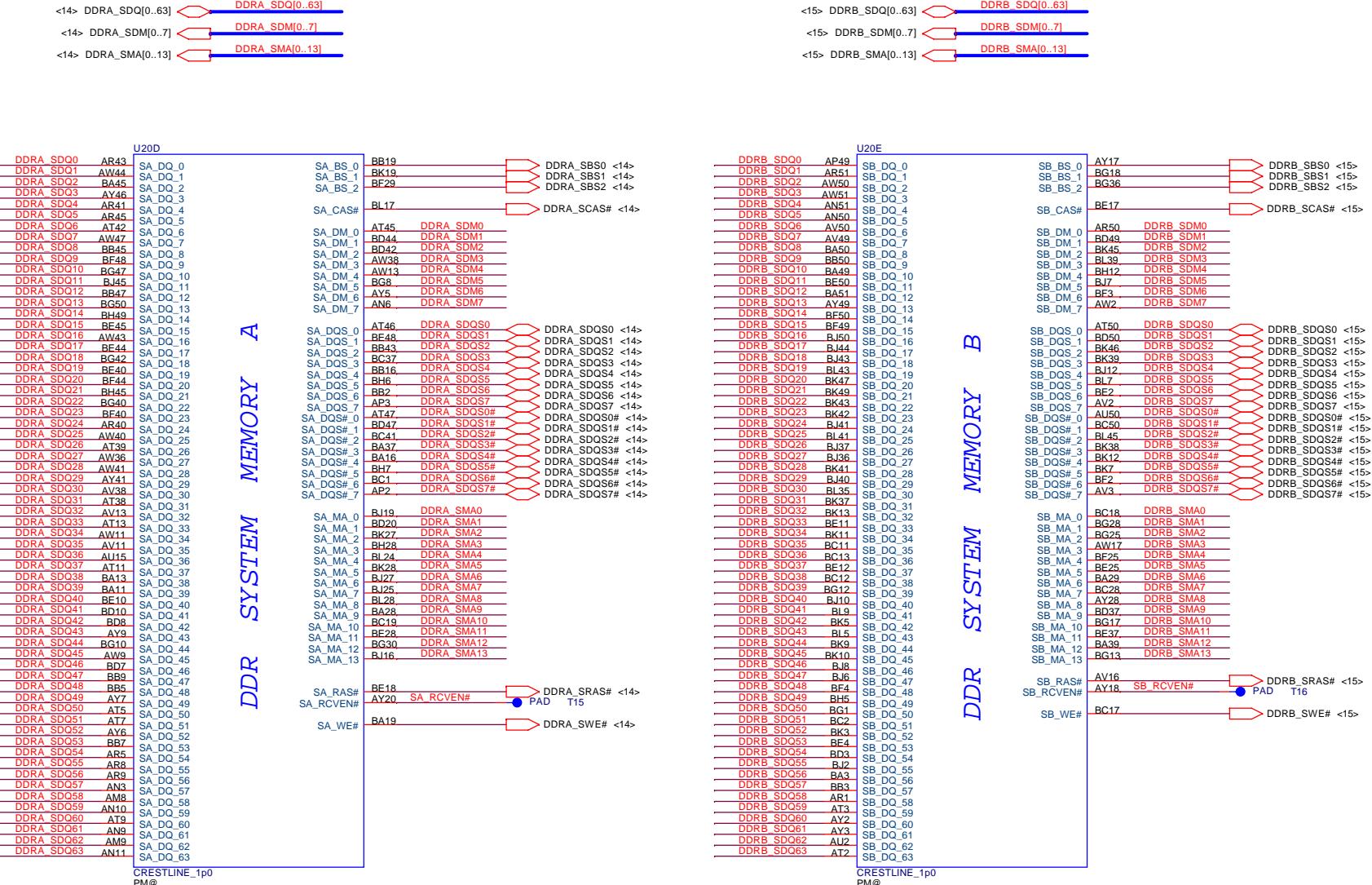
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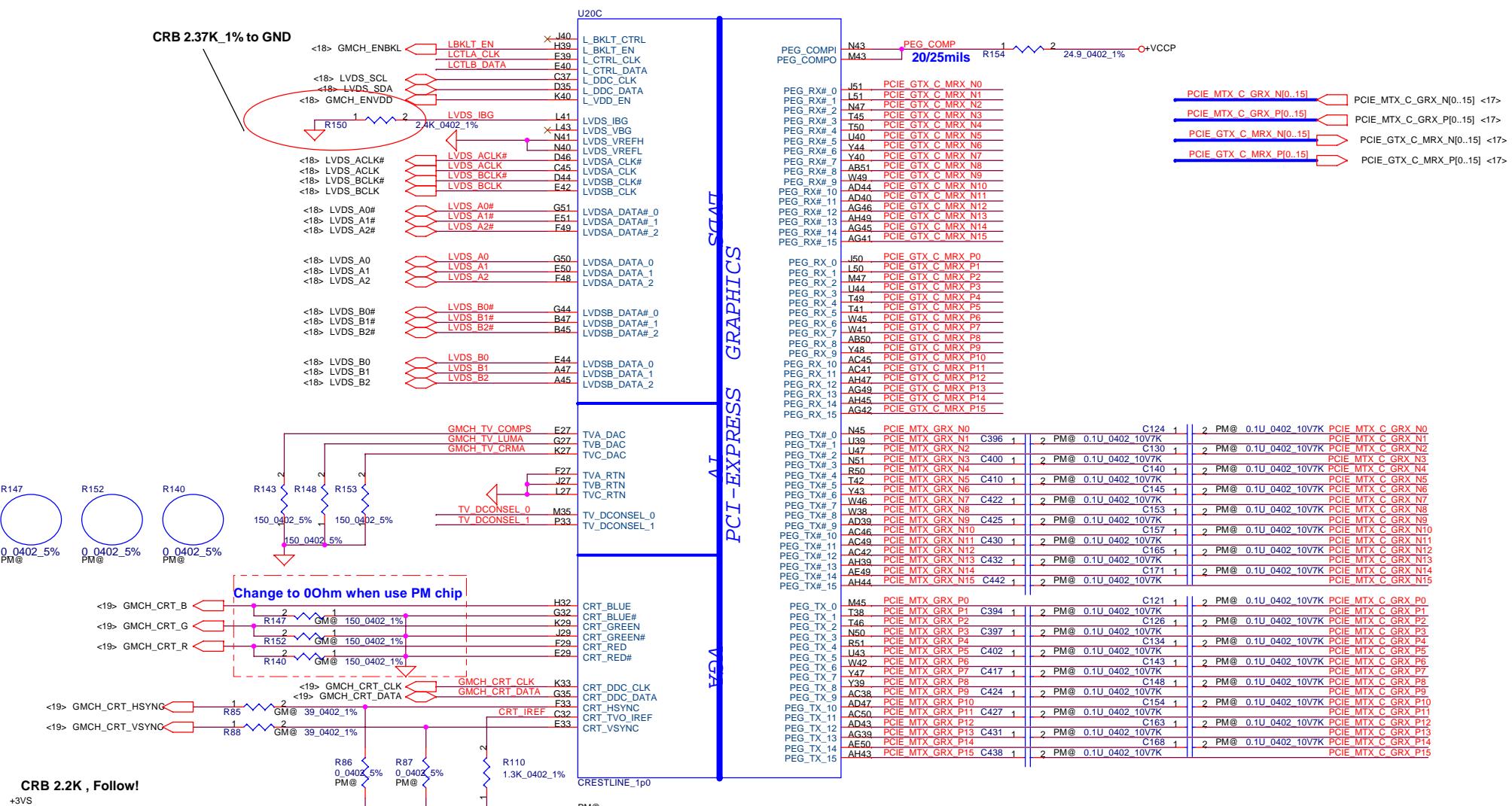
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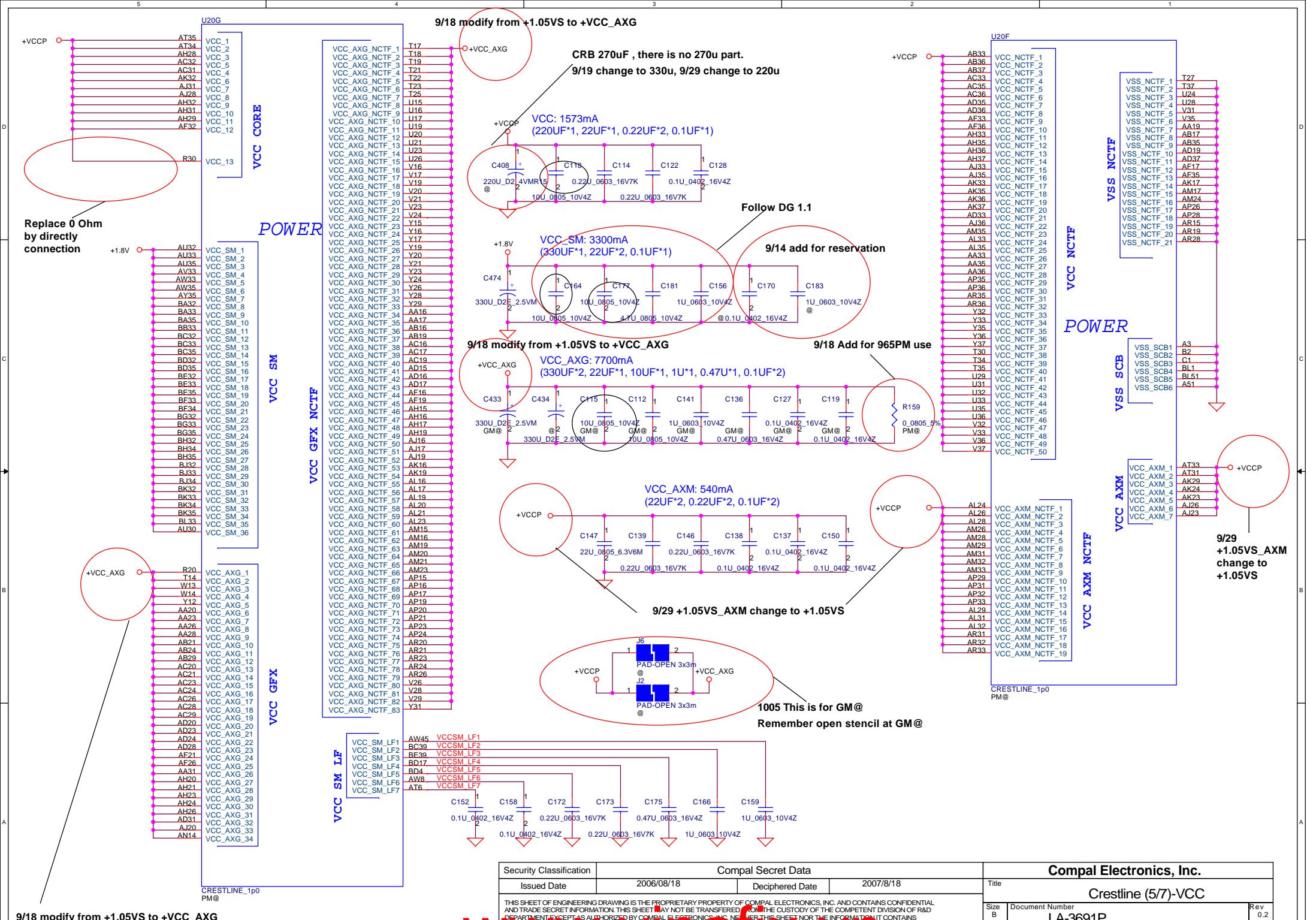
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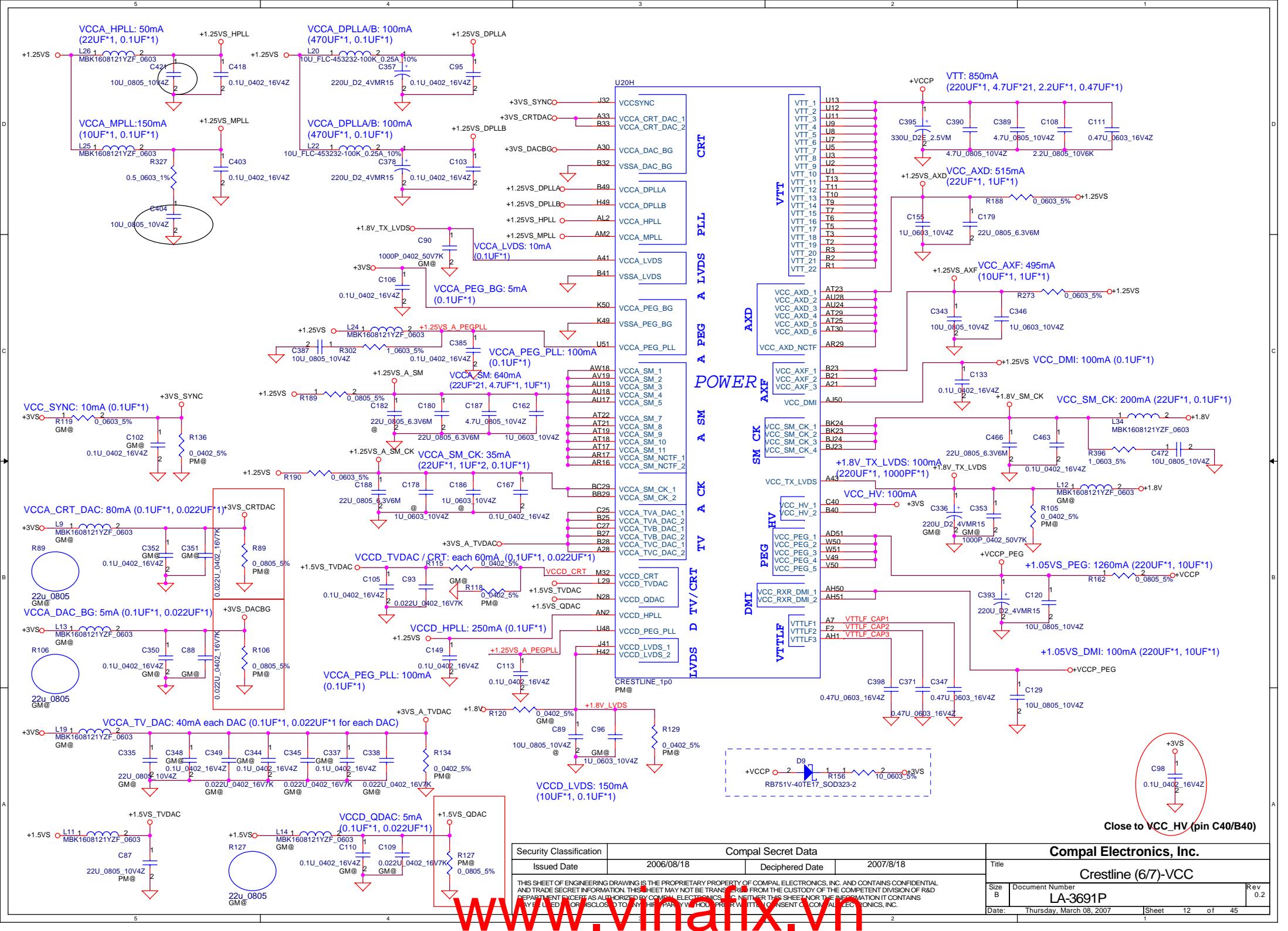


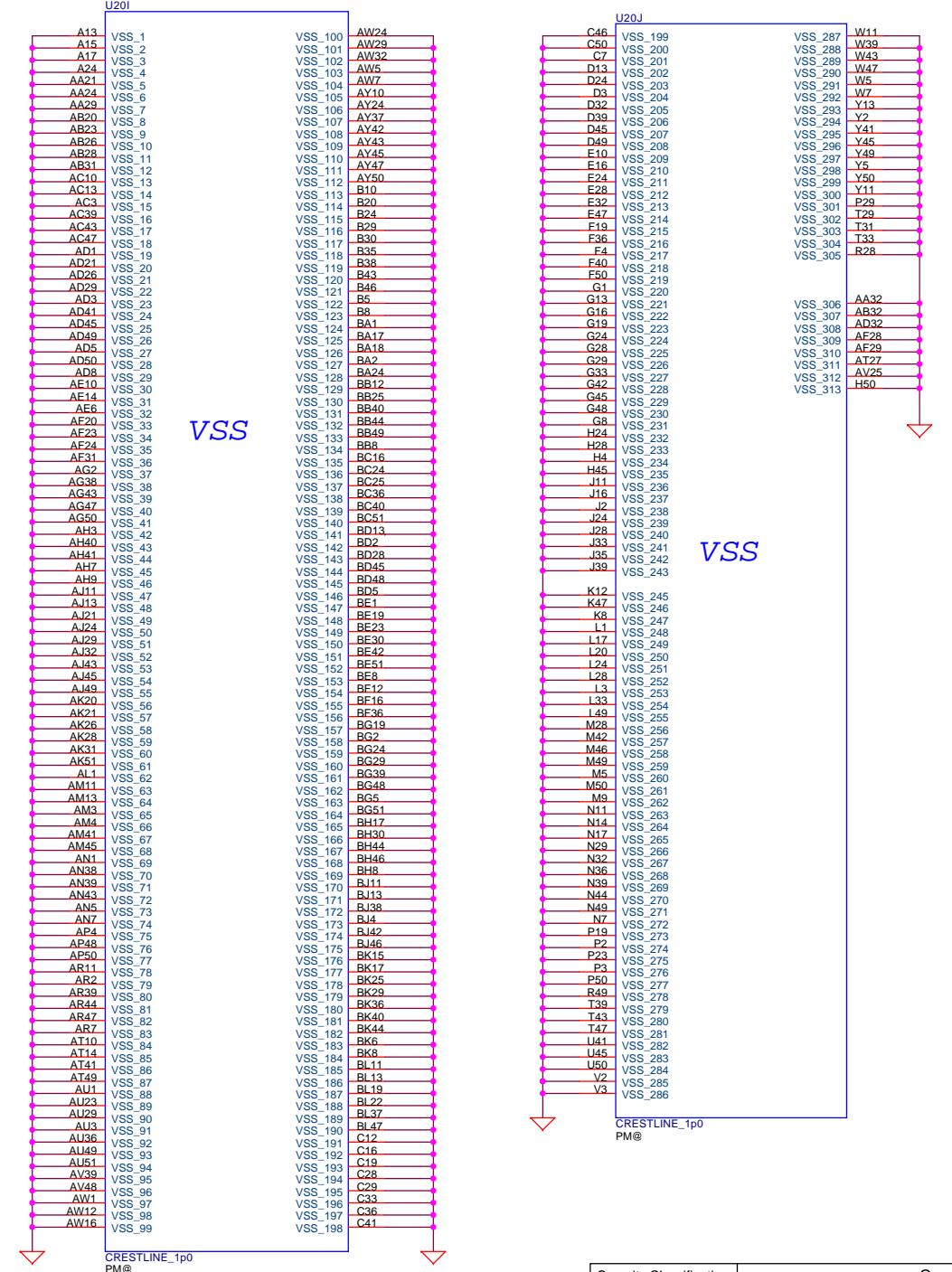
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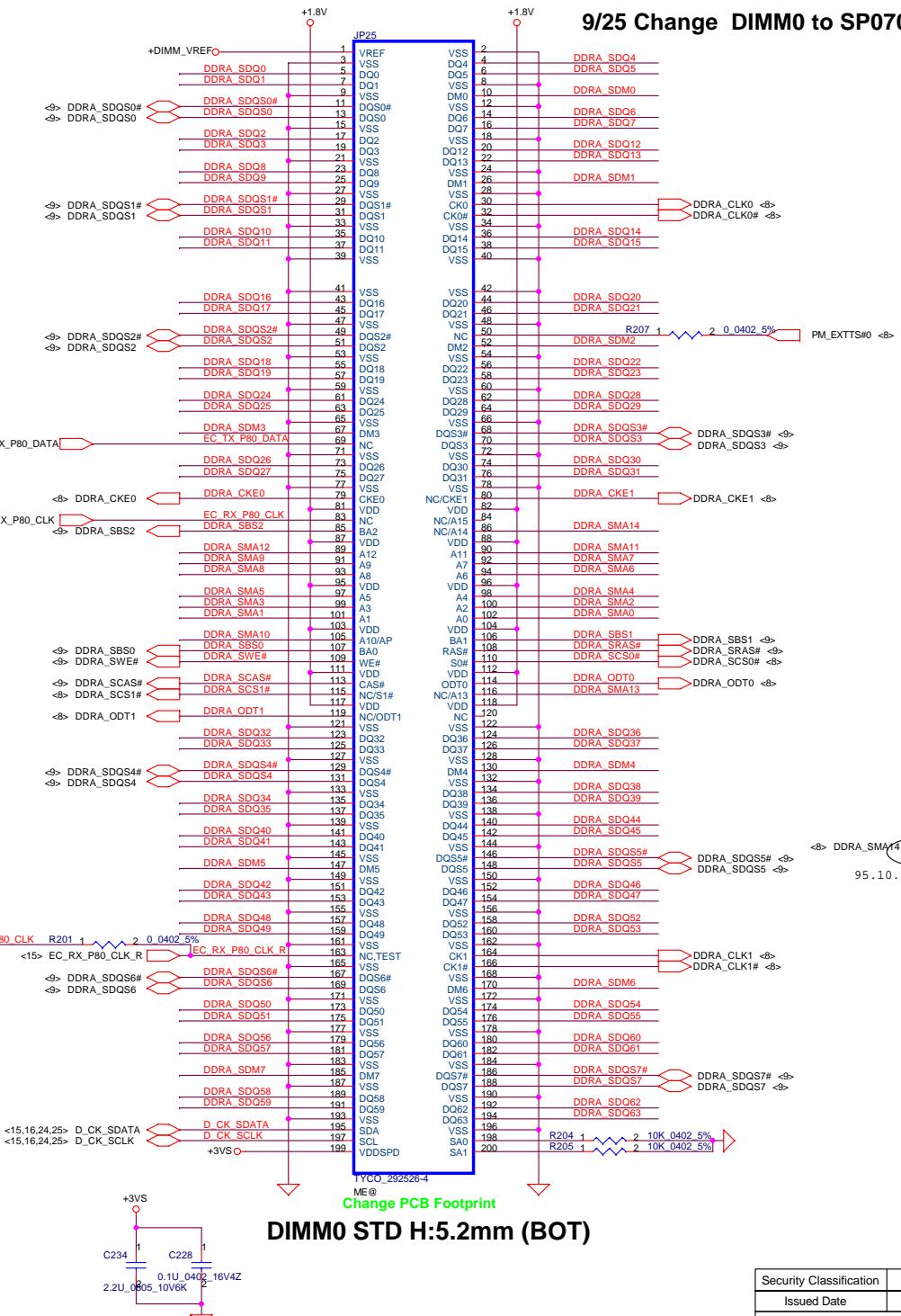




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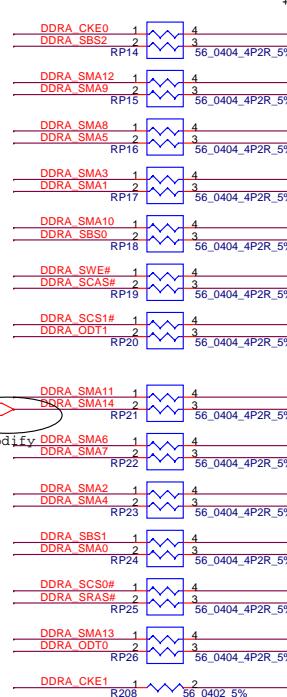
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# 9/25 Change DIMM0 to SP070004Z00 (HBL50)

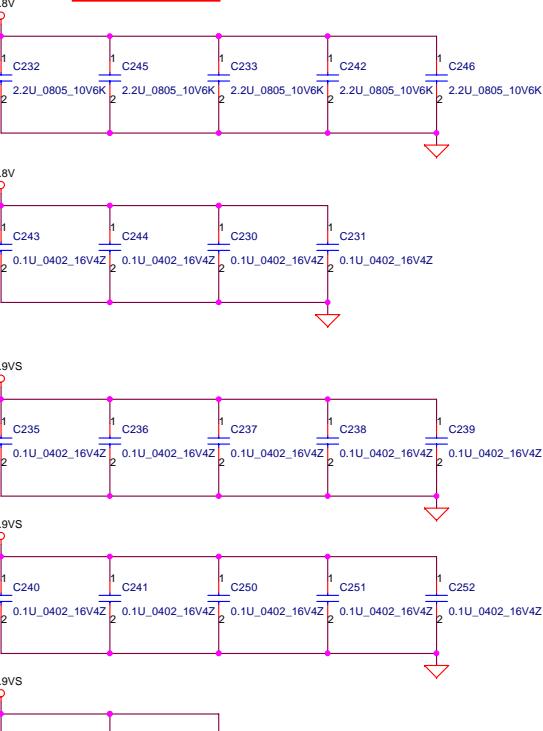


Layout Note:  
Place these resistor closely JP35, all  
trace length Max=1.5"

Layout Note:  
Place near JP35

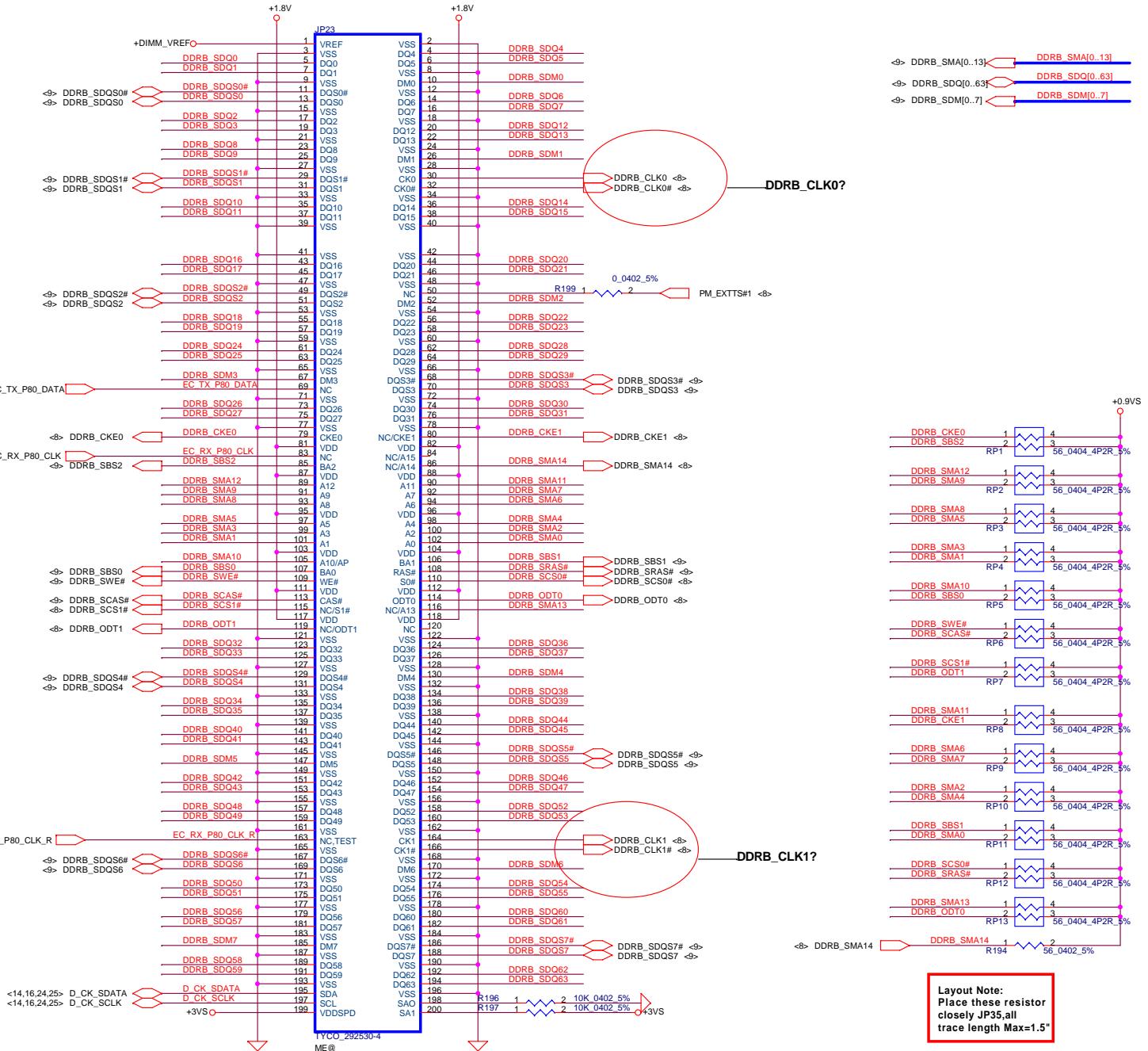


Layout Note:  
Place one cap close to every 2 pullup  
resistors terminated to +0.9V

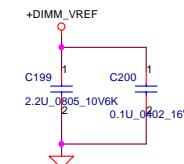


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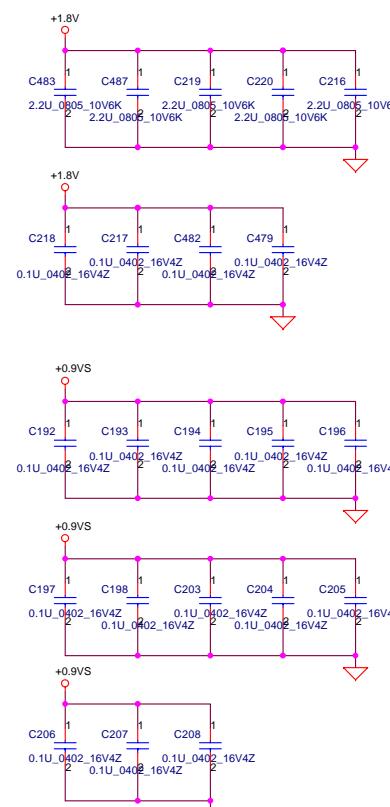
# 9/25 Change DIMM1 to SP070006F00



Layout Note:  
Place these resistor  
closely JP35.all  
trace length Max=1.5"



**Layout Note:**  
Place near JP34



Layout Note:  
Place one cap close to every 2 pullup  
resistors terminated to +0.9VS

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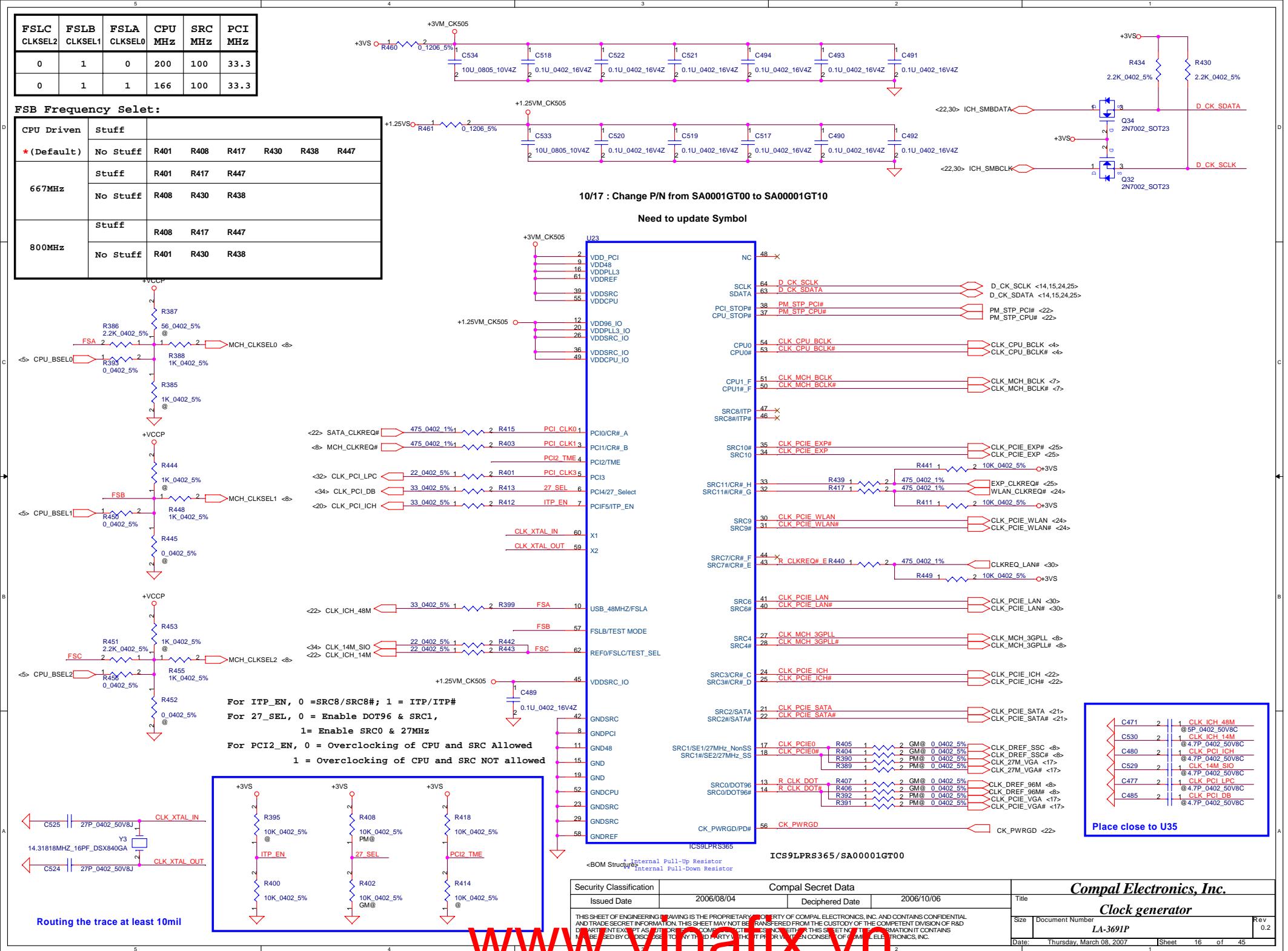
**DDR2-SODIMM1**

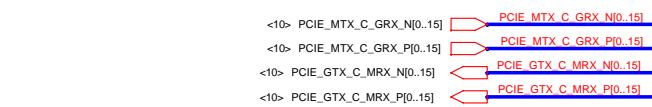
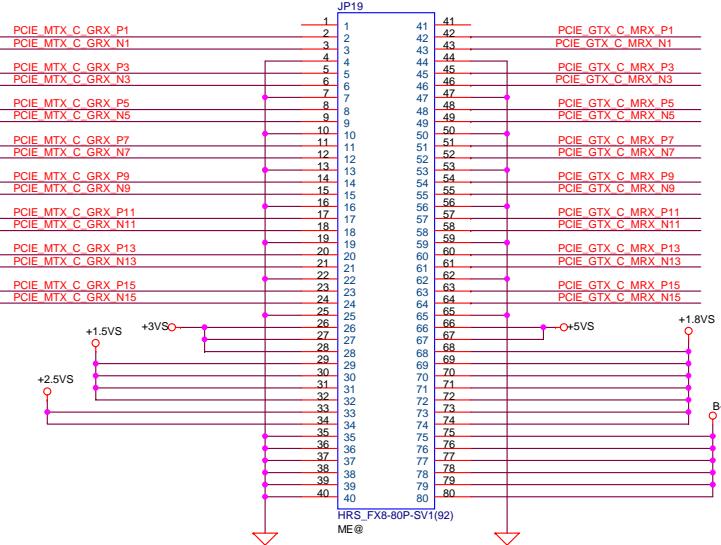
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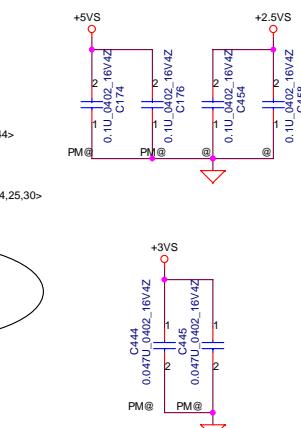
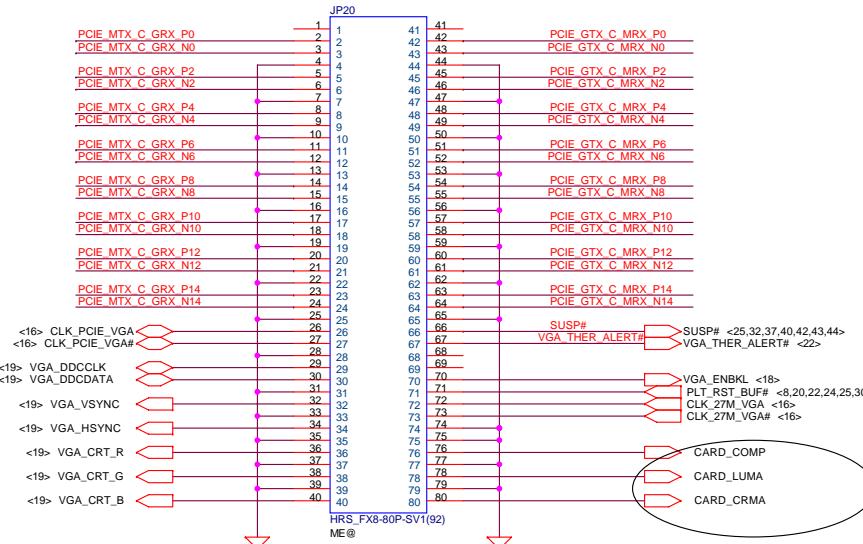
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MAX. 4.06A @ 1.8V  
MAX. 130mA @ 2.5V  
MAX. 655mA @ 3.3V

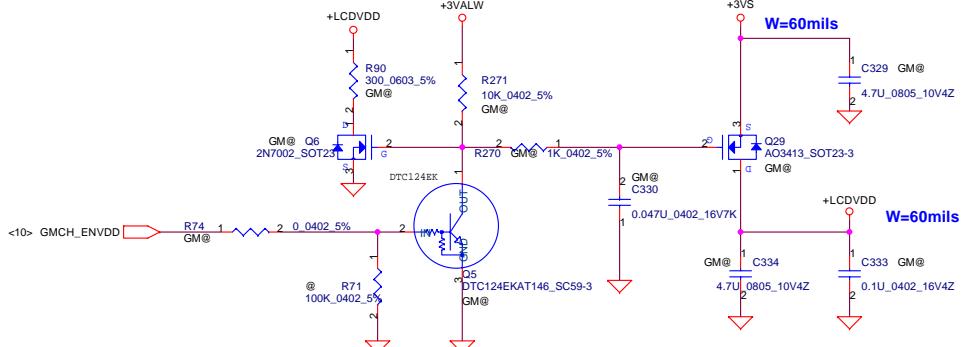


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VGA/B connector		
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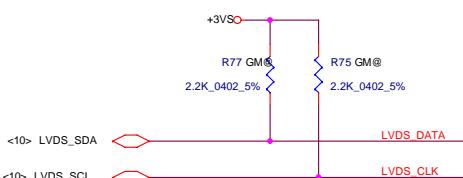
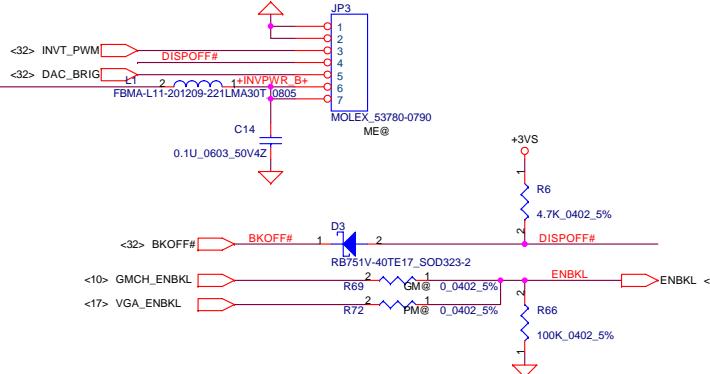
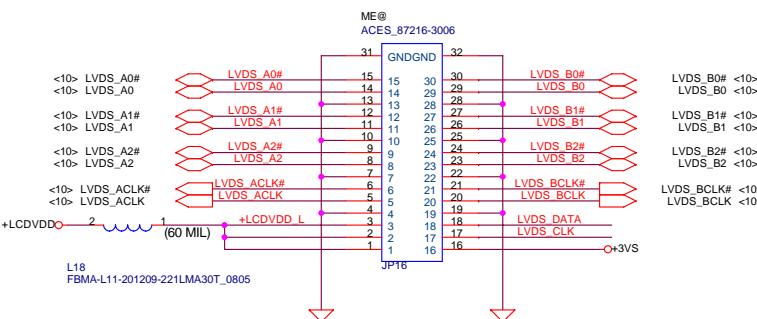
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# LCD POWER CIRCUIT

# INVERTER Conn.



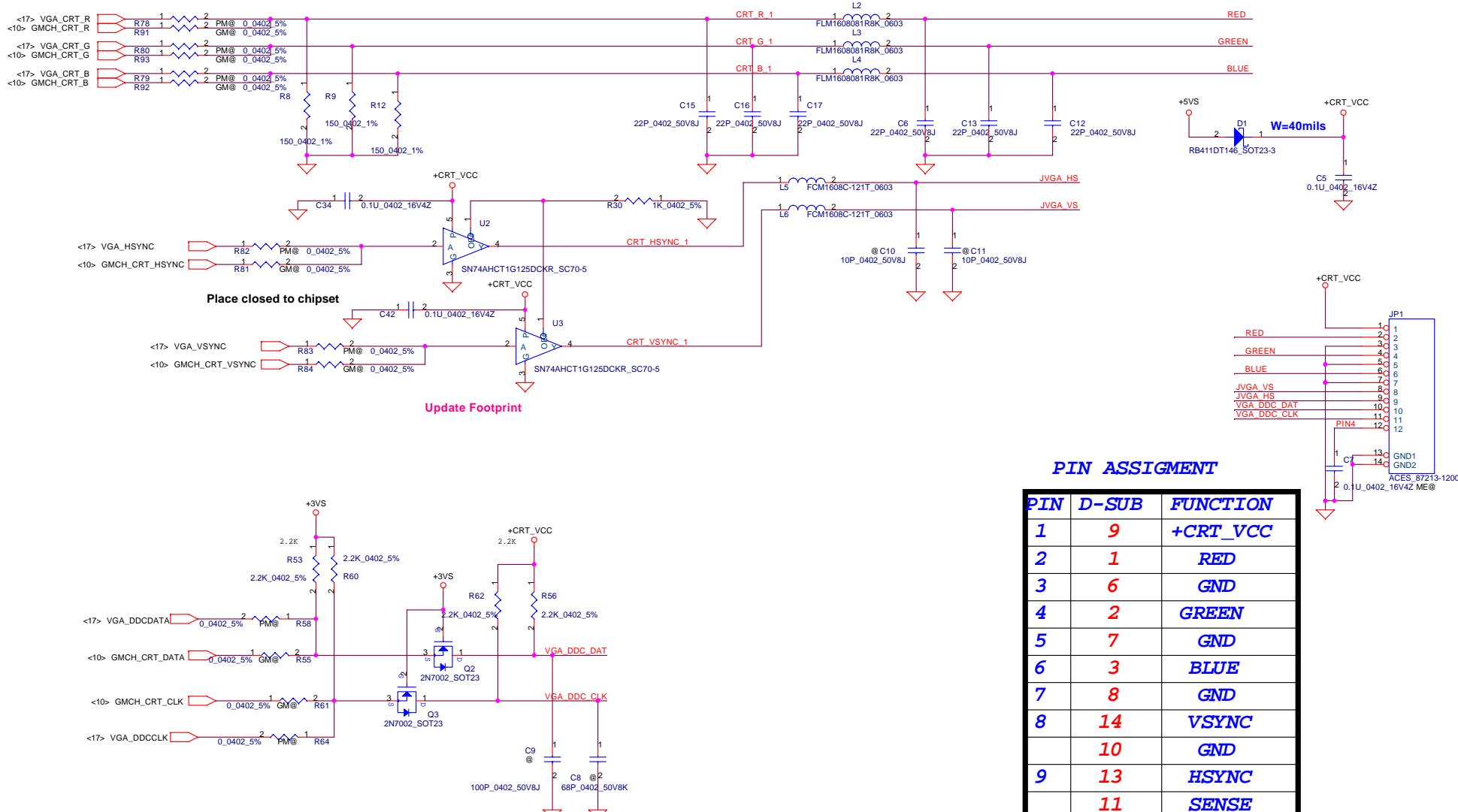
## LCD/PANEL BD. Conn.



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**CRT Connector**

Place closed to chipset



## **PIN ASSIGNMENT**

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

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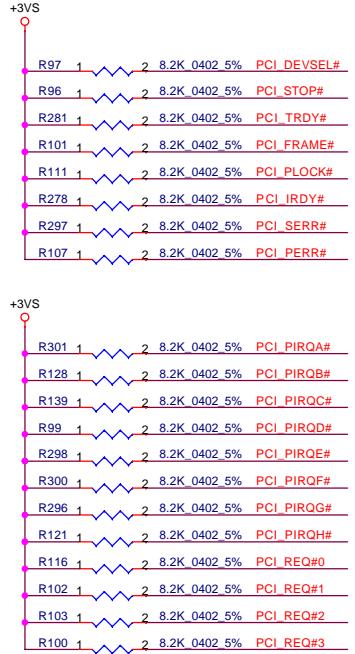
CBT & TV-OUT Connector

Ent Number

LA-3691P

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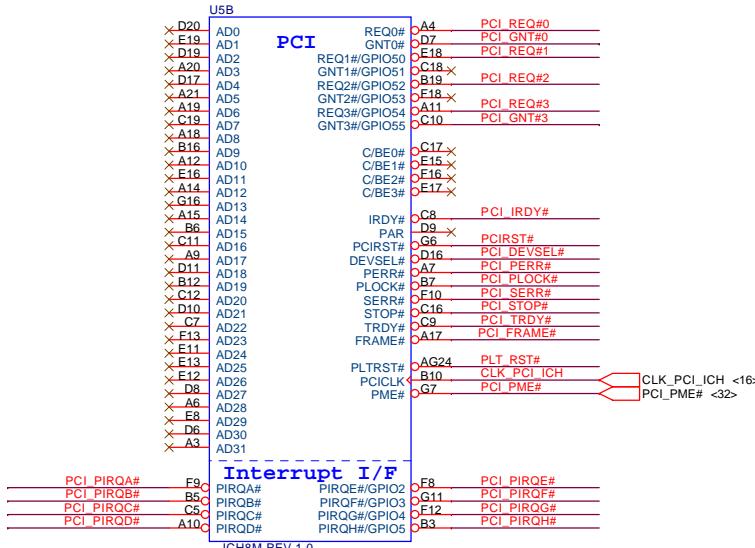
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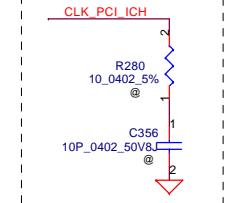
**10/17 : Change P/N from SA000010G00 to SA00001JU10**

10/17 : FootPrint : SA000010G00

BOM : SA00001JU10

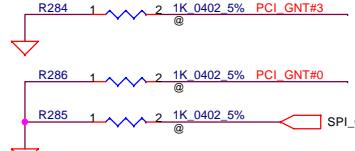


| Place closely pin B



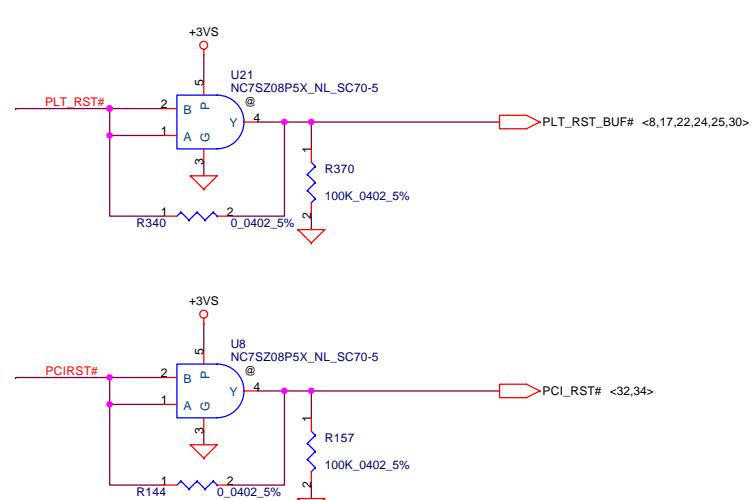
## A16 Swap Override Strap

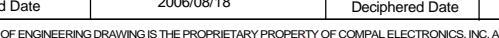
**PCI\_GNT#3** Low= A16 swap override Enable  
High= Default\*

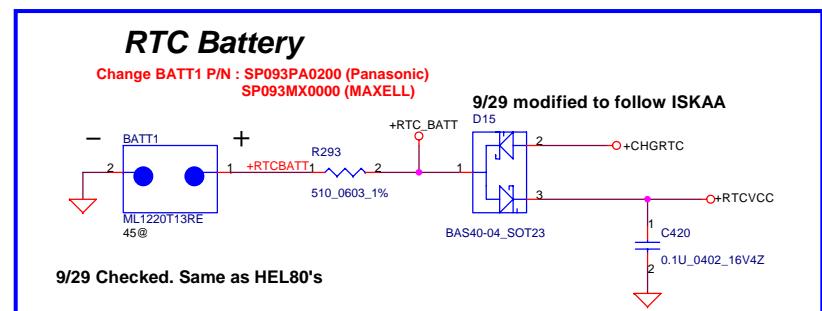
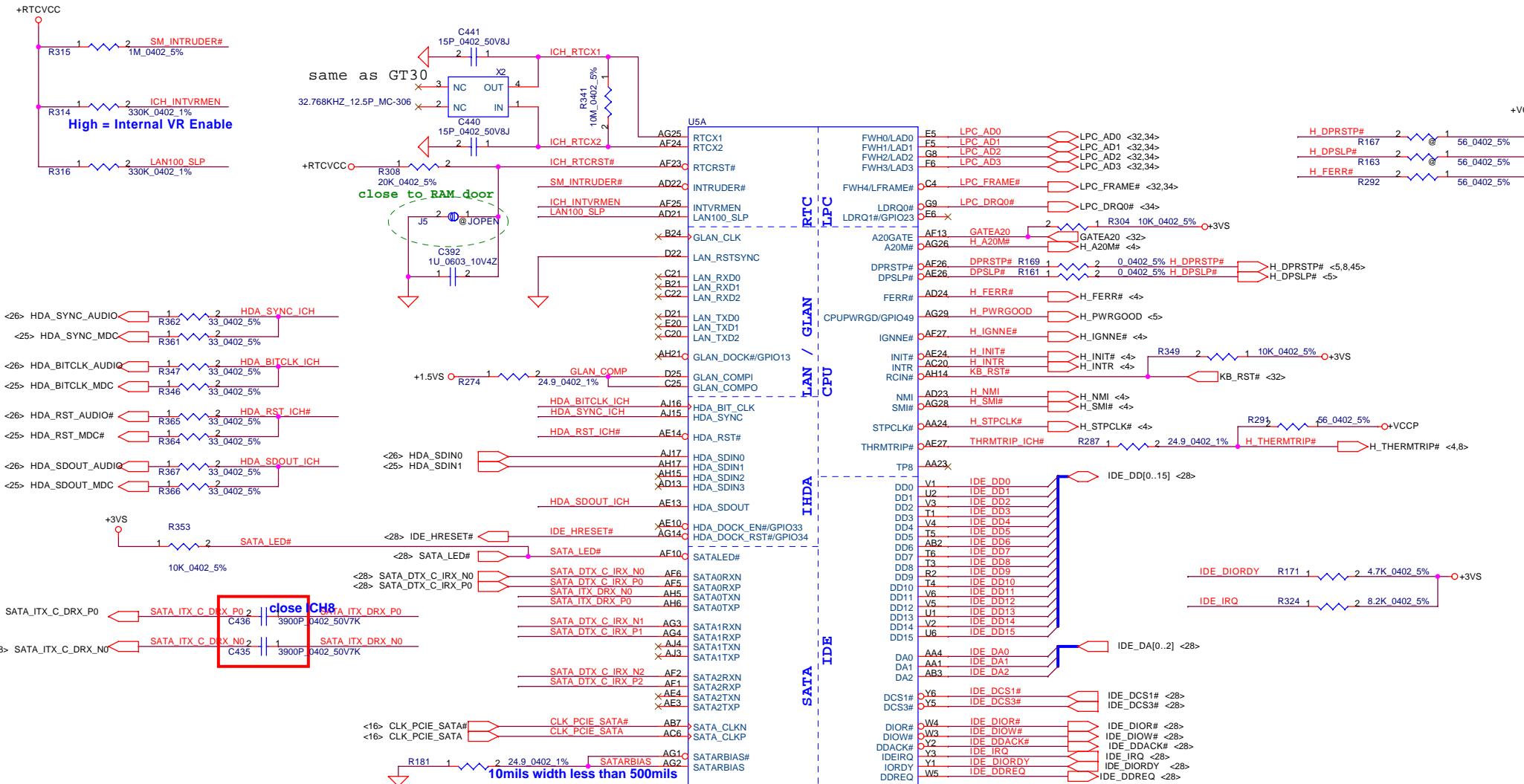


## Boot BIOS Strap

PCI_GNT#0	SPI_CS#1	Boot BIOS Loaction
0	1	SPI
1	0	PCI
1	1	LPC*

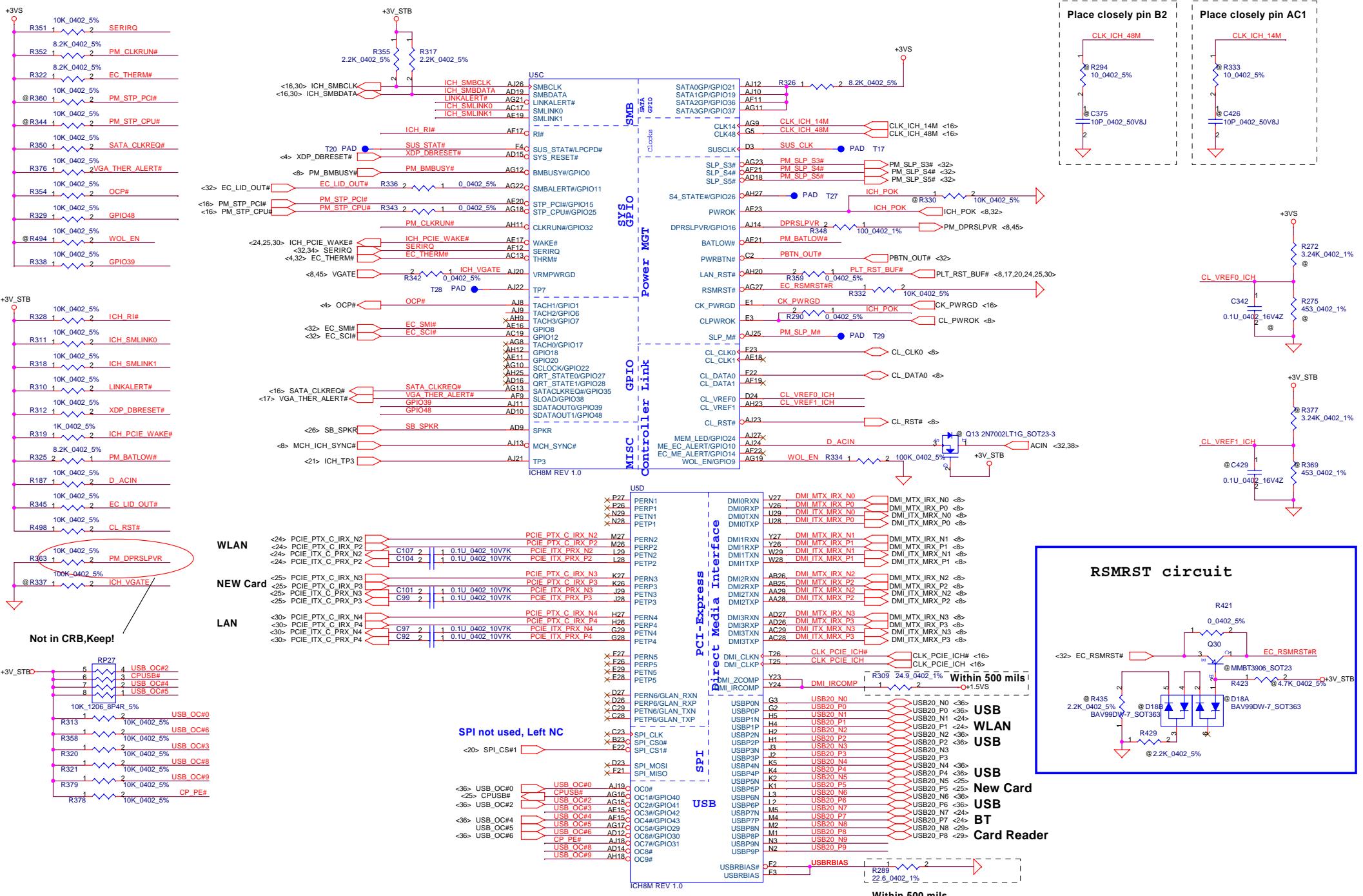


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Issued Date	2006/8/18	Deciphered Date	2007/8/18	Size	Document Number	Rev 0.2	
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Date:	Thursday, March 08, 2007	Sheet:	20	of	45		

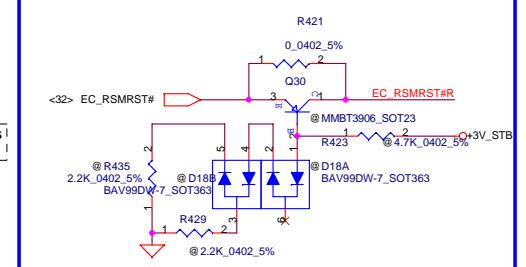


XOR Chain Entrance Strap		
ICH_TP3	HDA_SDOUT	Description
0	0	RSVD
0	1	Enter XOR Chain
1	0	Normal Operation
1	1	Set PCIE port config bit 3

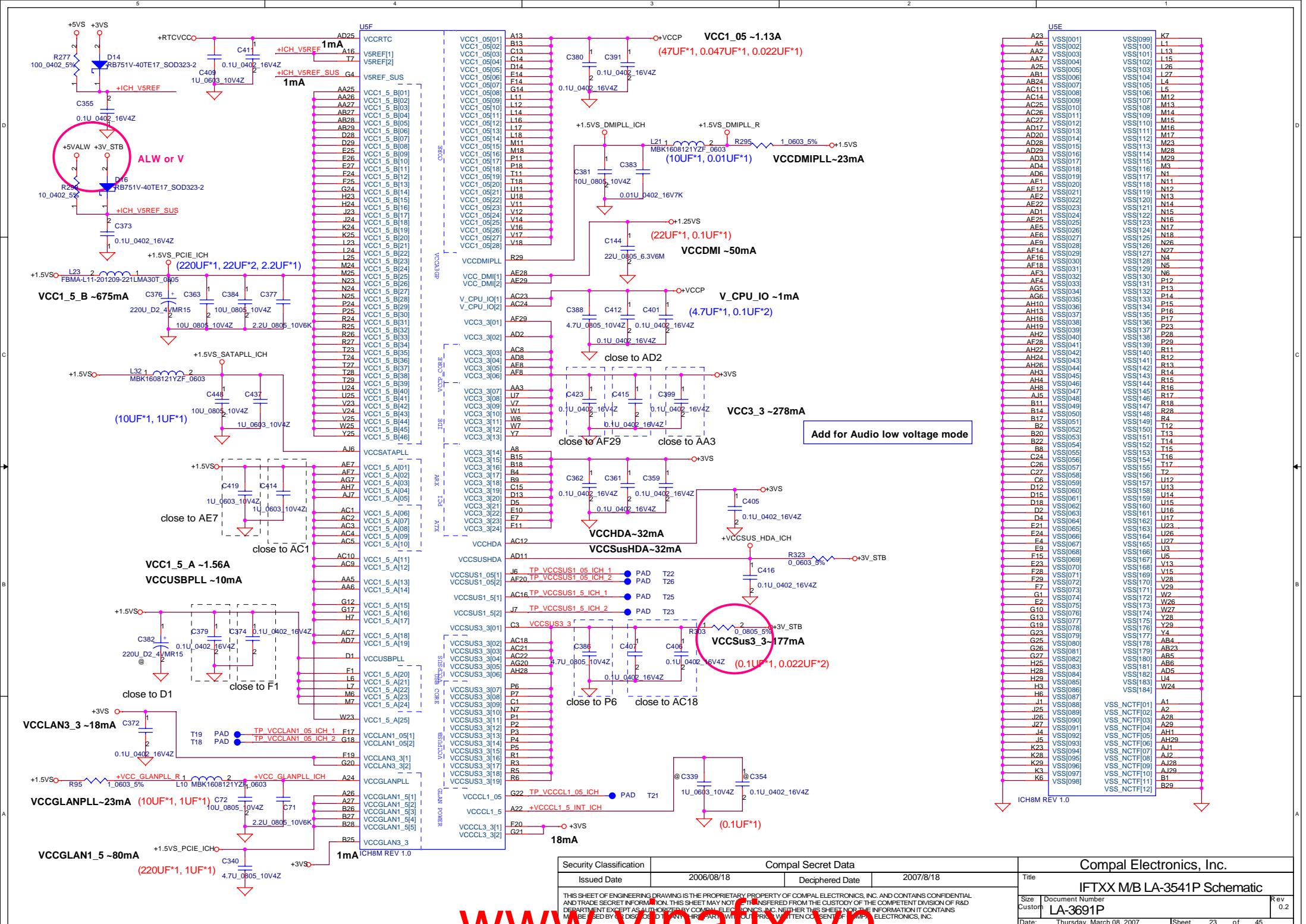
Security Classification		Compal Secret Data		
Issued Date	2006/08/18	Deciphered Date	2007/8/18	
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### RSMRST circuit



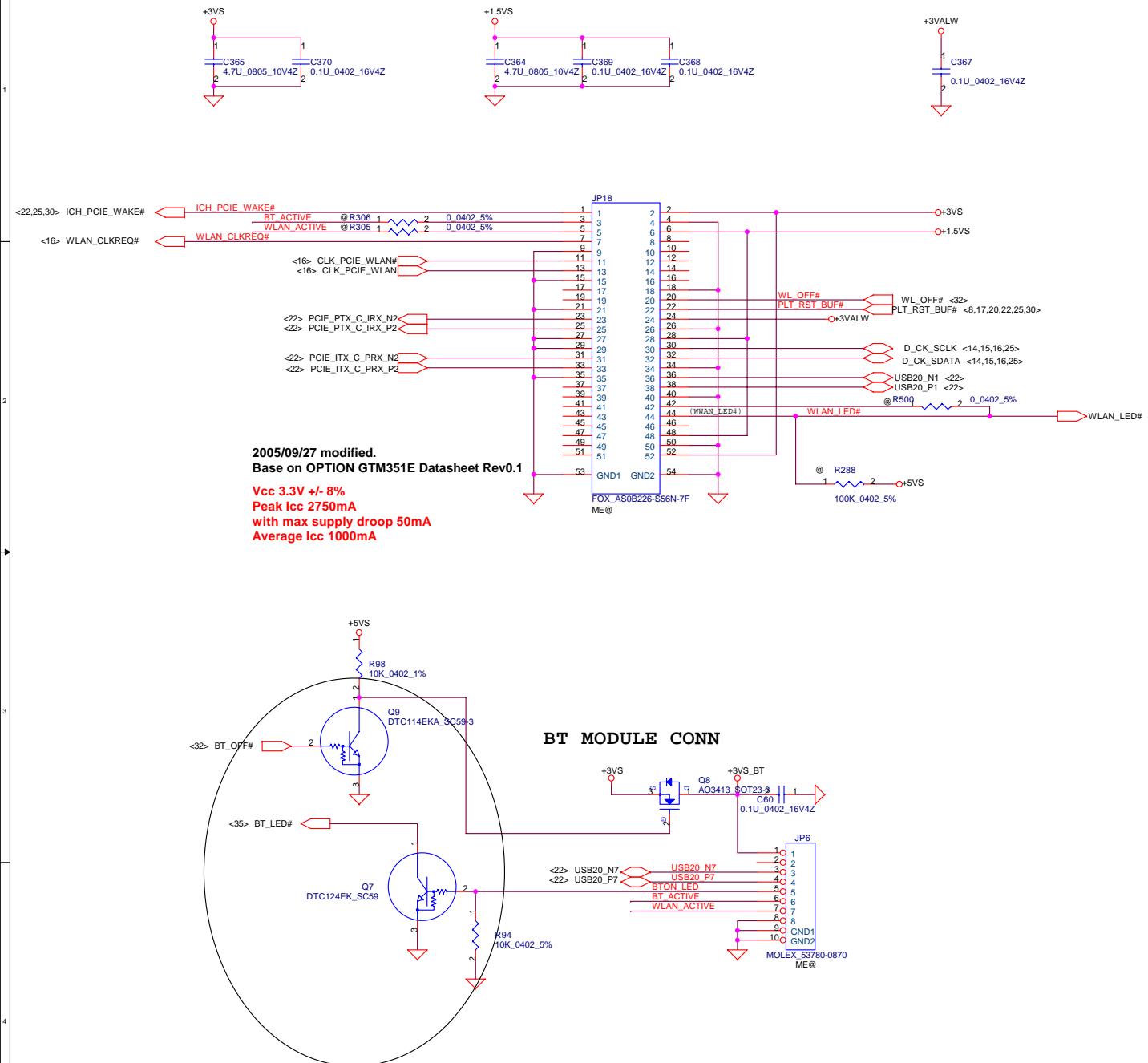
Security Classification	Compal Secret Data			<b><i>Compal Electronics, Inc.</i></b>		
Issued Date	2006/08/18	Deciphered Date	2007/8/18	Title	ICH8M(3/4)-USB,GPIO,PCIE	
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	Custom	LA-3691P				
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# Mini-Express Card for 3G Or TV Tuner

## Mini-Express Card for WLAN



### Security Classification

### Compal Secret Data

Issued Date

Deciphered Date

2007/08/05

Compal Electronics, Inc.

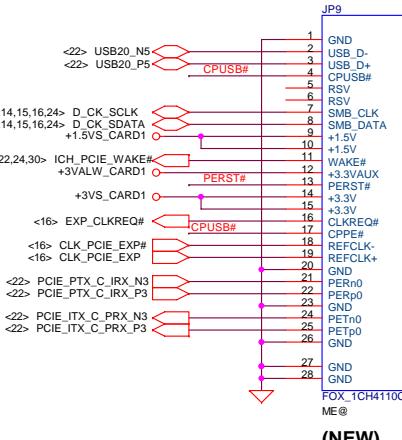
Mini-Card/3G/FeliCa/FP

LA-3691P

Rev 0.2

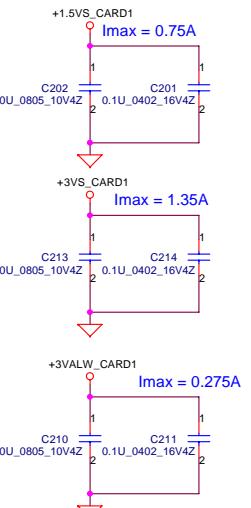
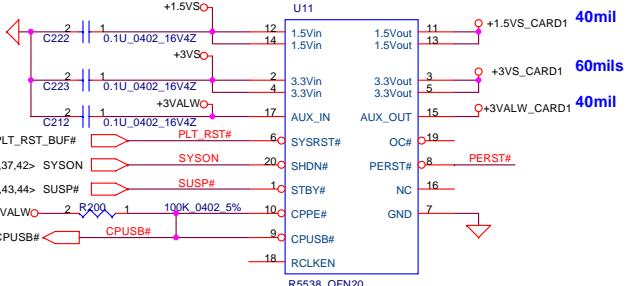
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## New Card Socket (Left/TOP)

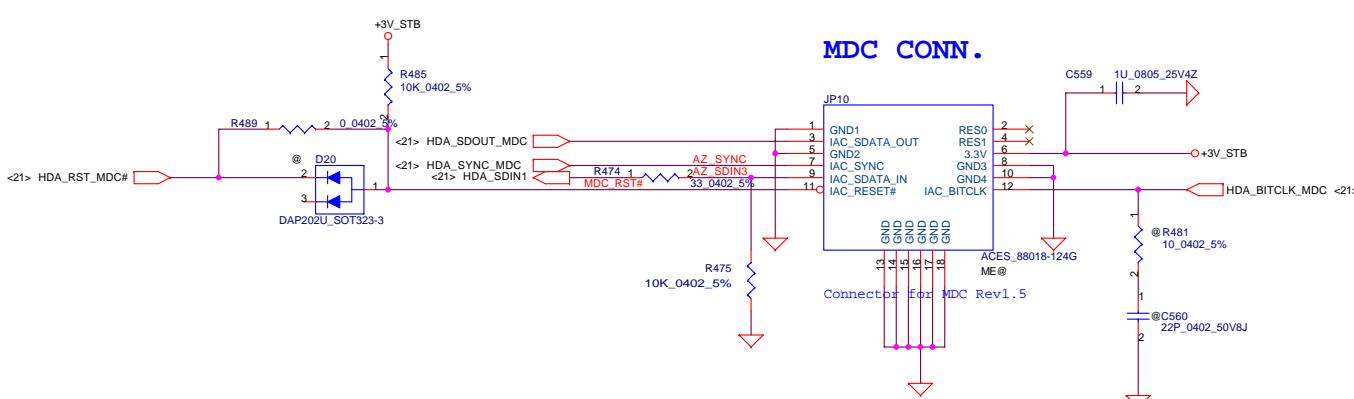


(NEW)

## Express Card Power Switch



## MDC Conn.



### Security Classification

Issued Date

Deciphered Date

2006/08/18

### Compal Secret Data

Deciphered Date

2007/8/18

### Compal Electronics, Inc.

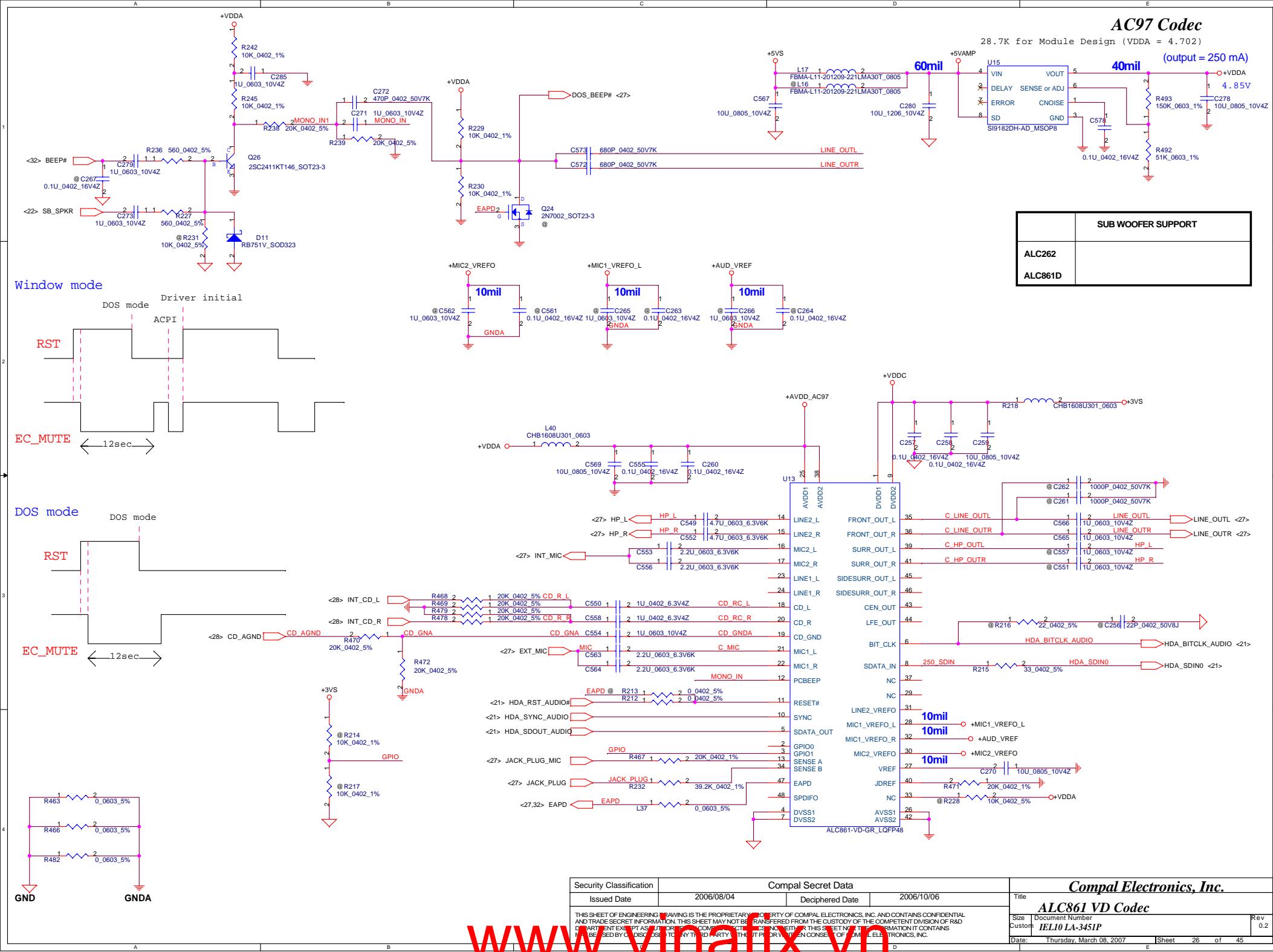
NEW CARD & USB Connector

Document Number LA-3691P

Rev. 0.2

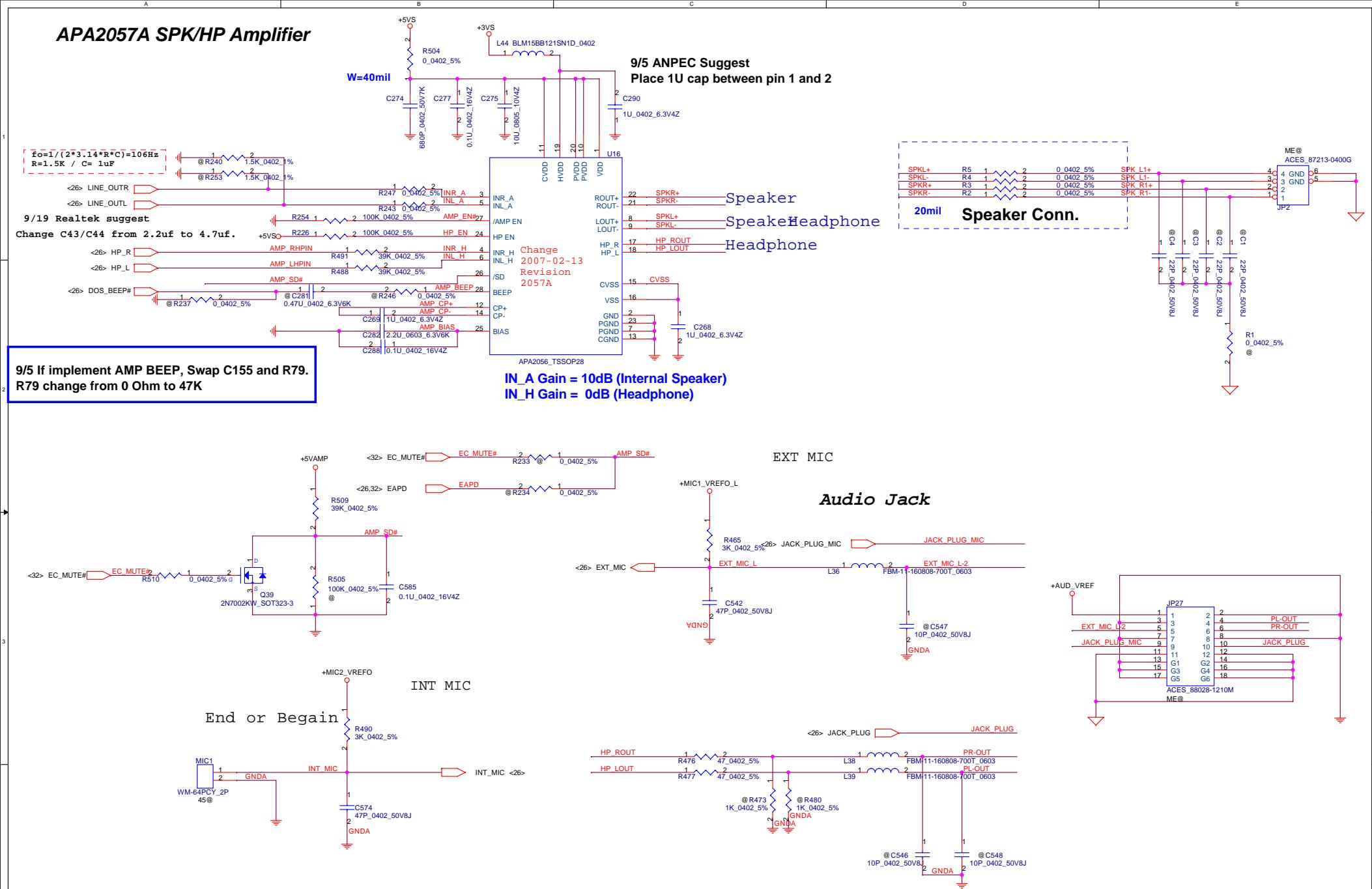
Date: Thursday, March 08, 2007

Sheet 25 of 45

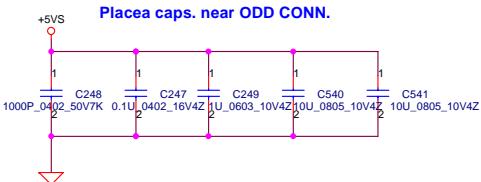


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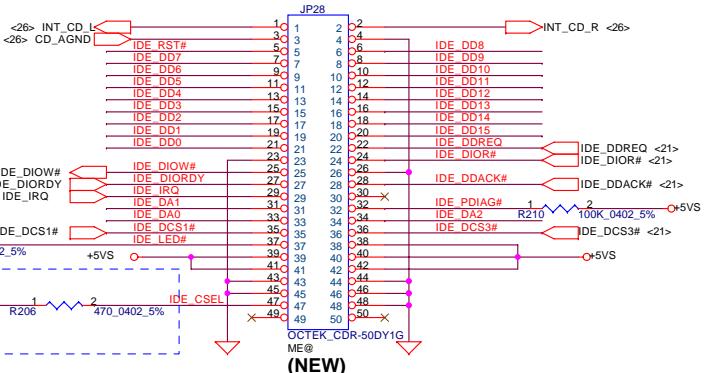
## **APA2057A SPK/HP Amplifier**



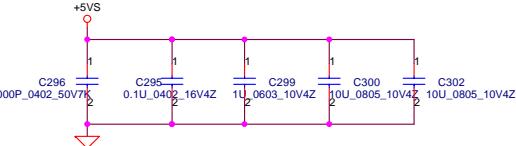
Compal Secret Data				Compal Electronics, Inc.		
Security Classification	Issued Date	Deciphered Date	AMP/VR/Audio Jack/MIC	Title		
	2006/08/05	2007/08/05		Custom	Document Number <b>LA-3691P</b>	Rev 0.2
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Date:	Thursday, March 08, 2007	Sheet	27	of	45	



<21> IDE\_DD[0..15]  
<21> IDE\_DA[0..2]

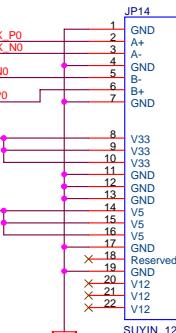


**IDE\_CSEL**  
Grounding for Master (When use SATA HDD)  
Open or High for Slaver (Normal)

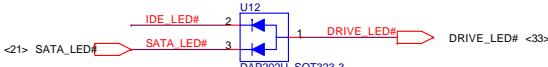
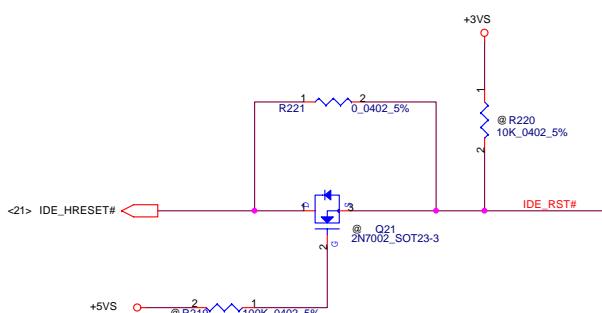


<21> SATA\_ITX\_C\_DRX\_P0  
<21> SATA\_ITX\_C\_DRX\_N0  
<21> SATA\_DTX\_C\_IRX\_N0  
<21> SATA\_DTX\_C\_IRX\_P0

### SATA HDD Conn.



(NEW)  
Change Library



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2007/8/18

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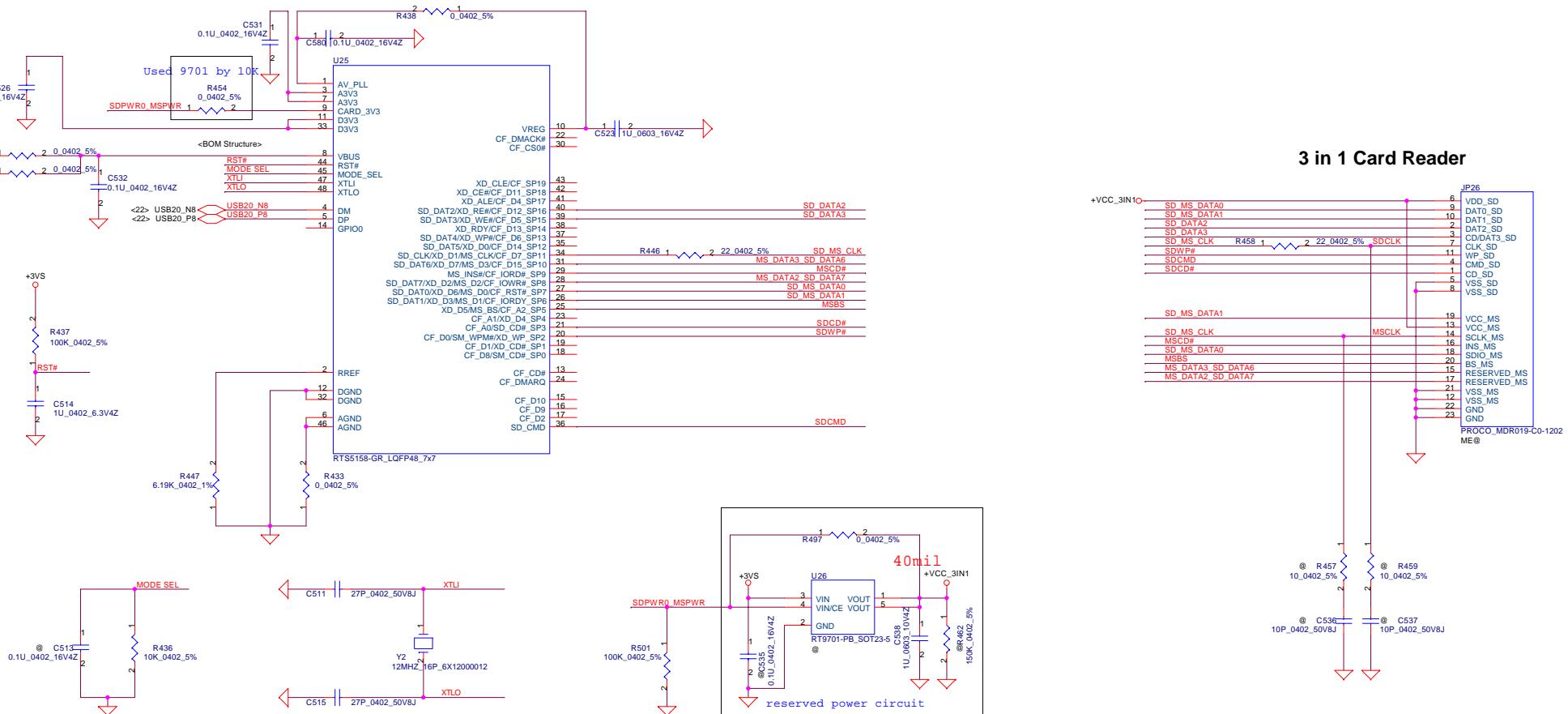
Title  
HDD & ODD Connector

Size B Document Number LA-3691P Rev. 0.2

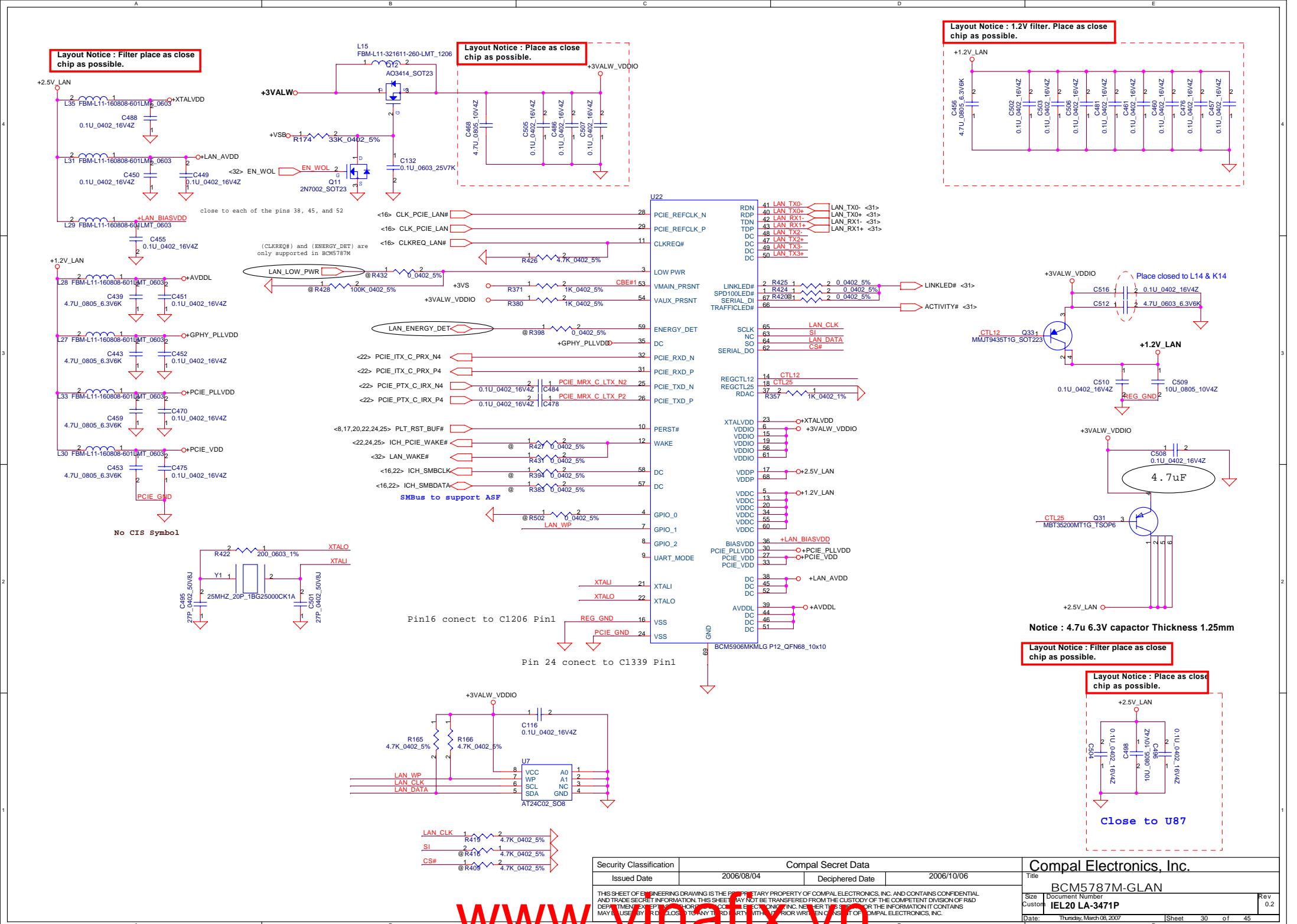
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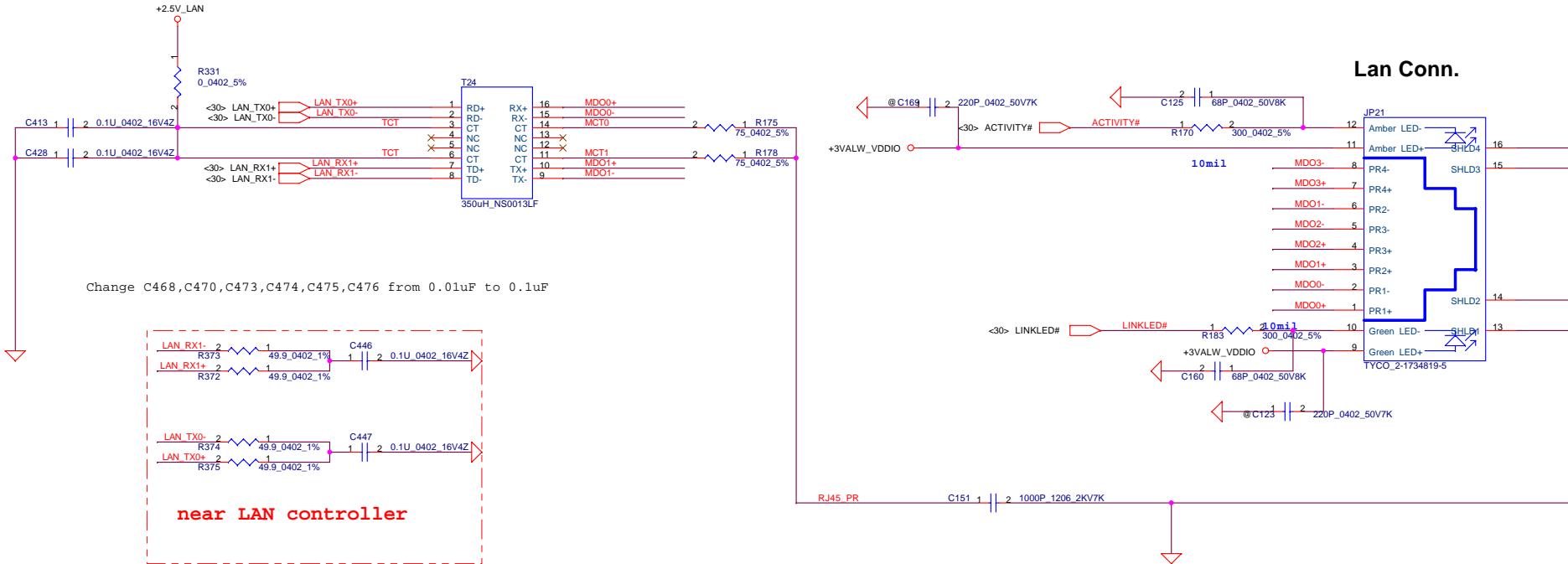
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### 3 in 1 Card Reader



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Compal Secret Data

Compal Electronics, Inc.

Issued Date

2006/08/04 Deciphered Date 2006/10/06

Title

LAN CONTROLLER

Size Document Number

LA-3691P

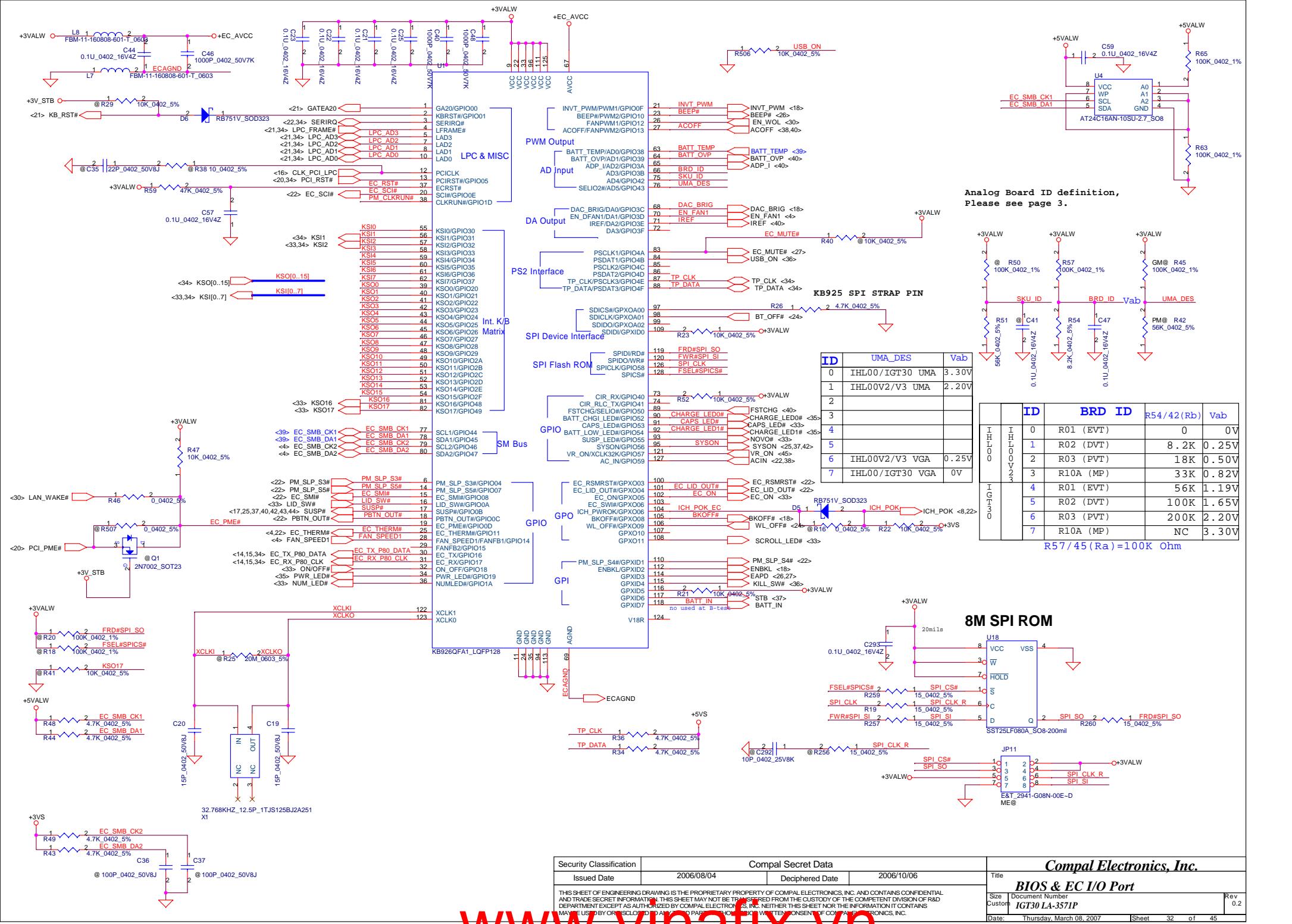
Rev. 0.2

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2

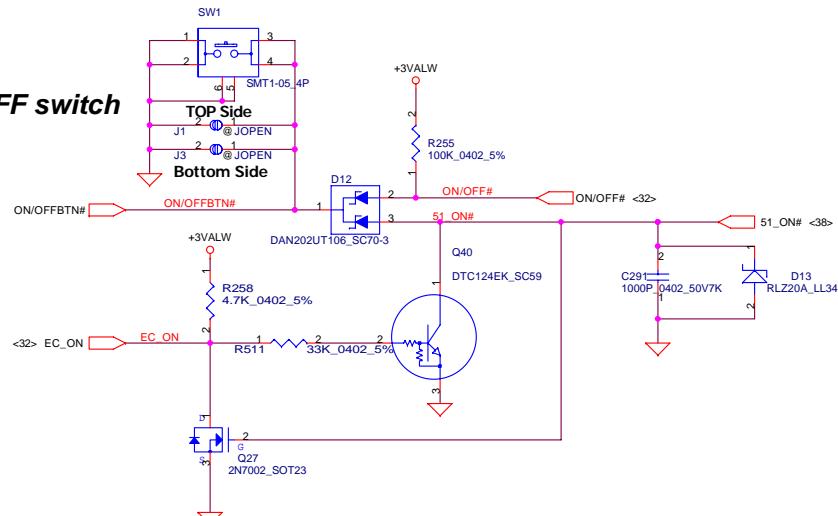
Date: Thursday, March 08, 2007

Sheet 31 of 45

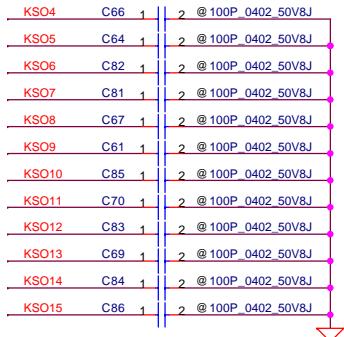
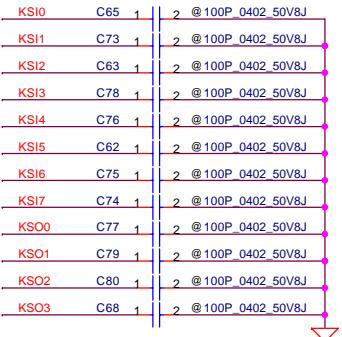
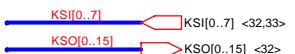


## Power Button

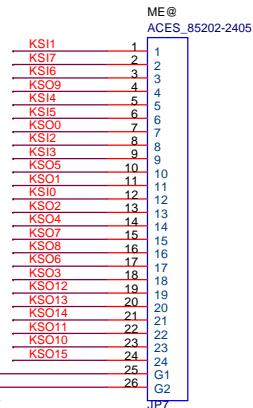
### ON/OFF switch



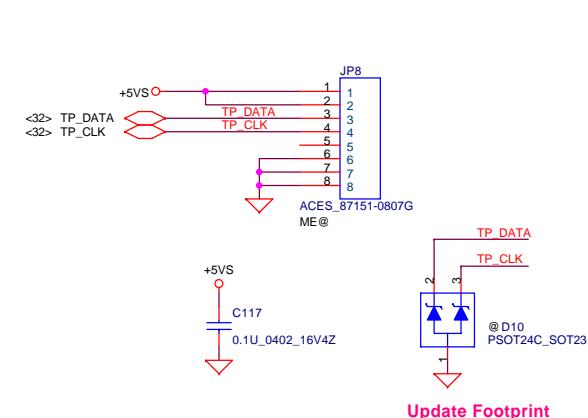
## INT\_KBD Conn.



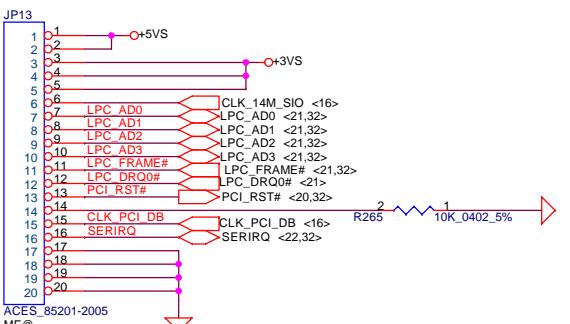
## For IHL00



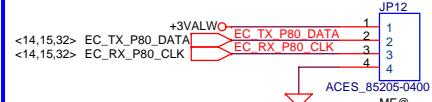
## To TP/B Conn.



## FOR LPC SIO DEBUG PORT



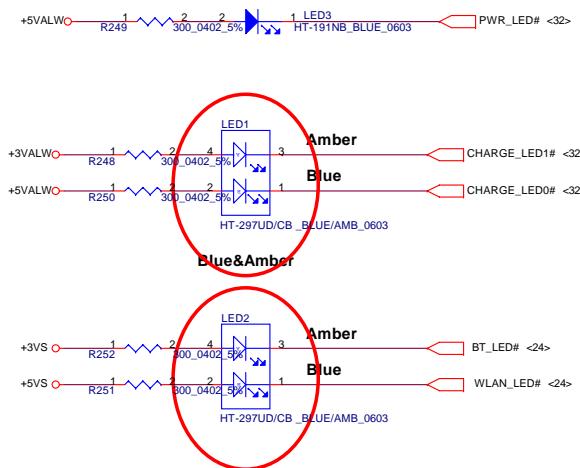
## EC DEBUG PORT



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Size	Document Number	Rev	B	LA-3691P	0.2
Date:	Thursday, March 08, 2007	Sheet	34	of	45

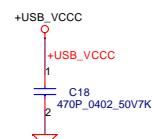
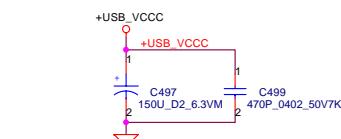
www.vinafix.vn

## LED

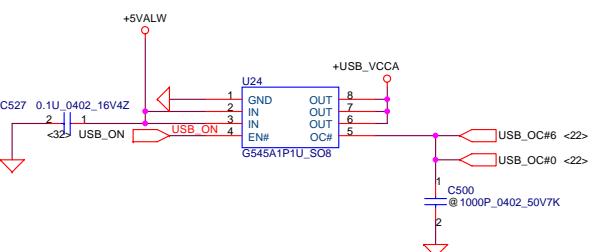
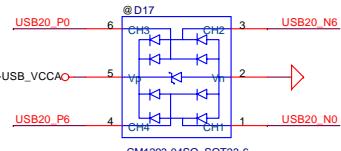
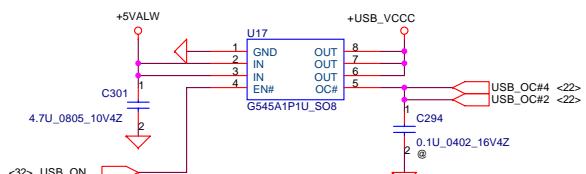
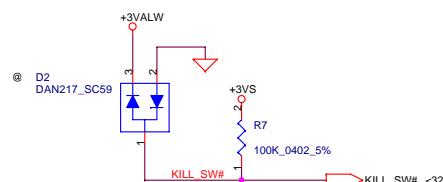


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Date: Thursday, March 08, 2007	Sheet 35	of 45			

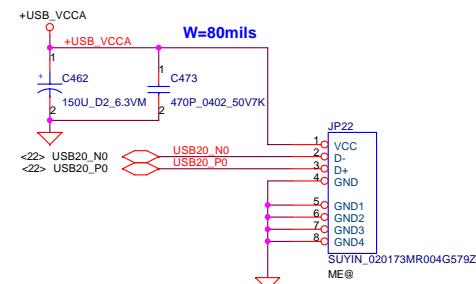
# USB Conn.



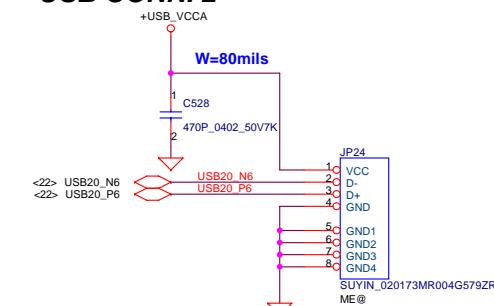
## Kill SWITCH



## USB CONN. 1



## USB CONN. 2



### Security Classification

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Title  
Power OK, Reset and RTC Circuit, TP

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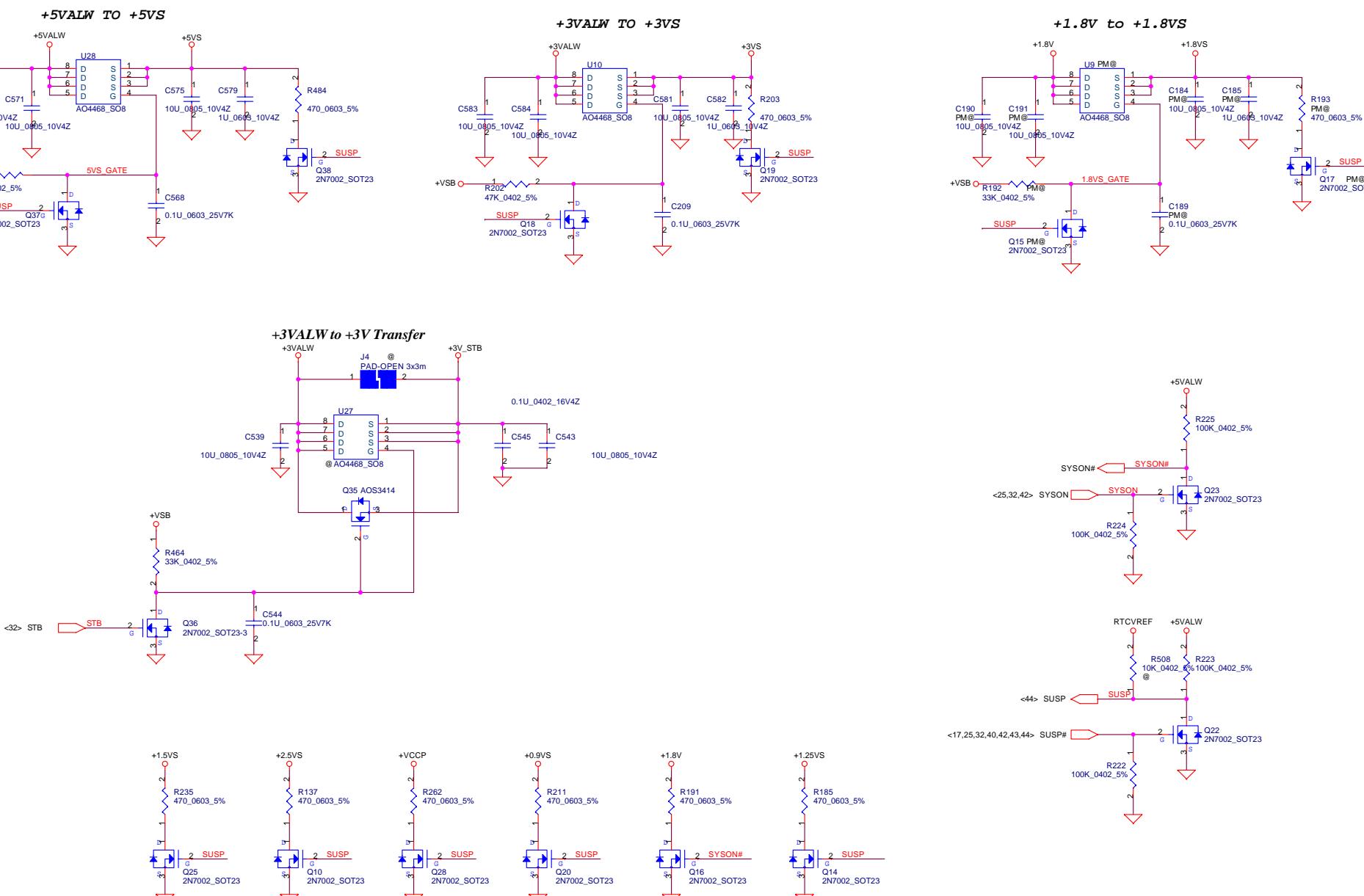
Thursday, March 08, 2007

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Title

2006/08/18

2007/8/18

DC Interface

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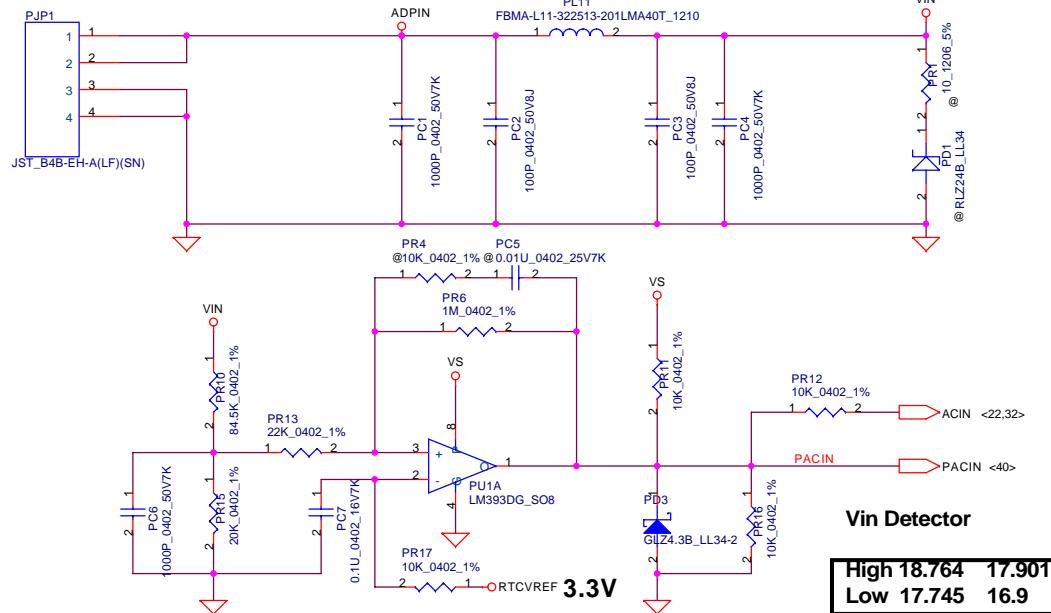
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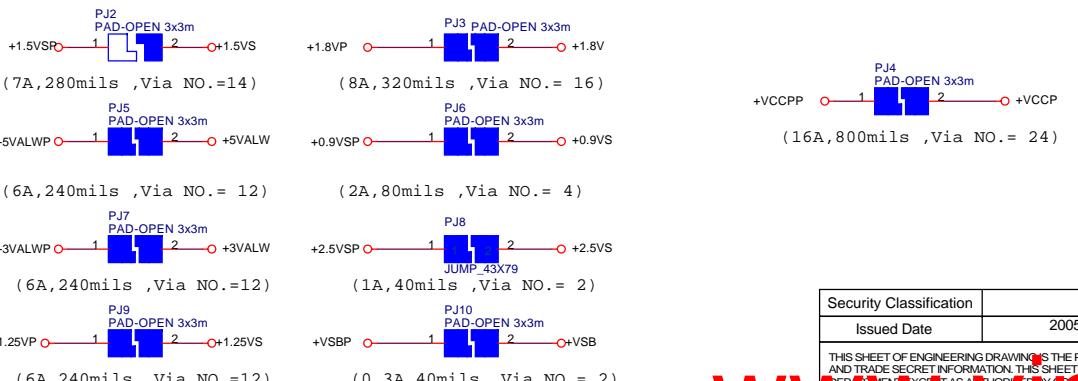
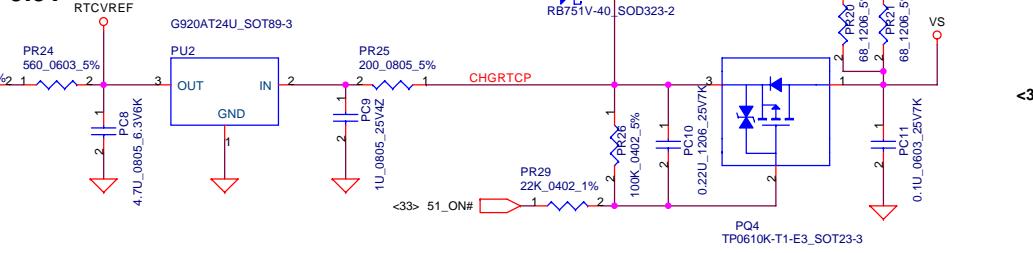
Date: Thursday, March 08, 2007

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DC030005Q00



3.3V

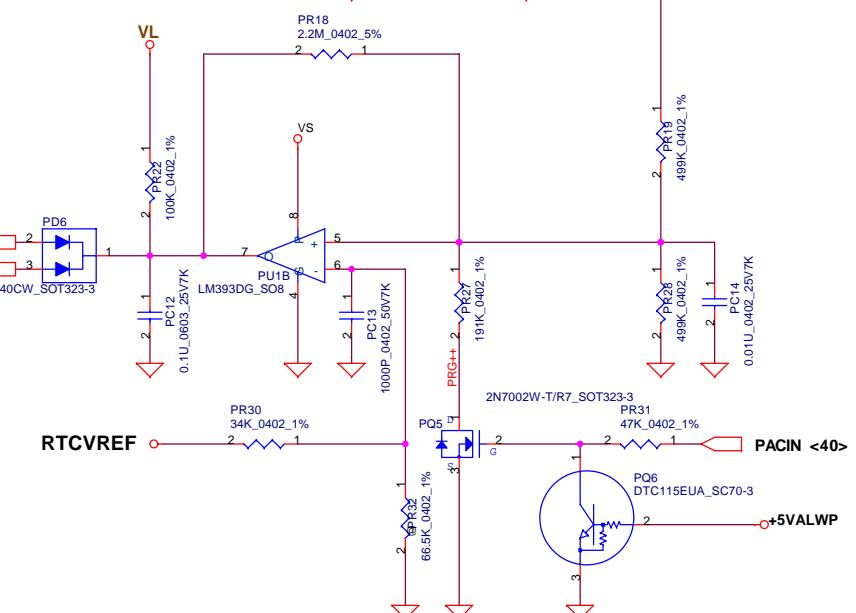
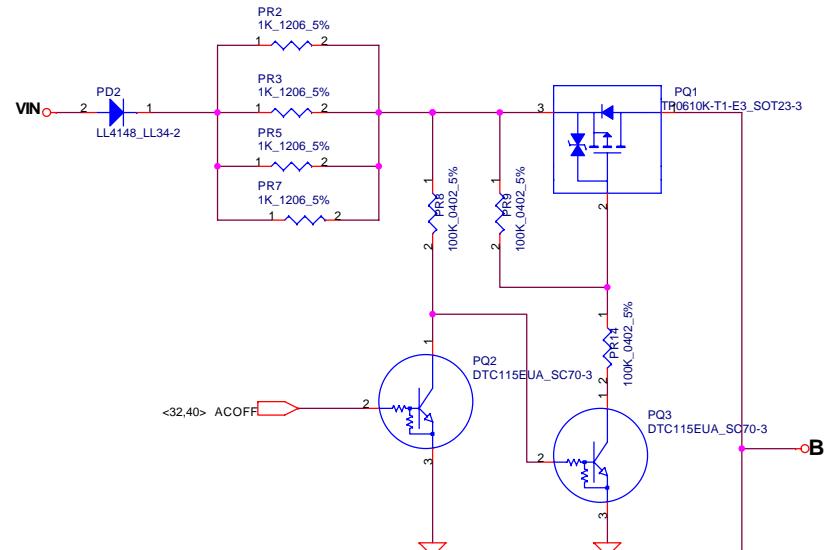


ACIN

Precharge detector		
Min.	typ.	Max.
H->L 14.589V	14.84V	15.243V
L->H 15.562V	15.97V	16.388V

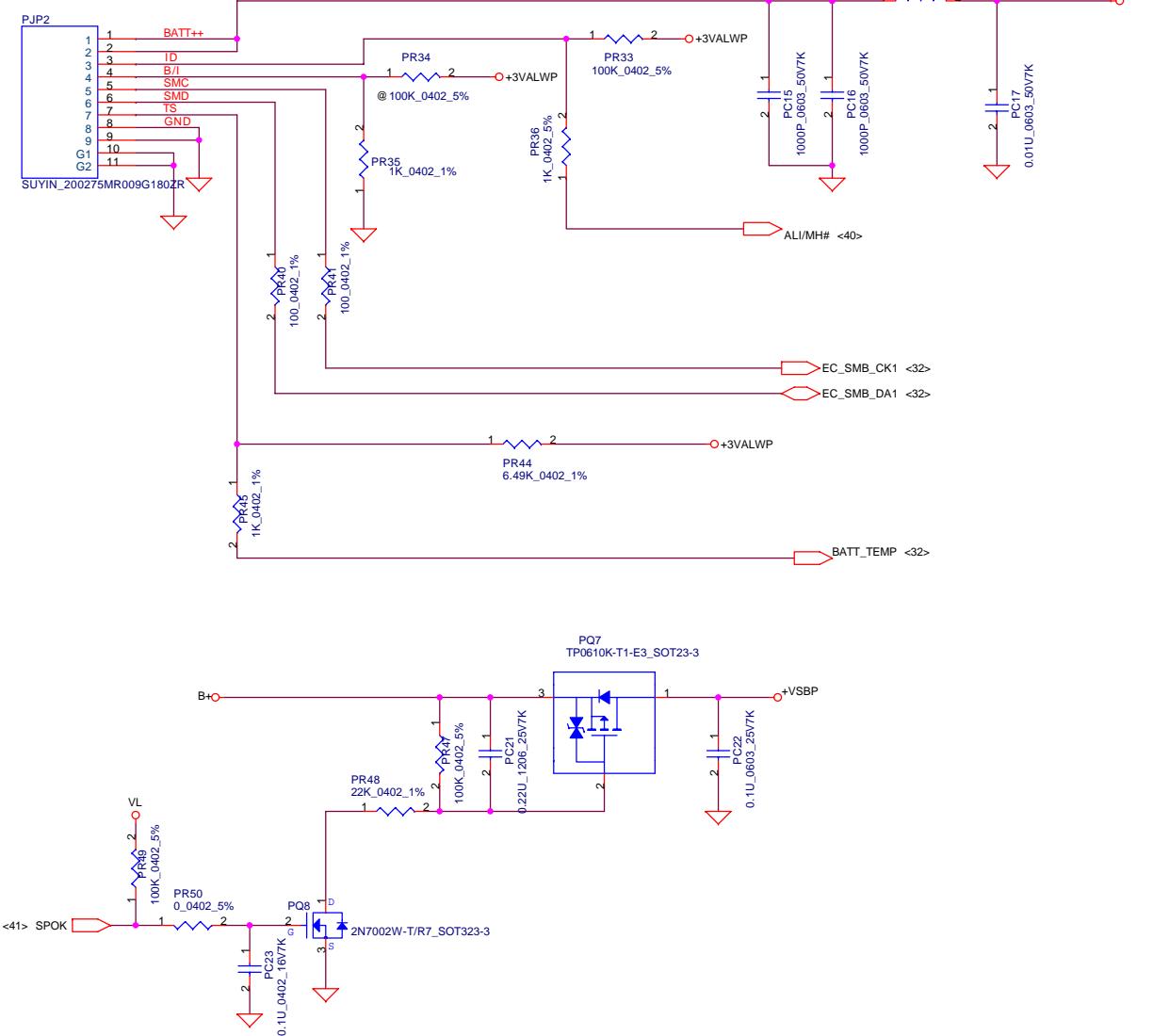
BATT ONLY

Precharge detector		
Min.	typ.	Max.
H->L 6.138V	6.214V	6.359V
L->H 7.196V	7.349V	7.505V

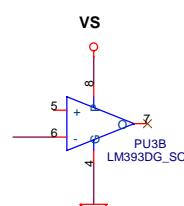
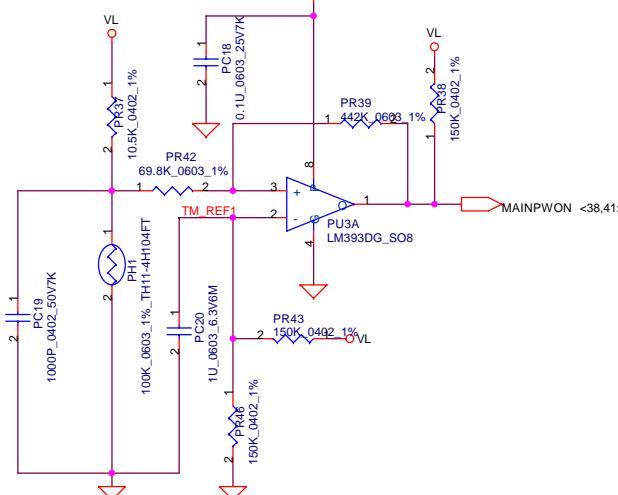


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2005/10/17	2006/10/17	DCIN/DECTOR		
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DC040003600



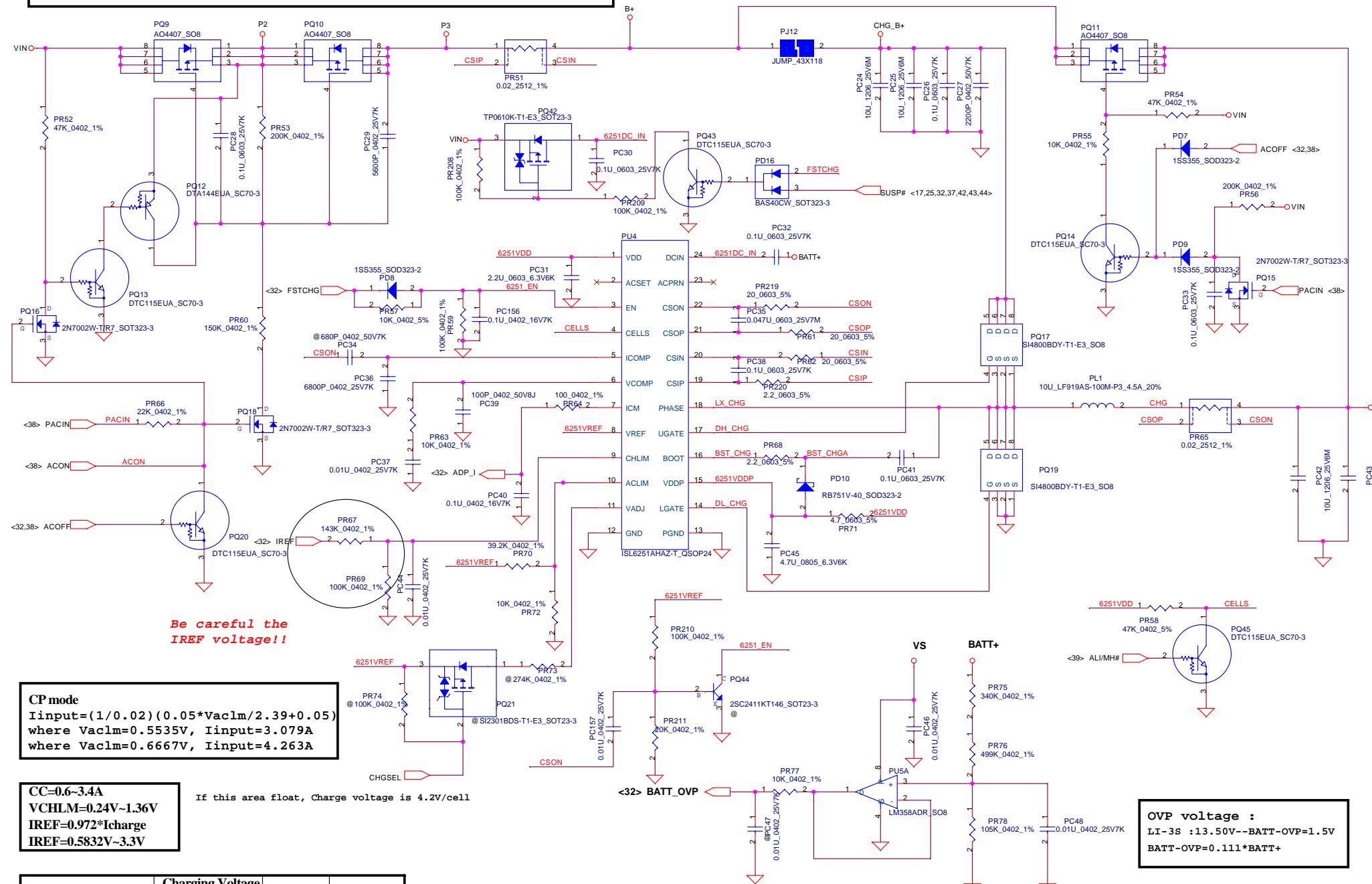
**PH1 under CPU botton side :**  
CPU thermal protection at 87 degree C  
Recovery at 70 degree C



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Issued Date	2005/10/17	Deciphered Date	2006/10/17	Title BATTERY CONN. / OTP		
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Size B	Document Number	IHL00 LA-3691P				Rev 0.2
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65W, Iadapter=0~3.42A, Current sense=0.02ohm, PR70=39.2K, CP=3.079A  
90W, Iadapter=0~4.74A, Current Sense=0.015ohm, PR70=28.7K, CP=4.263A

$$ADP\_I = 19.9 * I_{adapter} * R_{sense}$$



BATT Type	Charging Voltage (0x15)	CHGSEL	CV mode
2800mAH 3S pack	13050mV	LOW	12.90V
Normal 3S LI-ON Cells	12600mV	HIGH	12.60V

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OVP voltage :  
LI-3S :13.50V--BATT-OVP=1.5V  
BATT-OVP=1.5V

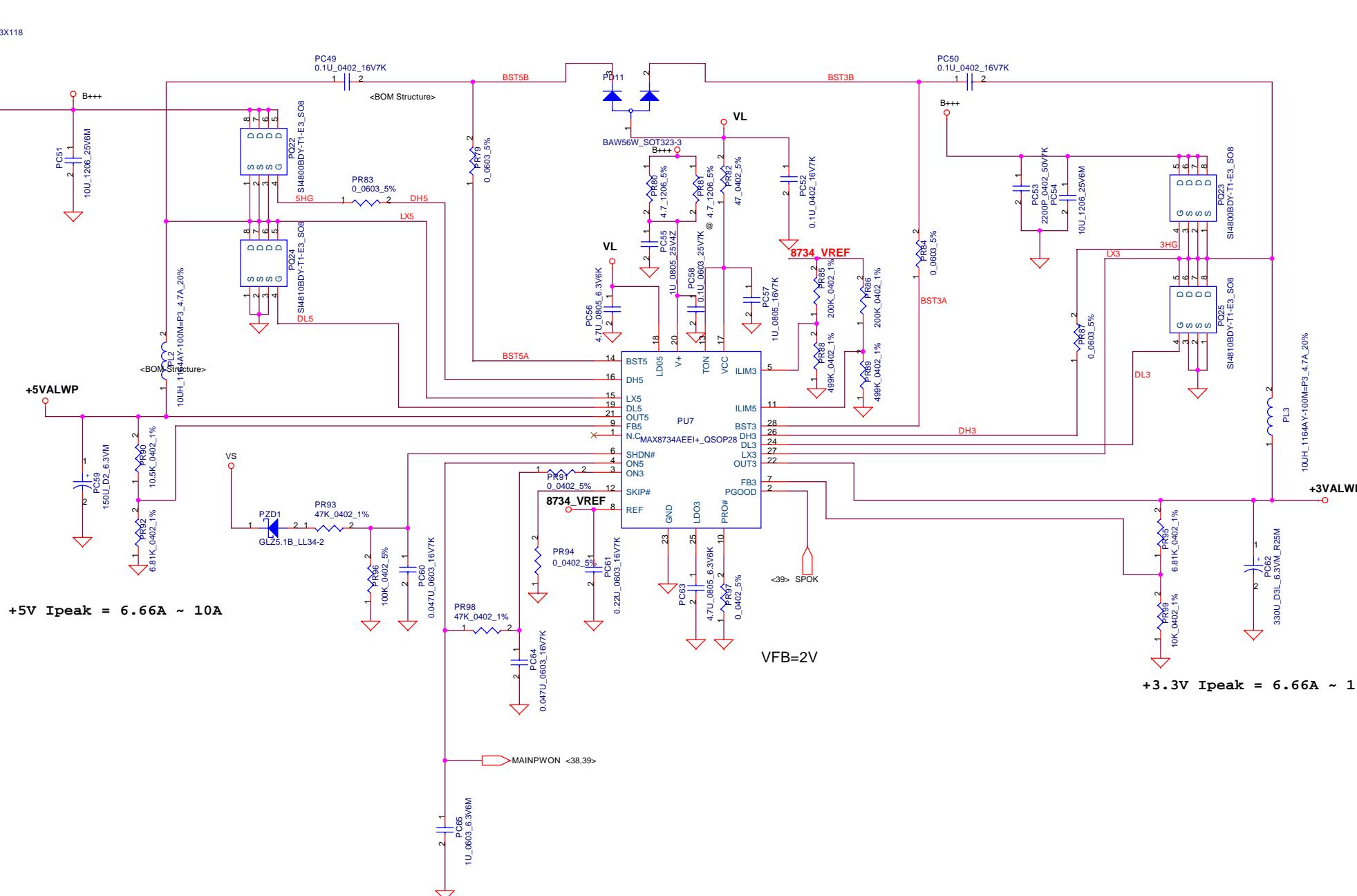
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CHARGER

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+5V I<sub>peak</sub> = 6.66A ~ 10A

+3.3V I<sub>peak</sub> = 6.66A ~ 10A



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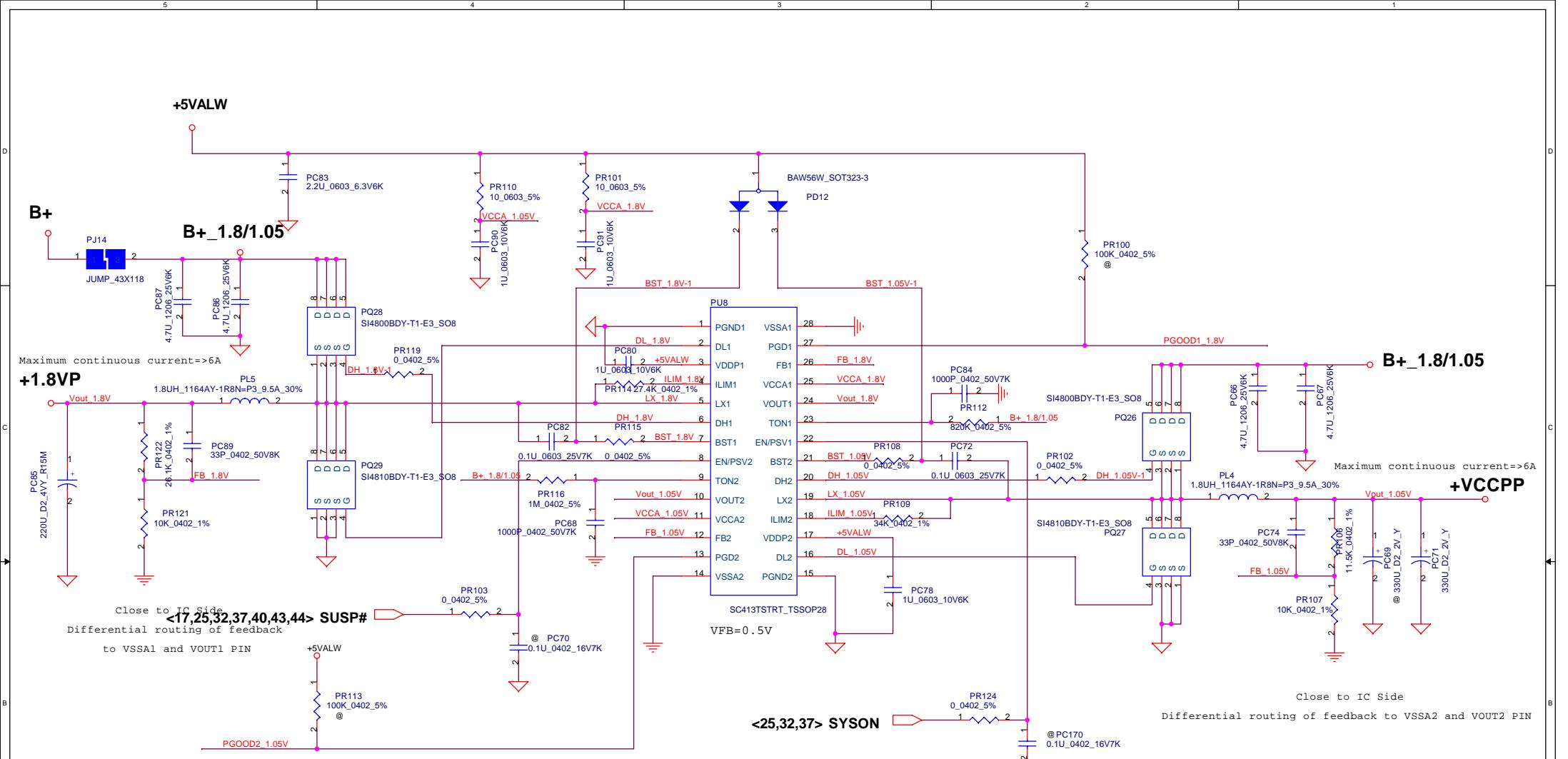
+5VALWP/+3VALWP

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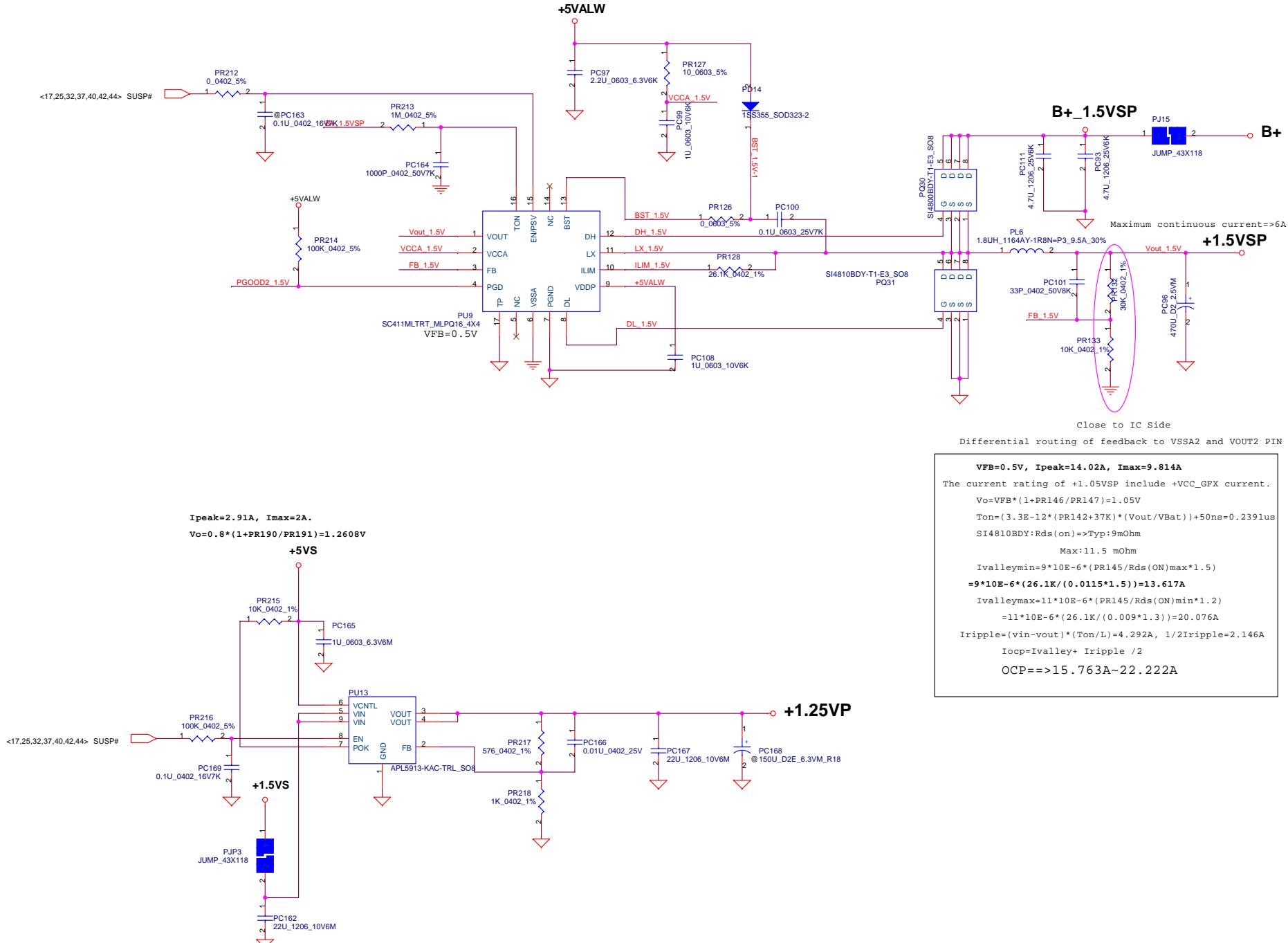
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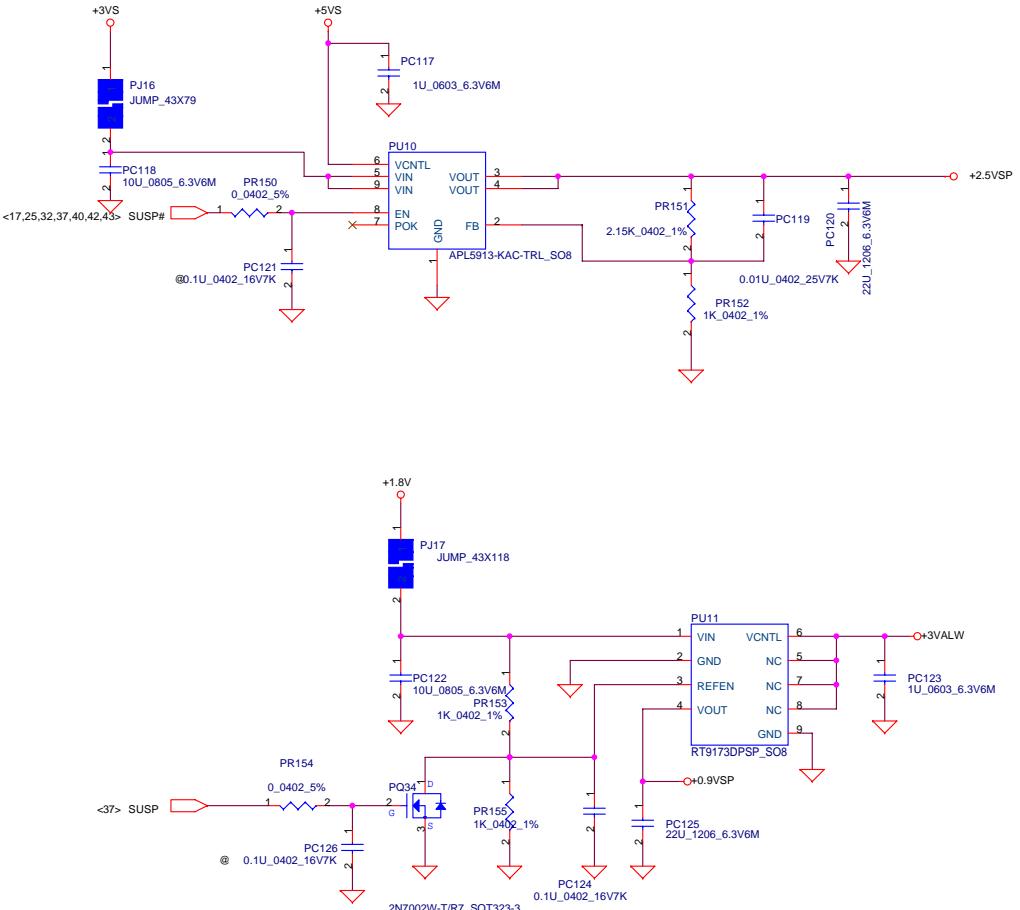
$VFB = 0.5V$   
 $V_o = VFB * (1 + PR129 / PR130) = 1.805V$   
**Ipeak=12.17A, Imax=8.519A**  
 $Ton = (3.3E-12 * (PR121 + 37K) * (Vout / VBat)) + 50ns$   
 $= 3.3 * 10^{-12} * (820K + 37K) * (1.8 / 19) + 50ns = 0.3179us$   
**FDS6670AS: Rds(on) => Typ: 9 mOhm**  
 $\text{Max: } 11.5 \text{ mOhm}$   
 $I_{ocp} = I_{valley} + I_{ripple} / 2$   
 $I_{ripple} = (v_{in} - v_{out}) * (Ton / L) = 5.467A, 1/2 I_{ripple} = 2.734A.$   
 $I_{valleymin} = 10E-6 * (PR120 / Rds(ON)) \text{max} * 1.5$   
 $= 9 * 10^{-6} * (27.4K / 0.0115 * 1.5) = 14.295A > 11.73 * 1.2 = 14.076A$   
 $I_{valleymax} = 10E-6 * (PR120 / Rds(ON)) \text{typ} * 1.2$   
 $= 11 * 10^{-6} * (27.4K / 0.009 * 1.2) = 27.907A.$   
**OPC ==> 17.029A ~ 30.641A**

$VFB = 0.5V$   
 $V_o = VFB * (1 + PR129 / PR130) = 1.5V$   
**Ipeak=5.16A, Imax=3.612A**  
 $Ton = (3.3E-12 * (PR125 + 37K) * (Vout / VBat)) + 50ns$   
 $= 0.3201us$   
**A04916 Rds(on) => Typ: 21 mOhm**  
 $\text{Max: } 27 \text{ mOhm}$   
**Ivalleymin = 9 \* 10^{-6} \* (29.4K / 0.027 \* 1.4) = 7A**  
 $Ivalleymax = 11 * E^{-6} * (29.4K / 0.021 * 1.1) = 12.833A$   
 $I_{ripple} = (v_{in} - v_{out}) * (Ton / L) = 2.546A, 1/2 I_{ripple} = 1.273A$   
 $I_{ocp} = I_{valley} + I_{ripple} / 2$   
**OPC ==> 8.273A ~ 14.106A**

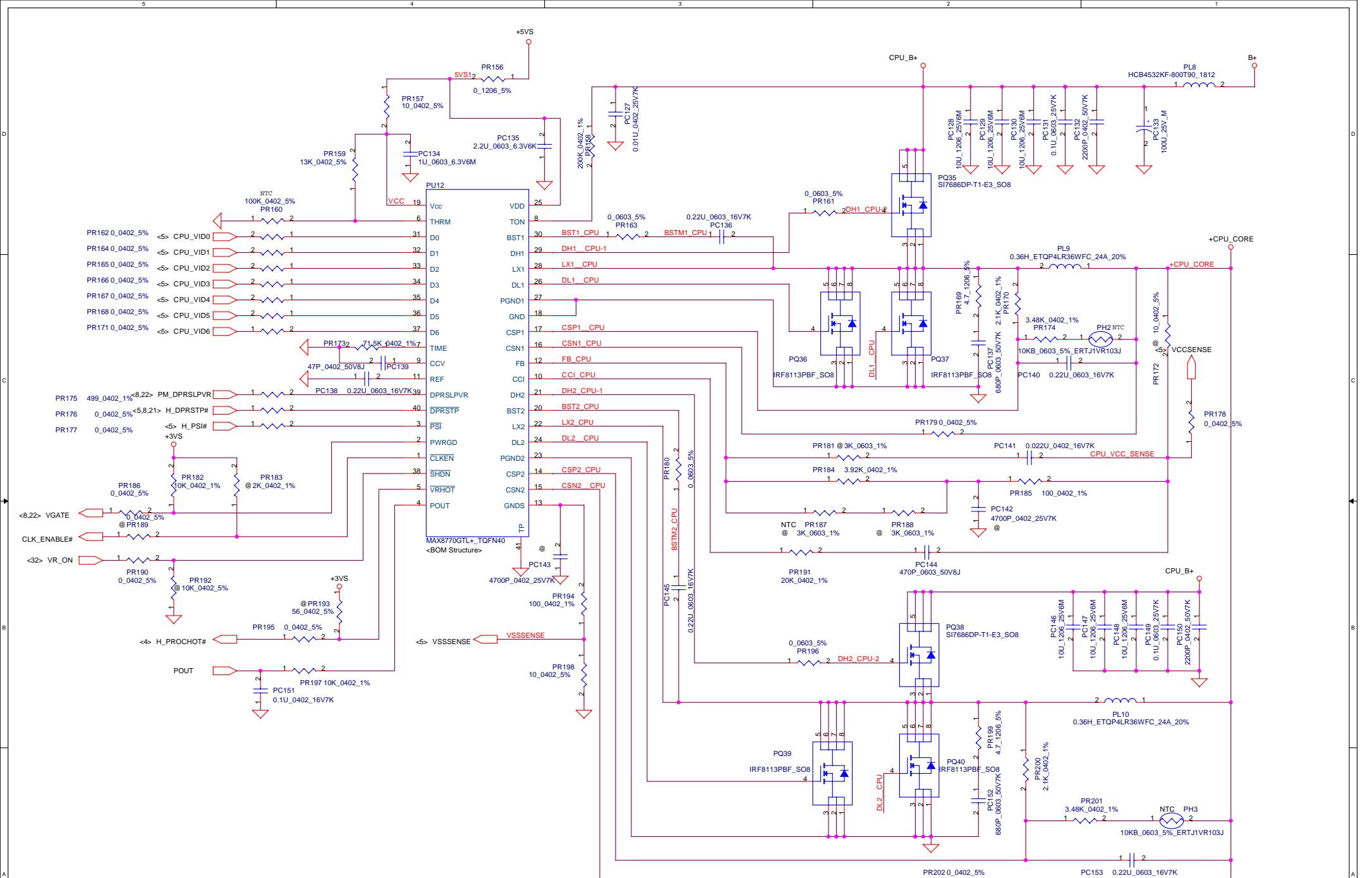
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Item	Fixed Issue	Rev.	PG#	Modify List	B.Ver#	Phase
1						
2						
3						
4						
5						
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Item	Fixed Issue	Rev.	PG#	Modify List	B.Ver#	Phase
1	XDP_BPM#0~4 test point short as EMI request	B	4	Modify Layout		
2	ADD J6 for +VCC_AXG UMA VGA power shape	B	11	Modify Layout		
3	Fixed Speaker no function	A2	37	Change Q91 form SI2301BDS to MMBT3906, Del R895		
4	Fixed SWDJ function can't work	A2	36	Add R904		
5	Fixed Audio Codec can't work	A2	29	Add R905,Q96		
6	Fixed USB Port4 can't work	A2	27	Swap USB_N4 & USB_P4		
7	Fixed EMI issue	A2	32 37	Add R908,C878,C879		
8	Fixed SWDJ mode EC_MUTE# ISSUE	B	30	Add D39,Q99,R914		
9	Fixed CMOS noise	B	36	Add R912,C880		
10	Fixed EMI	B	25	Add C881,C882		
11	Add chipset id	B	33	Add R915,R916		
12	Fix SWDJ Subwoofer issue	B	31	Add R917		
13	Fix DFX issue	C	22,33	Change Y3,X1,Y2 footprint		
14	FOR E-STAR V4 wake on lan	C	22,33	Add R918,R919		
15	For ESD issue	C	36	Add C883-C887 D40,D41		
16	For AUDIO team design	C	30	Add R920 R921		
17	Change LAN led function	C	25	Swap JP73 PIN12 & PIN14		

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