

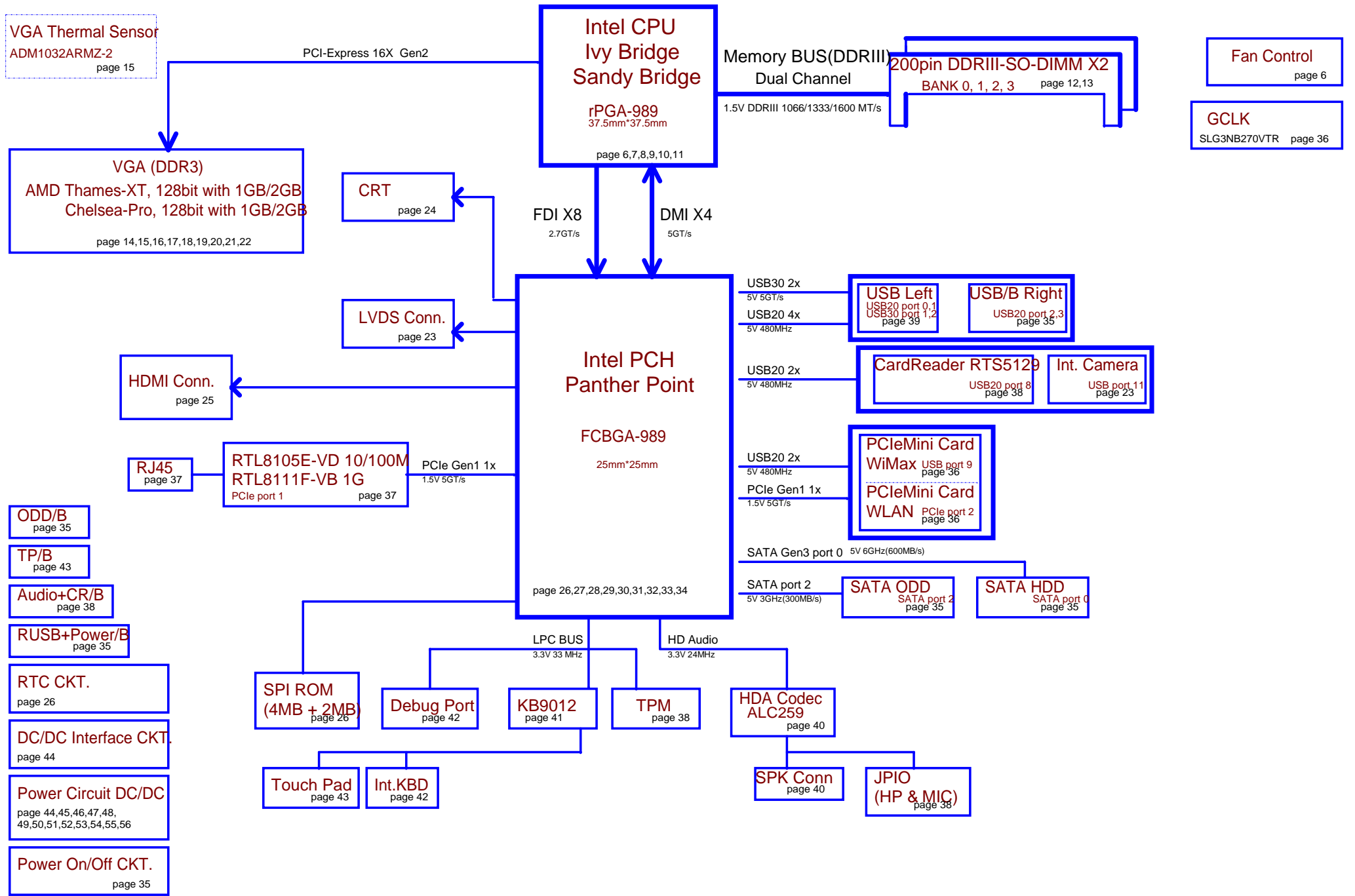
QCLA4 / QCLA5

Eureka 10FG

LA-8861P REV 0.2 Schematic

Intel Processor (Ivy Bridge) / PCH(Panther Point)
2012-02-09 Rev 0.2

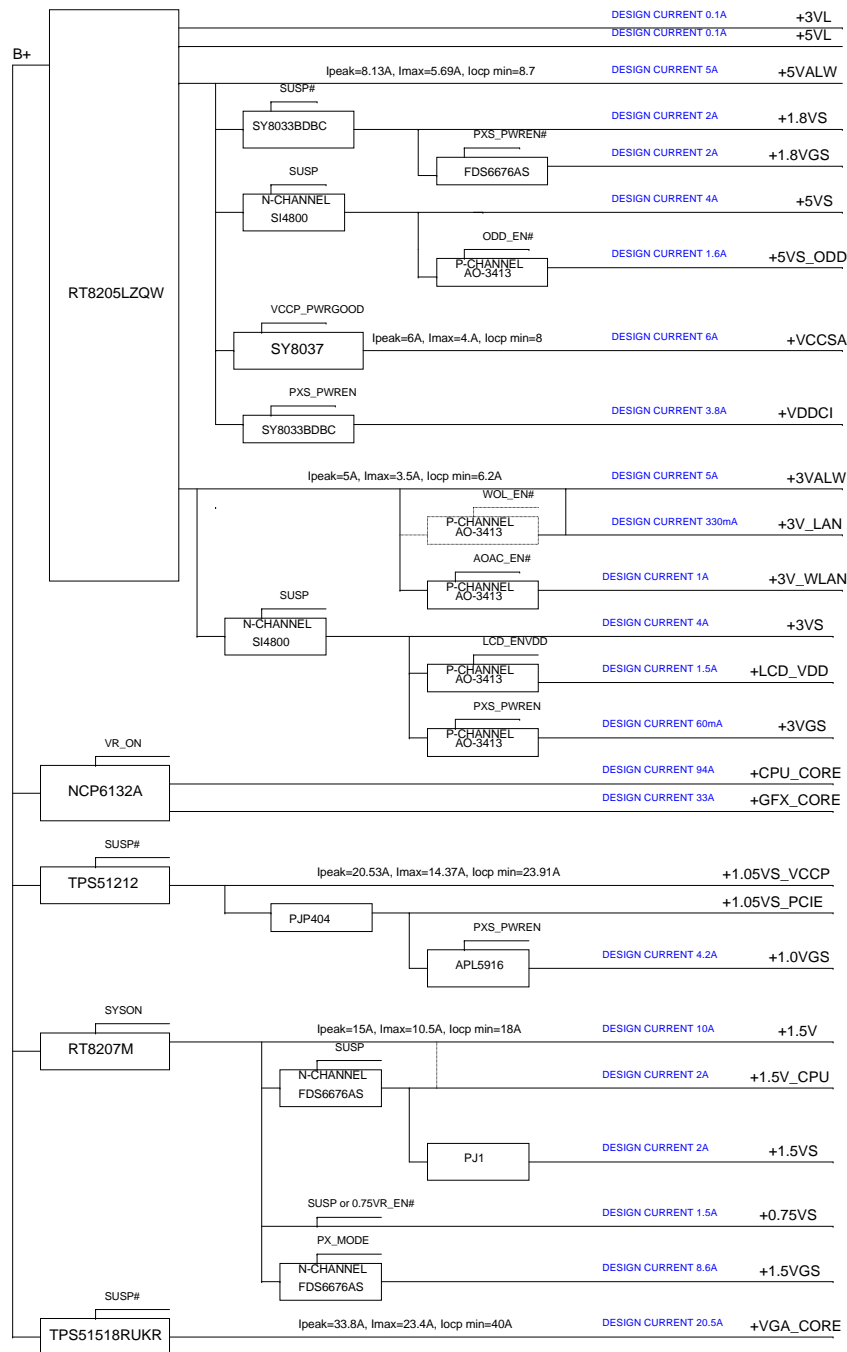
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Voltage Rails (O MEANS ON X MEANS OFF)						
power plane State	+RTCVCC	B+	+5VL +3VL	+5VALW +3VALW +VSB	+1.5V	+5VS +3VS +1.8VS +1.5VS +1.05VS +0.75VS +CPU_CORE +VGA_CORE +GFX_CORE +VTT +VRAM_1.5VS +3VS_DGPU +1.05VS_DGPU
S0	O	O	O	O	O	O
S1	O	O	O	O	O	O
S3	O	O	O	O	O	X
S5 S4/AC	O	O	O	O	X	X
S5 S4/ Battery only	O	O	O	X	X	X
S5 S4/AC & Battery don't exist	O	X	X	X	X	X

PCH SM Bus Address			
Power	Device	HEX	Address
+3VS	DDR SO-DIMM 0	A0 H	1010 0000 b
+3VS	DDR SO-DIMM 1	A4 H	1010 0100 b
+3VS	Clock Generator	D2 H	1101 0010 b
+3VS	WLAN/WIMAX		
+3VS	Clock Generator		

EC SM Bus1 Address				EC SM Bus2 Address			
Power	Device	HEX	Address	Power	Device	HEX	Address
+3VL	Smart Battery	16 H	0001 0110 b	+3VS	PCH	96 H	1001 0110 b
				+3VS	ATI GPU	82 H	1000 0010 b
Power	Device	HEX	Address				

Platform	SKU	CPU	PCH	VGA
Chief River		Clarksfield	HM76ES2/HM70C0 (PCHB0@/HM70C0@)	Themes/Chlsea (TH@/CH@)

BTO Option Table

Function	SKU	MIC		LAN		TPM			
description	SKU	MIC		LAN		TPM			
explain	PX4(reserve)	Dig Mic	Analog Mic	10/100M	Giga	9635	9655		
BTO	PX4@	CAM@	AMIC@	8105ELDO@	8111FVB@	TPM9635@	TPM9655@		

Function							
description							
explain							
BTO							

Function							
description							
explain							
BTO							

Function		
description		
explain		
BTO		

STATE \ SIGNAL	SLP_S3#	SLP_S4#	SLP_S5#
Full ON	HIGH	HIGH	HIGH
S1(Power On Suspend)	HIGH	HIGH	HIGH
S3(Suspend to RAM)	LOW	HIGH	HIGH
S4(Suspend to Disk)	LOW	LOW	HIGH
S5(Soft OFF)	LOW	LOW	LOW
G3	LOW	LOW	LOW

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Power-Up/Down Sequence

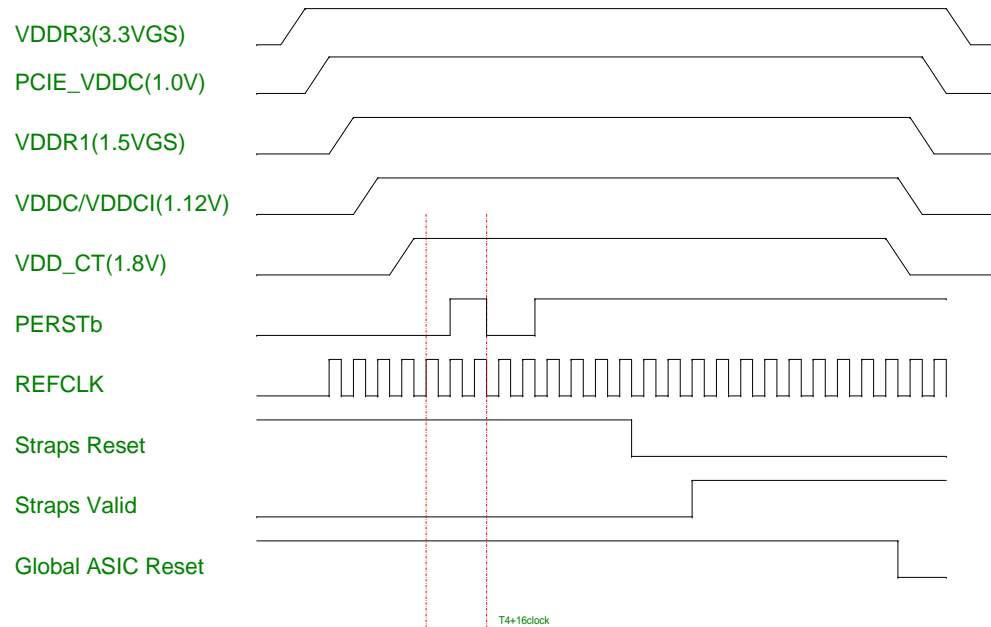
All the ASIC supplies, except for VDDR3, must full nominal voltages within 20 ms of the start of the shorter ramp-up duration is preferred. There is no ramp up of VDDR3 relative to other power rails.

The external pull-up resistors on the DDC/AUX sign ramp up before or after both VDDC and VDD_CT have r VDDC and VDD_CT should not ramp up simultaneously. should reach 90% before VDD_CT starts to ramp up (o For power down, reversing the ramp-up sequence is

y reach their respective
amp-up sequence, though a
timing requirement on the

als (if applicable) should
amped up.

For example, VDDC
r vice versa).
recommended.



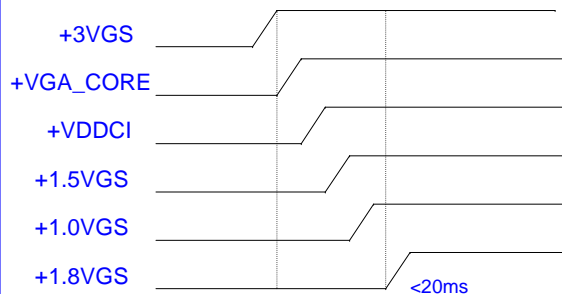
Note:

PX4.0 +VGA_CORE,VDDCI,+1.5VGS ON

PX4.0 +3VGS, +1.0VGS,+1.8VGS OFF

PX5.0 +3VGS,+VGA_CORE,VDDCI,+1.5VGS,+1.0VGS,+1.8VGS OFF

Power Sequence of Thames and Chelsea



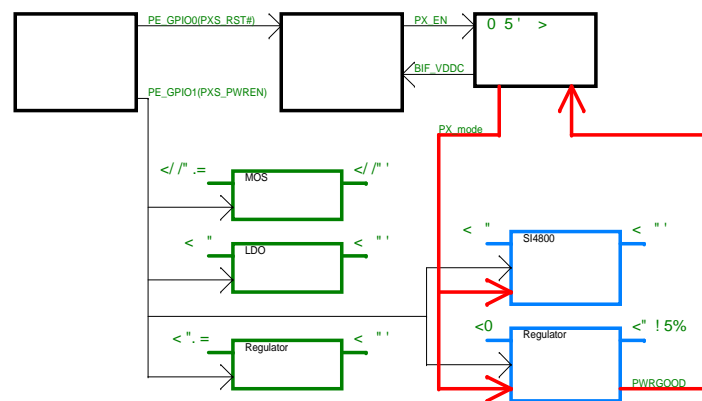
```

! 5 +. ?@ %      AB9>?@; 8 2
! 5 +. ?@         5** AB9>?@      5;

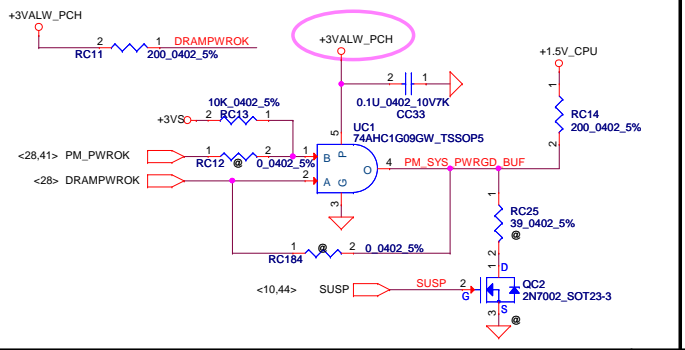
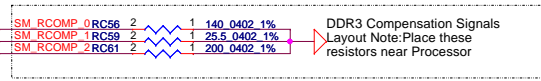
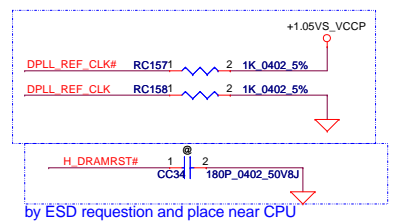
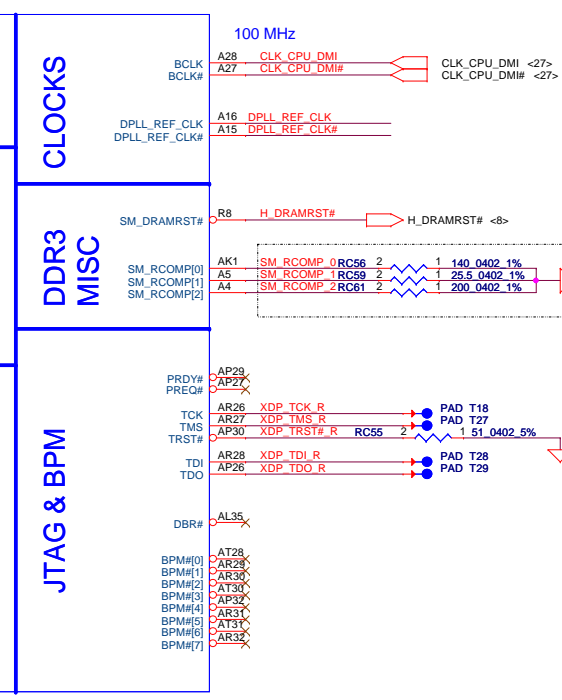
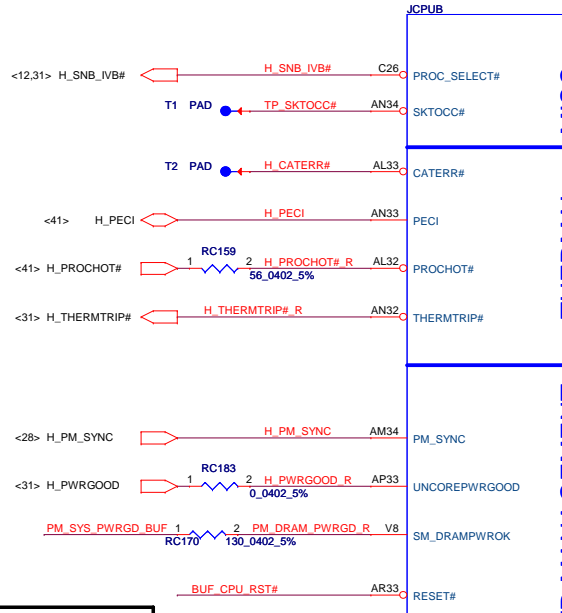
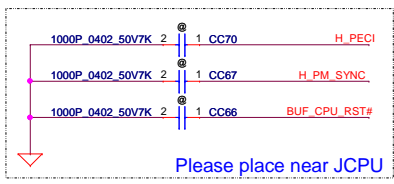
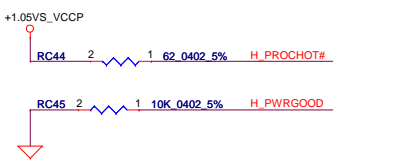
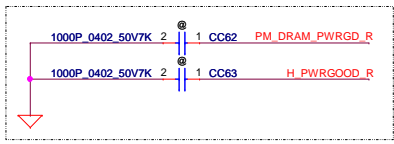
```

$$\begin{array}{ccccccc} | & 5 & + & B & 9 > & ? & @; & 8 & 2 & & 1 & & & 0 & 5 & & 6 \\ | & 5 & + & . & ? & @ & & 5^{**} & A & B & 9 > & ? & @ & & 5; & 1 & 8 & C & B & 9 > & 6 \end{array}$$

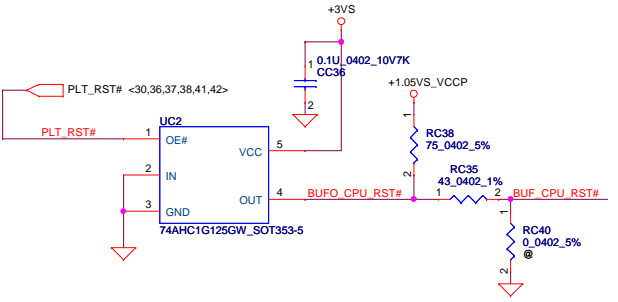
	" 8 9	:/	0 5	
!"##\$ %&'()*+,-./:;<=>?@A	"	5**	5;	
# !\$%&'()*+,-./:;<=>?@A				
#)+,-./:;<=>?@A				
# ..!"##\$ %&'()*+,-./:;<=>?@A				
#)+,-./:;<=>?@A	"	5**	5;	
!"##	"	5**	5;	
###/	/ /"	5**	5;	
0 !"## 1 2 3 4 "\$	'	5**	5;	
0 5 6	"##		!"##	
###%	"	5**	5**	
## 7"##	&0#	5**	5**	



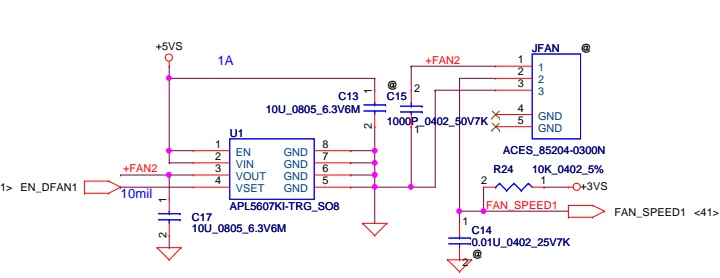
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Buffered Rest to CPU



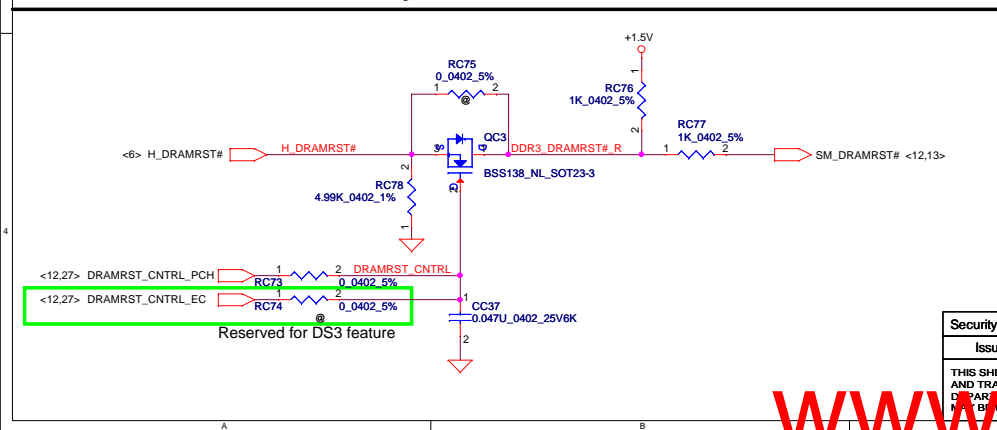
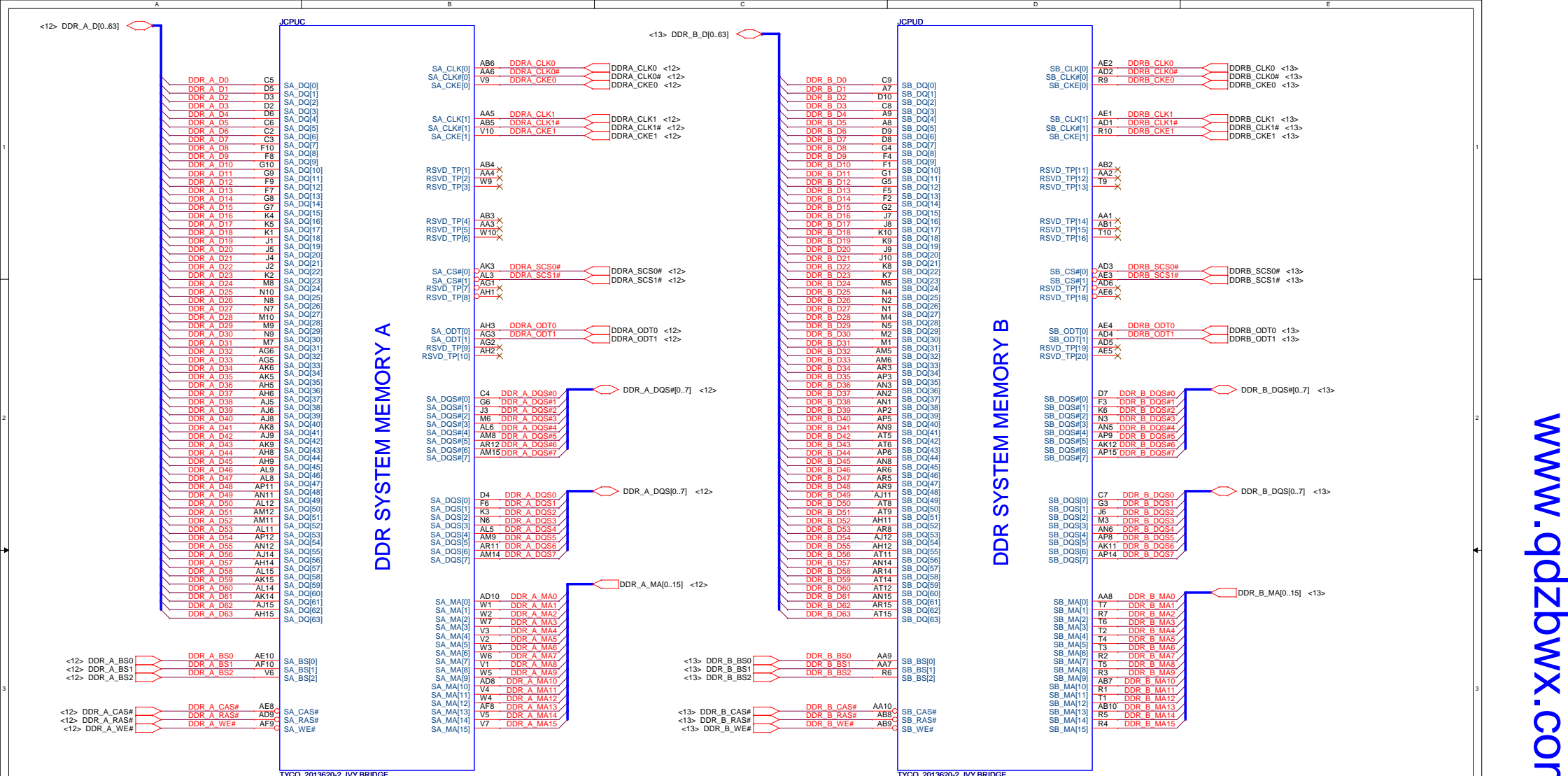
FAN Control Circuit (RPM)



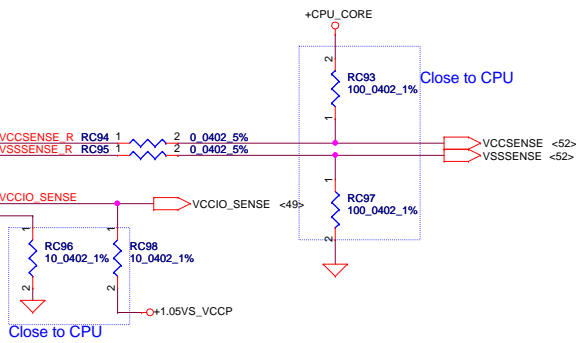
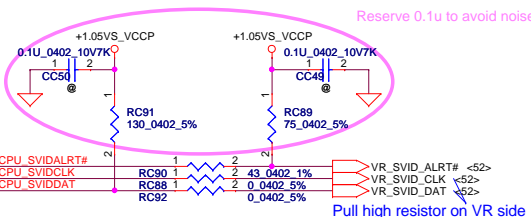
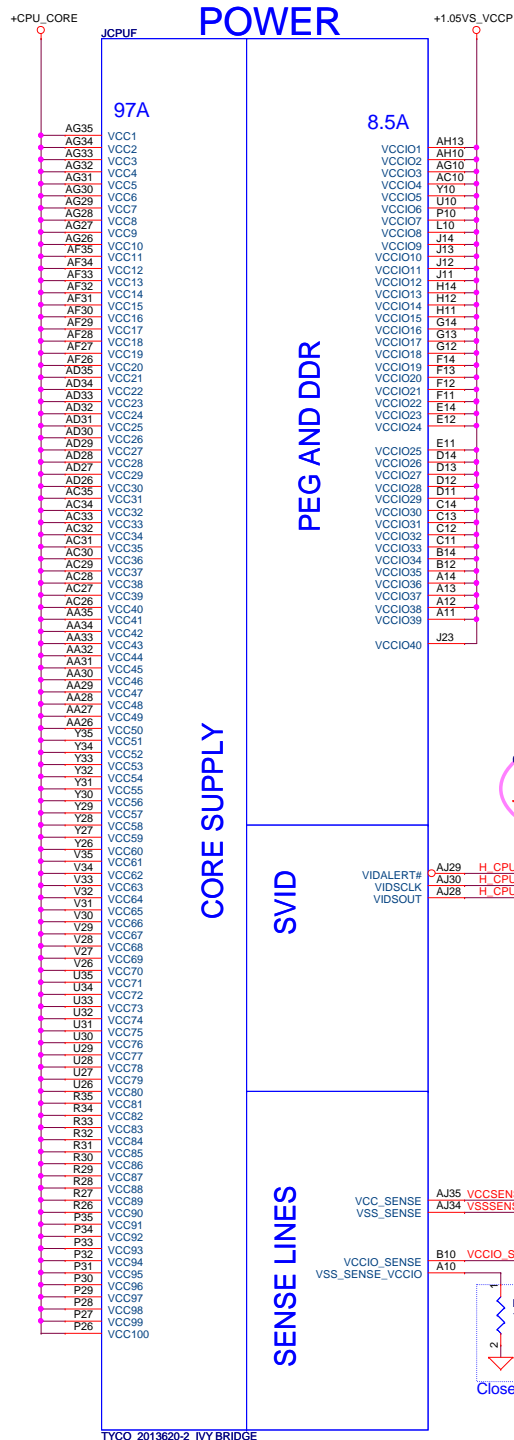
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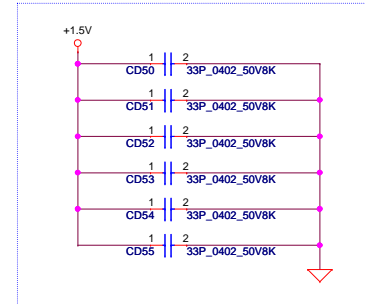
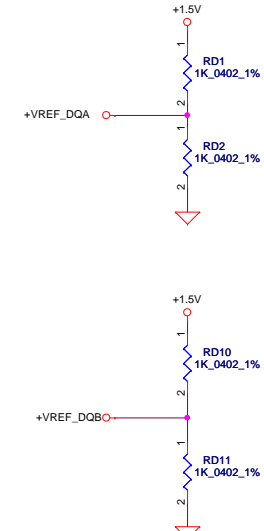
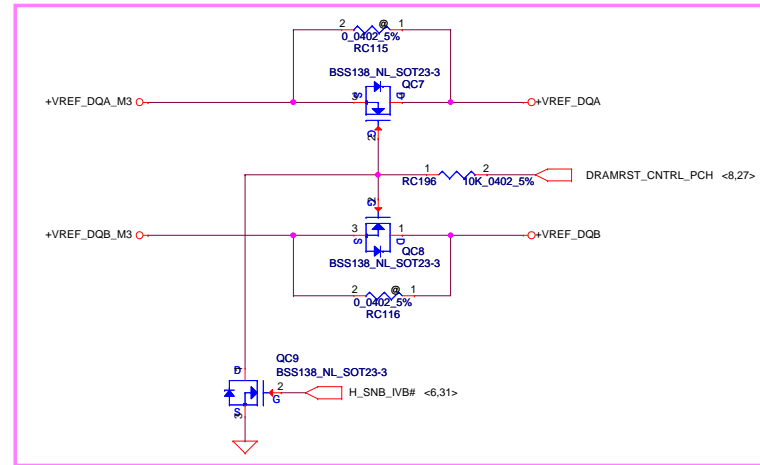
For Sandy Bridge



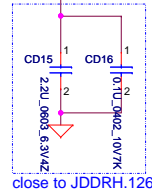
DDR3 SO-DIMM A
Reverse Type

Intel DDR Vref M3

DDR_A_DQS[0..7] <8>
DDR_A_DQS#0..7 <8>
DDR_A_D[0..63] <64>
DDR_A_MA[0..15] <16>



please place these caps near the
reference power plane of CMD/AD

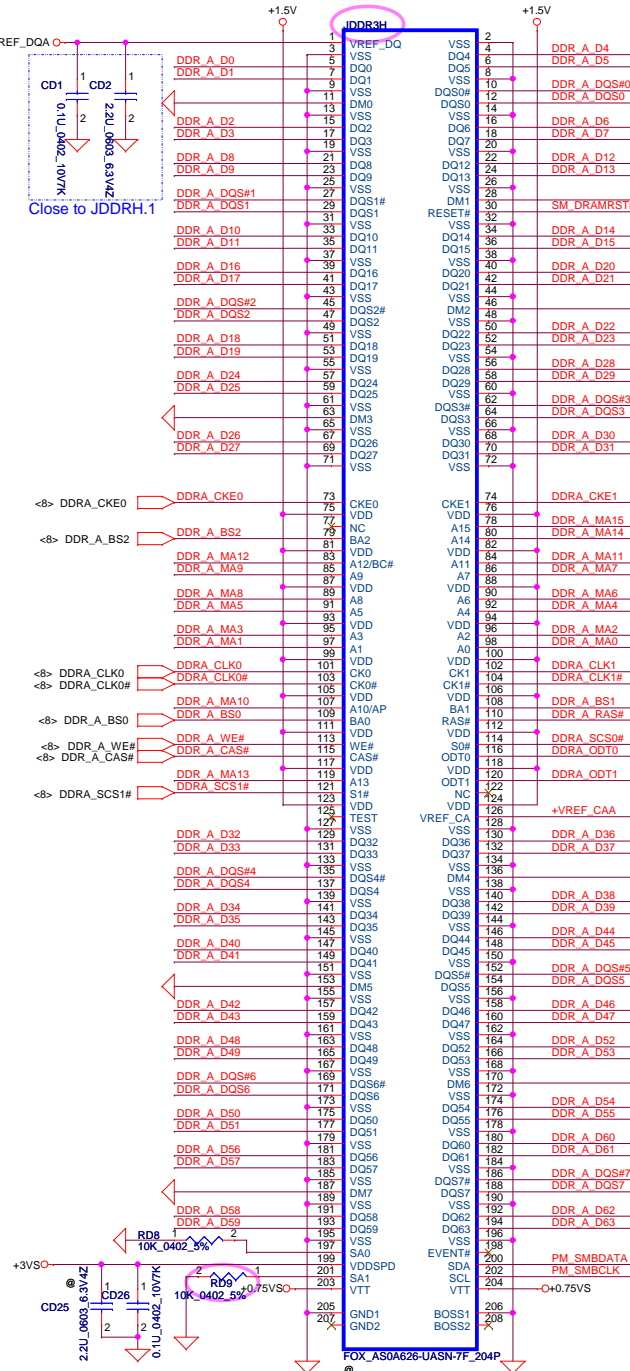
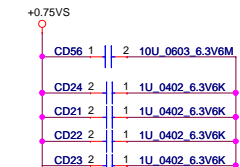
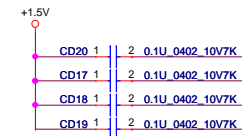
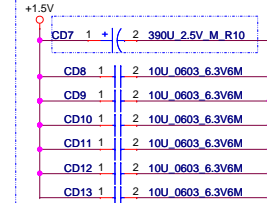


close to JDDR3H.126

Layout Note:
Place near JDDR3H

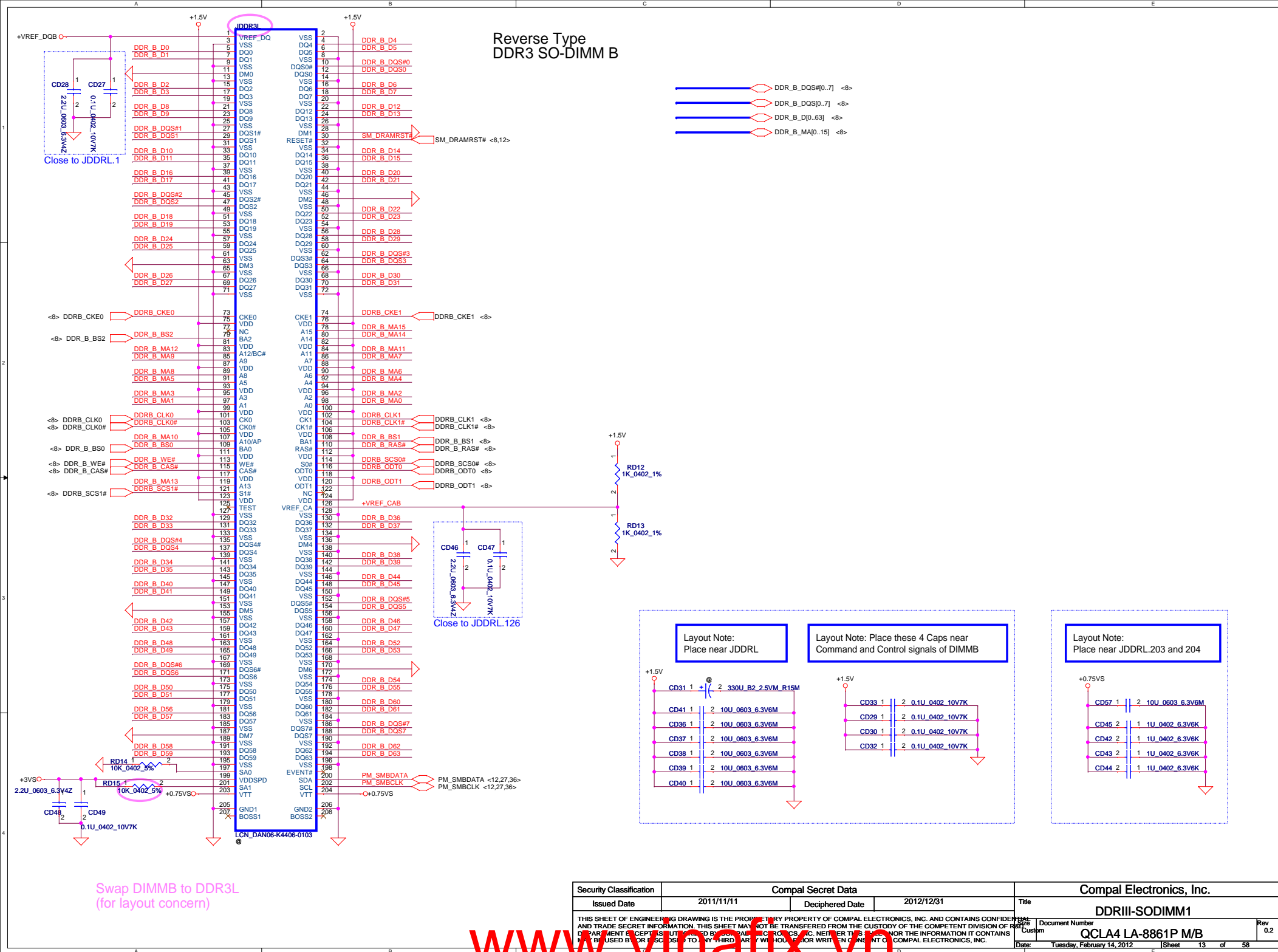
Layout Note: Place these 4 Caps near
Command and Control signals of DIMMA

Layout Note:
Place near JDDR3H.203 and 204



Swap DIMMA to DDR3H
(for layout concern)

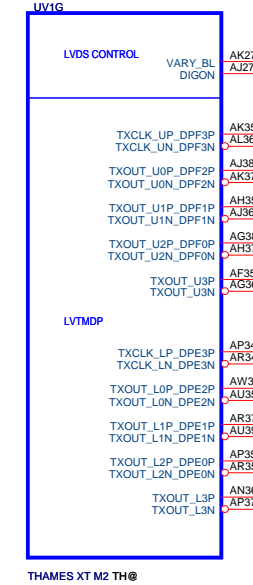
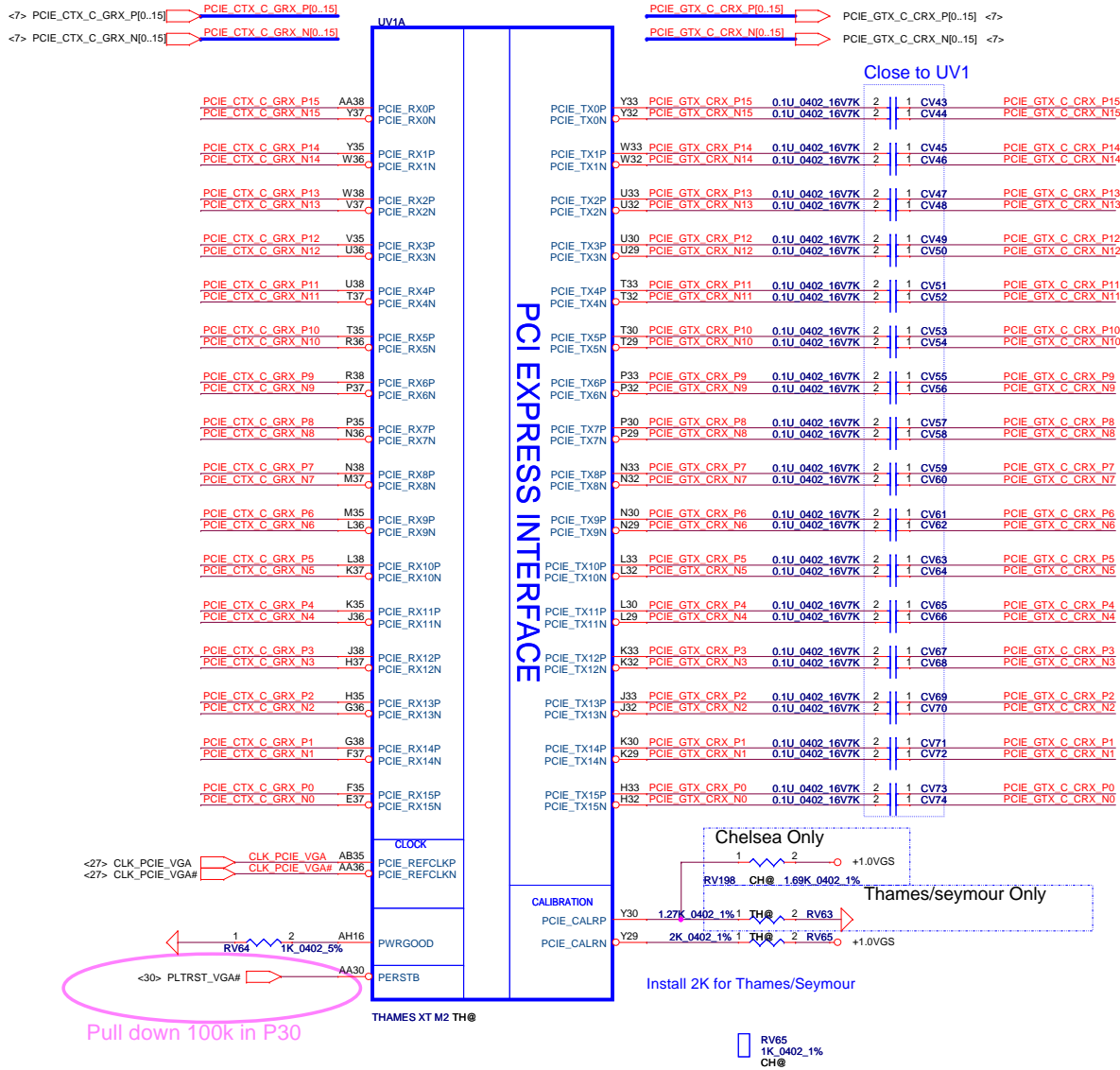
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Reverse Type
DDR3 SO-DIMM B

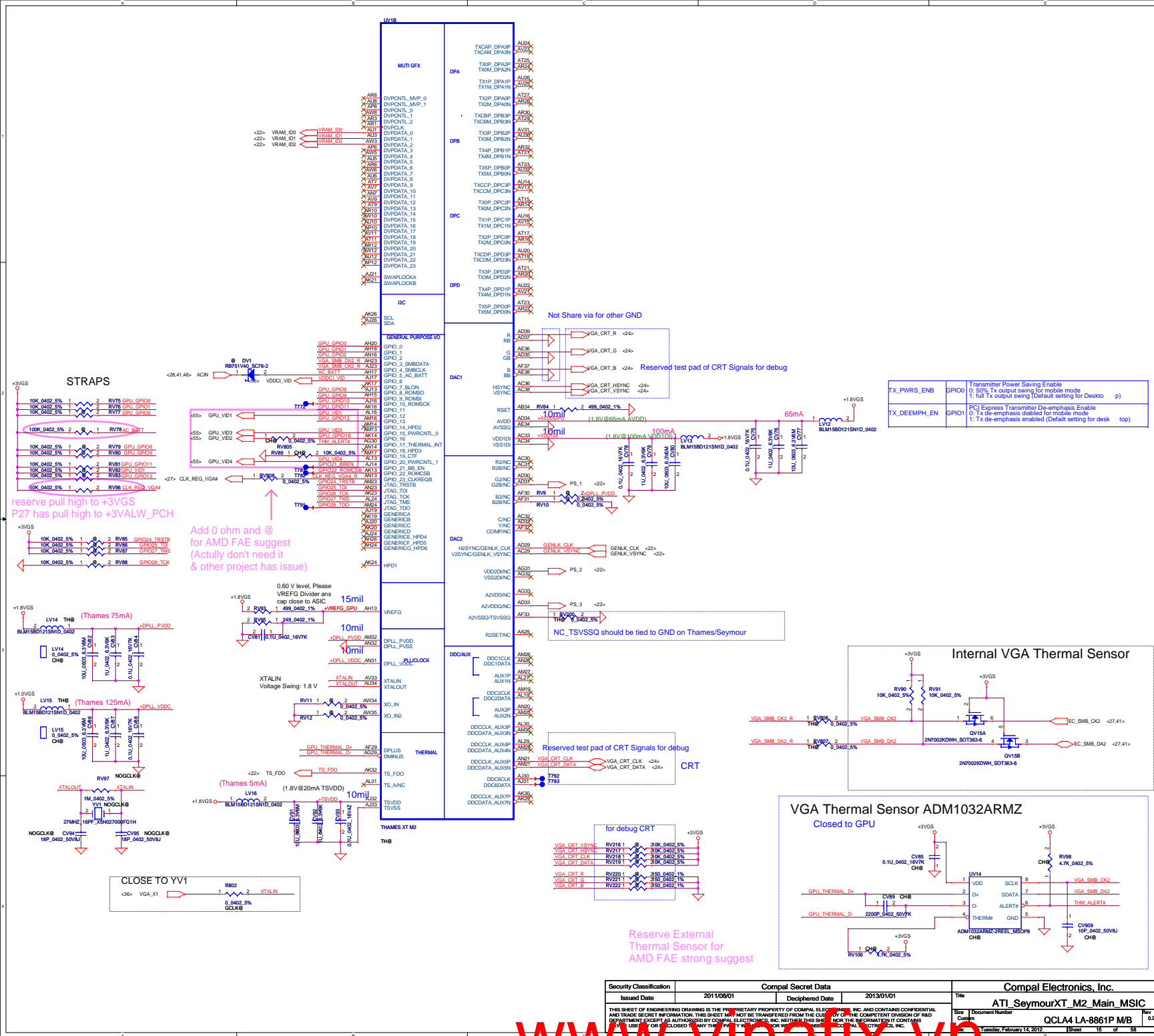
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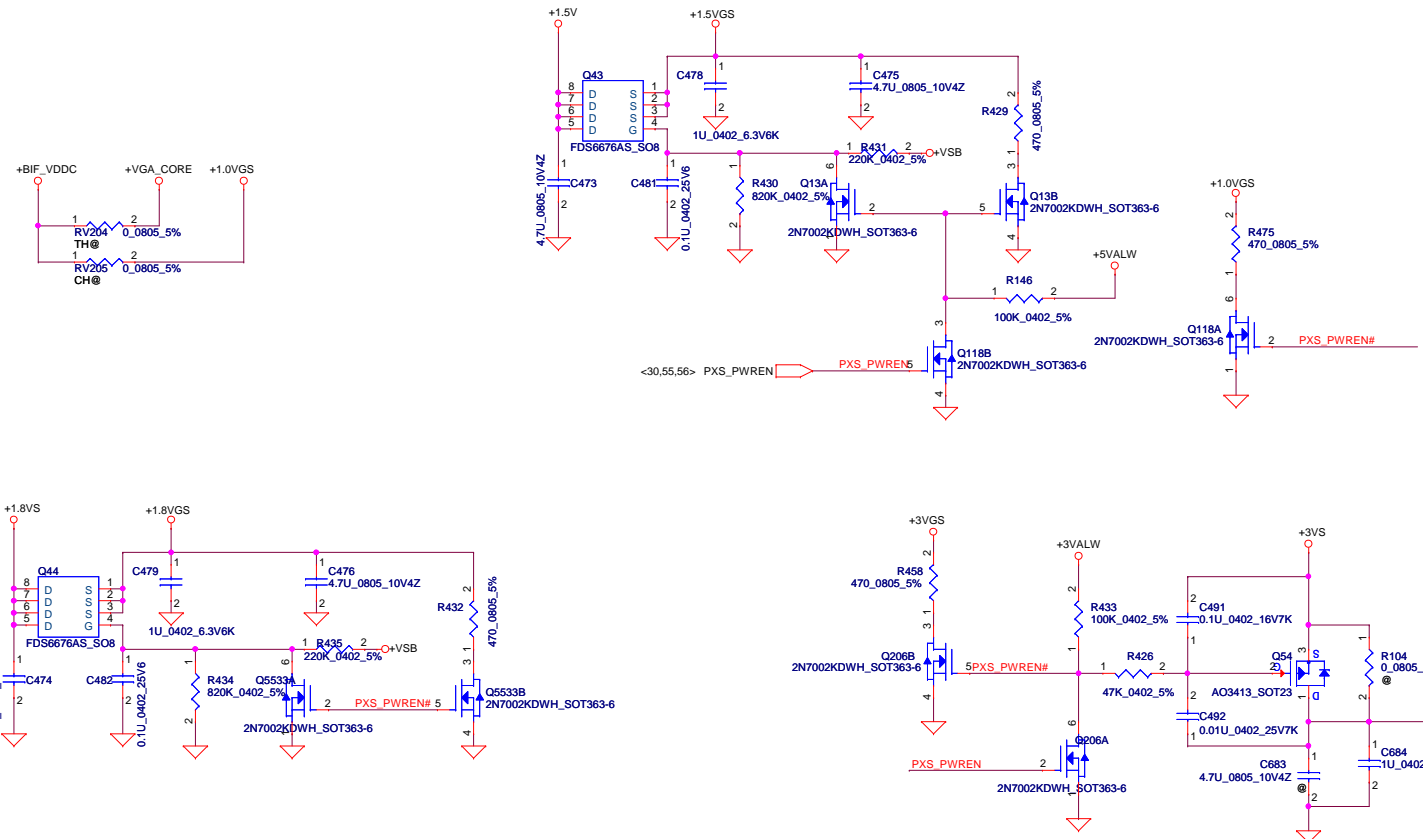
GFX PCIE LANE REVERSAL

LVDS Interface



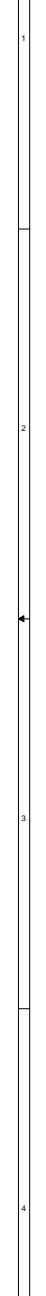
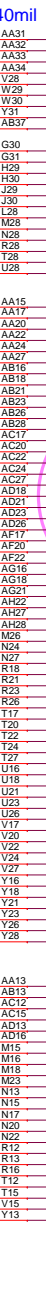
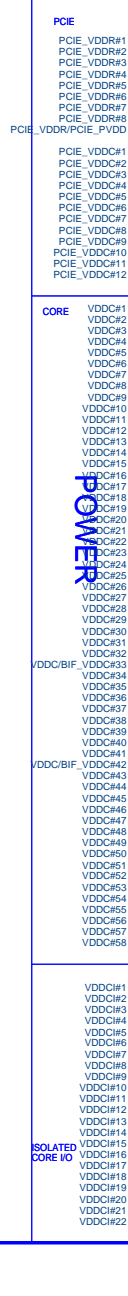
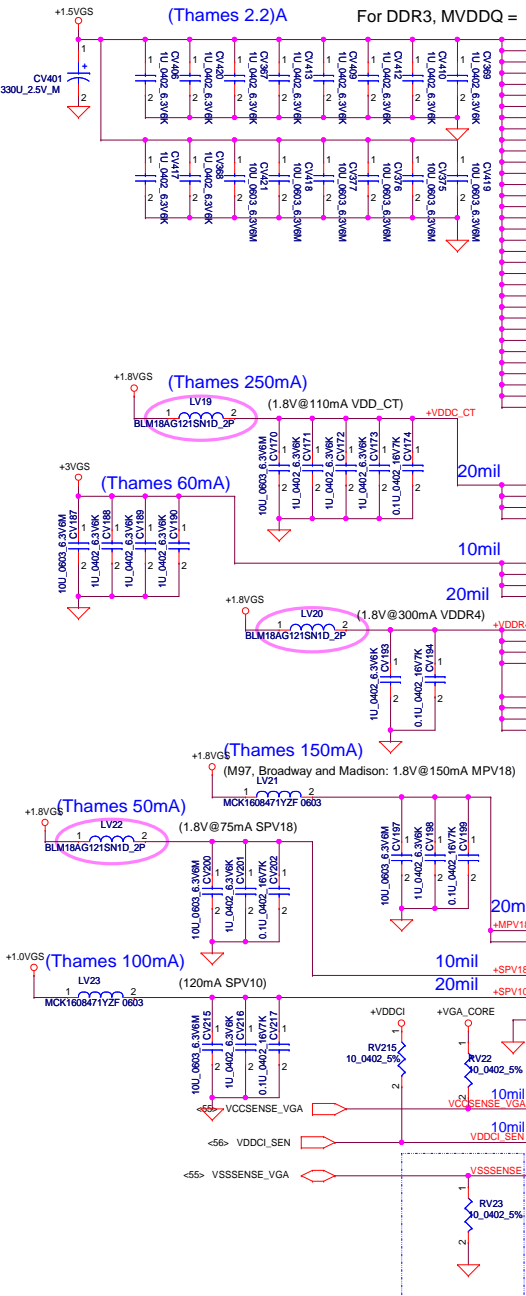
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								Document Number		QCLA4 LA-8861P M/B		Rev 0.2	
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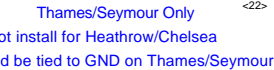
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Issued Date		2011/08/01		Deciphered Date		2013/01/01		Title		AT1_SeymourXT_M2_BACO POWER					
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For DDR3, MVDDQ =

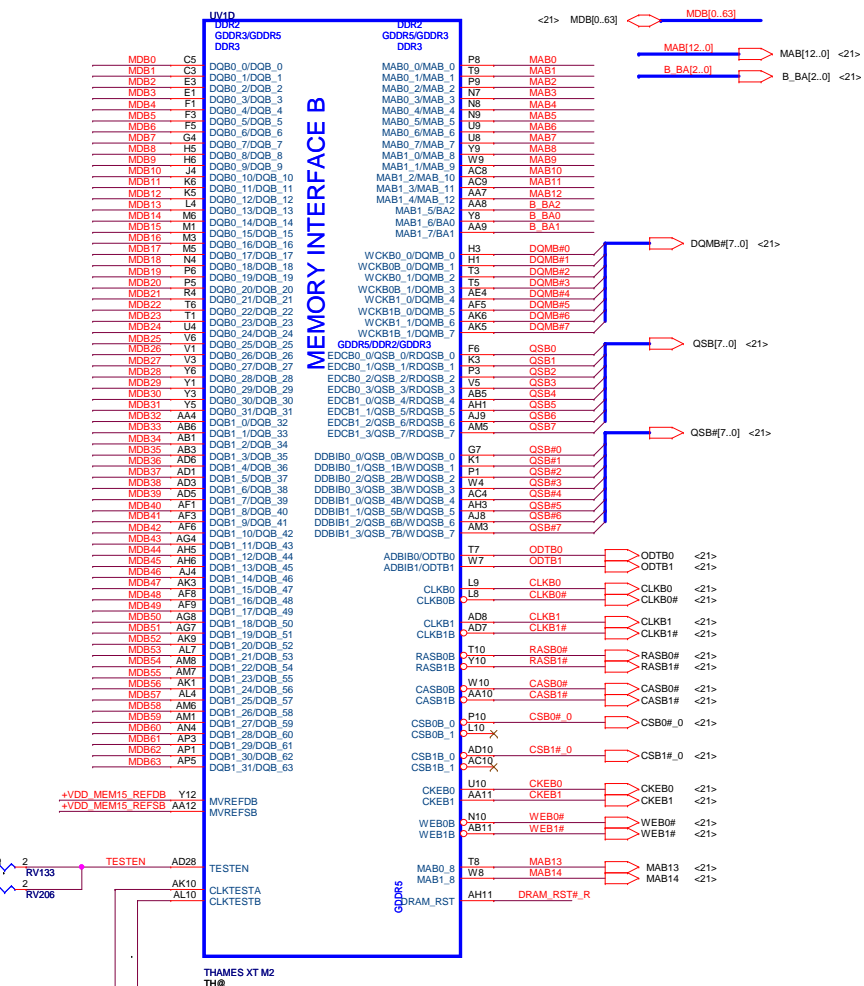


VDDCI and VDDC should have separate regulators with	a merge option on PCB
For Madison, Park, Capilano, Robson, Seymour and Whistler, VDDCI and VDDC can share one common regulator	or

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			ATI_SeymourXT_M2_Power			
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TH0

CV218
0.1U_0402_16V7K

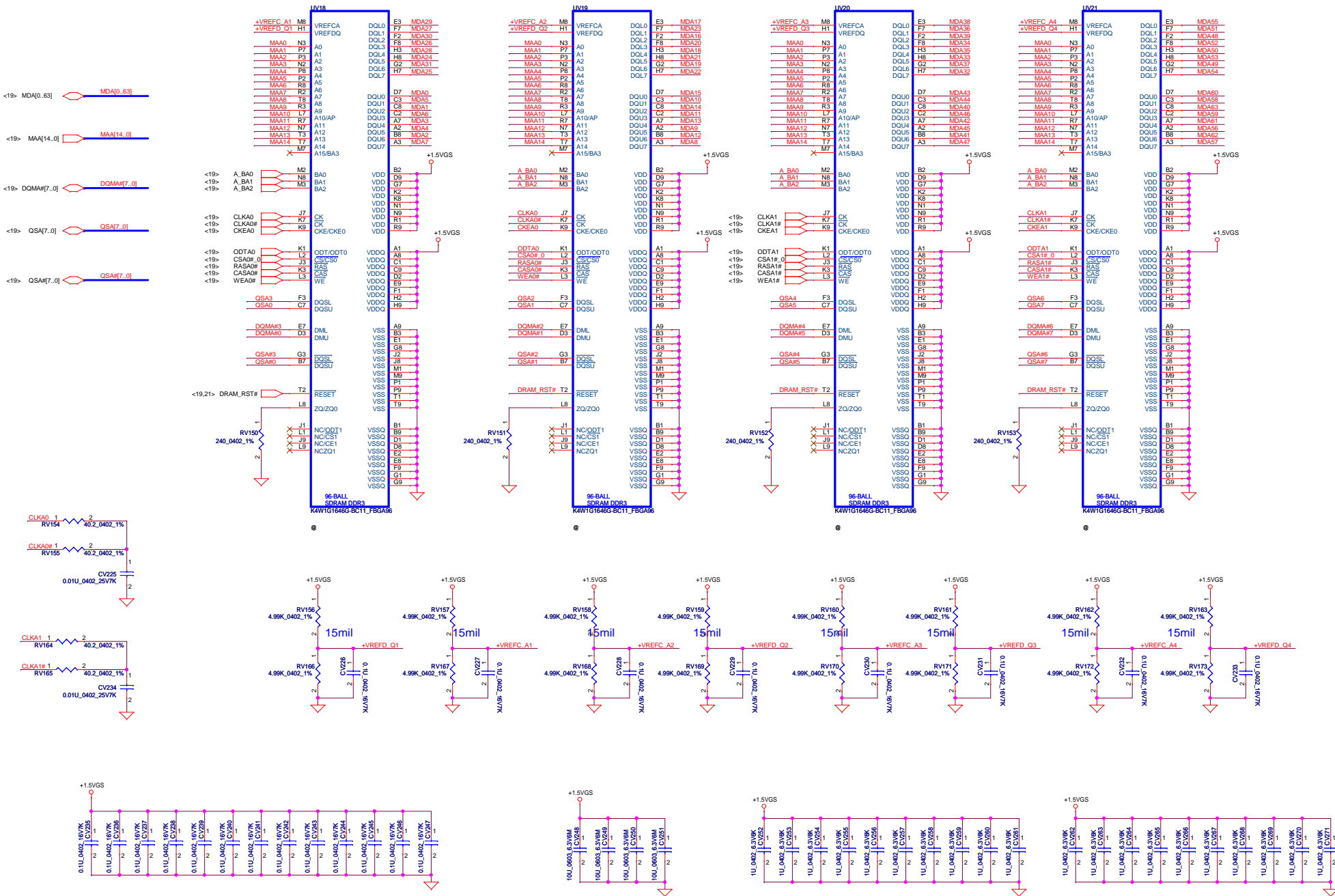
CV219
0.1U_0402_16V7K

route 50ohms single-ended/100ohms diff
and keep short
Debug only, for clock observation, if not needed, D

NH0

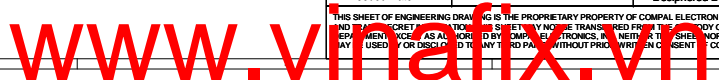
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CHANNEL A: 256MB/512MB DDR3

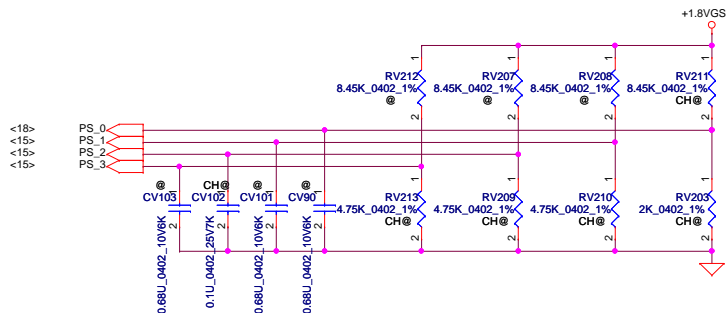


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Size	C	Document Number	QCLA4 LA-8861P M/B	Rev	
Date:	Tuesday, February 14, 2012	ISheet	20	of	

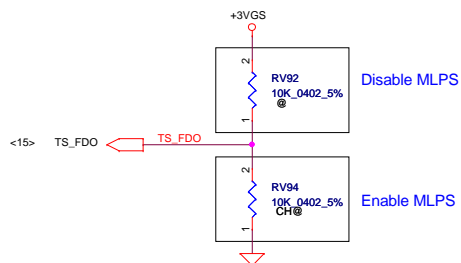
www.qdzbxw.com



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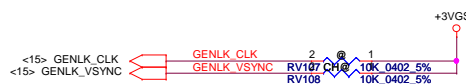


	Bits[5:4]	Bits[3:1]	Capacitor	R_pu	R_pd
PS_0[5:1]	1 1	0 0 1	NC	8.45k	2k
PS_1[5:1]	1 1	0 0 0	NC	NC	4.75k
PS_2[5:1]	0 0	0 0 0	680 nF	NC	4.75k
PS_3[5:1]	1 1	0 0 0	NC	NC	4.75k

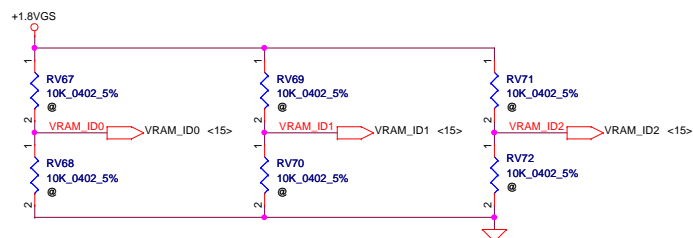


VRAM Straps

	!	"#\$%"	"#\$%"	"#\$%"
64MX16 (1G)	H5TGT683DFR-11C			
64MX16 (1G)	K4W1G1646G-BC11	0	0	1
* 128M16 (2G)	H5TQ2G683DFR-11C	1	0	1
* 128M16 (2G)	K4W2G1646C-HC11	0	1	1
		1	1	1



Modify VRAM Straps different from AMD platform
(Because BIOS team want to Common VBIOS,
Seperate VRAM Straps could be easily control VRAM
if AMD & Intel have different VRAM turning setting)



CONFIGURATION STRAPS

ALLOW FOR PULLUP PADS FOR THESE STRAPS AND IF THESE
GPIOs ARE USED, THEY MUST NOT CONFLICT DURING RESET

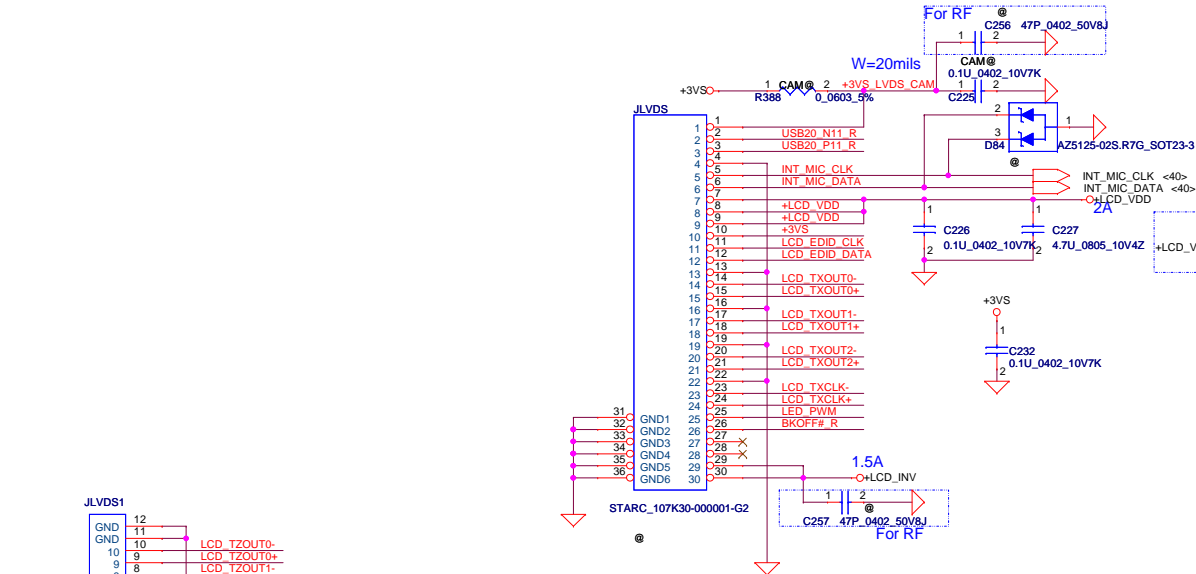
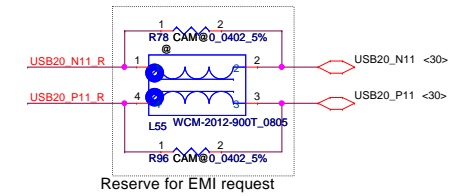
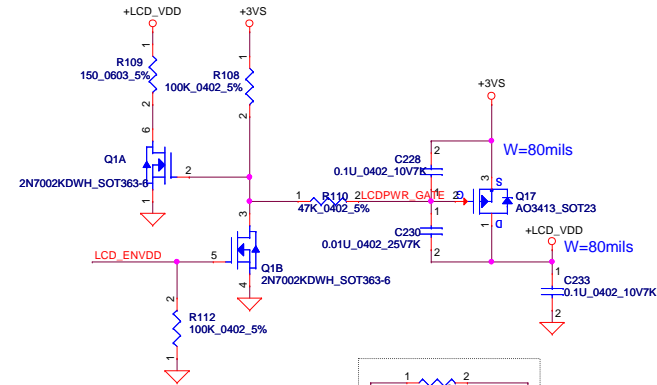
RECOMMENDED SETTINGS
0= DO NOT INSTALL RESISTOR
1 = INSTALL 10K RESISTOR
X = DESIGN DEPENDANT
NA = NOT APPLICABLE

MLPS Bit	STRAPS	Conventional Pin Strap Equivalent	DESCRIPTION OF DEFAULT SETTINGS	RECOMMENDED SETTINGS
PS_0[3:1]	ROMIDCFG(2:0)	GPIO[13:11]	Memory aperture size select 256MB: 0 0 1	0 0 1
PS_0[4]	N/A	GENLK_VSYNC	Must be 1 at rest. (Chelsea PRO)	1
PS_1[1]	STRAP_BIF_GEN3_EN_A	GPIO2	PCIe Gen3 capability 0: 2.5GT/s 1: 5GT/s	0
PS_1[2]	STRAP_BIF_CLK_PM_EN	GPIO8	PCIe clock power management capability.	0
PS_1[3]	N/A	GENLK_CLK	Must be 0 at rest. (Chelsea PRO)	0
PS_1[4]	TX_PWRS_ENB	GPIO0	PCIe full TX output swing 0: Half swing 1: Full swing	1
PS_1[5]	TX_DEEMPH_EN	GPIO1	PCIe transmitter de-emphasis enable 0: Disable 1: Enable	1
PS_2[1] PS_2[2]	N/A	N/A	Reserved	N/A
PS_2[3]	BIOS_ROM_EN	GPIO_22_ROMCSB	Enable external BIOS ROM 0: Disable 1: Enable	0
PS_2[4]	VGA DIS	GPIO9	VGA disable 0: Enable 1: Disable	0
PS_2[5] PS_3[3:1]	N/A	N/A	Reserved	N/A
PS_0[5]	AUD_PORT_CONN_PINSTRAP[0]	N/A	Audio-capable display outputs 0 0 0 All endpoints are usable 1 1 1 No usable endpoints.	1 1 1
PS_3[4]	AUD_PORT_CONN_PINSTRAP[1]			
PS_3[5]	AUD_PORT_CONN_PINSTRAP[2]			
AUD[1]	HSYNC		AUD[1] AUD[0] 0 0 No audio function 0 1 Audio for DisplayPort and HDMI if dongle is detected 1 0 Audio for DisplayPort only 1 1 Audio for both DisplayPort and HDMI	0 0
AUD[0]	VSYNC			
AMD RESERVED CONFIGURATION STRAPS ALLOW FOR PULLUP PADS FOR THESE STRAPS BUT DO NOT I NSTALL RESISTOR. IF THESE GPIOs ARE USED, THEY MUST KEEP " LOW" AND NOT CONFLICT DURING RESET				
GPIO21 H2SYNC GENERICC GPIO2 GPIO8				

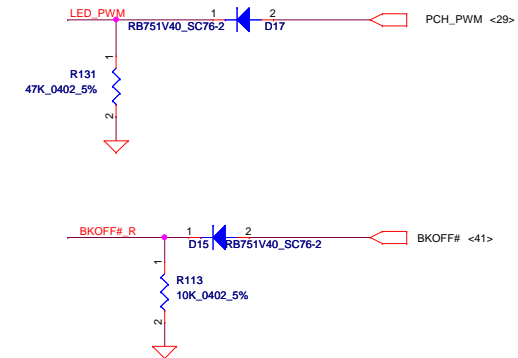
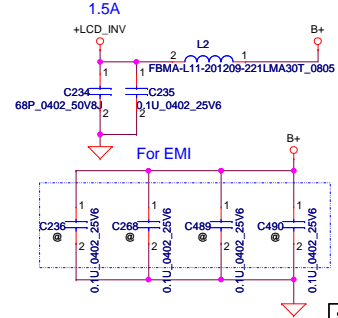
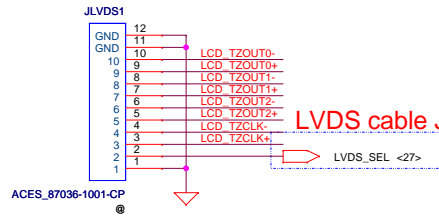
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				Document Number
				Custom
				Date: Tuesday, February 14, 2012
				Sheet 22 of 58

<29> LCD_TXOUT0+ LCD_TXOUT0+
 <29> LCD_TXOUT0- LCD_TXOUT0-
 <29> LCD_TXOUT1+ LCD_TXOUT1+
 <29> LCD_TXOUT1- LCD_TXOUT1-
 <29> LCD_TXOUT2+ LCD_TXOUT2+
 <29> LCD_TXOUT2- LCD_TXOUT2-
 <29> LCD_TXCLK+ LCD_TXCLK+
 <29> LCD_TXCLK- LCD_TXCLK-
 <29> LCD_EDID_CLK LCD_EDID_CLK
 <29> LCD_EDID_DATA LCD_EDID_DATA
 <29> LCD_ENVDD LCD_ENVDD

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 <29> LCD_TZOUT0- LCD_TZOUT0-
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 <29> LCD_TZOUT1- LCD_TZOUT1-
 <29> LCD_TZOUT2+ LCD_TZOUT2+
 <29> LCD_TZOUT2- LCD_TZOUT2-
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LVDS cable JLVD1.2 need to contact GND

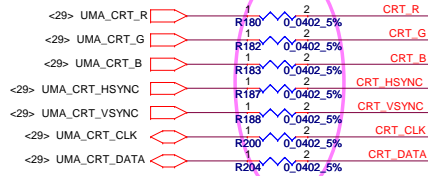
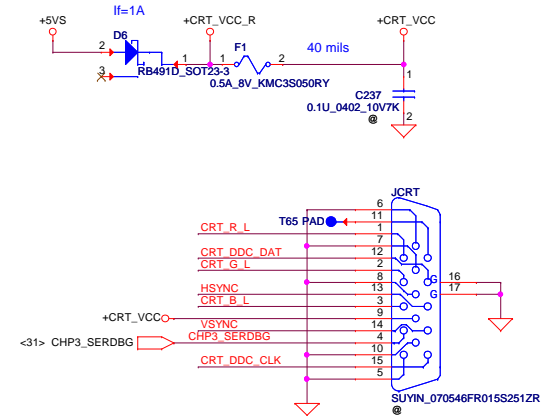
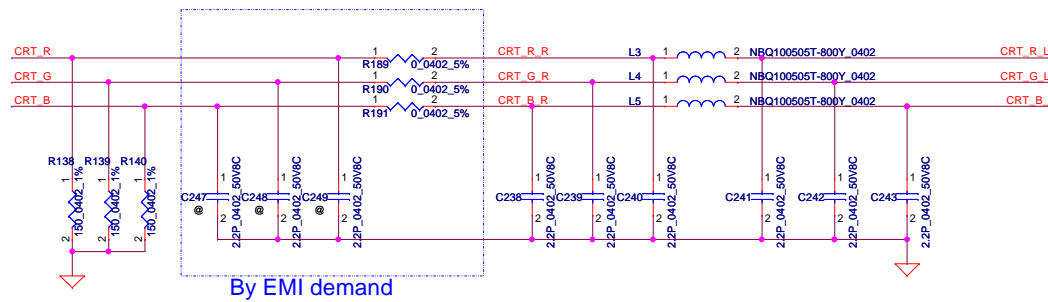


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				QCLA4 LA-8861P M/B	0.2
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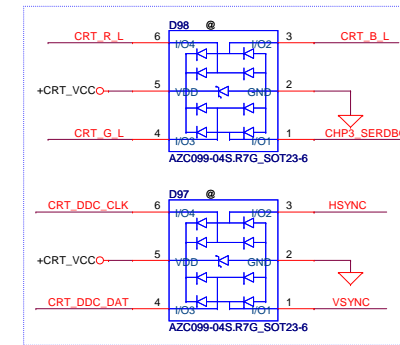
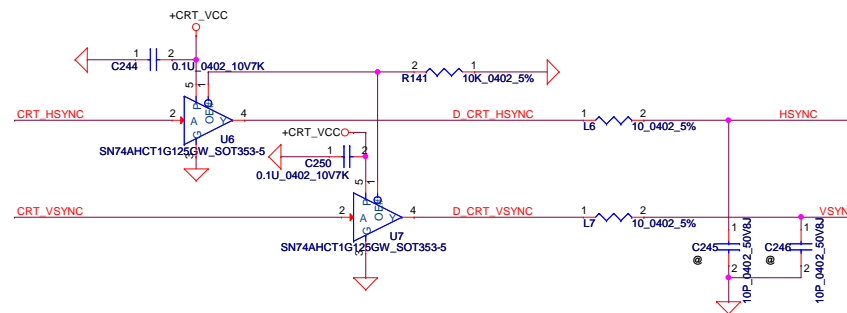
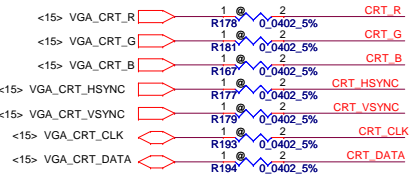
www.vinallix.vn

CRT CONNECTOR

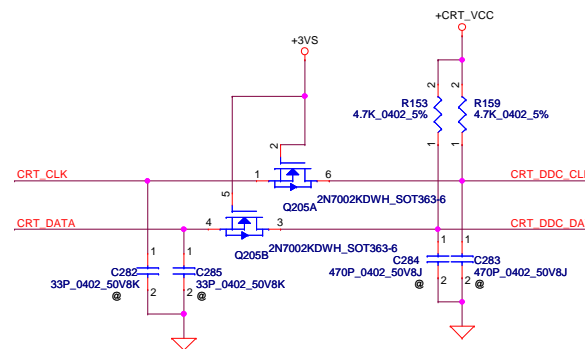


Reserve 10 ohm for debug CRT

From VGA for debug CRT

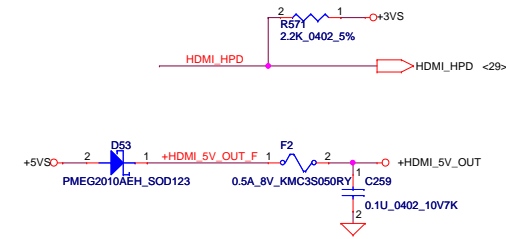
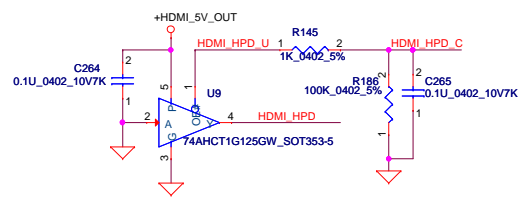
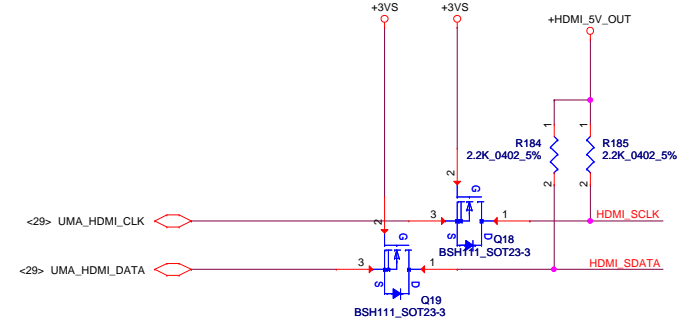
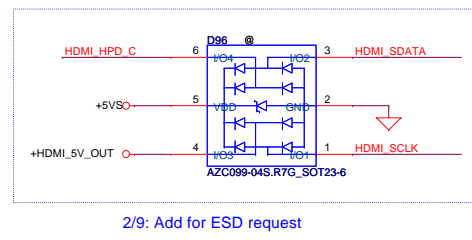
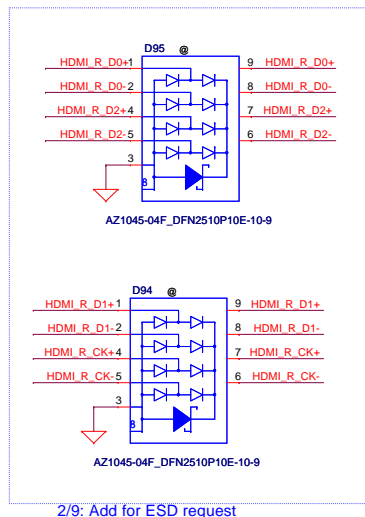
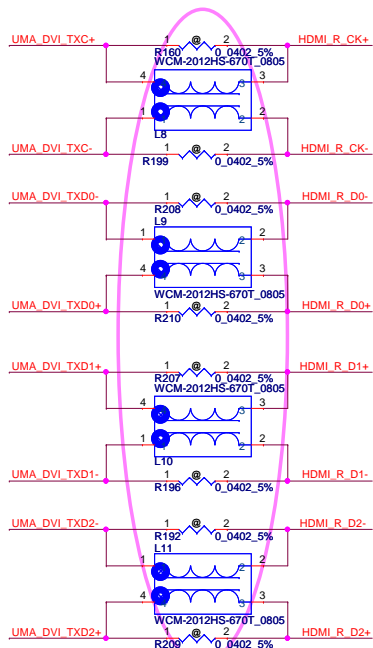


2/9: Add for ESD request

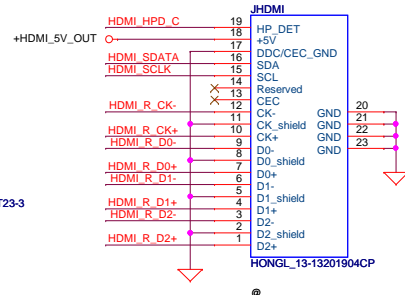


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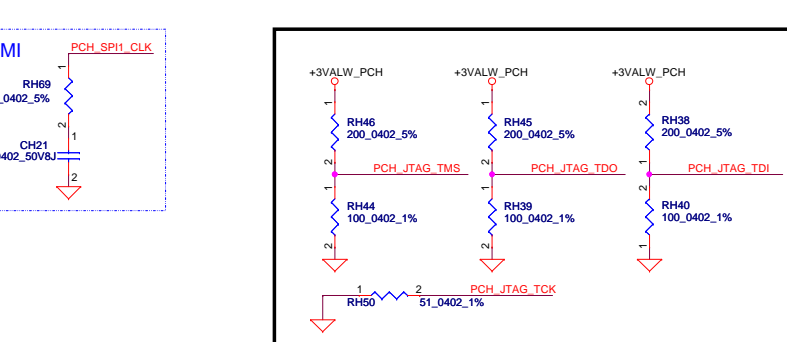
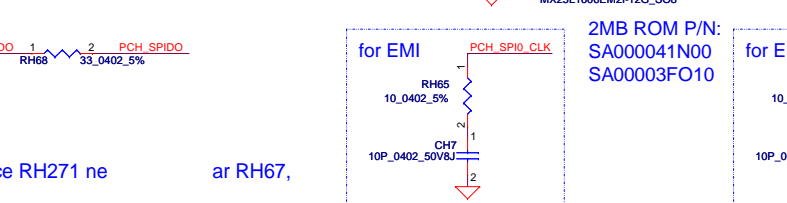
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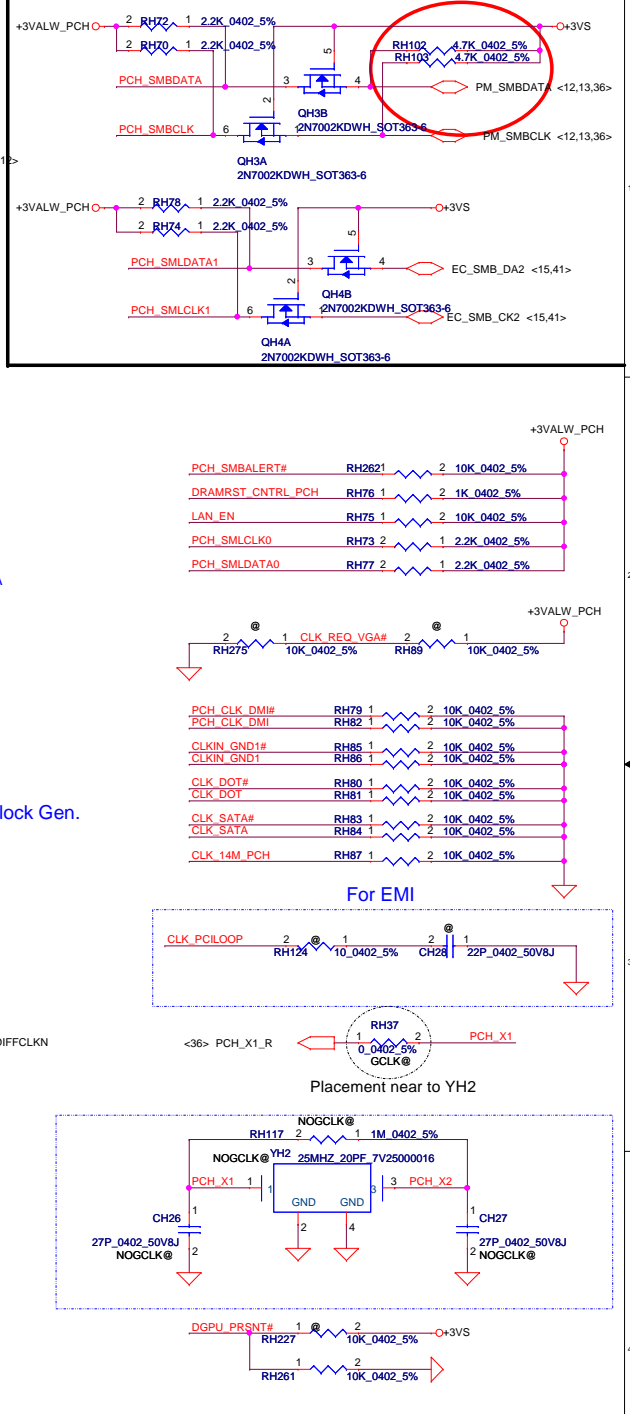
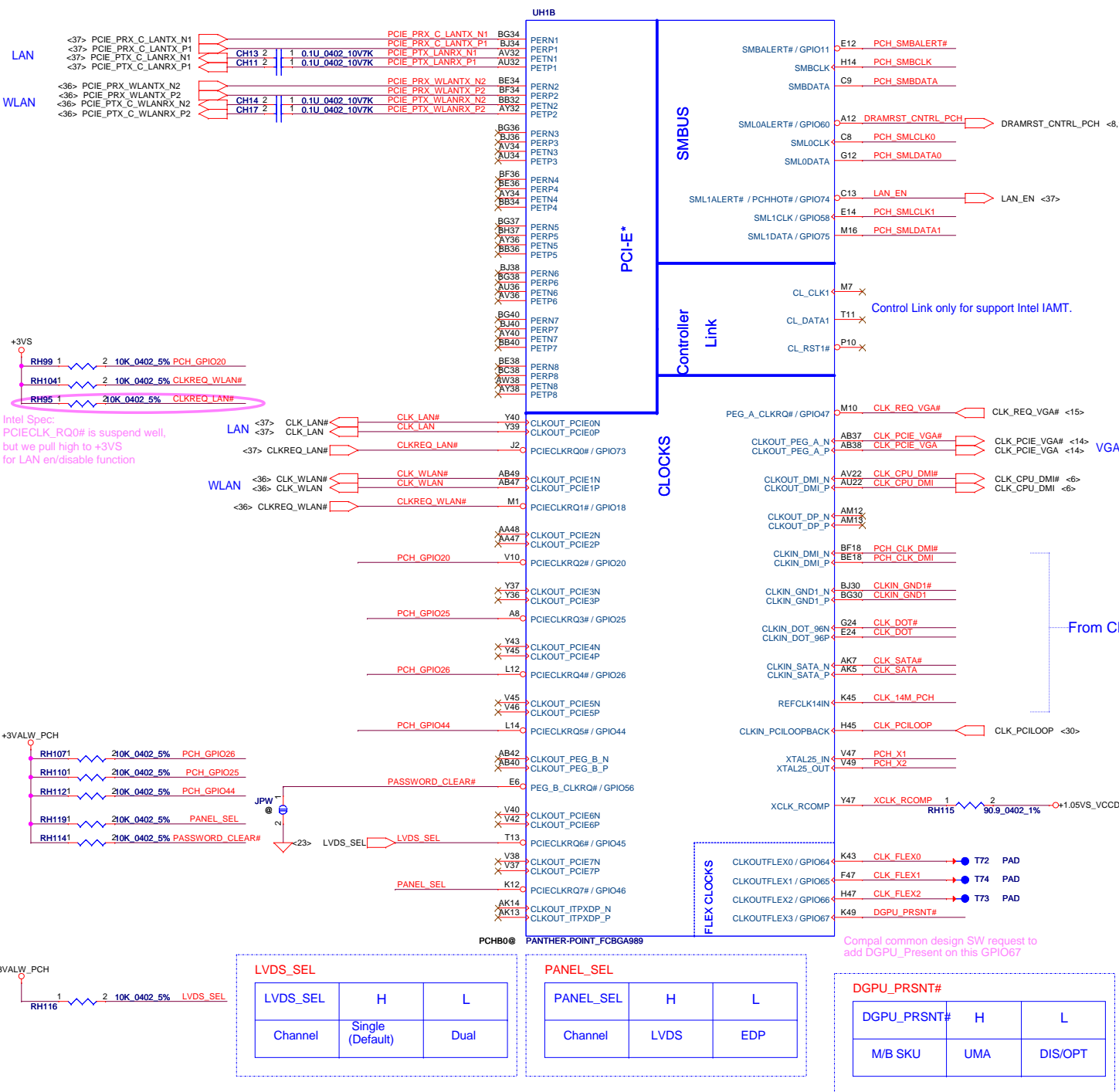
HDMI Connector



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				Tuesday, February 14, 2012				Sheet			
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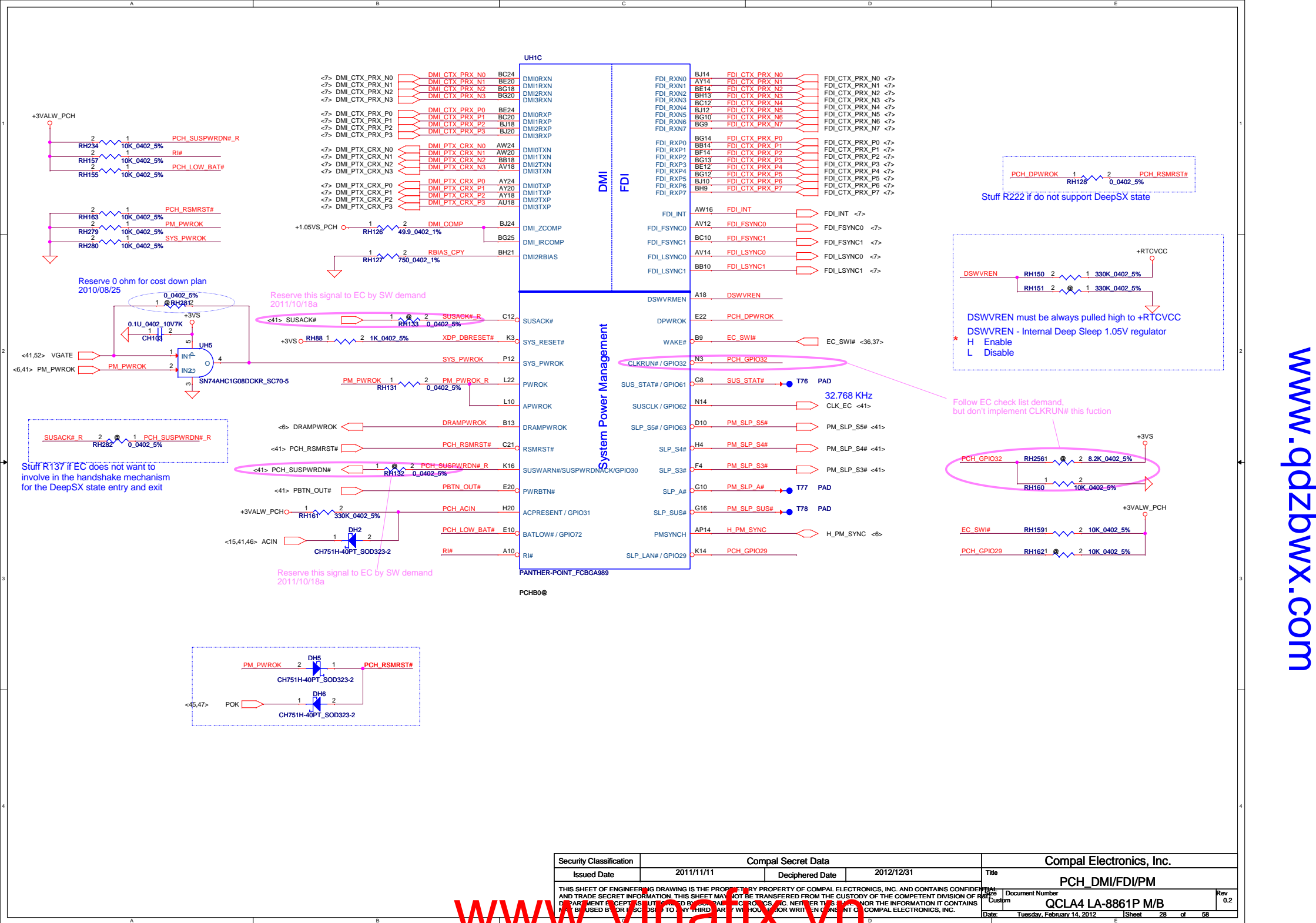


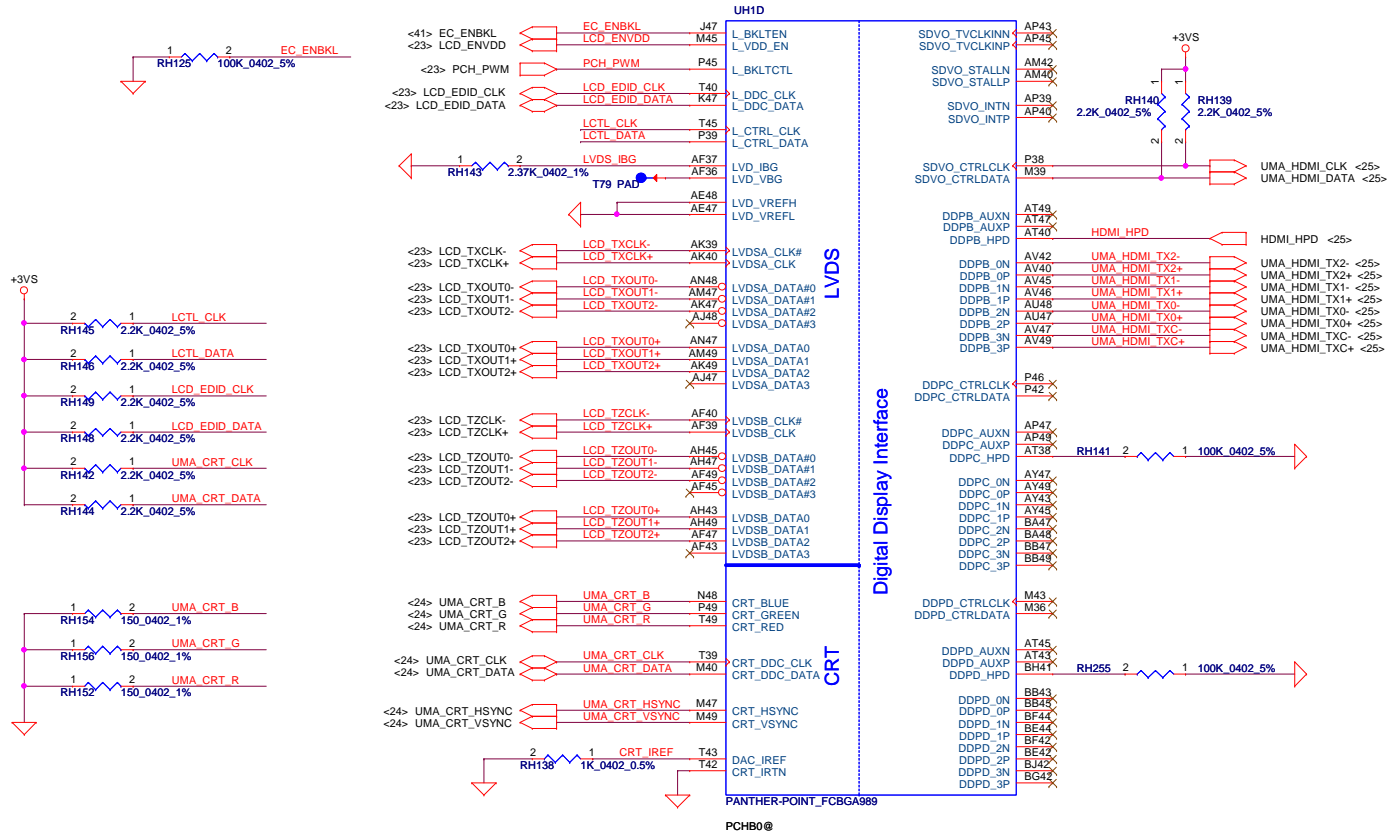
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				QCLA4 LA-8861P M/B	0.2
				Date: Tuesday, February 14, 2012	Sheet 27 of 58

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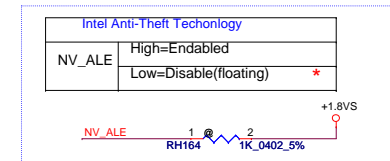
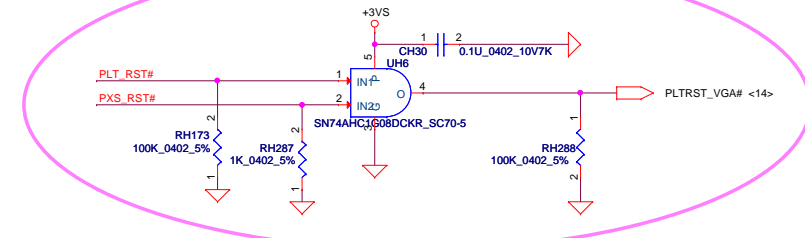




HDMI

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				Date	Tuesday, February 14, 2012
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				Rev	0.2

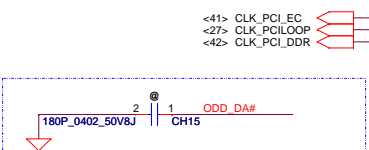
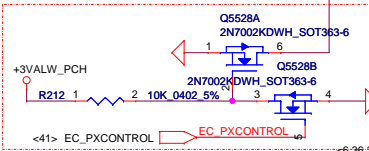
For PX5



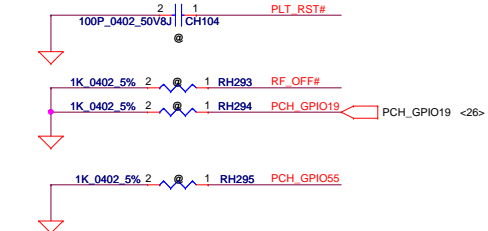
For PX5

For PX5

<16,55,56> PX5_PWREN



by ESD request and place near CPU



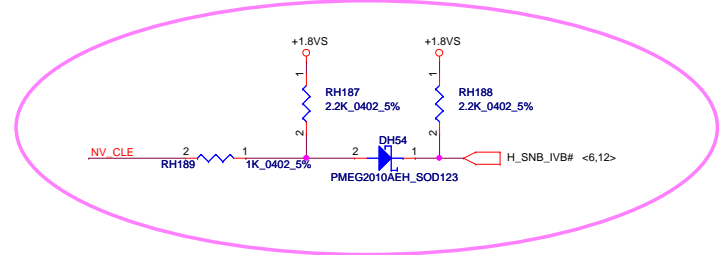
Boot BIOS Strap		
RF_OFF#	PCH_GPIO19	Boot BIOS Location
0	0	LPC
0	1	Reserved
1	0	PCI
1	1	SPI *

A16 Swap Override Strap	
WL_OFF#	
*	Low=A16 swap override Enable
	High=A16 swap override Disable

<38> CLK_PCI_TPM_PCH

Add new PCI CLK to TPM

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GPI08

Integrated Clock Chip Enable (Removed)

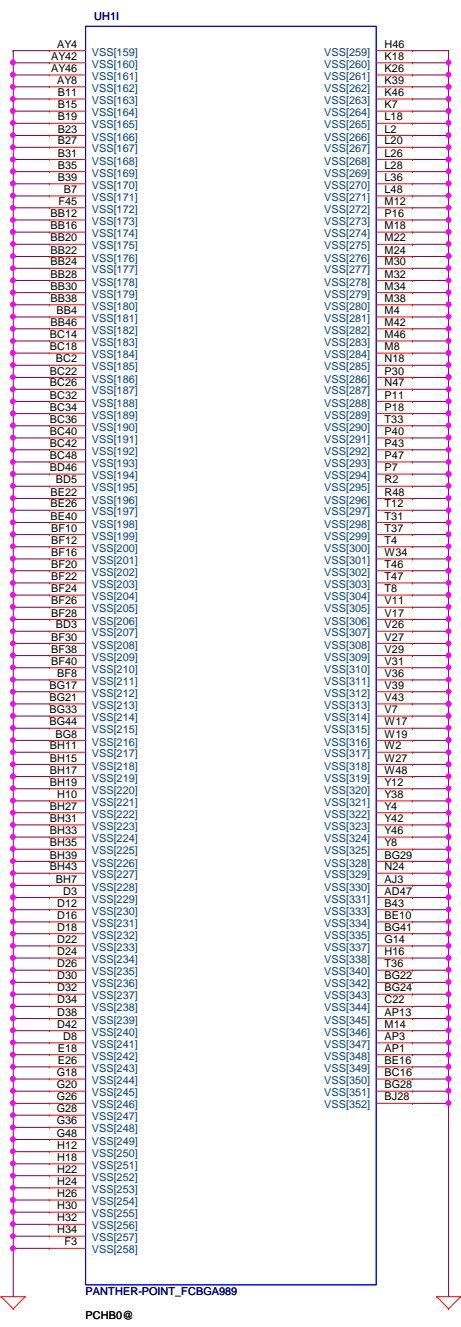
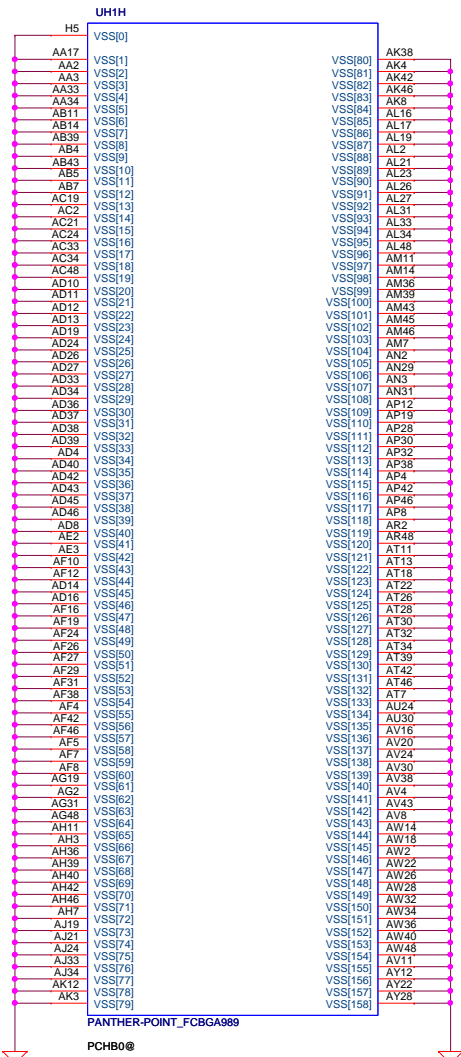
H: Disable
L: Enable

★

RH3008 1K_0402 5% EC_SMI#

Integrated clock enable functionality is achieved by soft-strap

The current default is clock enable

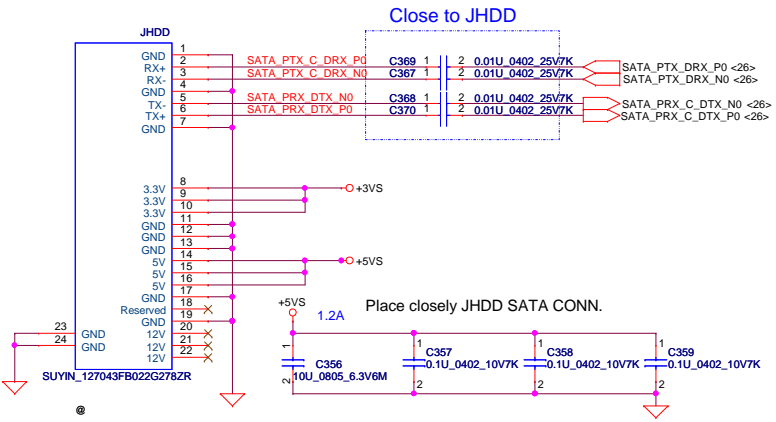


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								Document Number			
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								0.2			
								Date: Tuesday, February 14, 2012			
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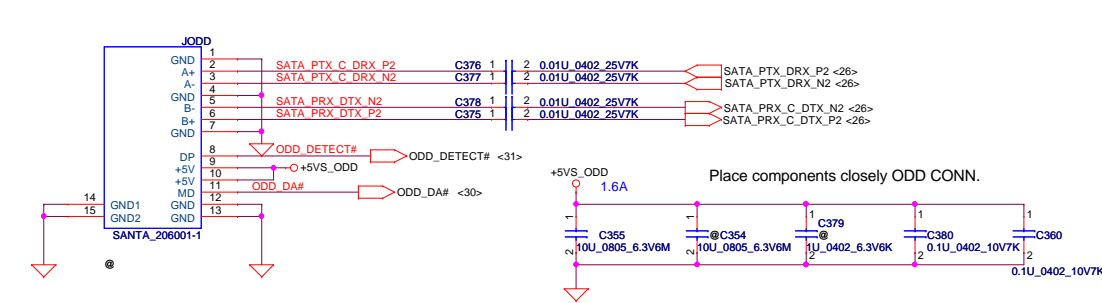
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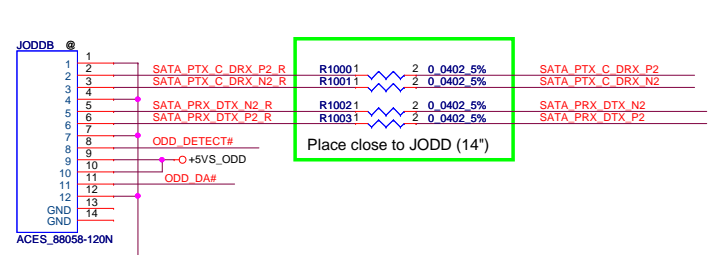
SATA HDD Conn.



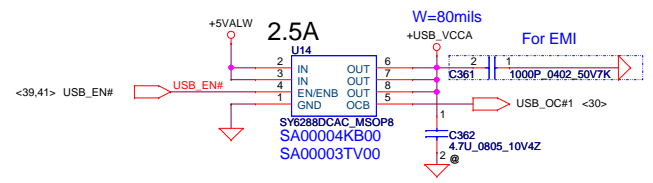
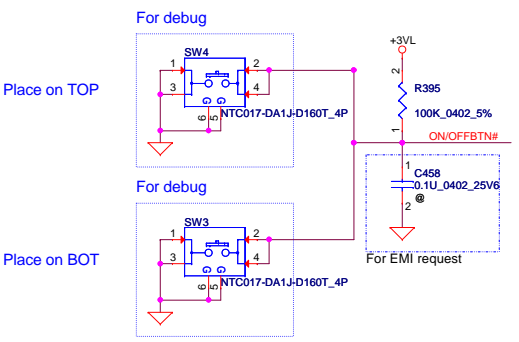
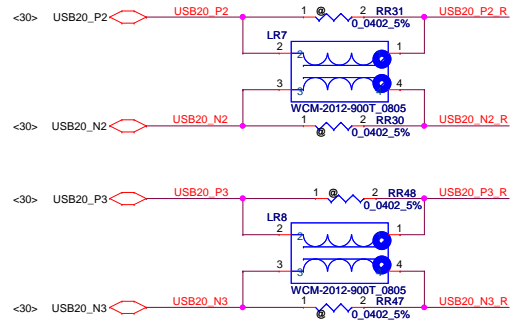
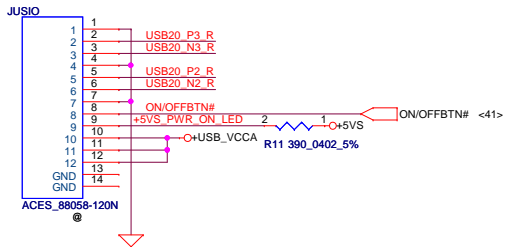
SATA ODD Conn



SATA ODD Conn (for 15')



Power Button & RUSB connector

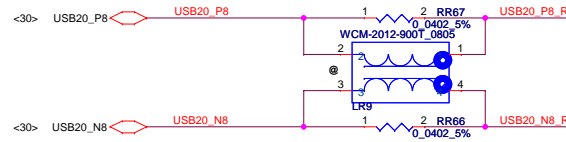
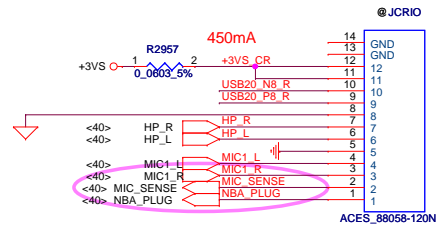


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				Date:	Tuesday, February 14, 2012
				Sheet	35 of 58

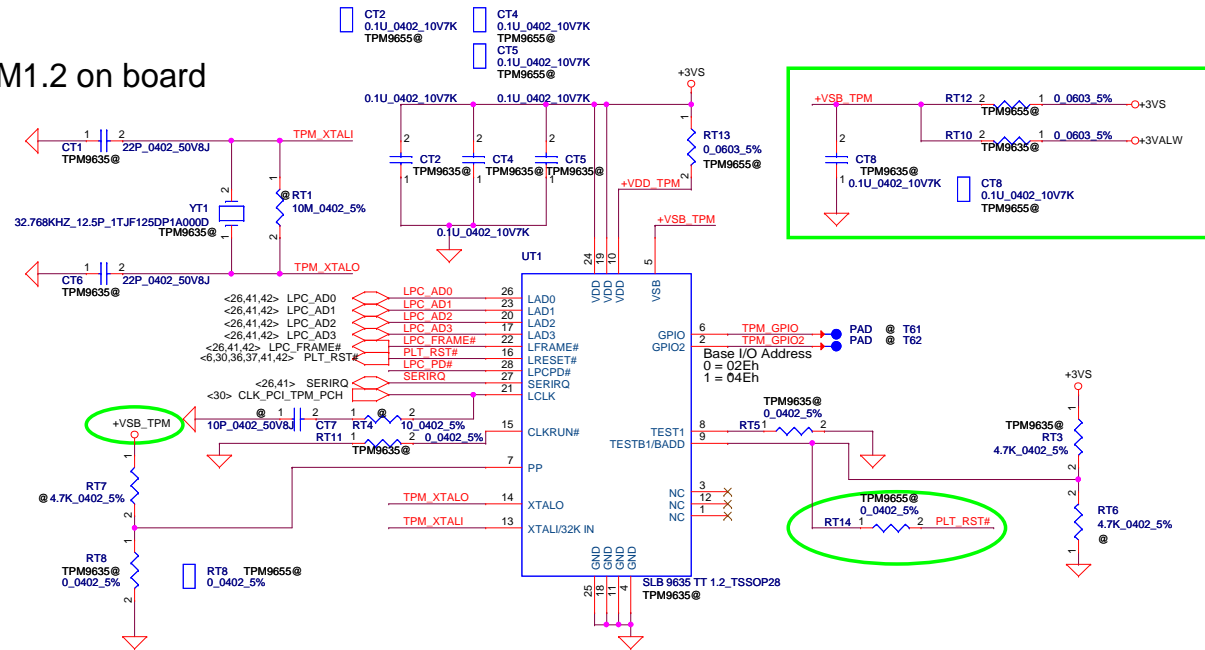
www.qdzbw.com

www.vinallix.vn

CardReader Conn.

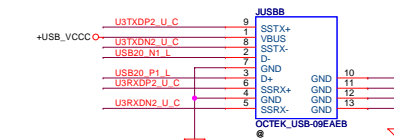
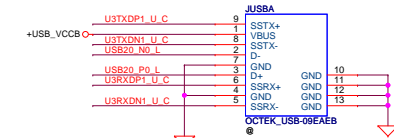
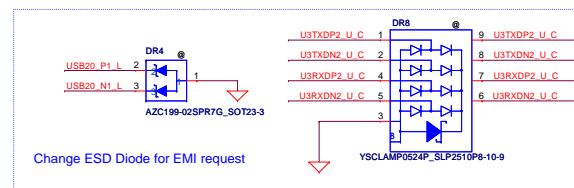
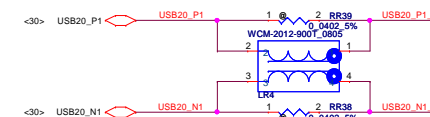
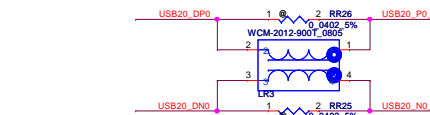
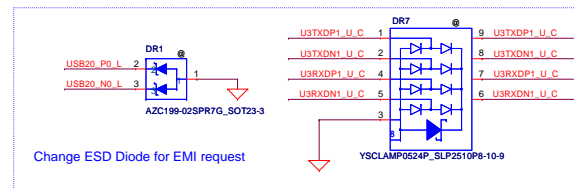
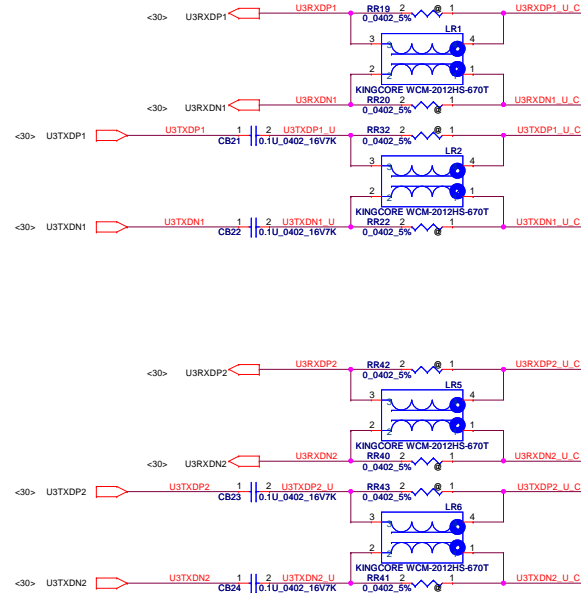
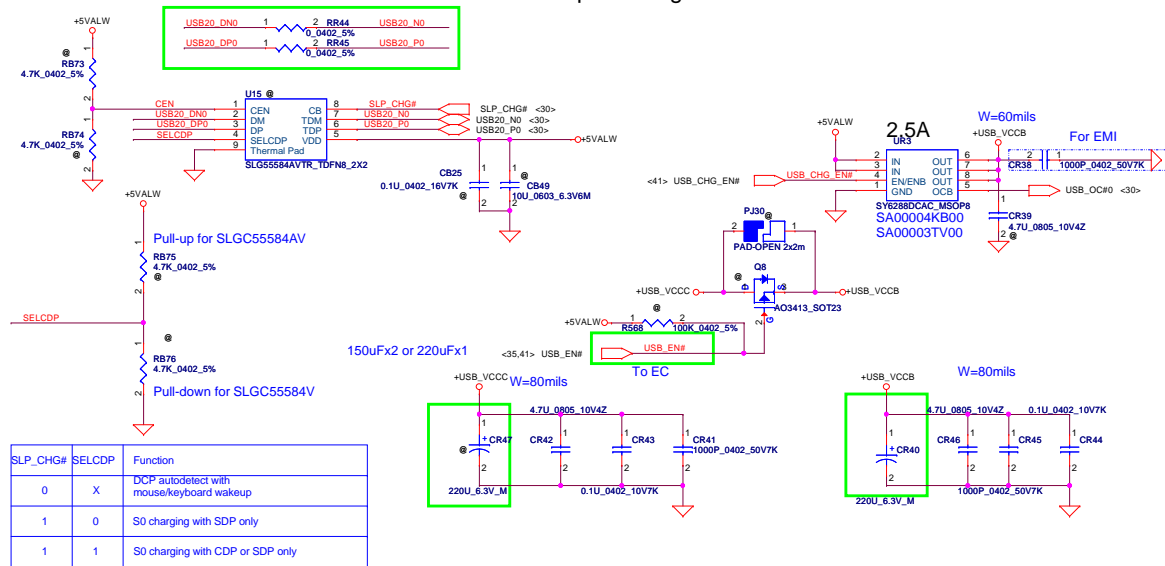


TPM1.2 on board



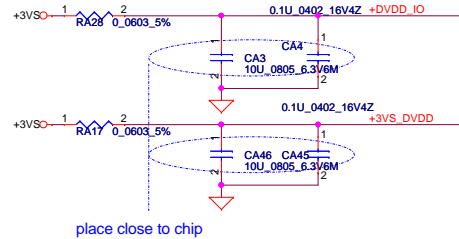
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Issued Date	2011/11/11	Deciphered Date	2012/12/31			Compal Electronics, Inc.	
						USB-CardReader RTS5129/TPM	
						QCLA4 LA-8861P M/B	
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						Date: Tuesday, February 14, 2012	
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Sleep & Charge Function

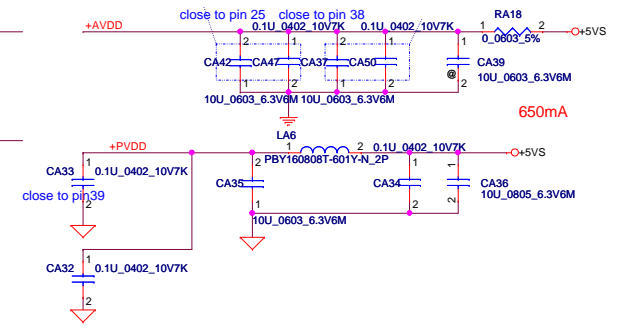


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Title		
PCIe-USB3.0 connector		
Size	Document Number	Rev
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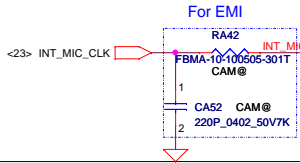
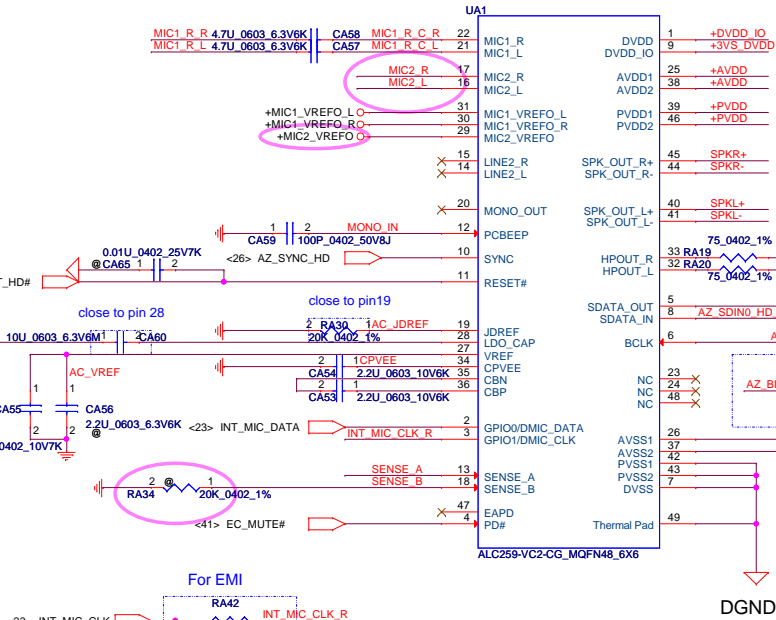
35mA for 3.3V level



place close to chip

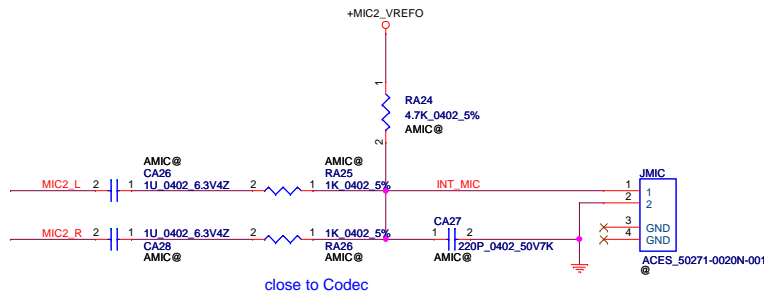


650mA



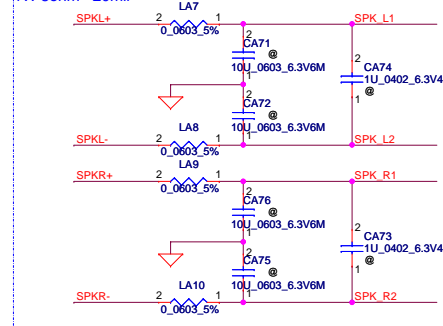
For EMI

Analog MIC

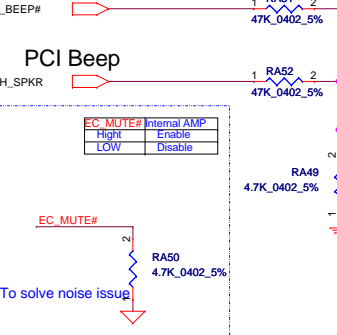


close to Codec

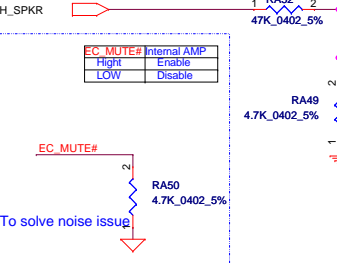
placement near Audio Codec



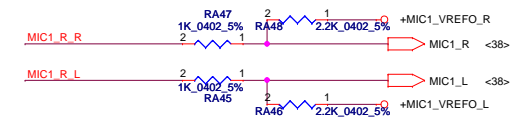
EC Beep



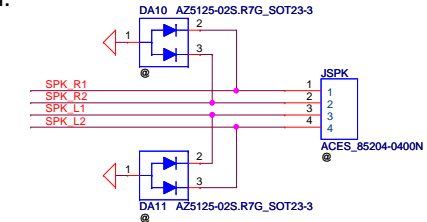
PCI Beep



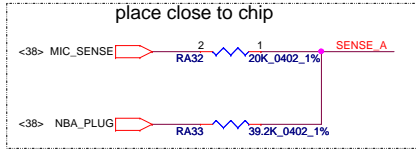
Ext.MIC/LINE IN JACK



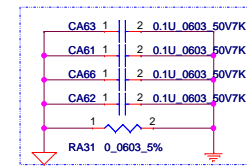
SPK Conn.



Sense Pin	Impedance	Codec Signals	Function
SENSE A	39.2K	PORT-I (PIN 32, 33)	Headphone out
	20K	PORT-B (PIN 21, 22)	Ext. MIC
	10K	PORT-C (PIN 23, 24)	
	5.1K	(PIN 48)	
SENSE B	39.2K	PORT-E (PIN 14, 15)	
	20K	PORT-F (PIN 16, 17)	
	10K	PORT-H (PIN 20)	



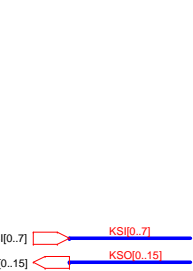
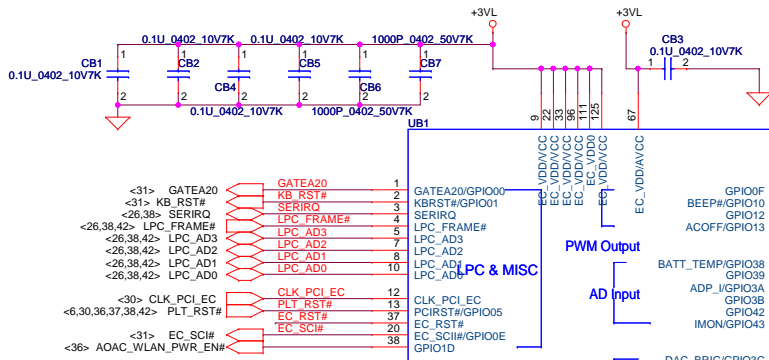
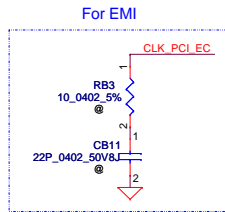
place close to chip



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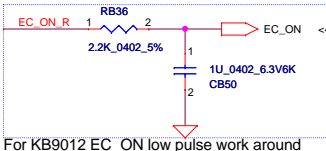


PX5 current leakage



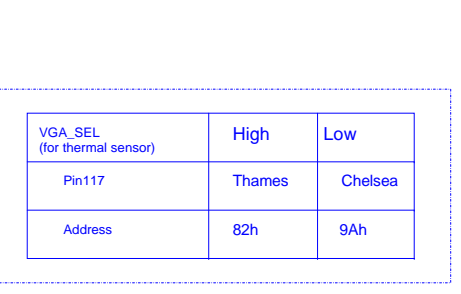
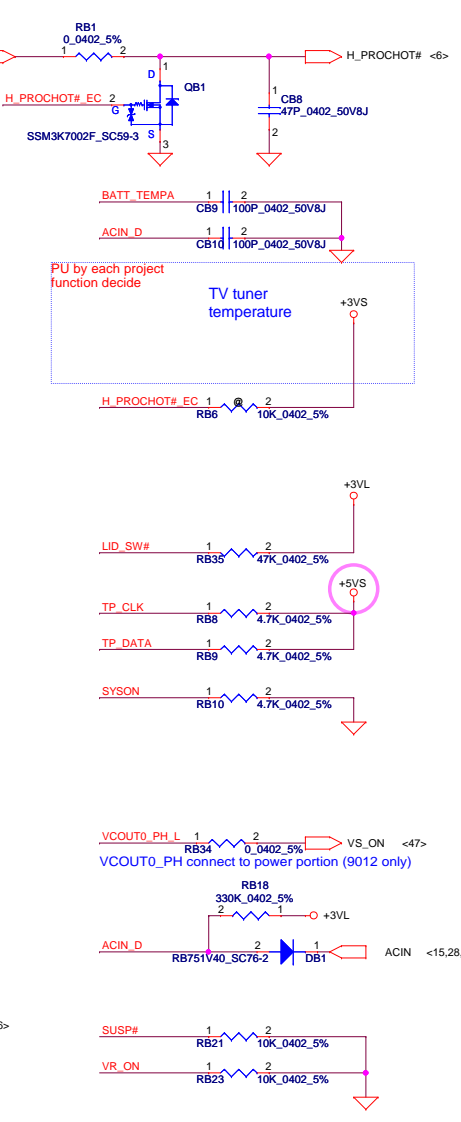
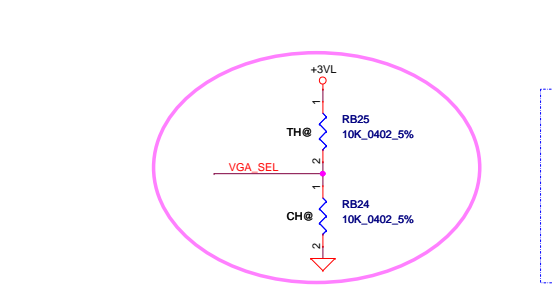
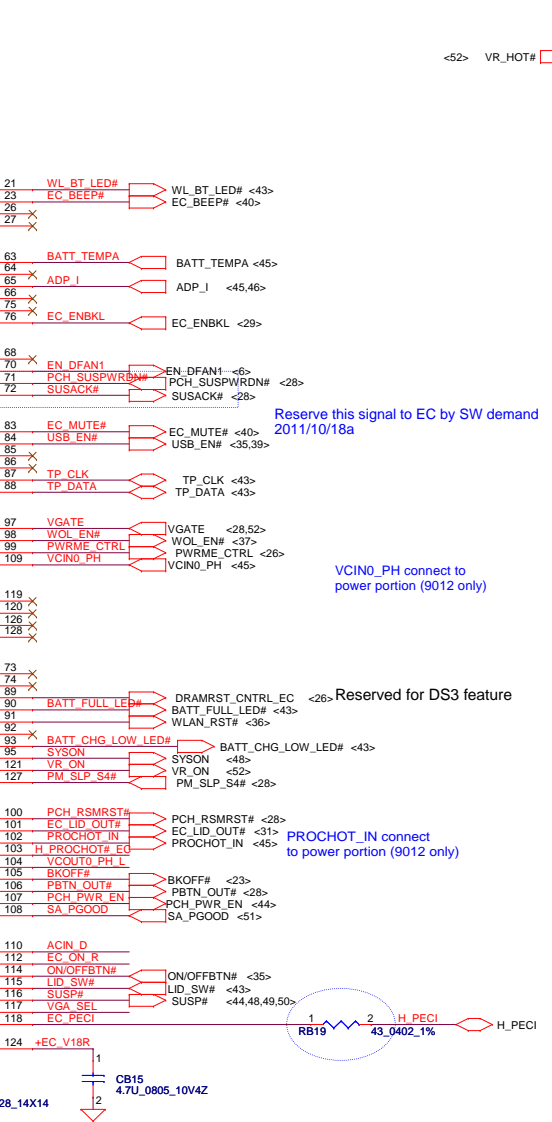
Close to EC

Close to EC



Voltage Comparator Pins FOR 9012 A3

VIN0 pin109	>1.2V	<1.2V
VIN1 pin102	HIGH	LOW
VCOUT0 pin104	HIGH	LOW
VCOUT1 pin103	LOW	HIGH

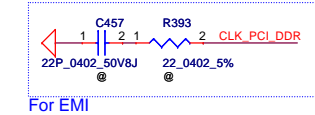
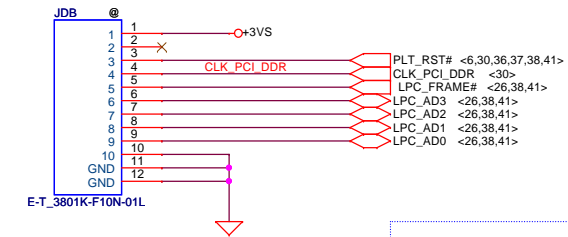


VGA_SEL (for thermal sensor)	High	Low
Pin117	Thames	Chelsea
Address	82h	9Ah

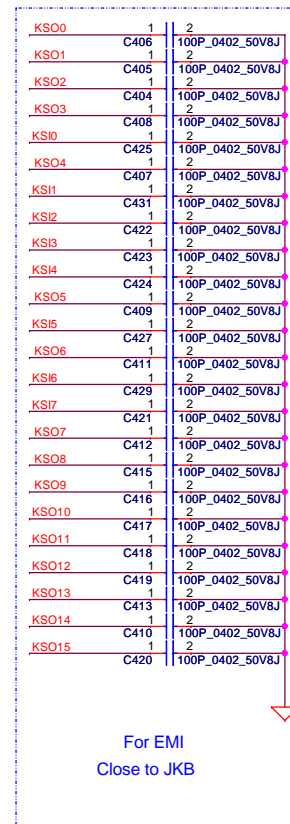
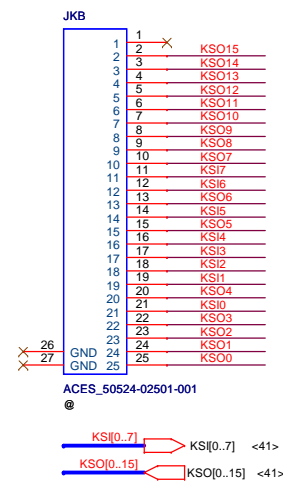
Security Classification	Compal Secret Data	Compal Electronics, Inc.
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Title		
LPC-EC-KB9012&930		
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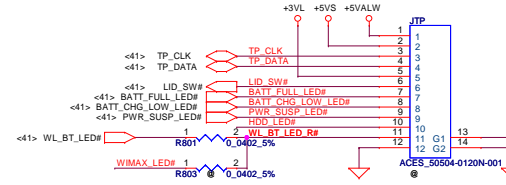


KEYBOARD CONN.



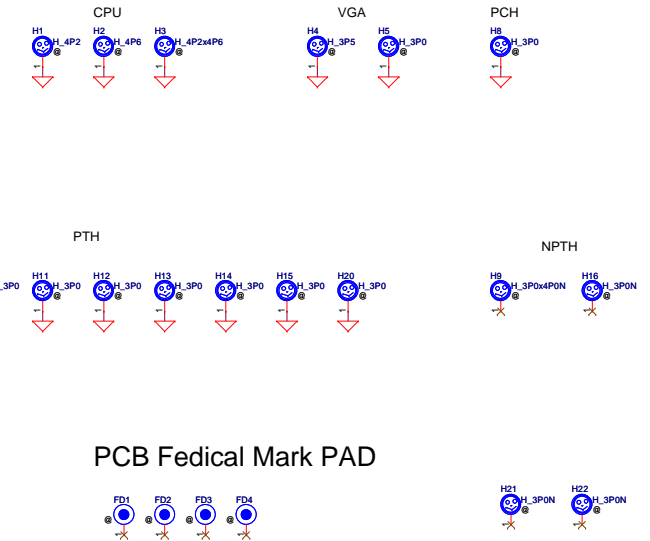
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Size		Document Number		Rev
		QCLA4 LA-8861P M/B		0.2
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Touchpad Connector

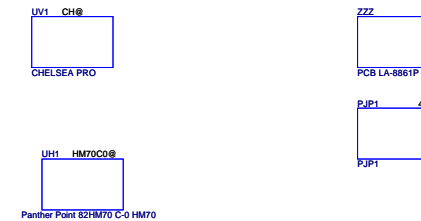


ESD solution

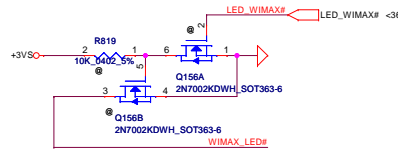
Screw Hole



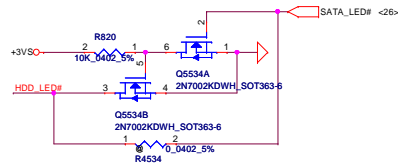
ISPD



WiMAX LED



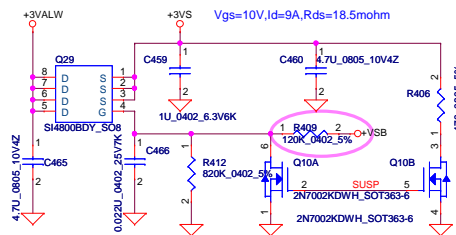
SATA LED



EMI solution

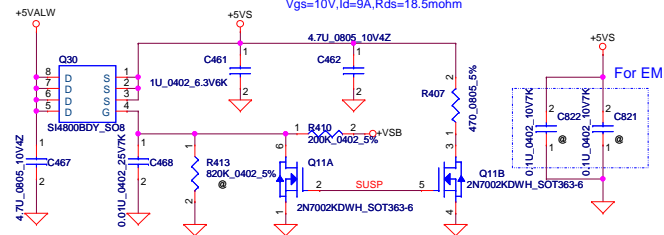
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+3VALW TO +3VS

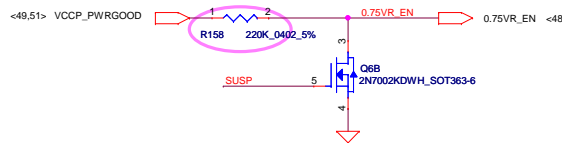


change R409 to 120k 5%

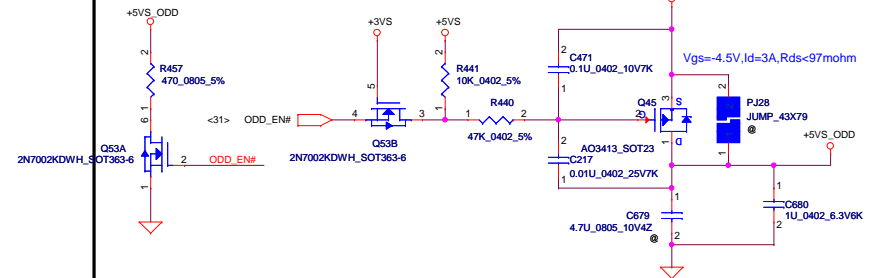
+5VALW TO +5VS



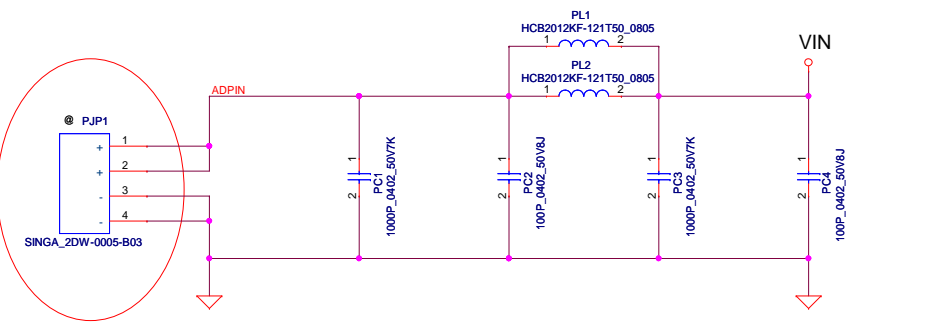
For S3 CPU Power Saving



+5VS TO +5VS_ODD

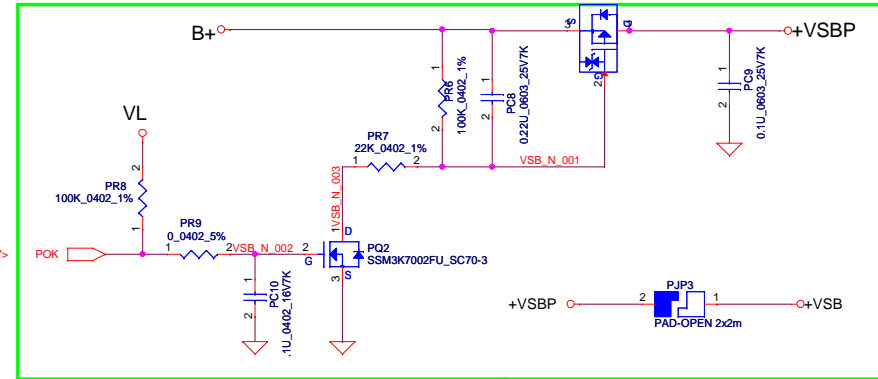
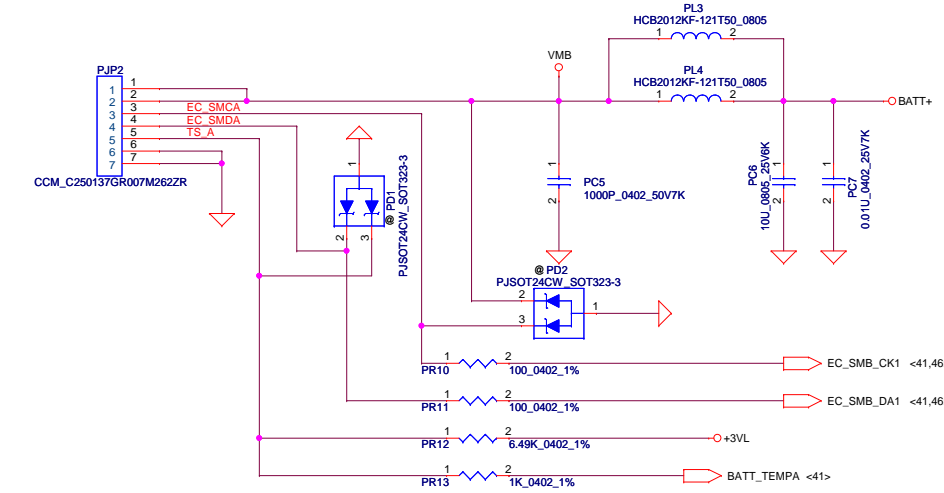
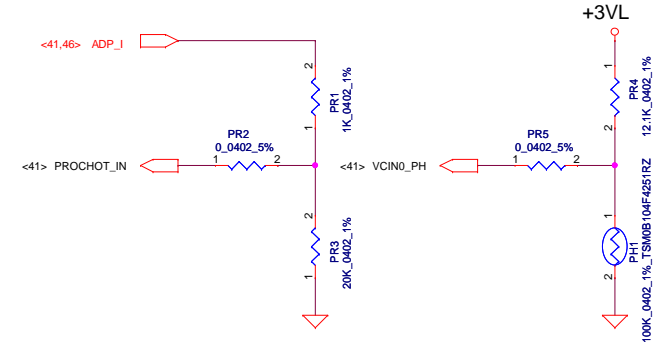


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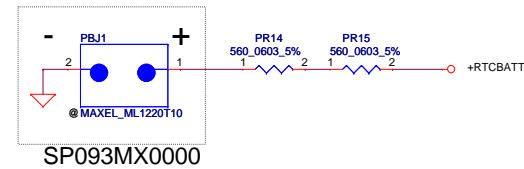


PH1 near CPU bottom side :
CPU thermal protection at 93 +3 degree C
Recovery at 56 +3 degree C

Please locate these parts
Near EC chip

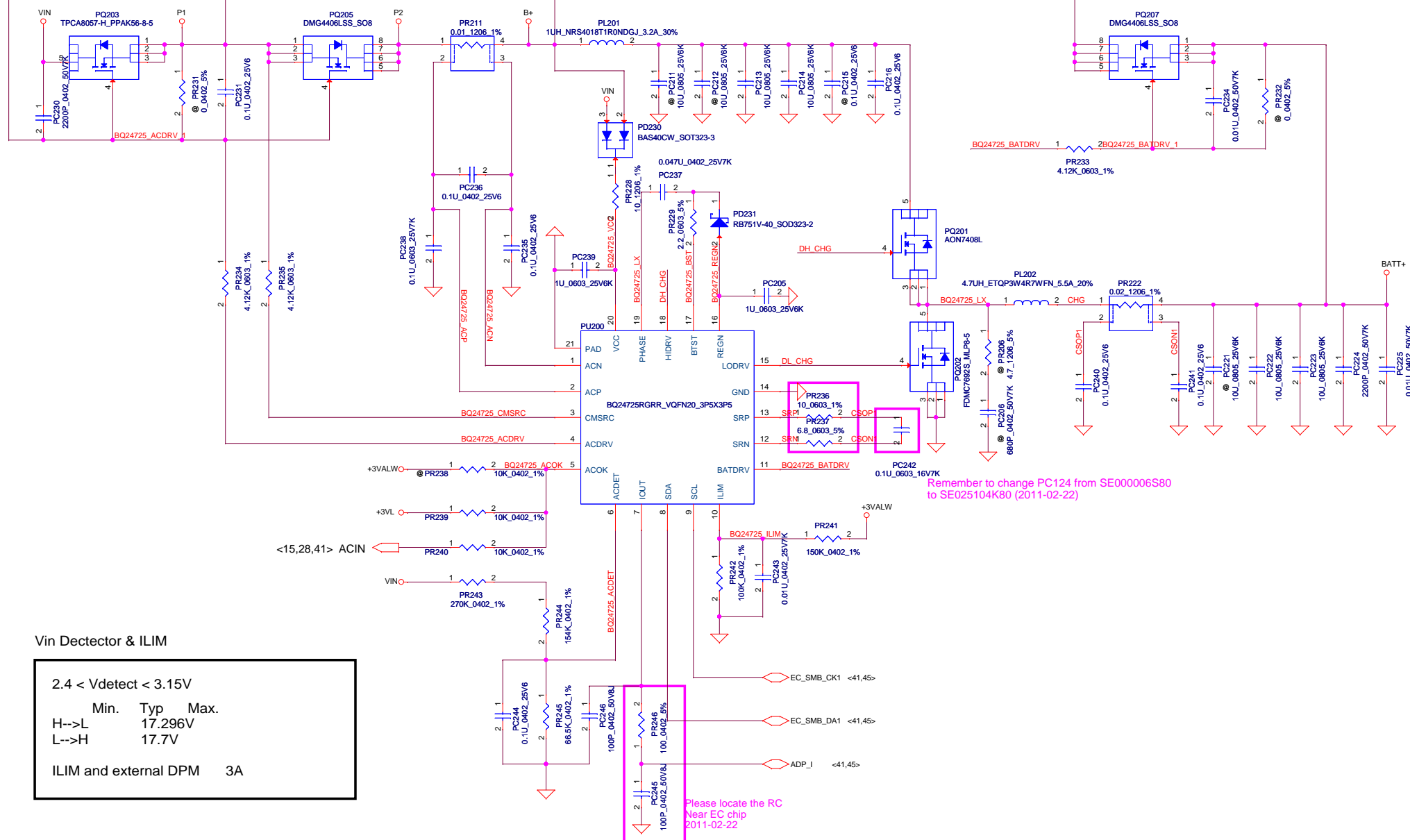
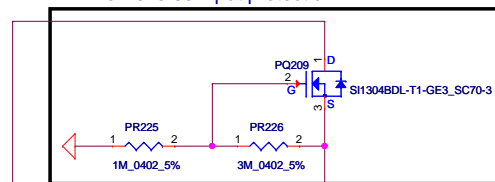


RTC Battery



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for reverse input protection



Vin Dectector & ILIM

$2.4 < V_{detect} < 3.15V$

	Min.	Typ	Max.
H-->L		17.296V	
L-->H		17.7V	

ILIM and external DPM 3A

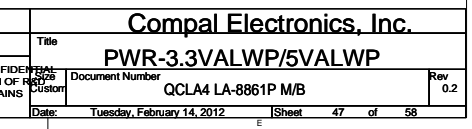
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Compal Electronics, Inc.

PWR-CHARGER

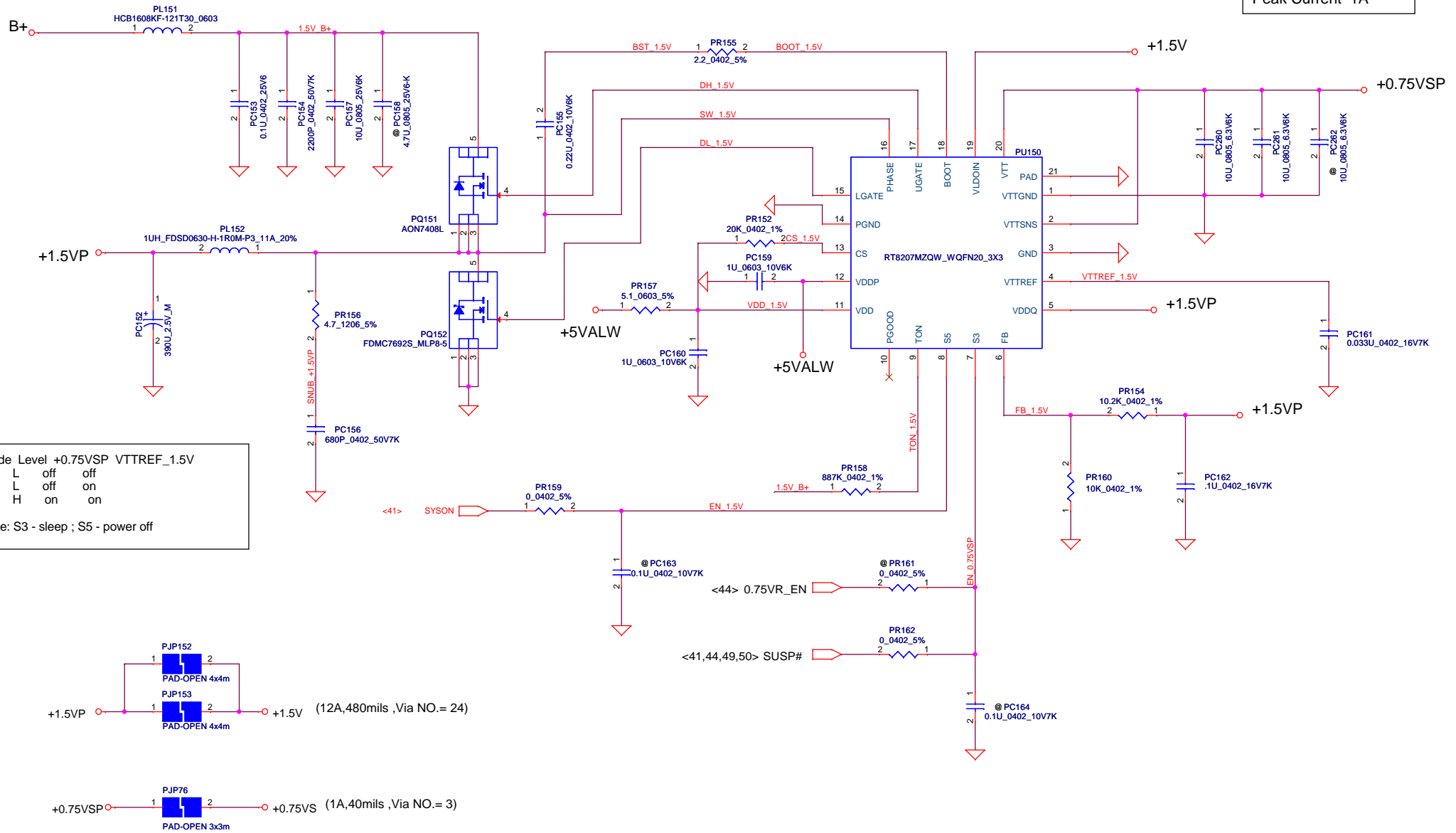
Title	Size	Document Number	Rev
		SAMSUNG	0.2
Date:	Tuesday, February 14, 2012	Sheet	46 of 58

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Security Classification	Compal Secret Data		
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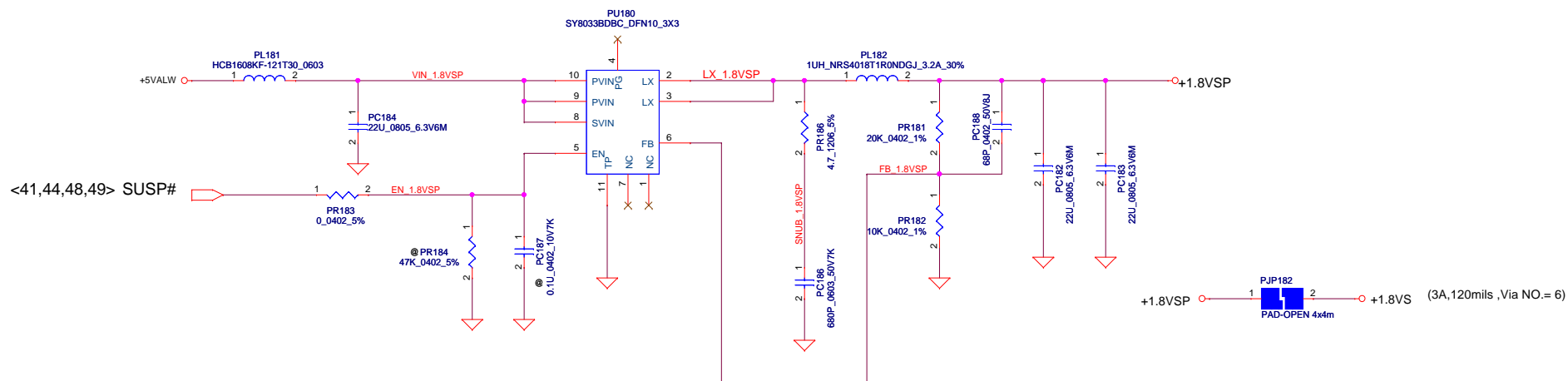
0.75Volt +/- 5%
TDC 0.7A
Peak Current 1A



Mode	Level	+0.75VSP	VTTREF_1.5V
S5	L	off	off
S3	L	off	on
S0	H	on	on

Note: S3 - sleep ; S5 - power off

Security Classification				Compal Secret Data				Compal Electronics, Inc.			
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								PWR-1.5VP / +0.75VSP			
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								Custom	SAMSUNG	0.2	
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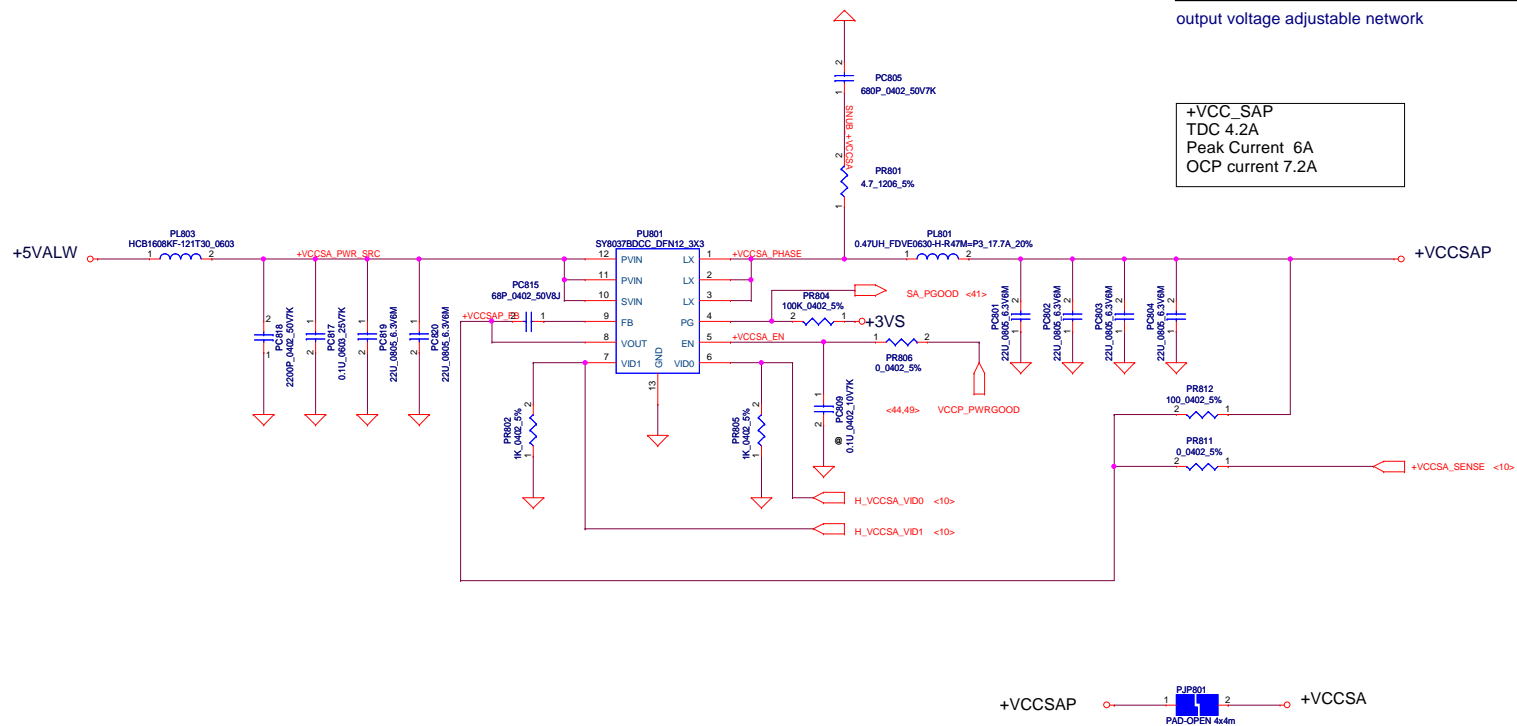


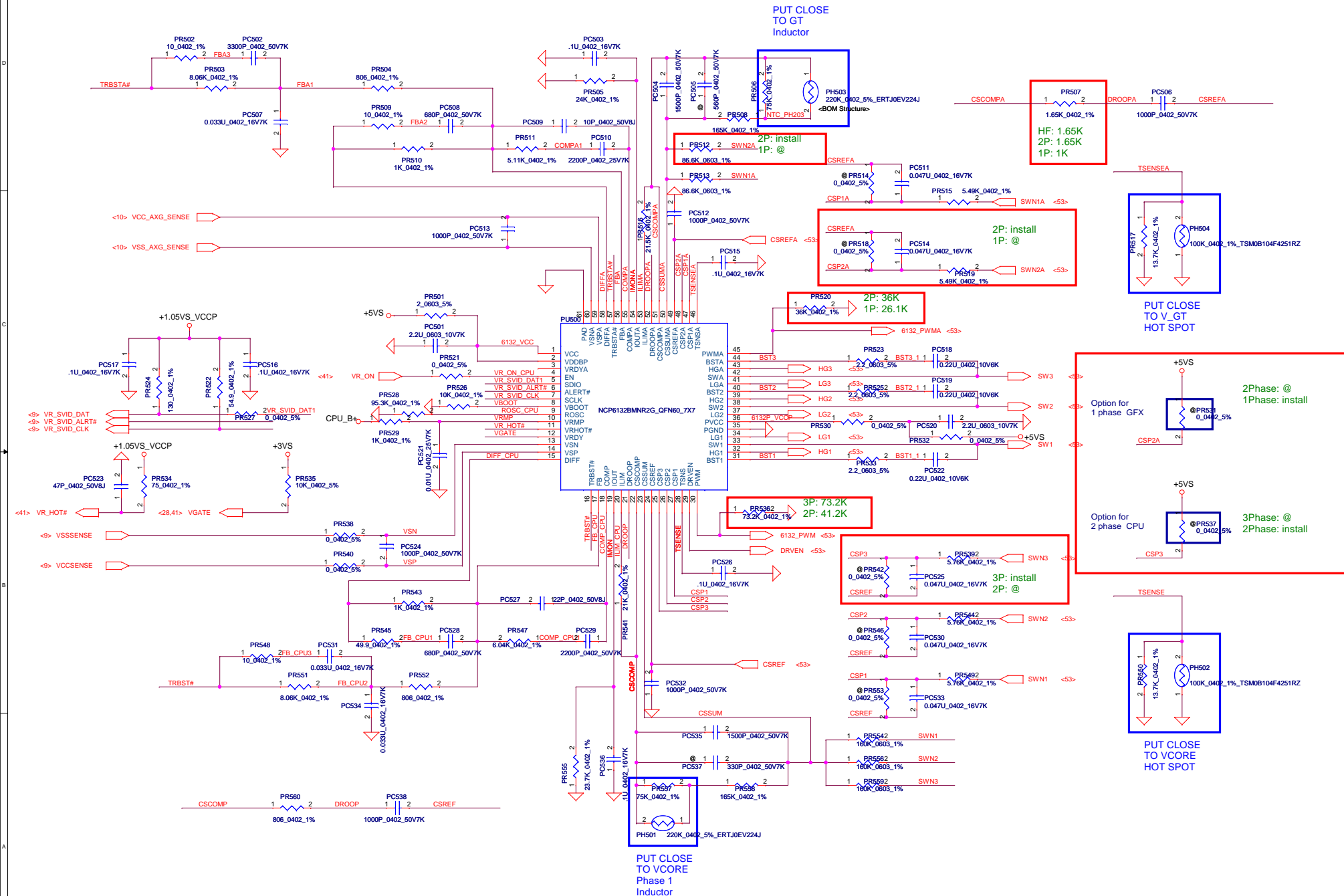
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Size	Document Number	SAMSUNG			Rev
					0.2
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VID [0]	VID[1]	VCCSA Vout
0	0	0.9V
0	1	0.8V
1	0	0.725V
1	1	0.675V

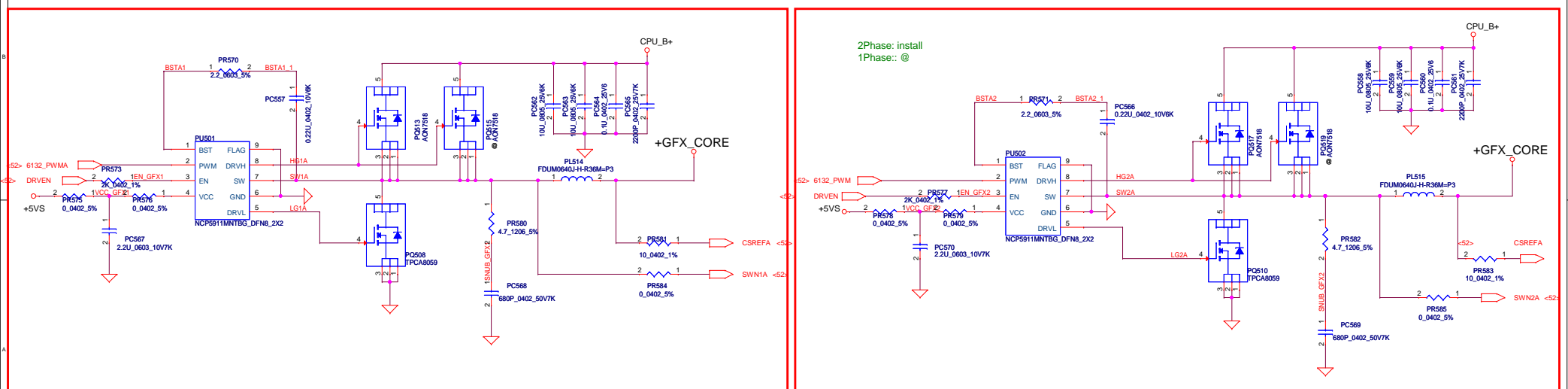
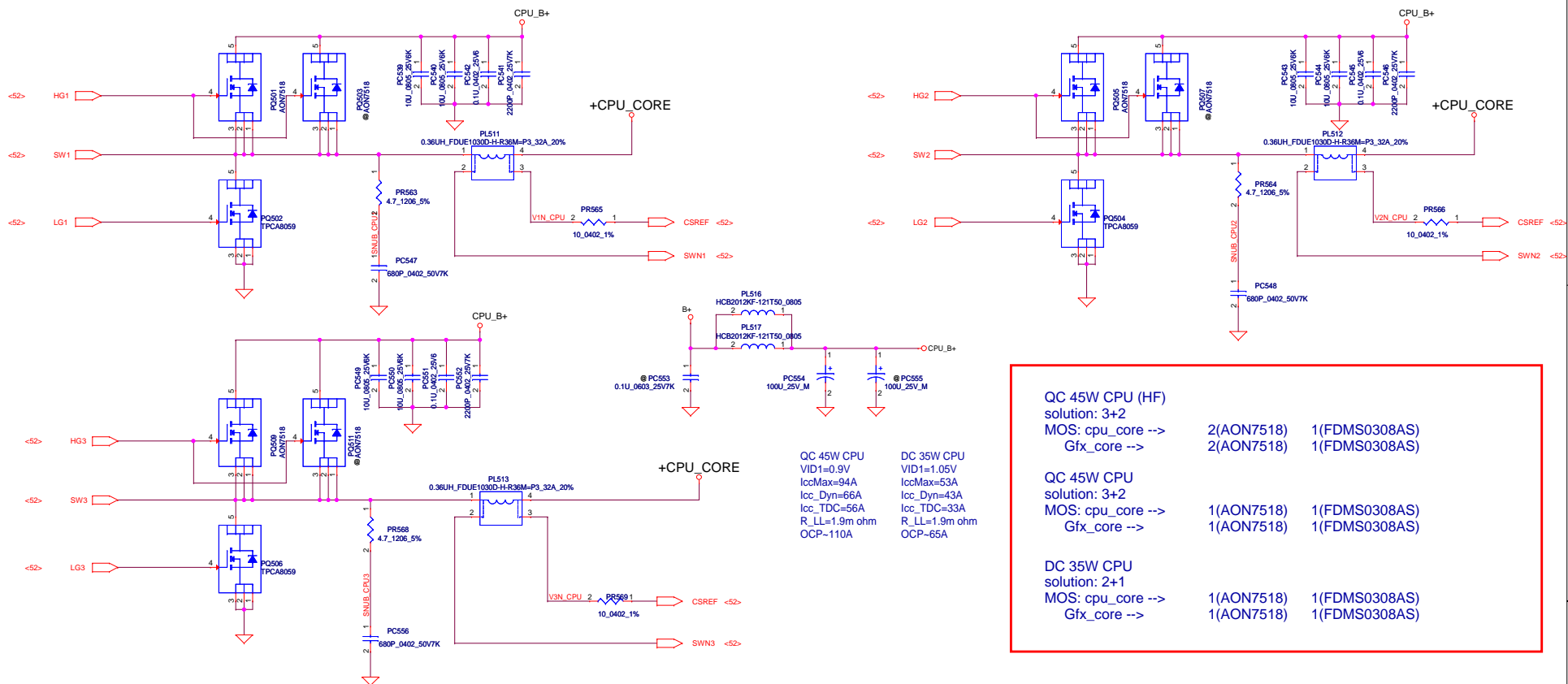
output voltage adjustable network

+VCC_SAP
TDC 4.2A
Peak Current 6A
OCF current 7.2A





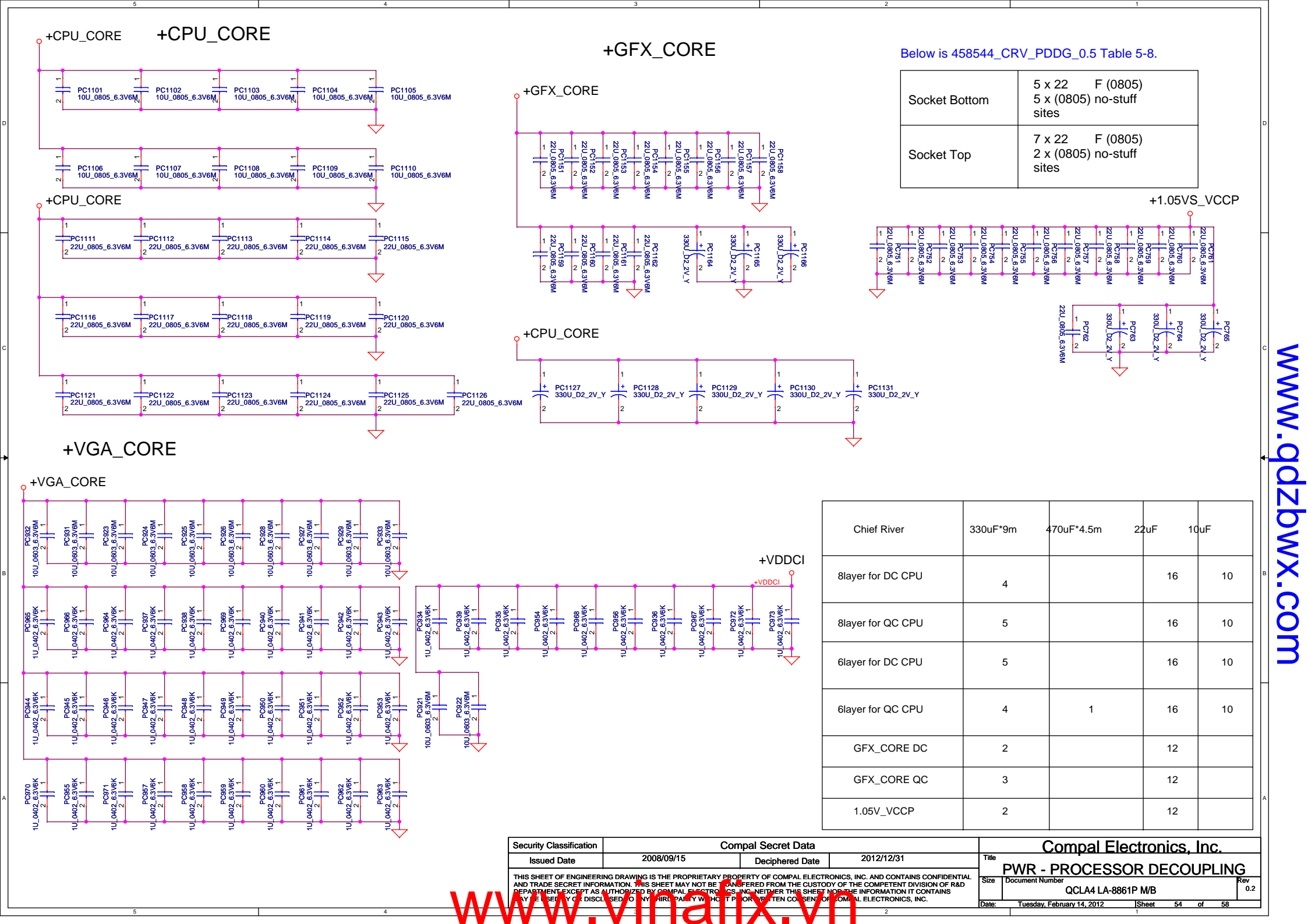
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Issued Date	2009/12/01	Deciphered Date	2010/12/31	Title	PWR-CPU_CORE
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				Rev	0.2



QC 45W GT2
VID1=1.23V
IccMax=46A
Icc_Dyn=37A
Icc_TDC=38A
R_LL=3.9m ohm
OCP=55A

DC 35W GT2
VID1=1.23V
IccMax=33A
Icc_Dyn=20.2A
Icc_TDC=21.5A
R_LL=3.9m ohm
OCP=40A

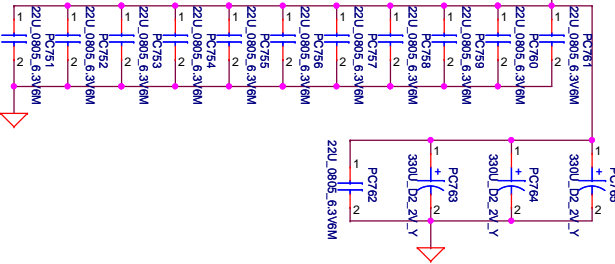
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2009/12/01	Deciphered Date	2010/12/31	Title	
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Size	Document Number	QCL70		Rev	0.2
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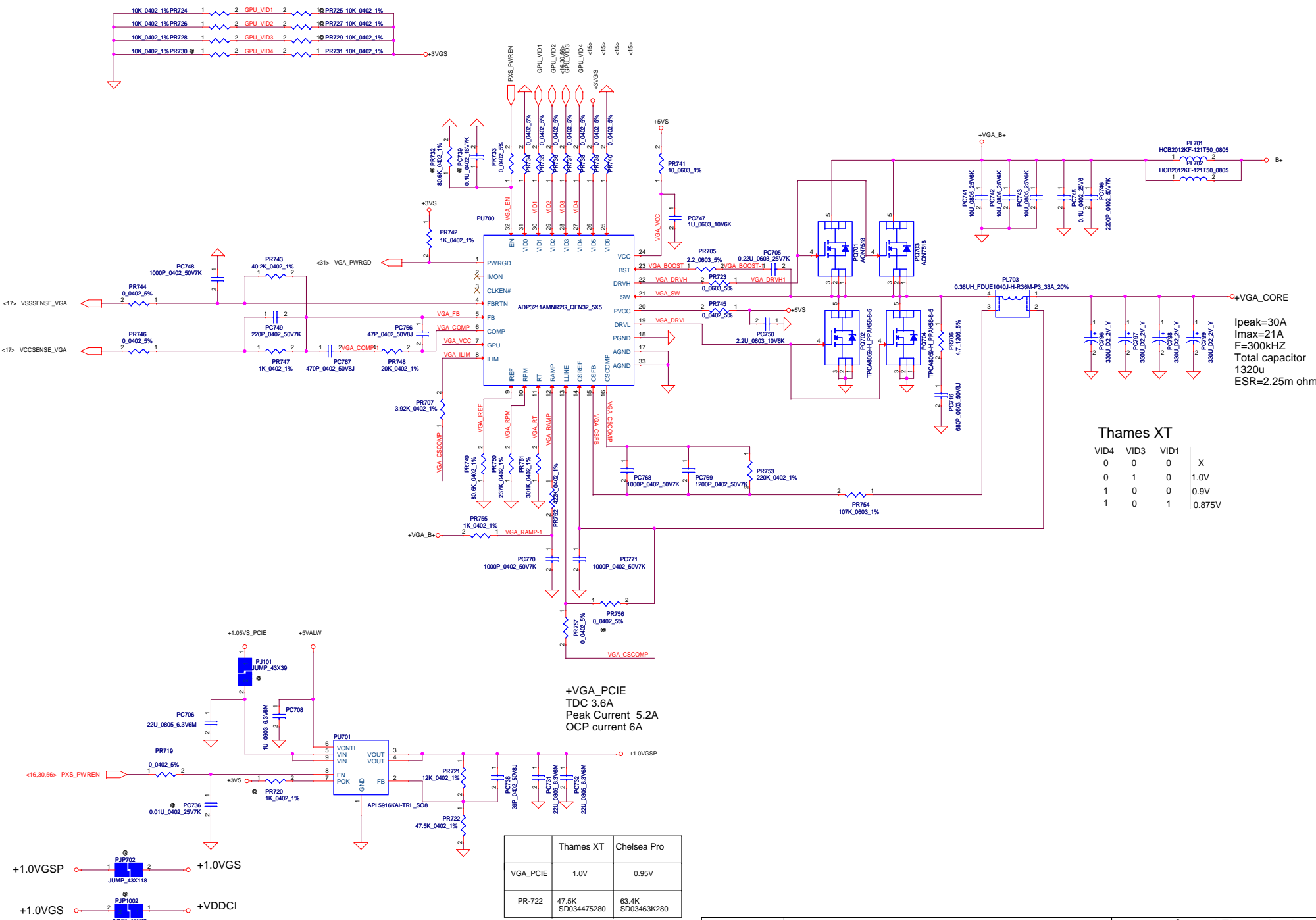
Below is 458544_CRV_PDDG_0.5 Table 5-8.

Socket Bottom	5 x 22 F (0805) 5 x (0805) no-stuff sites
Socket Top	7 x 22 F (0805) 2 x (0805) no-stuff sites

+1.05VS_VCCP



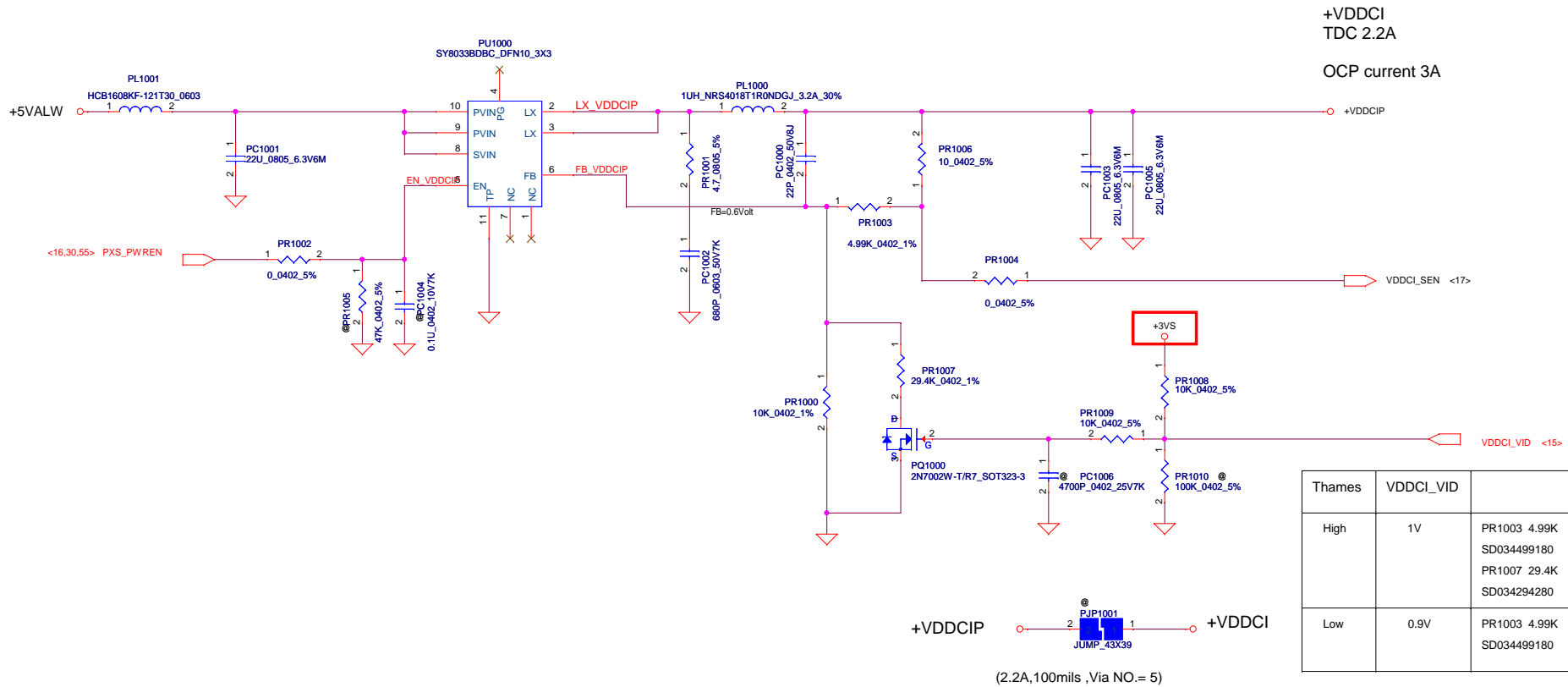
Chief River	330uF*9m	470uF*4.5m	22uF	10uF
8layer for DC CPU	4		16	10
8layer for QC CPU	5		16	10
6layer for DC CPU	5		16	10
6layer for QC CPU	4	1	16	10
GFX_CORE DC	2		12	
GFX_CORE QC	3		12	
1.05V_VCCP	2		12	



Thames XT

VID4	VID3	VID1	
0	0	0	X
0	1	0	1.0V
1	0	0	0.9V
1	0	1	0.875V

Ipeak=30A
Imax=21A
F=300kHz
Total capacitor
1320u
ESR=2.25m ohm



1.	2011/09/29	P51-PWR_+3VALWP/+5VALWP		Change PU330 to RT8205L	Change source
2.	2011/09/29	P53-PWR_ +1.05VS_VCCP/+16V	SP	Change PU400 to RT8237C	Change source
3.	2011/09/29	P54-PWR_+VCCSAP/1.8VSP		Change PU450 to SY8037B	Change source
4.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change HMOS to MDV1525	Change source
5.	2011/09/29	P53-PWR_ +1.05VS_VCCP/+16V	SP	Change HMOS to MDV1525	Change source
6.	2011/09/29	P49-PWR_BATTERY CONN / OTP		Change PD5,PD6 to SCA00001G00	ESD team request
7.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change PR589 from 348 to 8.06k	FAE suggestion
8.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change PR590 from 3.65k to 806	FAE suggestion
10.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change PC574 from 680P to 0.033u	FAE suggestion
11.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change PC577 from 4700P to 0.033u	FAE suggestion
12.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change PR548 from 1.21k to 8.06k	FAE suggestion
13.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change PR550 from 10.7k to 806	FAE suggestion
14.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change PC547 from 680P to 0.033u	FAE suggestion
15.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Change PC551 from 4700P to 0.033u	FAE suggestion
16.	2011/09/29	P57-PWR +CPU_CORE DECOUPLI	NG	Add snubber and boost resistor	For 3x3 H-MOS solution
17.	2011/09/29	P49-PWR_BATTERY CONN / OTP		Add PR22 120k,PR27 100k, PR32 0 Ohm	For 120W adapter protect(9012)
18.	2011/09/29	P58-PWR_VGA_CORE		Remove PC803, PC804 add PC806 47u	For Nvidia suggestion
19.	2011/09/29	P51-PWR_+3VALWP/+5VALWP		Change PC360 to SE000006R80	Change source
20.	2011/09/29	P58-PWR_VGA_CORE		Change PC702 to SE000000H180	Change source
21.	2011/09/29	P49-PWR_BATTERY CONN / OTP		Add PR17 14k, PR33 0 Ohm	For CPU temperature protect(9012)
22.	2011/09/29	P51-PWR_+3VALWP/+5VALWP		Add PR373 0 Ohm	For 3/5 V always power on(9012)

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Issued Date	2011/11/11	Deciphered Date	2012/12/31	Title	
				Power PIR	
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HW PIR (Product Improve Record)

QCLA4 LA-8861P SCHEMATIC CHANGE LIST
REVISION CHANGE: 0.1 TO 0.2

NO DATE PAGE MODIFICATION LIST				PURPOSE
1.	02/01	16	Remove PX_MODE and BACO components	No support PX4.0 by K99's request
2.	02/01	18	Remove PX_EN and RV125	No support PX4.0 by K99's request
3.	02/01	12	Change RD9.2 to GND	Correct the DDR SPD address
4.	02/01	13	Change RD15.1 to +3VS	Correct the DDR SPD address
5.	02/01	26	Stuff BIOS 2M ROM:UH4,RH267,RH269,	For win8 common design
6.	02/01	27	Change JTP footprint to ACES_50504	Follow connector list
7.	02/01	40	Add JMIC ACES_50271-0020N-001_2P	From K99's request to change AMIC
8.	02/01	36	Change JWLAN footprint to ACES_889	Follow connector list
9.	02/01	38	Remove INT_MIC from JCRIO.1	From K99's request to change AMIC
10.	02/01	37	Reserve PJ31 from +3VALW_PCH to +3	To save power consumption
11.	02/06	38	Swap LR9	For layout smoothly
12.	02/06	36	Add UM5,RM21;Reserve RM19,PJ33,Lin	For WLAN ON/OFF feature
13.	02/06	43	Connect AOAC_WLAN_PWR_EN# to EC pi	For WLAN ON/OFF feature
14.	02/06	38	Change JCRIO.1 netname to NBA_PLUG	Remove AMic solution on sub/B
15.	02/06	40	Remove CA64 and add RA32,RA33 to I	Remove AMic solution on sub/B
16.	02/09	37	Add TL1 on UL1.37	Reserved from vendor's suggestion
17.	02/09	31	Change UH1.T7 from HDMI_HPD to CHP	For Serial POST debugger feature
18.	02/09	24	Delete T66 and link CHP3_SERDBG to	For Serial POST debugger feature
19.	02/09	10	Remove CC58	To prevent from short with thermal
19.	02/09	25	Add D94,D95,D96 on HDMI signal	For ESD request
20.	02/09	24	DEL D3~D5 and add D97,D98 on CRT s	For ESD request
21.	02/09	37	Add D99,D100 on LAN signal	For ESD request
22.	02/09	35	Add R1000~R1003 between JODD and J	Reserve for reducing SATA signal refle
23.	02/09	08	Reserve DRAMRST_CNTRL_EC to QC3	Reserved for DS3 feature
24.	02/09	41	Reserve DRAMRST_CNTRL_EC to EC pin	Reserved for DS3 feature