

Compal Confidential

VIUS5 LA-9001P M/B Schematics Document

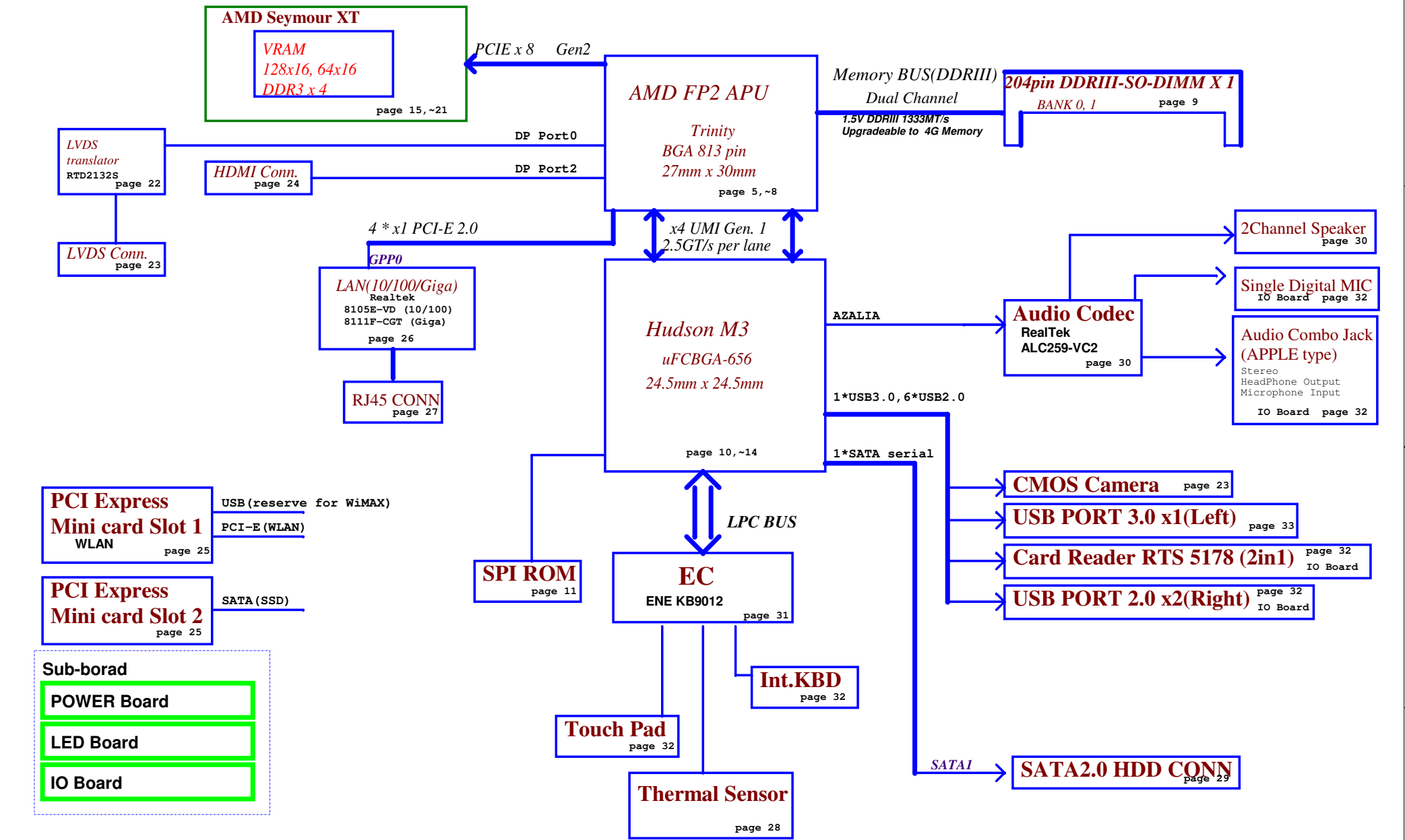
AMD FP2 Processor with DDRIII + Husdon M3 FCH

AMD VGA Seymour XT

2012-05-31

REV : 0 . 3

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				VAUSS LA9001P M/B	0.3
				Date: Thursday, May 31, 2012	Sheet 1 of 50



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Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title	MB Block Diagram	
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				Date	Friday, May 25, 2012	Sheet 2 of 50

Voltage Rails

power plane	State	+B	+5VALW +3VALW +1.1VALW	+1.5V +1.5V_APU	+5VS +3VS +2.5VS +1.5VS +1.2VS +1.1VS +0.75VS +APU_CORE +APU_CORE_NB +VGA_CORE +3.3VGS +1.8VGS +1.5VGS +1.0VGS
S0		O	O	O	O
S3		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

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

BOARD ID Table

Board ID	PCB Revision
0	
1	0.3
2	
3	
4	
5	
6	
7	

Board ID / SKU ID Table for AD channel

ID	BRD ID	Ra	Rb	Vab
0	R10 MP	x	0	0V
1	R03 PVT	100K	8.2K	0.25V
2	R02 DVT	100K	18K	0.5V
3	R01 EVT	100K	33K	0.82V

Ra = R1562
Rb = R1564

USB Port Table

USB 2.0	USB 3.0	Port	4 External USB Port
		0	USB Port (Right Side 1)
		1	USB Port (Right Side 2)
		2	Mini Card(WLAN)
		3	Camera
		4	
		5	CardReader
		6	
		7	
		8	
		9	
	XHCI	0 10	USB Port (Left Side)
		1 11	
		2 12	
		3 13	

BOM Structure Table

BOM Structure	BTO Item
A4R1@	A4 BGA APU (R1 compal part)
A4R3@	A4 BGA APU (R3 compal part)
A6R1@	A6 BGA APU (R1 compal part)
A6R3@	A6 BGA APU (R3 compal part)
A8R1@	A8 BGA APU (R1 compal part)
A8R3@	A8 BGA APU (R3 compal part)
A10R1@	A10 BGA APU (R1 compal part)
A10R3@	A10 BGA APU (R3 compal part)
SXTR1@	Seymour XT GPU (R1 compal part)
SXTR3@	Seymour XT GPU (R3 compal part)
A70MR1@	A70 Hudson M3 FCH (R1 compal part)
A70MR3@	A70 Hudson M3 FCH (R3 compal part)
PX@	Common VGA circuit
CMOS@	CMOS Camera part
UMA@	UMA strap pin
GAS@	Gastube
8105@	RTL8105E
GIGA@	RTL8111F
HDMI@	HDMI part
NONAOAC@	No AOAC function
AOAC@	support AOAC function
ME@	ME part
DEBUG@	Debug Switch (MP will remove)
@	Unpop
SSD@	SSD part

USB OC MAPPING

OC#	USB Port
0	USB20 port10 USB30 port0
1	USB20 port0 port1
2	
3	

APU PCIE PORT LIST

Port	Device
1	LAN
2	WLAN
3	
4	

FCH PCIE PORT LIST

Port	Device
1	
2	
3	
4	

SMBUS Control Table

	SOURCE	VGA	BATT	KB9012	SODIMM	WLAN WWAN	Thermal Sensor	FCH	APU	RTD2132
SMB_EC_CK1 SMB_EC_DA1	KB9012 +3VALW	X	V +3VALW	X	X	X	X	X	X	X
SMB_EC_CK2_SUS SMB_EC_DA2_SUS	KB9012 +3VALW	X	X	X	X	X	X	X	V +1.5V	X
FCH_SCLK0 FCH_SDATA0	FCH +3VS	X	X	X	V +3VS	V +3VS	X	X	X	X
SMB_EC_CK2 SMB_EC_DA2	KB9012 +3VS (LV shifter)	V	X	X	X	X	V	X	X	V

EC SM Bus1 address

EC SM Bus2 address

Device	Address	Device	Address
Smart Battery	0001 011X b	Thermal Sensor	1001_101xb
		SB-TS(default)	1001_100xb
		VGA(thermal)	1000_001xb
		RTD2132S	1010_1000b

FCH SM Bus address

Device	Address
DDR DIMM1	1001 000Xb

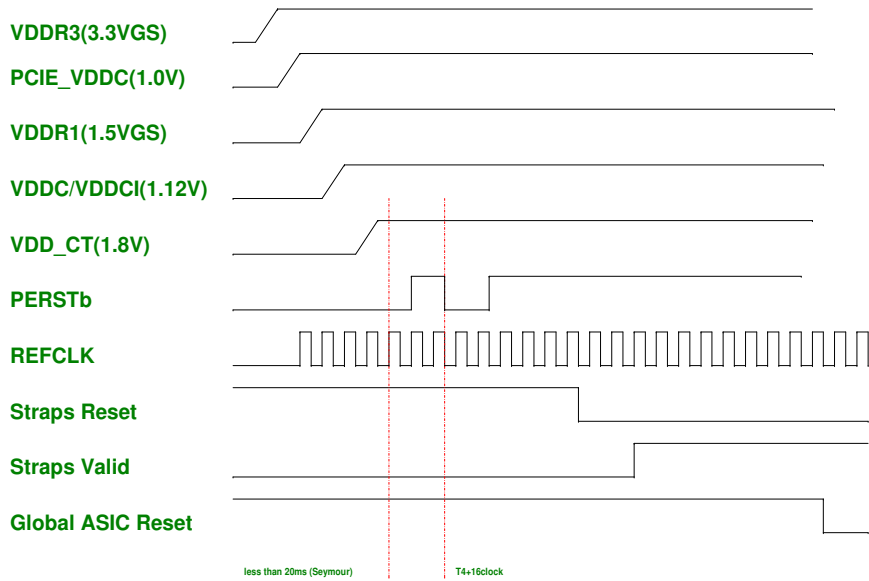
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				Custom	0.3
				VAUS5 LA9001P M/B	
				Date: Tuesday, May 29, 2012	Sheet 3 of 50

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Power-Up/Down Sequence

"Thames" has the following requirements with regards to power-supply sequencing to avoid damaging the ASIC:

- All the ASIC supplies, except for VDDR3, must fully reach their respective nominal voltages within 20 ms of the start of the ramp-up sequence, though a shorter ramp-up duration is preferred. There is no timing requirement on the ramp up of VDDR3 relative to other power rails.
- The external pull-up resistors on the DDC/AUX signals (if applicable) should ramp up before or after both VDDC and VDD_CT have ramped up.
- VDDC and VDD_CT should not ramp up simultaneously. For example, VDDC should reach 90% before VDD_CT starts to ramp up (or vice versa). For BACO enabled designs, VDDC must ramp up before VDD_CT at system power up.
- For power down, reversing the ramp-up sequence is recommended

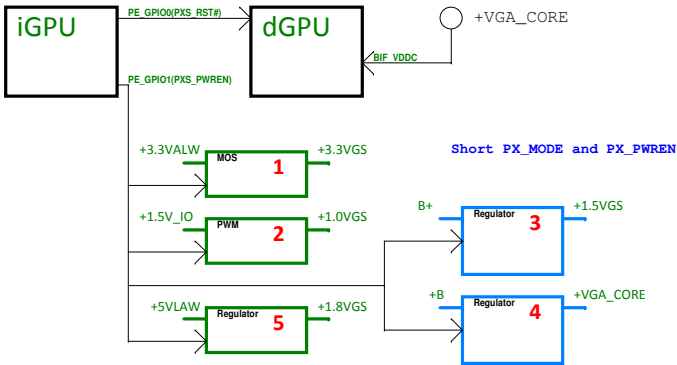


Without BACO option :
PE_GPIO0 : Low -> Reset dGPU ; High ->Normal operation
PE_GPIO1 : Low -> dGPU Power OFF ; High -> dGPU Power ON

BACO option :
PE_GPIO0 : High ->Normal operation (dGPU is not reset on BACO mode)
PE_GPIO1 : Low -> dGPU Power OFF ; High -> dGPU Power ON (always High)

dGPU Power Pins	Voltage	PX 3.0	BACO Mode	Max current
PCIE_PVDD, PCIE_VDDR, TSVDD, VDDR4, VDD_CT, DPE_PVDD, DP[F:E]_VDD18, DP[D:A]_PVDD, DP[D:A]_VDD18, AVDD, VDD1D1, A2VDDQ, VDD2D1, DPLL_PVDD, MPV18, and SPV18	1.8V	OFF	ON	1679mA
DP[F:E]_VDD10, DP[D:A]_VDD10, DPLL_VDDC, and SPV10	1.0V	OFF	ON	775mA
PCIE_VDDC	1.0V	OFF	ON	1.1A
VDDR3	3.3V	OFF	ON	60mA
BIF_VDDC (current consumption = 55mA@1.0V, in BACO mode)	Same as VDDC	OFF	ON Same as PCIE_VDDC	70mA
VDDR1	1.5V	OFF	OFF	1.2A
VDDC/VDDCI	TBD	OFF	OFF	28

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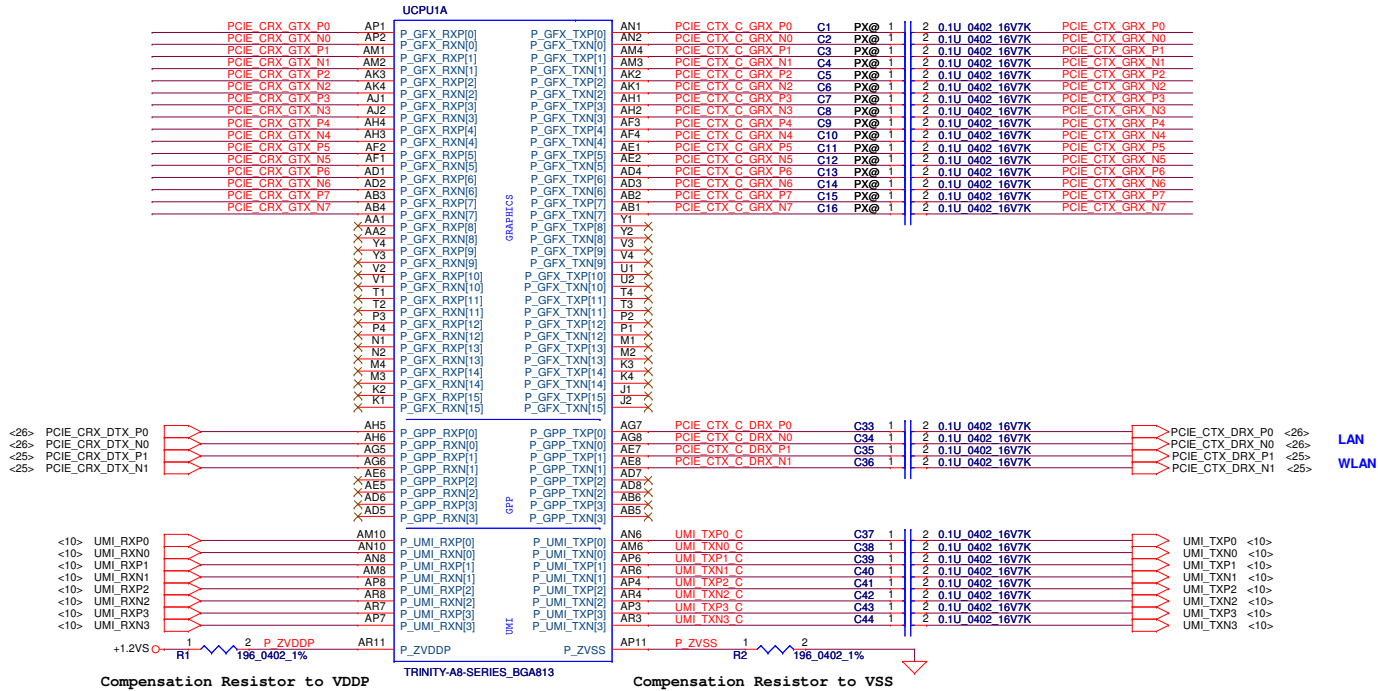
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Size	Document Number	VAUS5 LA9001P M/B		
Date:	Friday, May 25, 2012	ISheet	4	of 5

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<15> PCIE_CRX_GTX_N[0..7]

PCIE_CTX_GRX_P[0..7] <15>

PCIE_CTX_GRX_N[0..7] <15>

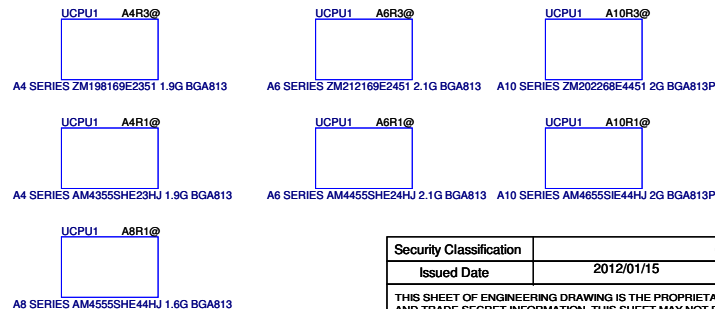
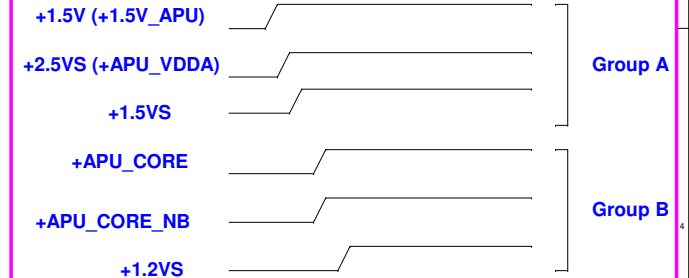


All power supplies in Power Sequencing Group A must be stable and within specification before any power supply in Power Sequencing Group B is greater than 10 percent of its specified typical operating value.

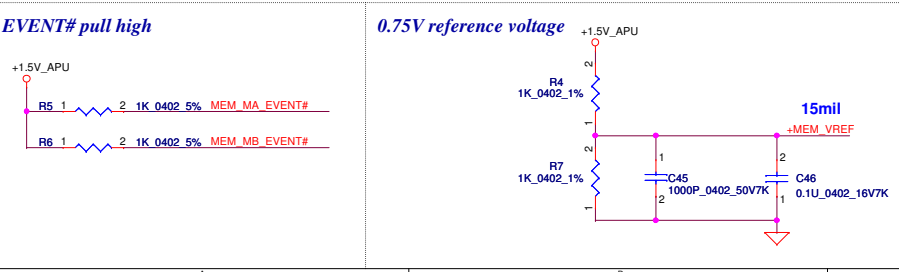
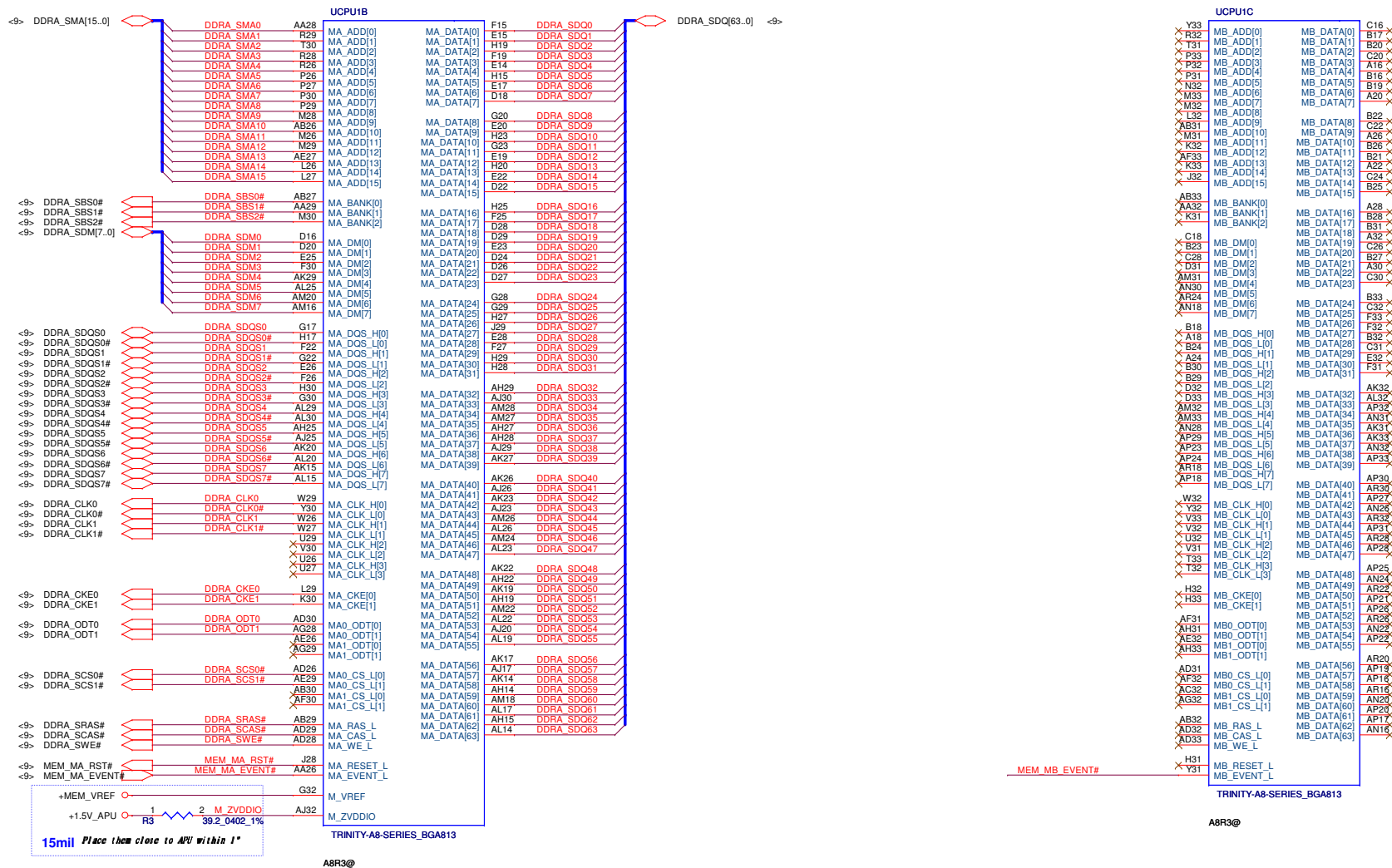
All power supplies in Power Sequencing Group B must be stable and within specification one ms before the assertion of PWR0K.

No sequencing relationships are required between the power sequencing groups during S3 entry. DDR3 compatible processors require VDDIO to remain powered and within specification during the S3 sleep state. All other processor power supply planes are powered down during S3.

Power Sequence of APU

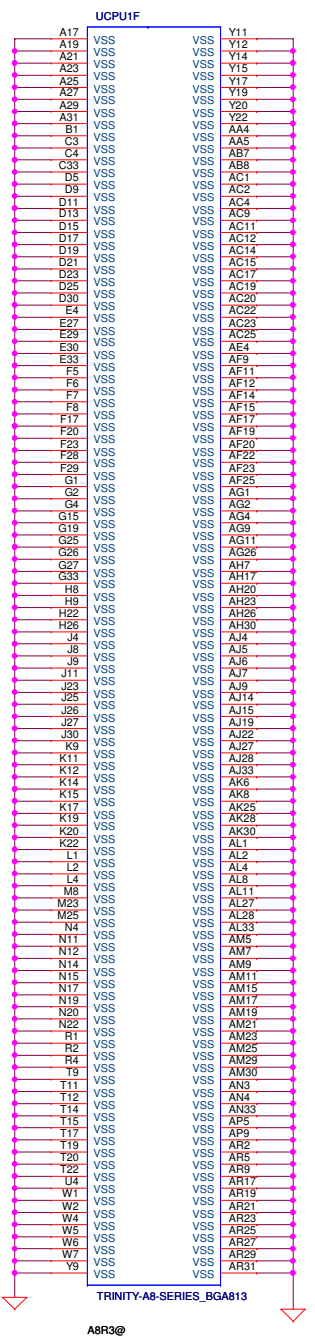
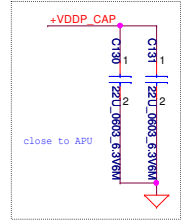
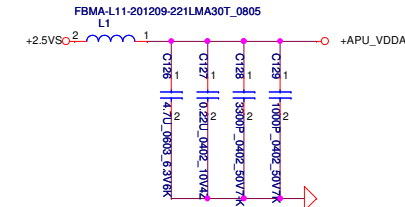
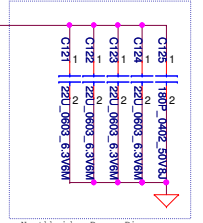
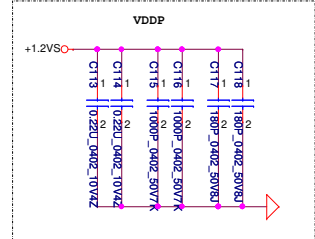
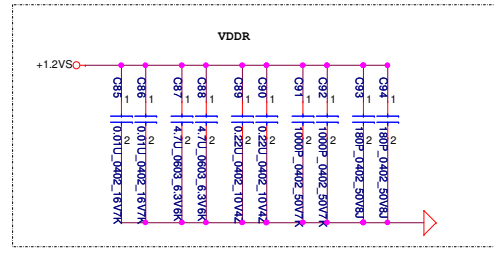
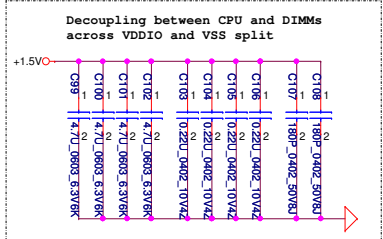
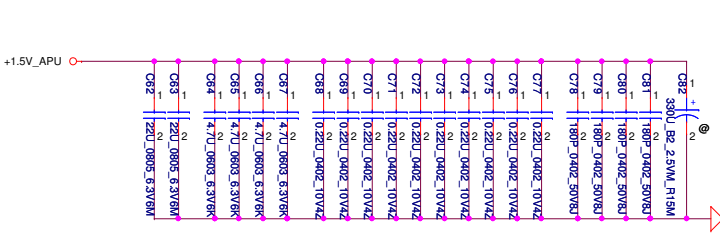
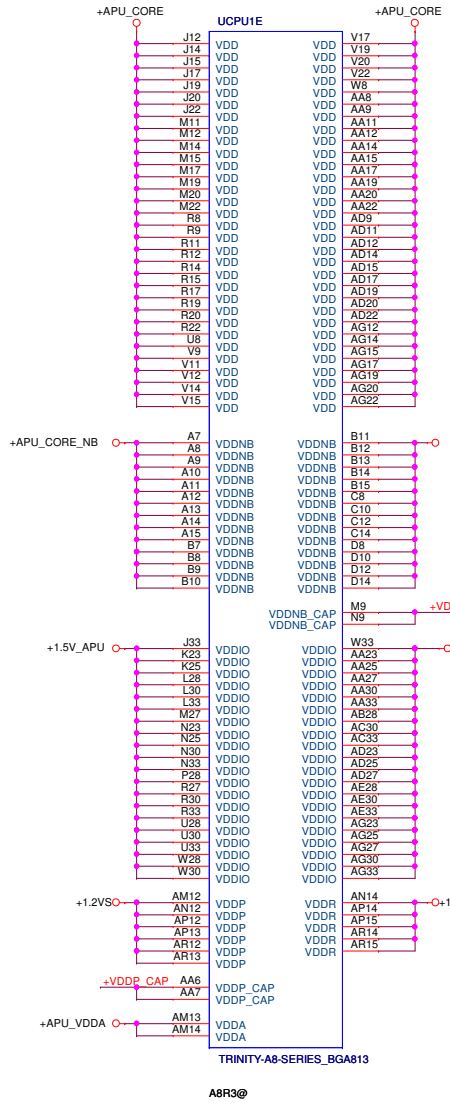


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				Date	Tuesday, May 29, 2012
				Sheet	5 of 50



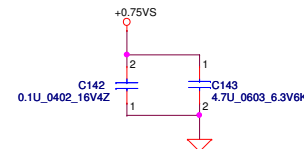
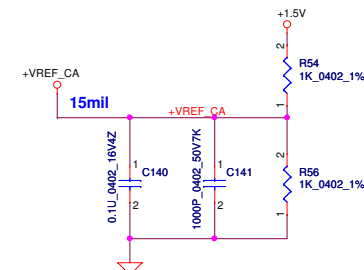
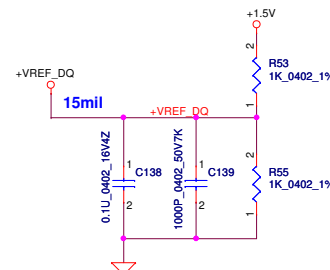
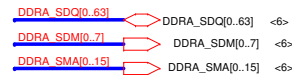
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				FP2 DDRIII Memory I/F	0.3
				VAUS5 LA9001P M/B	
				Date: Tuesday, May 29, 2012	Sheet 6 of 50

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Date				Tuesday, May 29, 2012				Rev			
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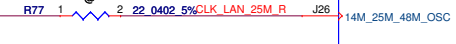
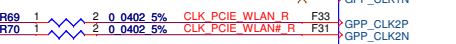
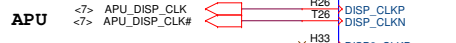
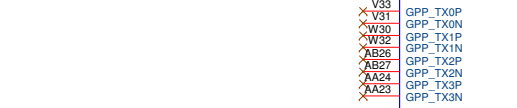
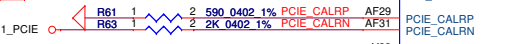
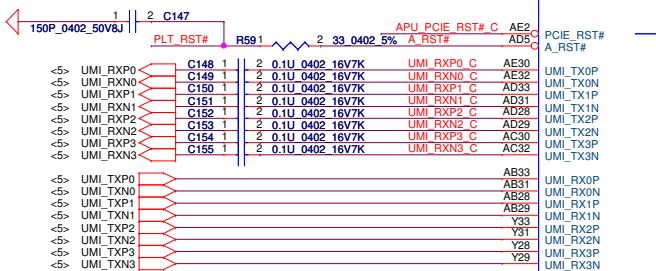
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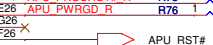
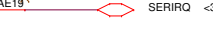
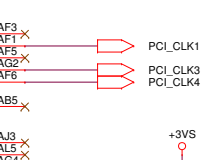
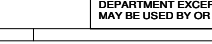
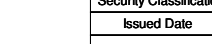
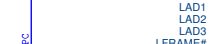
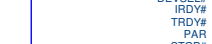
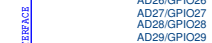
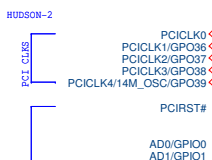
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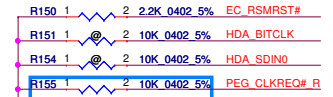
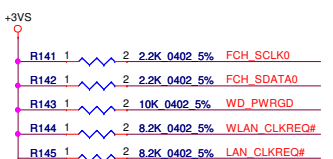
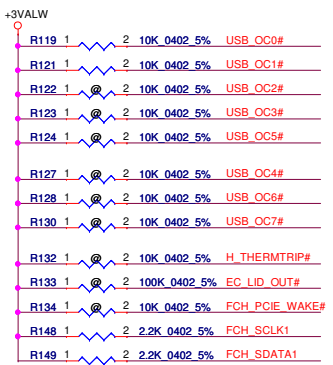
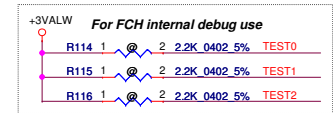
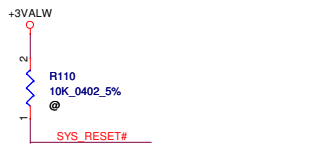
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R59/ C147 close to FCH

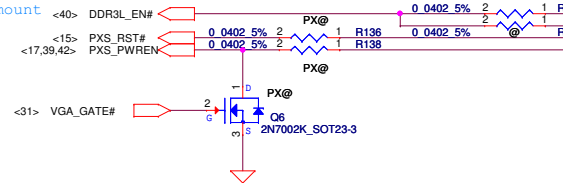


U2A





change back to always mount

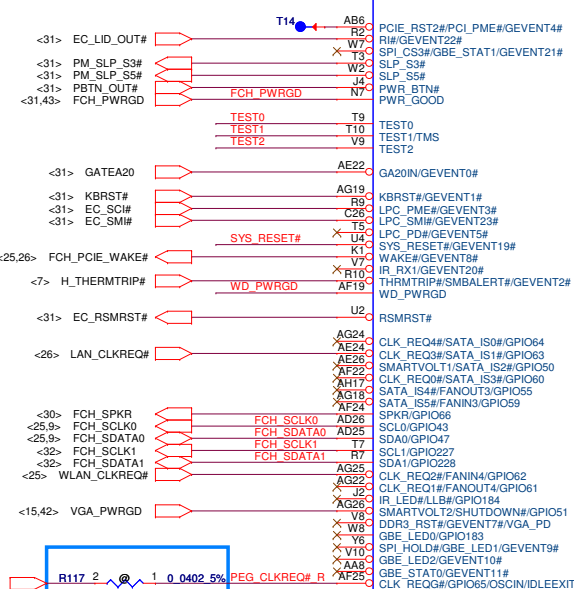


FCH Chip	FCH_SEL
A60M2	Low
A70M3	High

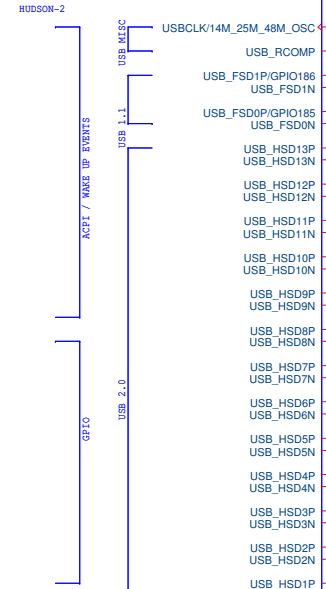
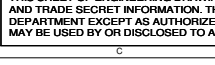
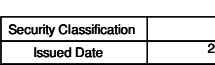
AMD only support FP2 + A70M3,
@ FCH_SEL function

Before setting (for reference)

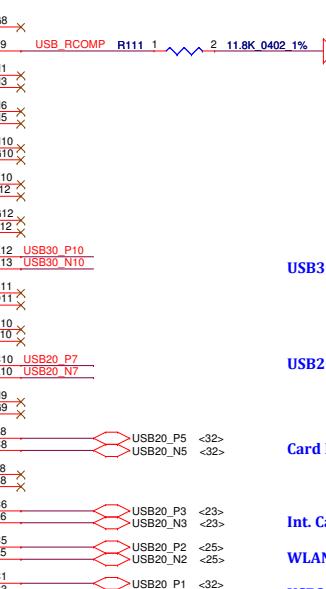
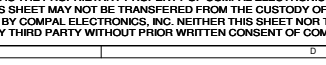
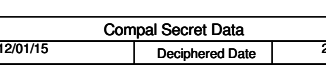
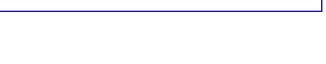
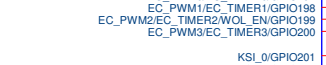
PCIE_RST2 : Reset PCIE device on Hudson2/3



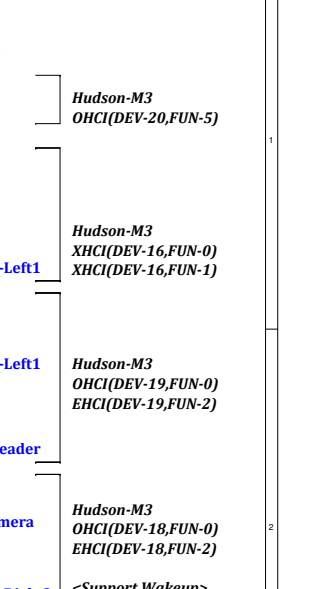
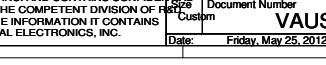
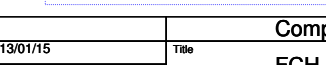
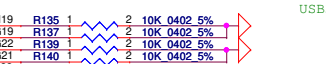
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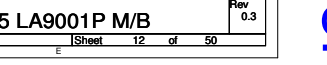
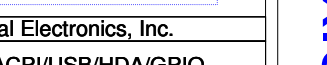
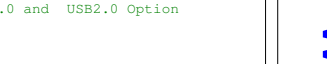
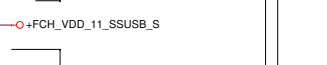
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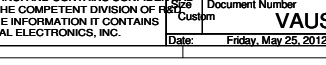
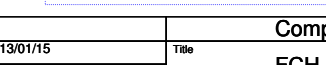
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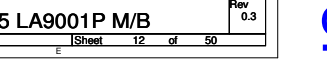
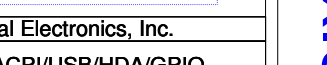
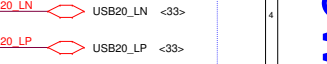
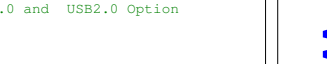
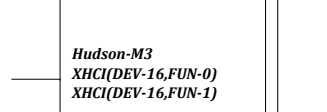
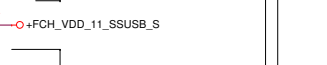
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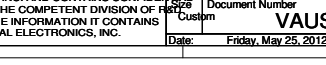
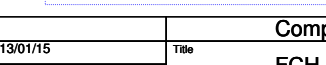
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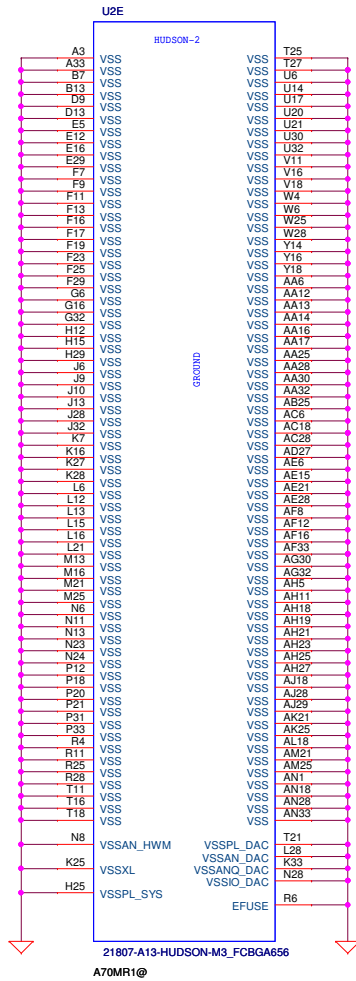
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change back to @

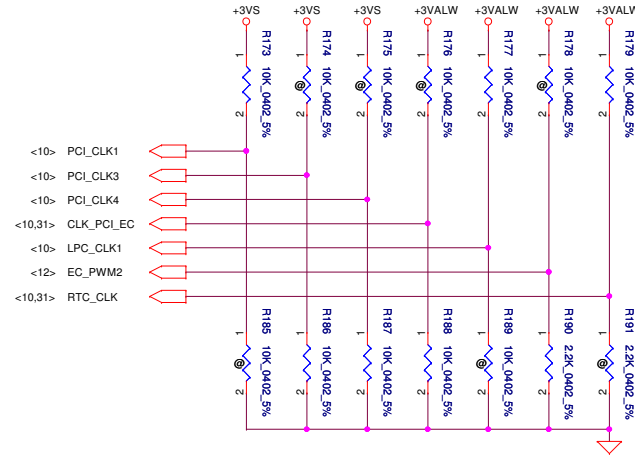






STRAP PINS

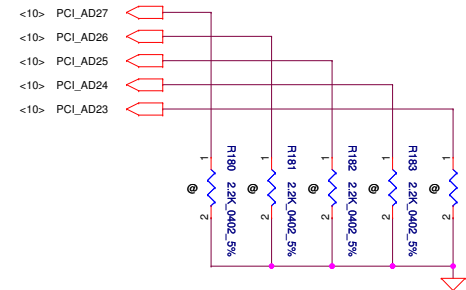
	PCI_CLK1	PCI_CLK3	PCI_CLK4	CLK_PCI_EC	LPC_CLK1	EC_PWM2	RTC_CLK
PULL HIGH	ALLOW PCIE GEN2 DEFAULT	USE DEBUG STRAPS	NON_FUSION CLOCK MODE	EC ENABLED	CLKGEN ENABLED DEFAULT	LPC ROM	S5 PLUS MODE DISABLED DEFAULT
PULL LOW	FORCE PCIE GEN1	IGNORE DEBUG STRAP DEFAULT	FUSION CLOCK MODE DEFAULT	EC DISABLED DEFAULT	CLKGEN DISABLE	SPI ROM DEFAULT	S5 PLUS MODE ENABLED



DEBUG STRAPS

FCH HAS 15K INTERNAL PU FOR PCI_AD[27:23]

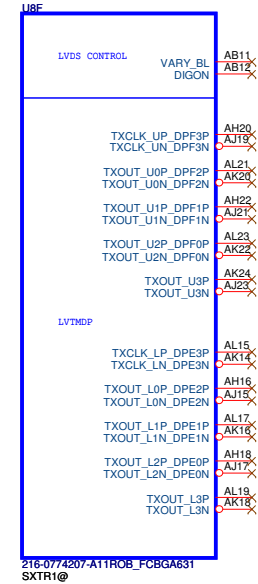
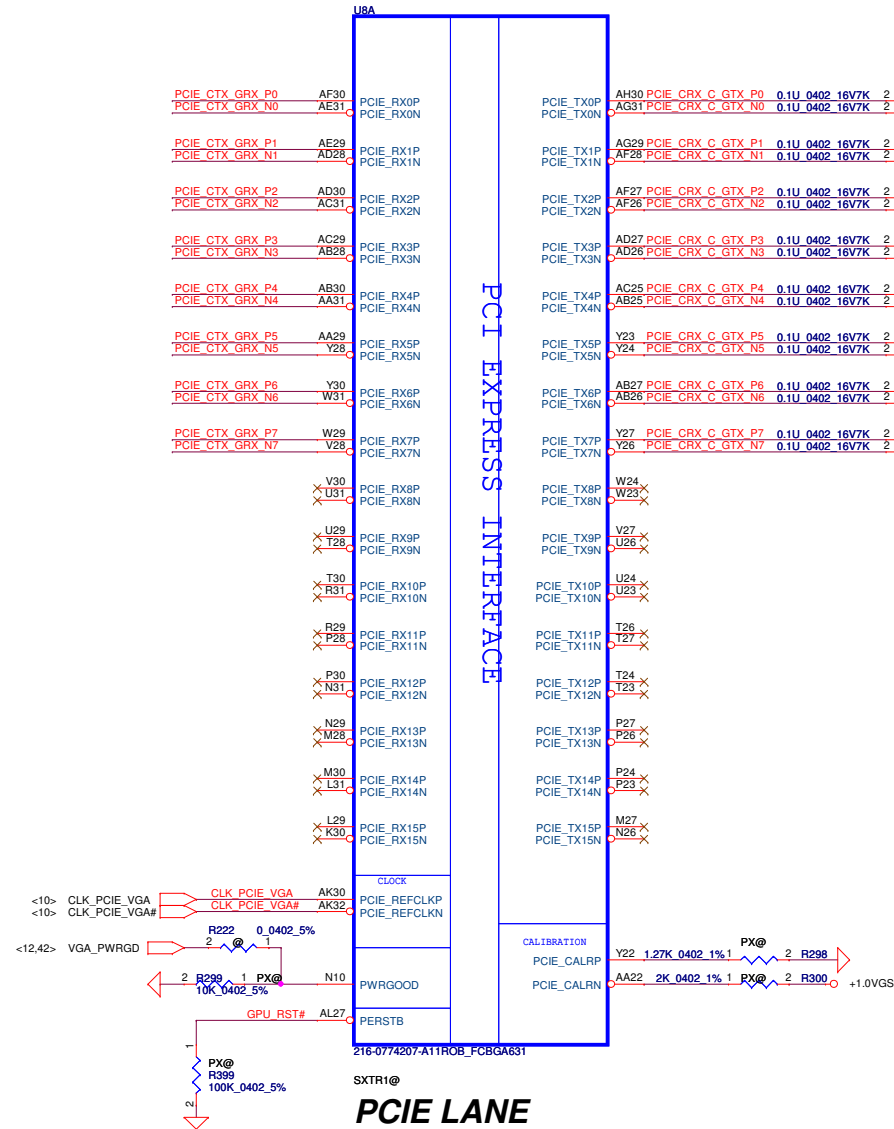
	PCI_AD27	PCI_AD26	PCI_AD25	PCI_AD24	PCI_AD23
PULL HIGH	USE PCI PLL DEFAULT	DISABLE ILA AUTORUN DEFAULT	USE FC PLL DEFAULT	USE DEFAULT PCIE STRAPS DEFAULT	DISABLE PCI MEM BOOT DEFAULT
PULL LOW	BYPASS PCI PLL	ENABLE ILA AUTORUN	BYPASS FC PLL	USE EEPROM PCIE STRAPS	ENABLE PCI MEM BOOT



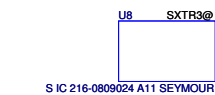
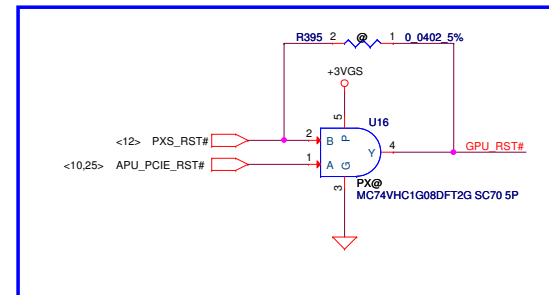
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title	FCH-VSS/Strap	
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				Date	Friday, May 25, 2012	Sheet 14 of 50

<5> PCIE_CTX_GRX_P[7..0] PCIE_CTX_GRX_P[7..0]
<5> PCIE_CTX_GRX_N[7..0] PCIE_CTX_GRX_N[7..0]

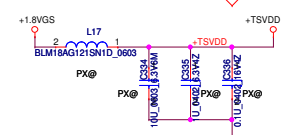
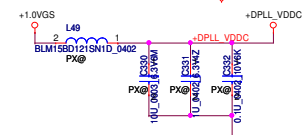
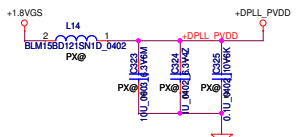
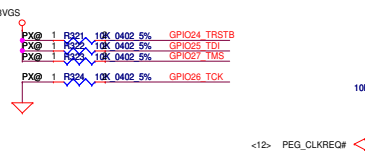
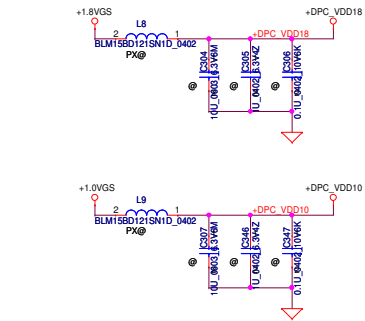
PCIE_CRX_GTX_P[7..0] PCIE_CRX_GTX_P[7..0] <5>
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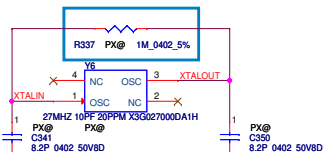
LVDS



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Issued Date	2012/01/15	Deciphered Date	2013/01/15	2013/01/15
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SeymourXT-S3 PCIE/LVDS				Rev 0.3
VAUS5 LA9001P M/B				Rev 0.3
Date: Friday, May 25, 2012				Sheet 15 of 50



Had confirm with I+A & A+FAE
& check list is to use 1M



change Y6 follow QAWYA (SJ10000FH00)

<20> VRAM_ID2
<20> VRAM_ID1
<20> VRAM_ID0

+DPC_VDD18
+DPC_VDD10
+DPC_VDD10

+DPC_VDD18
+DPC_VDD18
+DPC_VDD10

+DPC_VDD18
+DPC_VDD18
+DPC_VDD10

+DPC_VDD18
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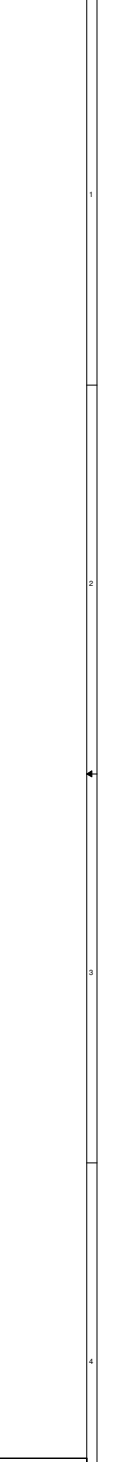
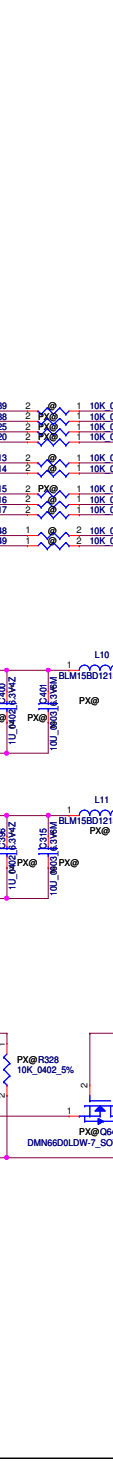
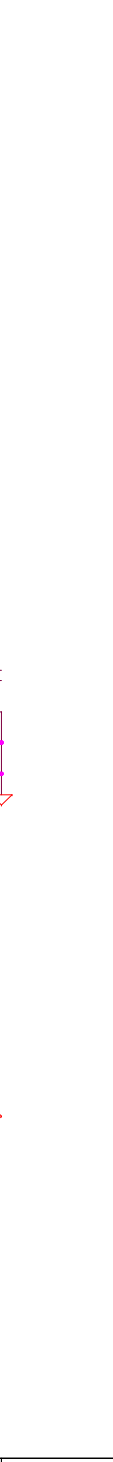
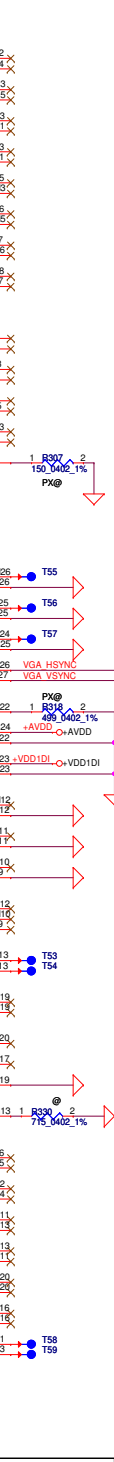
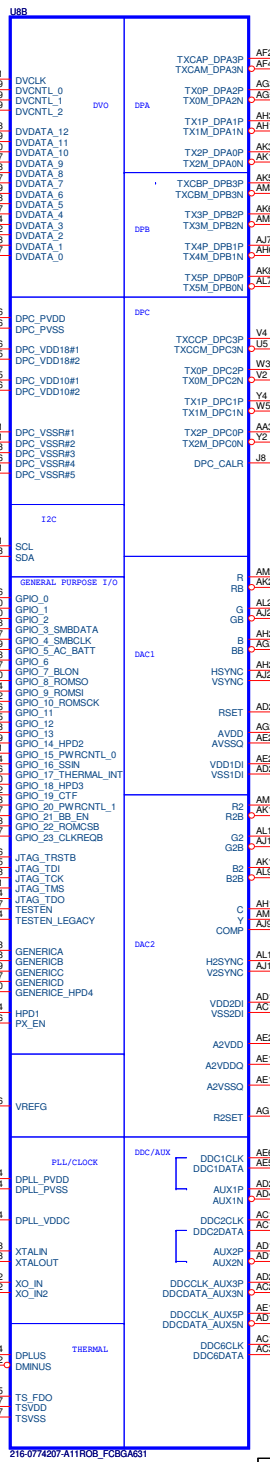
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+DPC_VDD18
+DPC_VDD10

+DPC_VDD18
+DPC_VDD18
+DPC_VDD10

+DPC_VDD18
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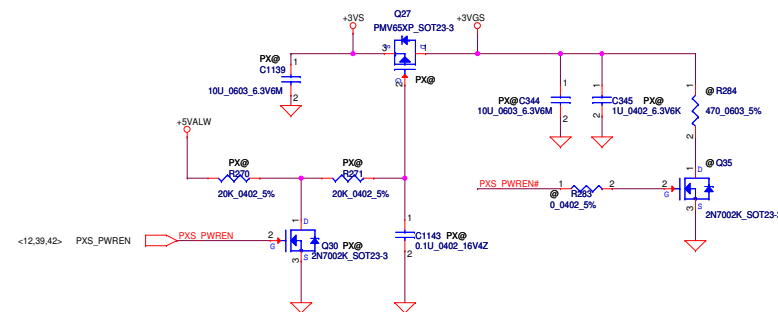
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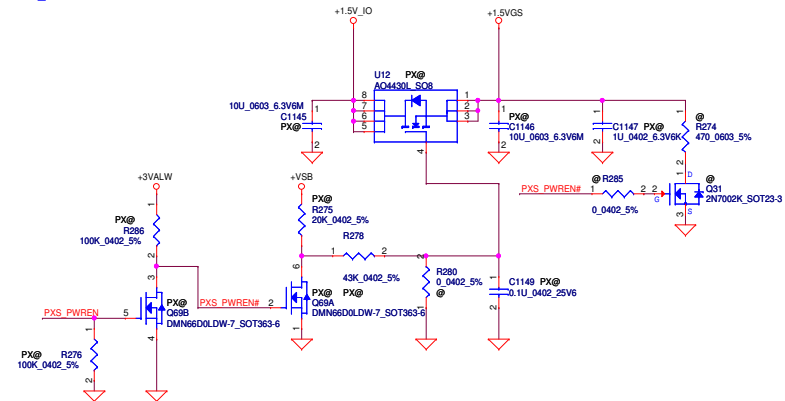
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Issued Date		Deciphered Date		SeymourXT-S3 Main Gen/MSIC	
2012/01/15		2013/01/15		Size C	
2012/01/15		2013/01/15		Document Number	
2012/01/15		2013/01/15		VAU55 LA9001P M/B	
2012/01/15		2013/01/15		Date: Friday, May 25, 2012	
2012/01/15		2013/01/15		Sheet 16 of 50	
2012/01/15		2013/01/15		Rev 0.3	
2012/01/15		2013/01/15		Date: Friday, May 25, 2012	
2012/01/15		2013/01/15		Sheet 16 of 50	
2012/01/15		2013/01/15		Rev 0.3	

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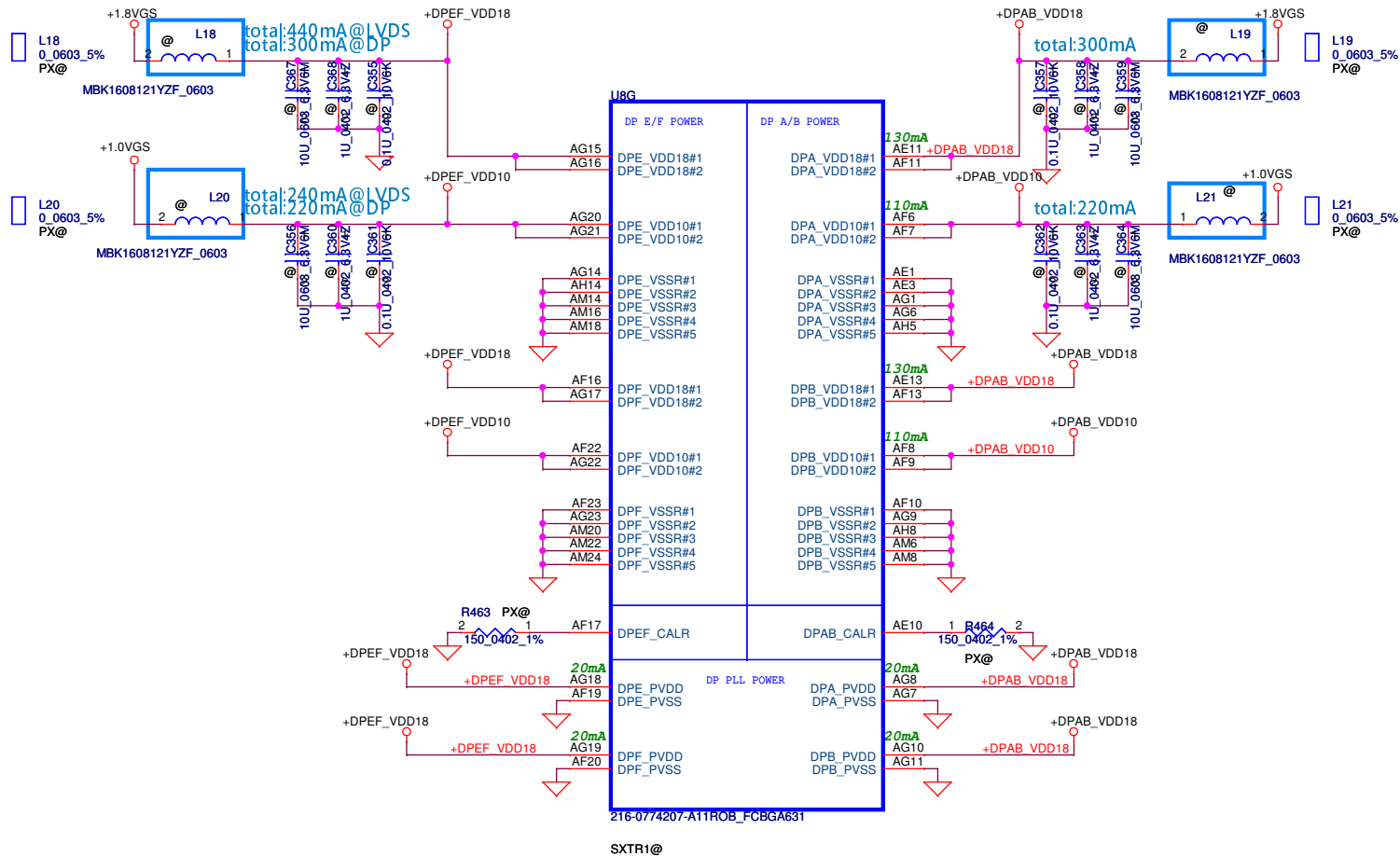
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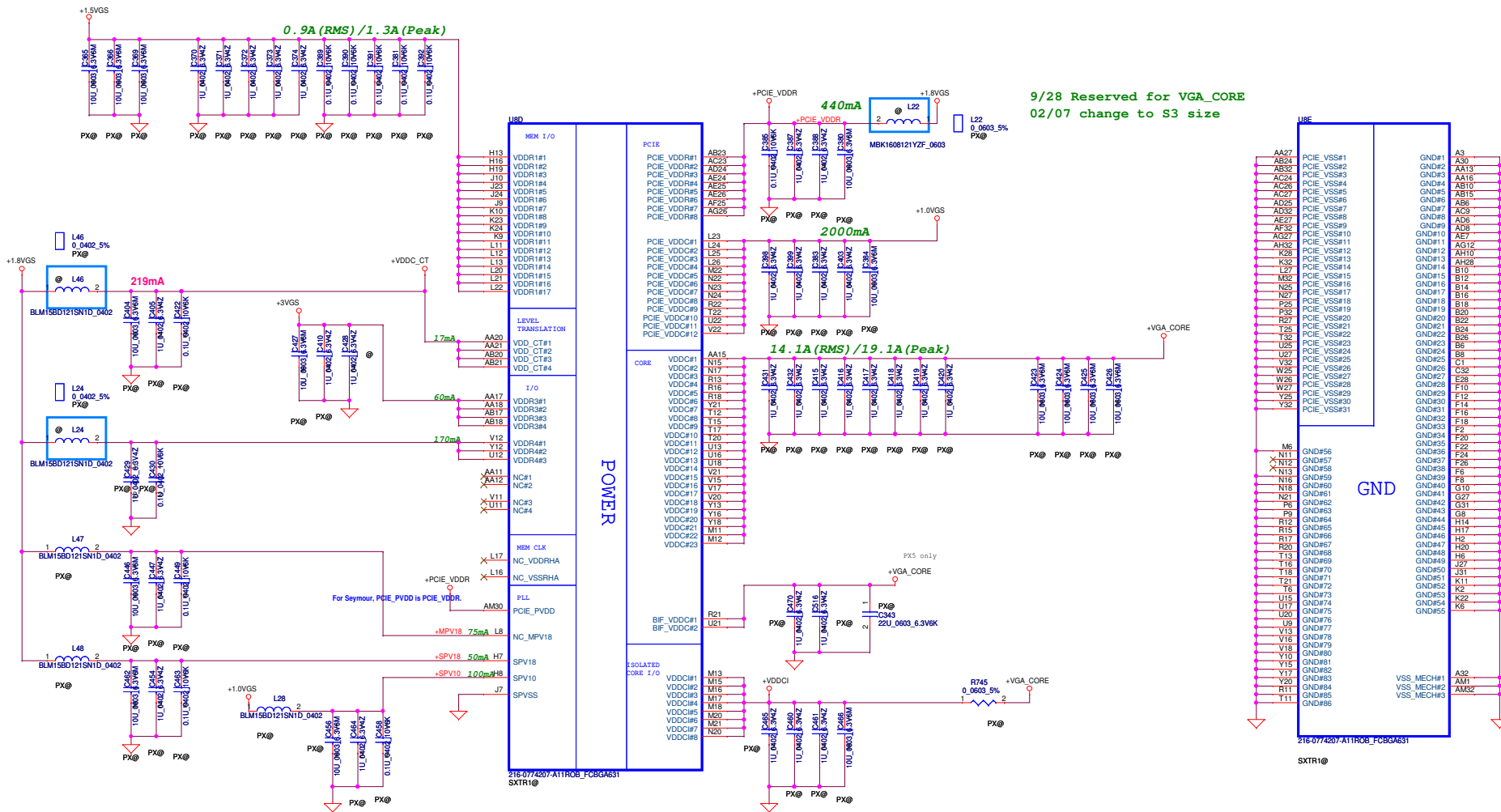
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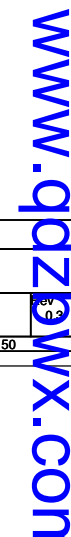
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Size	C	Document Number	VAUS5 LA9001P M/B	Rev
Date:	Friday, May 25, 2012	Sheet	17	of 50



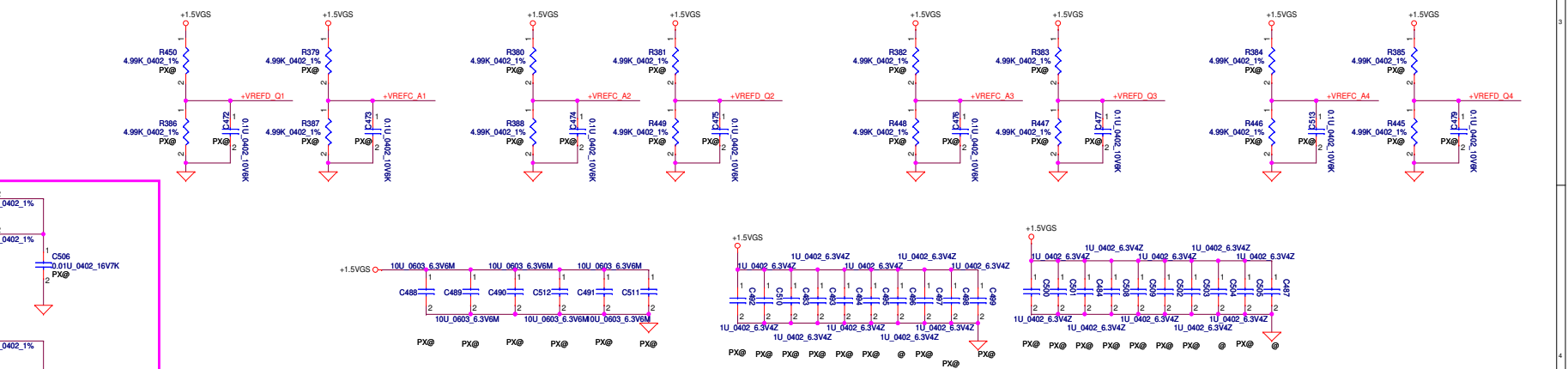
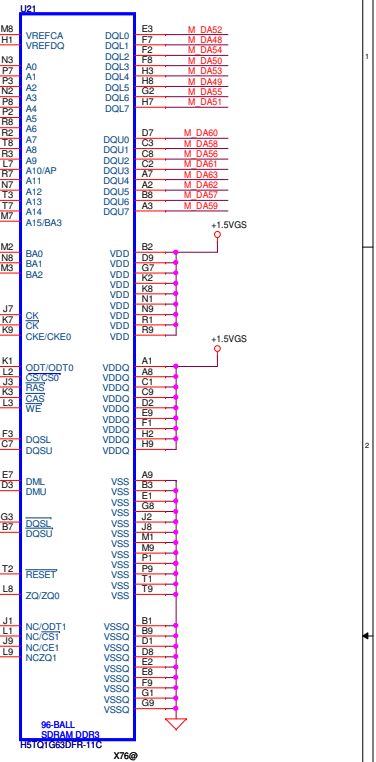
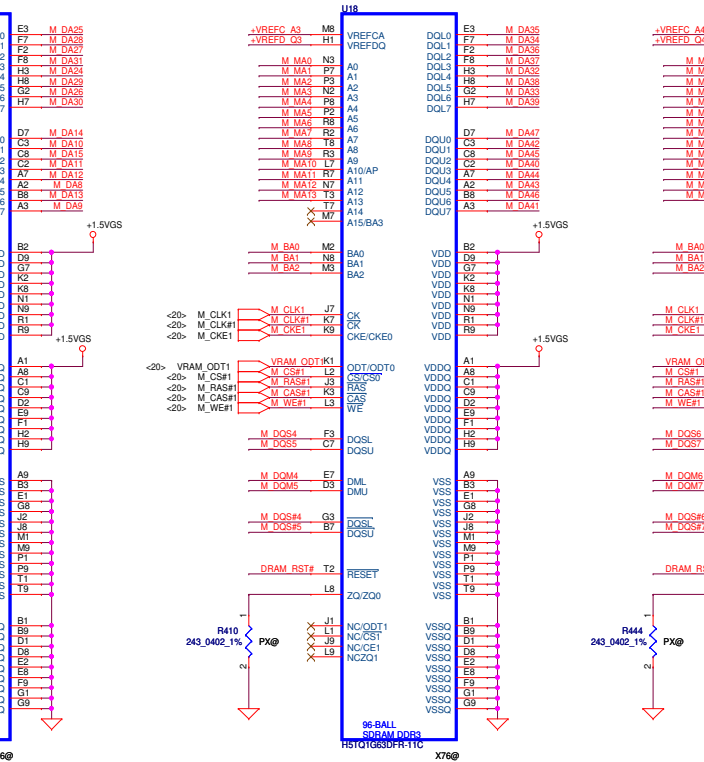
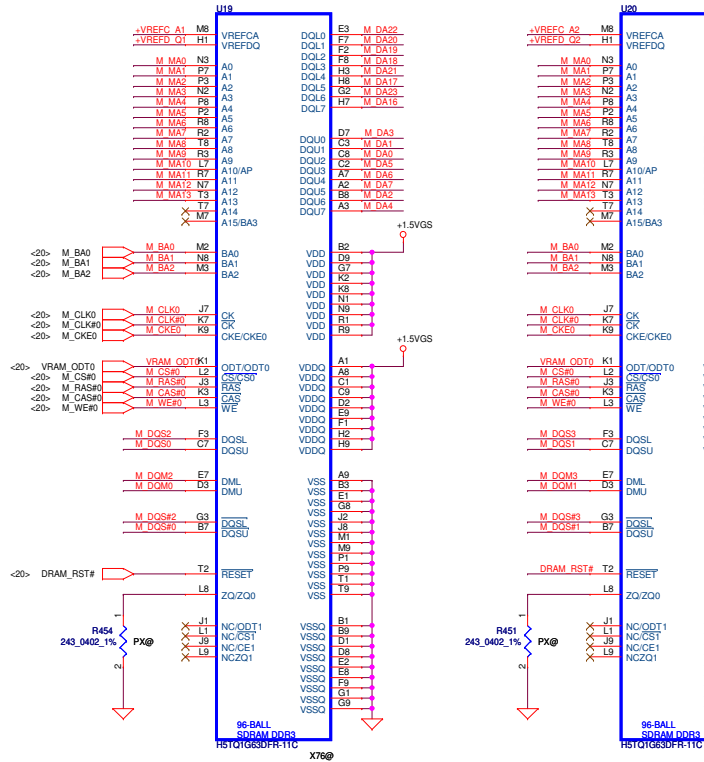
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Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title	SeymourXT-S3 DPX Power
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				Date:	Friday, May 25, 2012
				Sheet	18 of 50



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Issued Date		Deciphered Date		Title	
2012/01/15		2013/01/15		SeymourXT-S3 Power/GND	
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		C		VAU55 LA9001P M/B	0.3
		Date: Friday, May 25, 2012		Sheet	19 of 50



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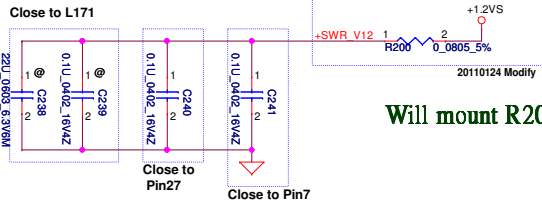
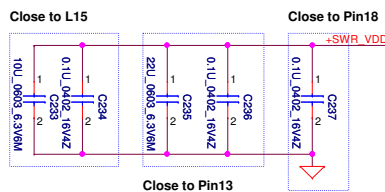
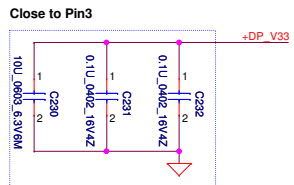
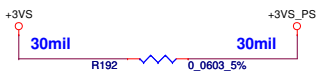


ref 139-02 recommend
 add off page
 Park SCL recommend pu
 60.4 ohm to 1.5VGS#619 update

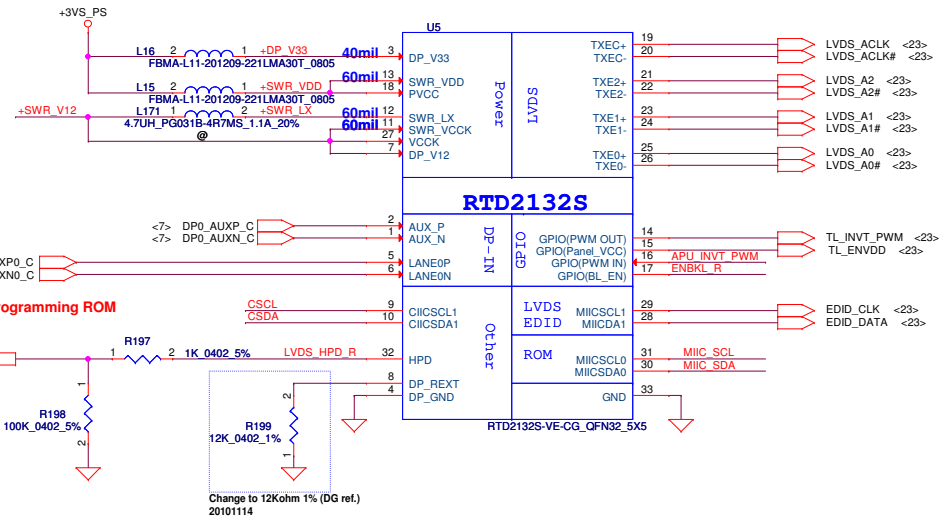
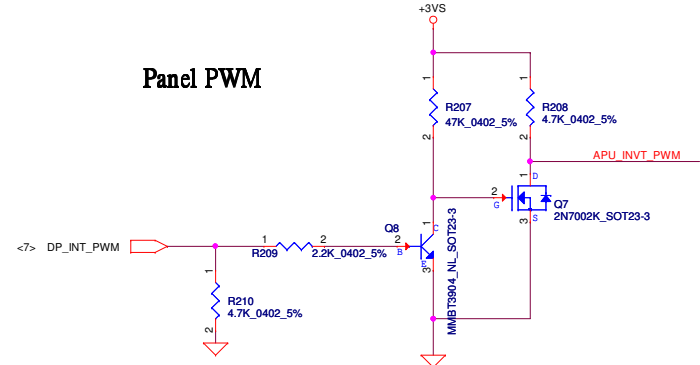
VRAM P/N :
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 Samsung : SA000041T10 (S IC D3 64MX16 K4W1G1646E-HC11 FBGA C38!)
 update VRAM PN 0619 update

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Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title
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Size	C	Document Number	VAU55 LA9001P M/B	
Date	Friday, May 25, 2012	Sheet	21	of 50

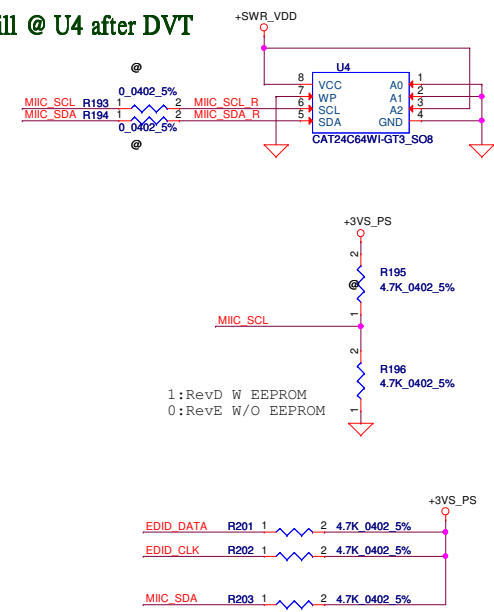
www.qdzbxw.com



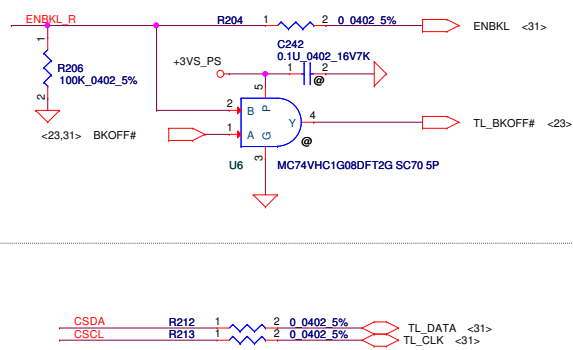
Will mount R200, @ L171, C238, C239 after DVT



Will @ U4 after DVT



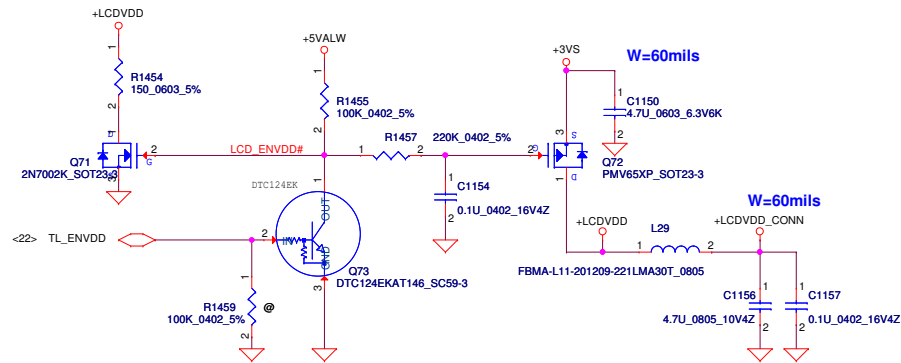
Vendor advise reserve it
(We delete the 0ohm path between ENBKL_R & TL_BKOFF#)



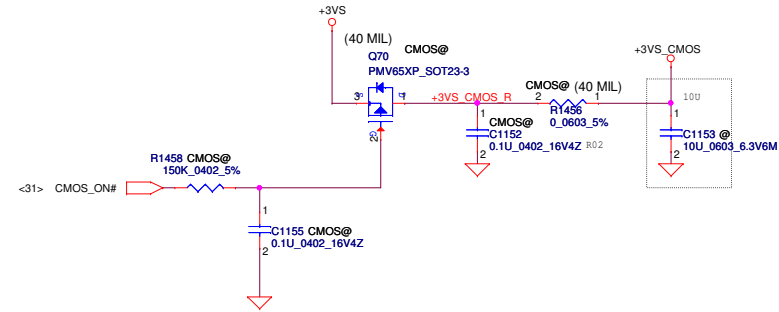
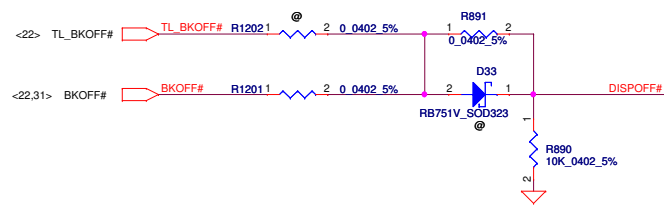
Security Classification	Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title
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				VAUSS LA9001P M/B
				Date: Friday, May 25, 2012
				Sheet 22 of 50

www.qdzbox.com

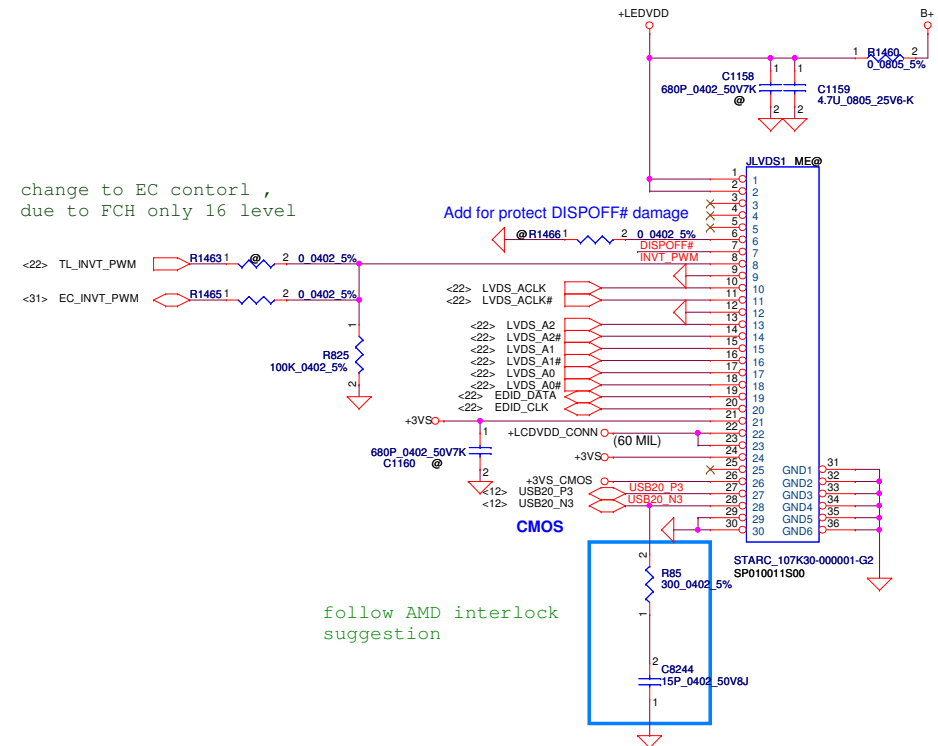
LCD POWER CIRCUIT



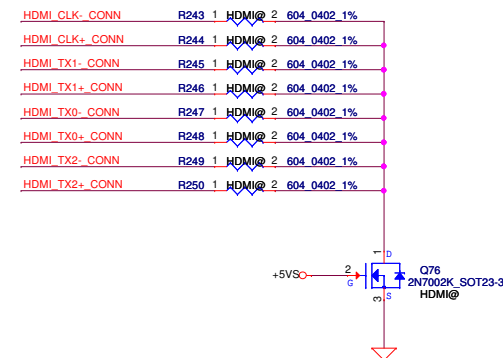
CMOS Camera

**VGA LCD/PANEL BD. Conn.**

change to EC contorl ,
due to FCH only 16 level



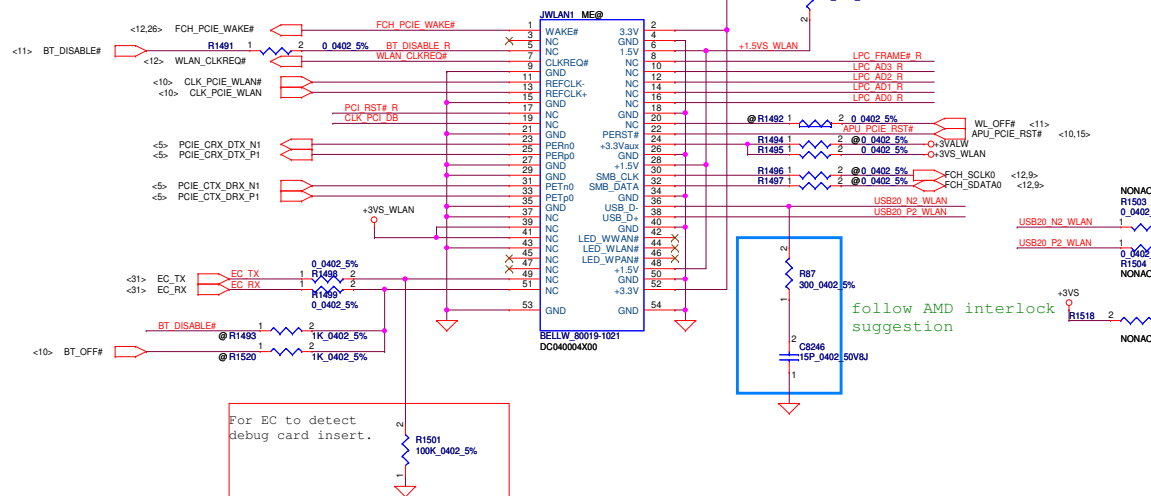
Security Classification		Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title	LVDS/CAMERA		
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				Custom	VAUSS LA9001P M/B	0.3	
				Date:	Thursday, May 31, 2012	Sheet 23 of 50	



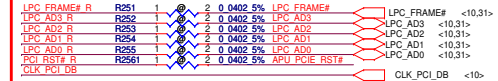
www.qdzbxw.com

Mini-Express Card for WLAN/WiMAX(Half)

Mini-Express Card(WLAN/WiMAX)



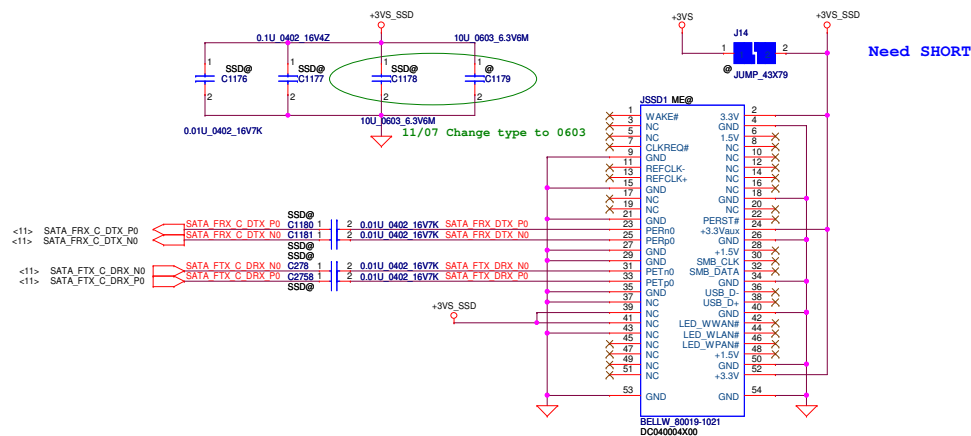
Reserve for SW mini-pcie debug card.
Series resistors closed to KBC side.



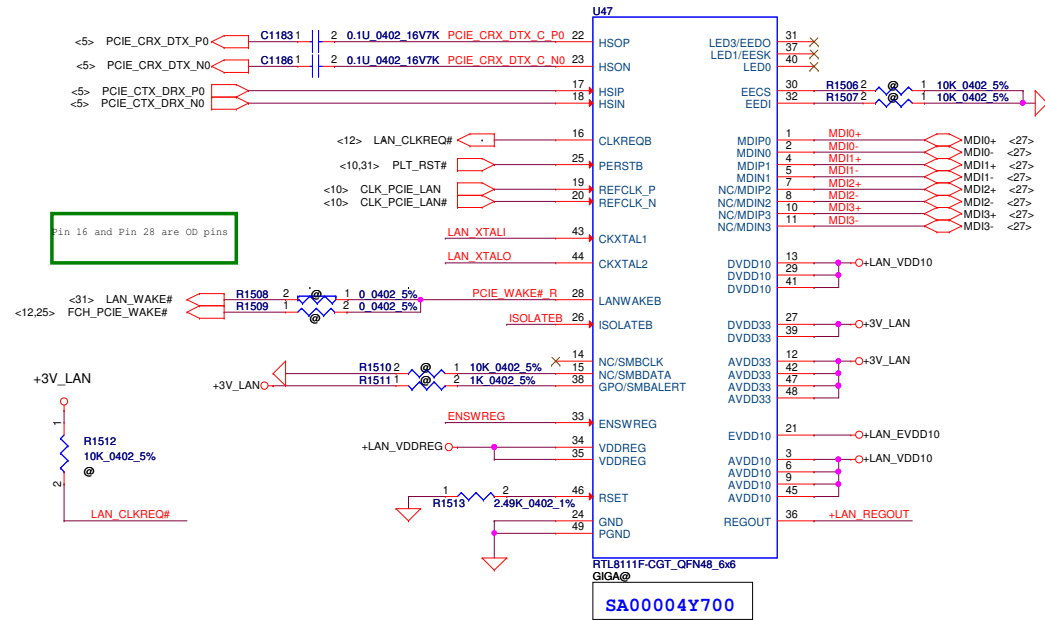
Mini-Express Card for SSD(Full)

Mini-Express Card(WWAN/SSD)

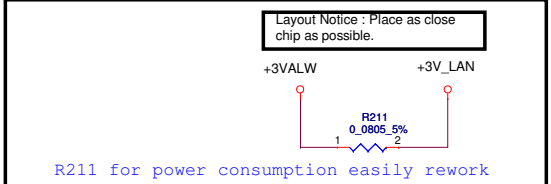
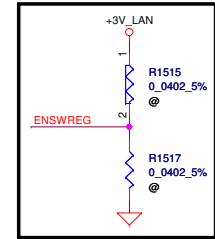
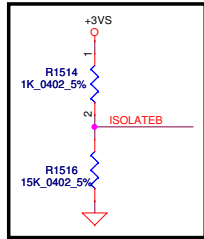
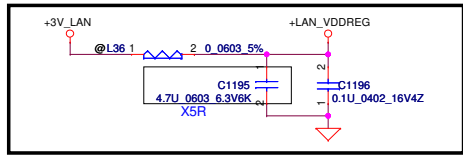
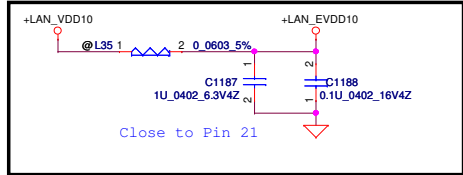
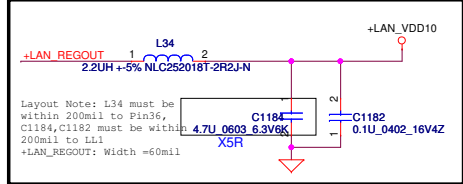
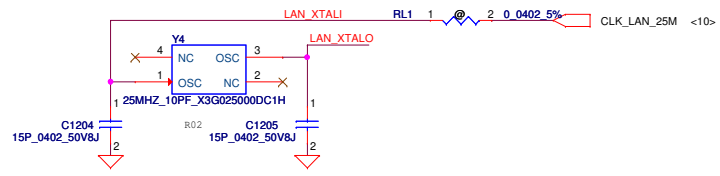
SSD Active:4.5W(1.5A)



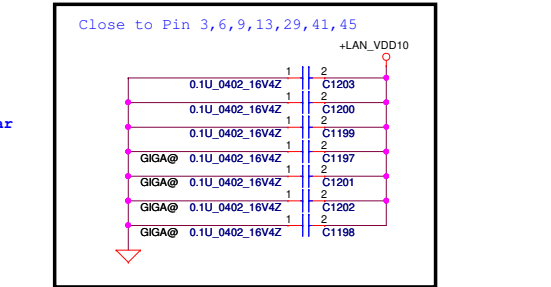
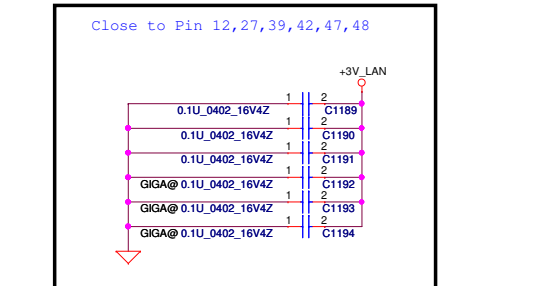
Security Classification	Compal Secret Data			Compal Electronics, Inc.		
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title		
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Size	Document Number	Rev		VAU55 LA9001P M/B		
Date	Thursday, May 31, 2012	Sheet	25	of	50	0.3



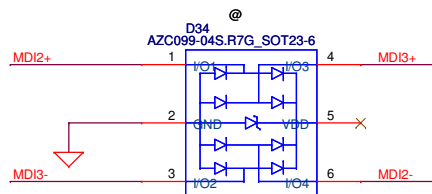
Follow Vendor tuning value



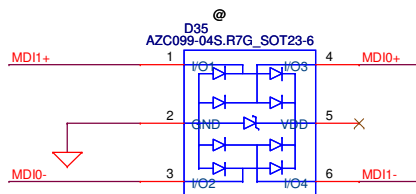
Layout Notice : Place as close chip as possible.



Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title	LAN-RTL8111F/8105E
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				Date:	Tuesday, May 29, 2012
				Sheet	26 of 50

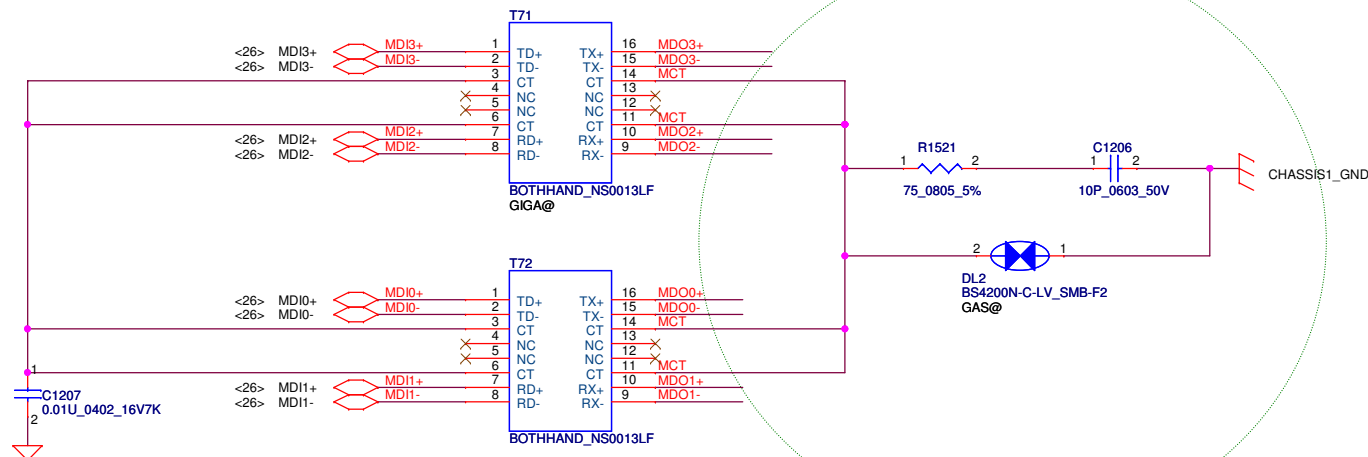


Place Close to T71

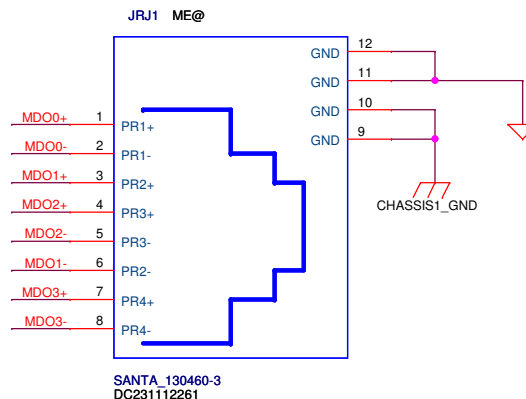


Place Close to T72

D34/D35
1'S PN:SC300001G00
2'S PN:SC300002E00

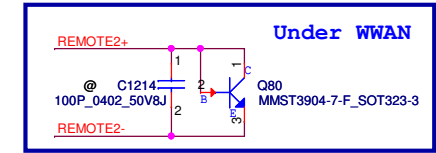
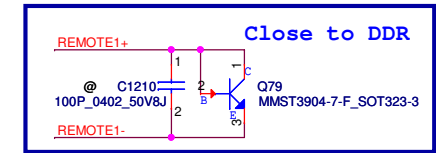
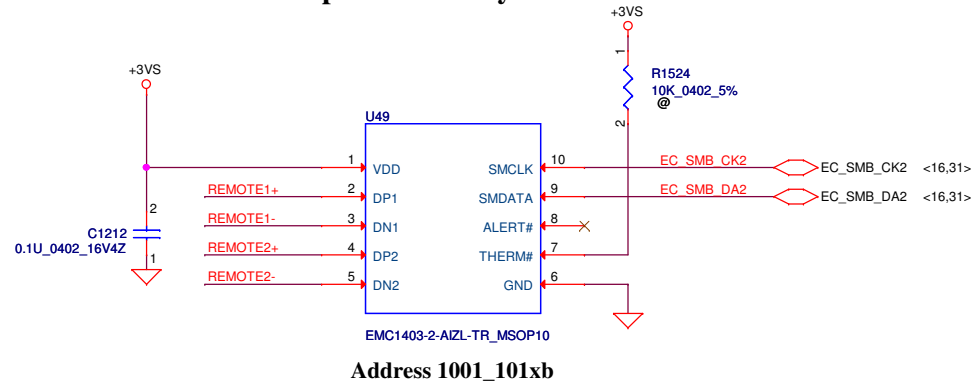
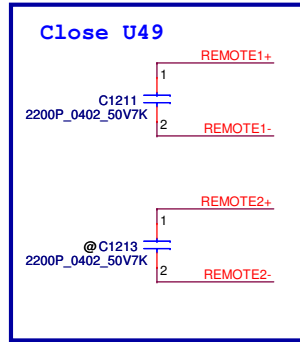


Place Close to T71,T72



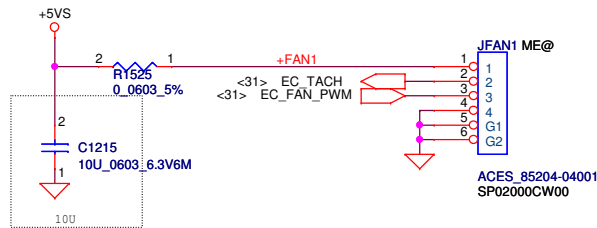
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title	LAN_Transformer
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				Date:	Friday, May 25, 2012
				Sheet	27 of 50

SMSC thermal sensor placed near by VRAM

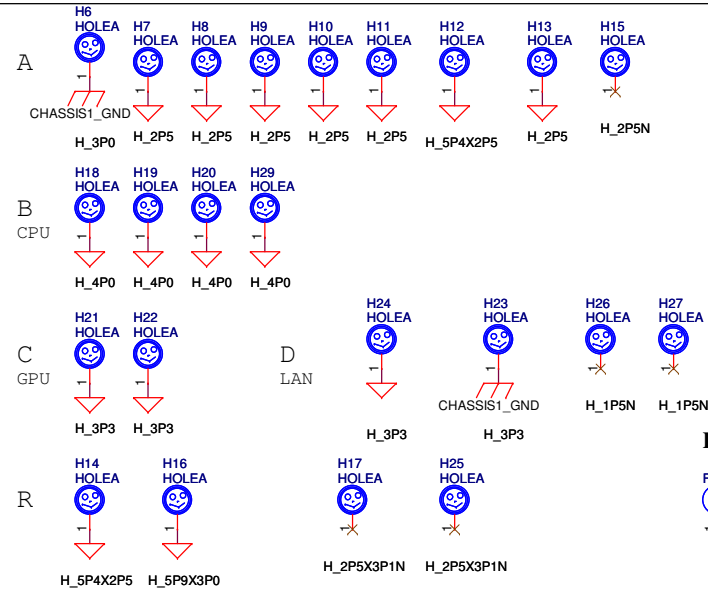


REMOTE1,2+/-:
Trace width/space:10/10 mil
Trace length:<8"

FAN1 Conn

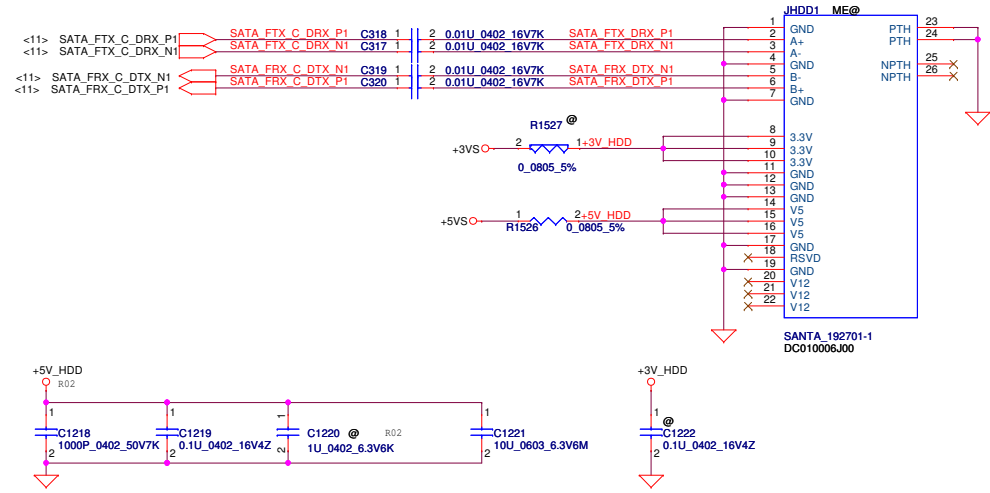


Screw Hole

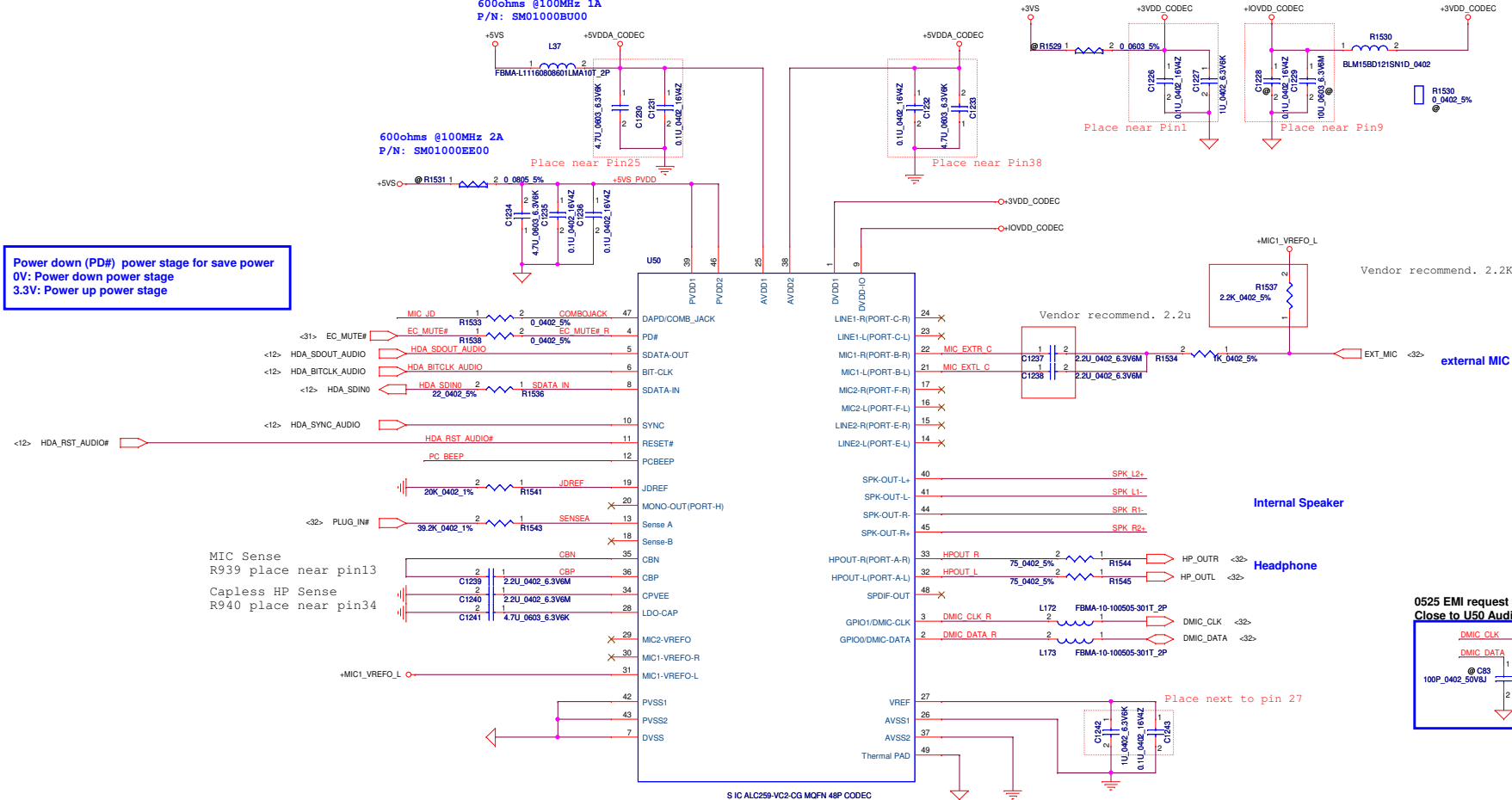


Security Classification	Compal Secret Data			Compal Electronics,Ltd.	
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title	Fintek-Thermal IC/FAN/screw
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					VAUS5 LA9001P M/B
				Date: Friday, May 25, 2012	Sheet 28 of 50

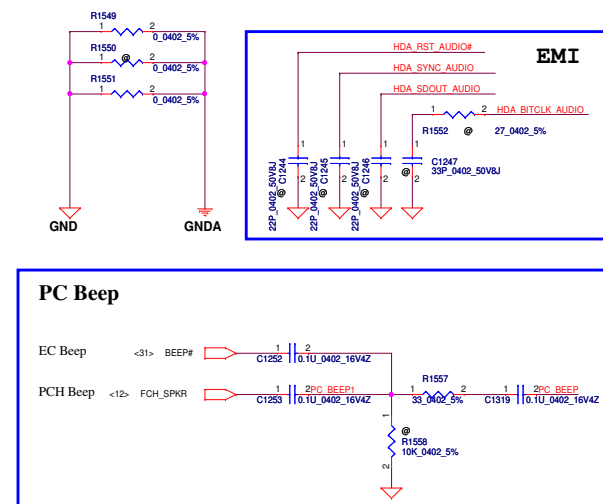
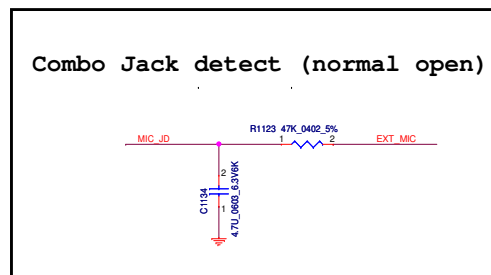
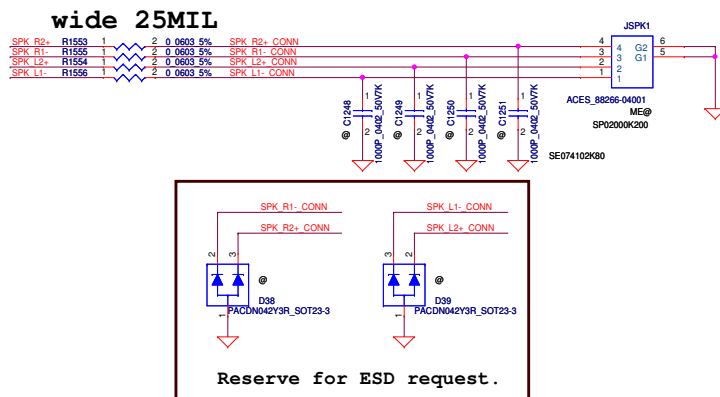
SATA HDD Conn.



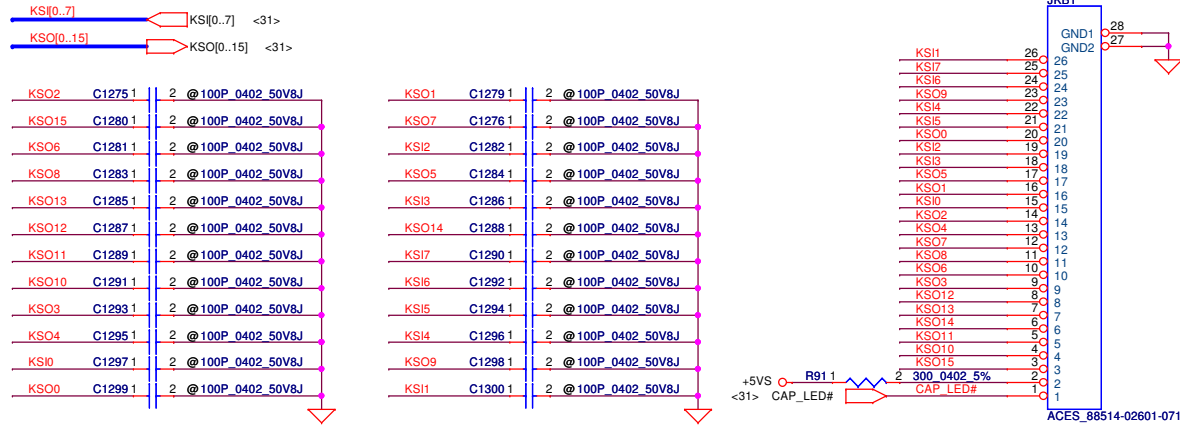
Security Classification		Compal Secret Data		Title	
Issued Date	2012/01/15	Deciphered Date	2013/01/15	HDD Connector	
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				VAUSS LA9001P M/B	0.3
				Date: Friday, May 25, 2012	Sheet 29 of 50



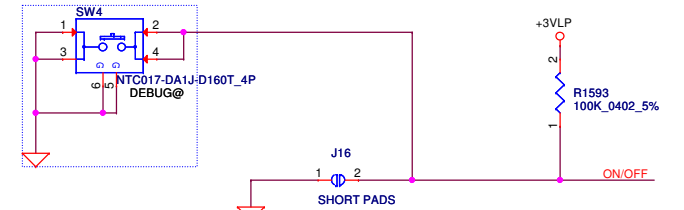
Pin Assignment	Location	Function
SPK-OUT (Pin40/41/44/45)	Internal	Int Speaker
Capless HP-OUT (Pin32/33)	External	Headphone out
MIC1 (Pin21/22)	External	Mic in



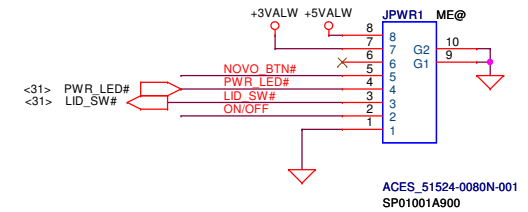
INT_KBD Conn.



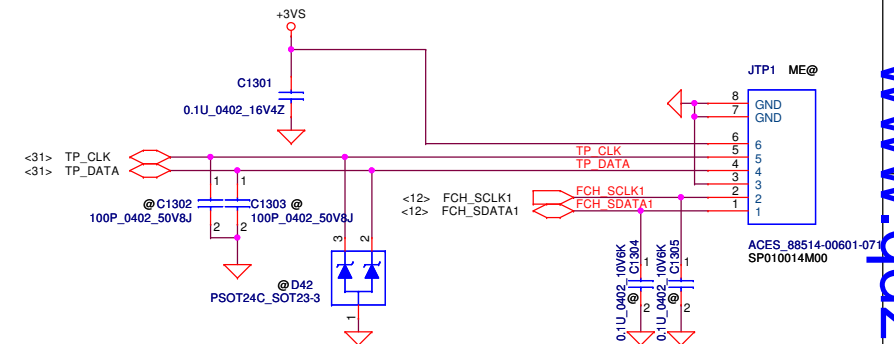
For debug



Power Board

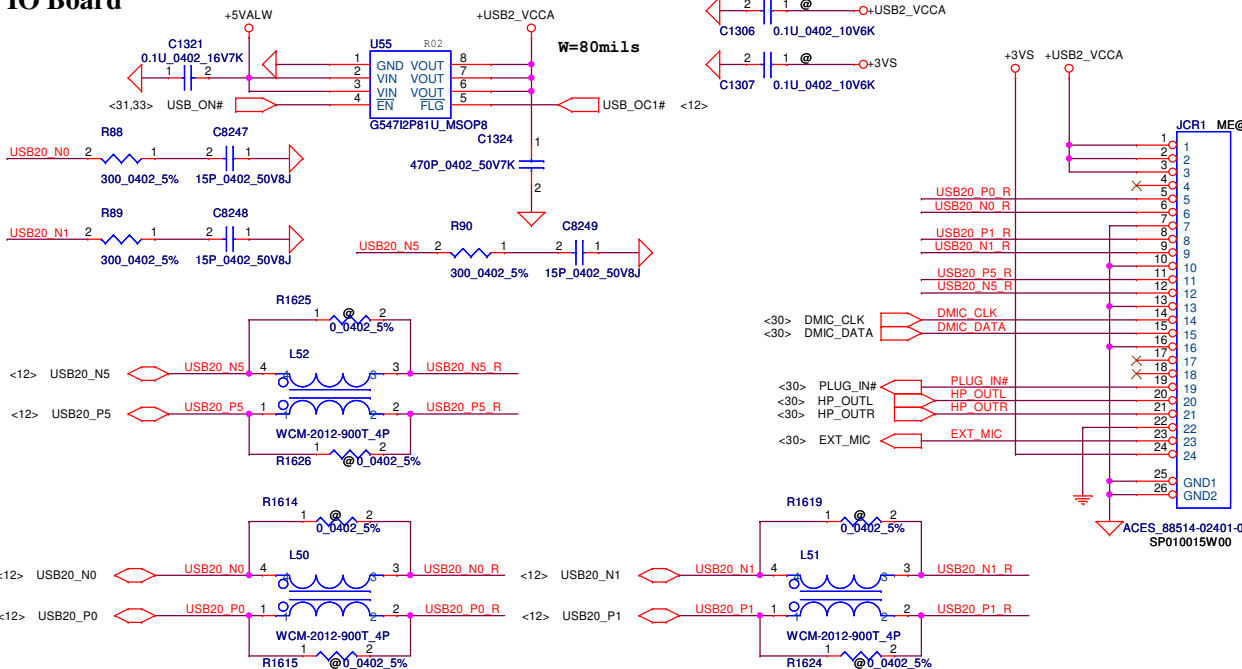


TouchPAD Module

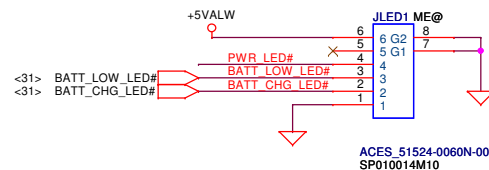


IO Board

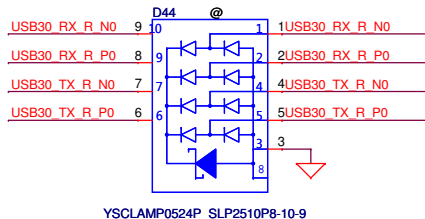
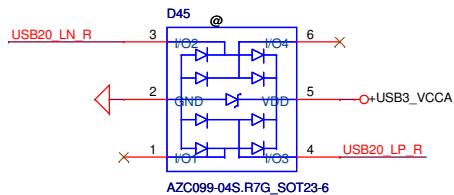
2A/Active Low



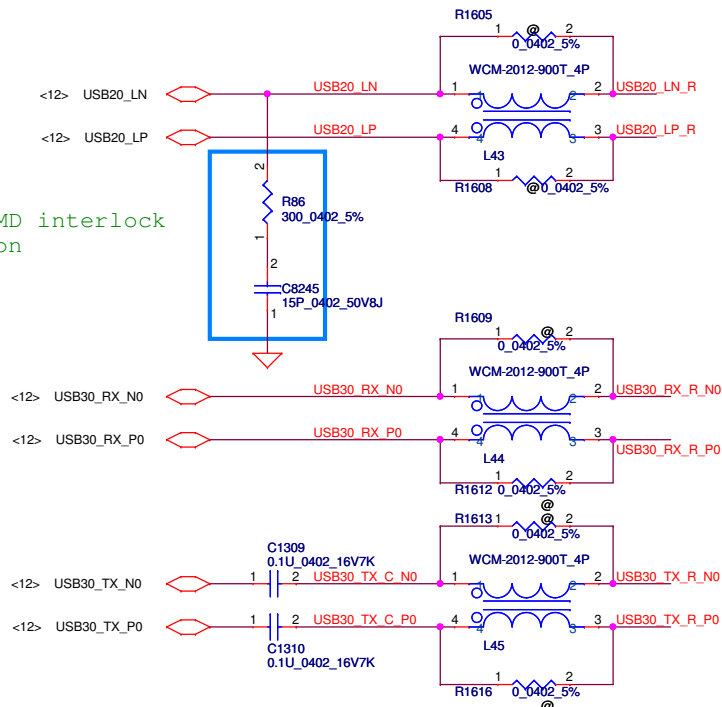
LED Board



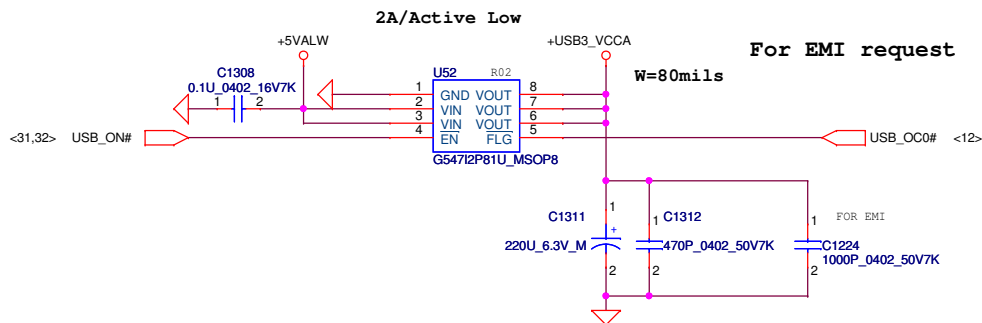
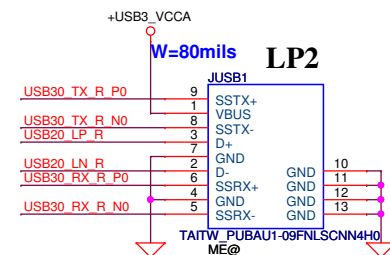
Security Classification		Compal Secret Data		Title	
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Compal Electronics, Inc.	
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Size Custom	Document Number	VAUS5 LA9001P M/B		Rev	0.3
Date	Thursday, May 31, 2012	Sheet	32	of 50	



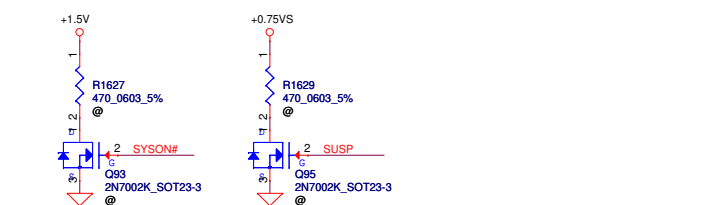
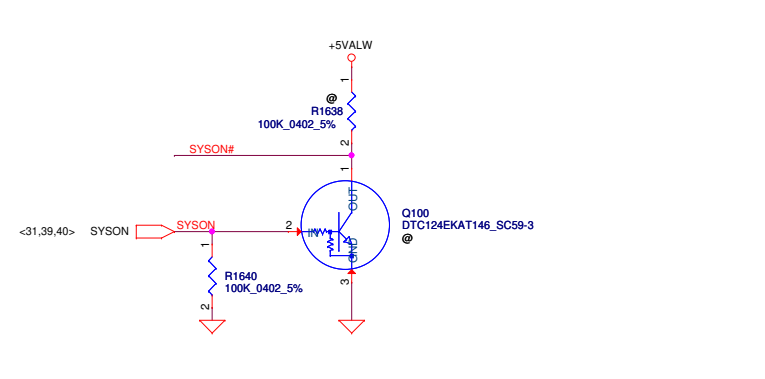
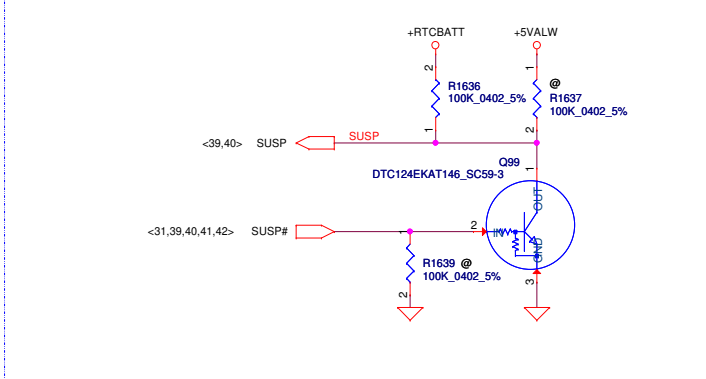
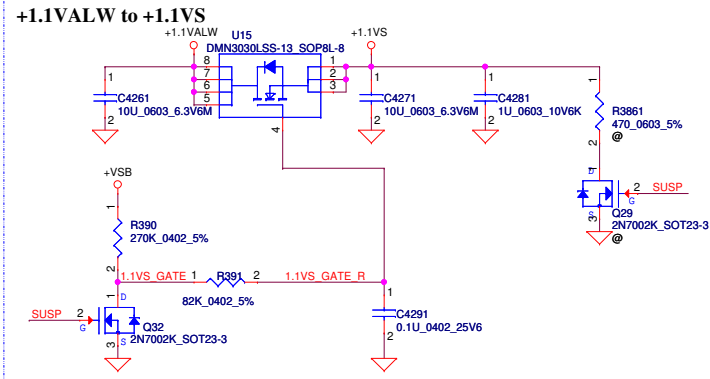
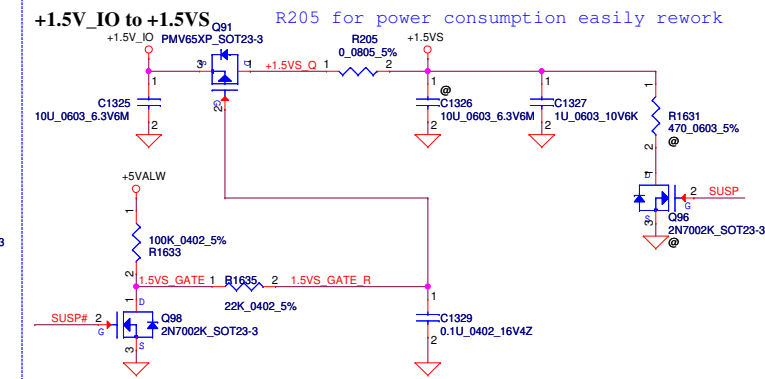
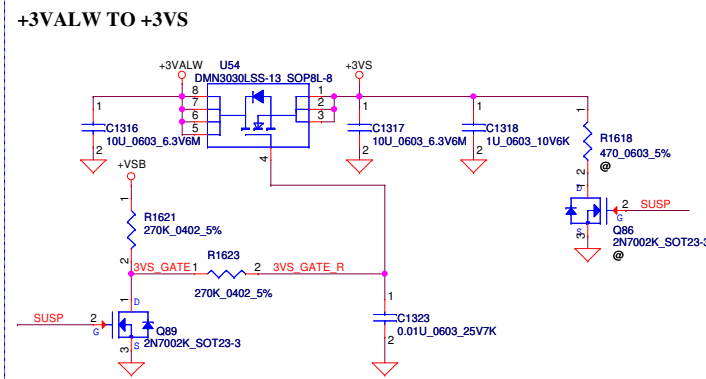
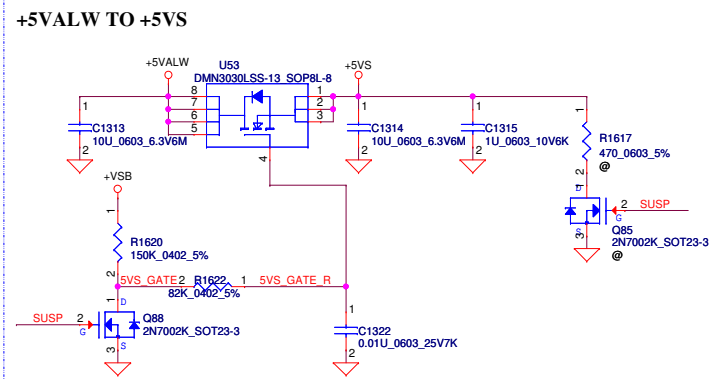
follow AMD interlock suggestion



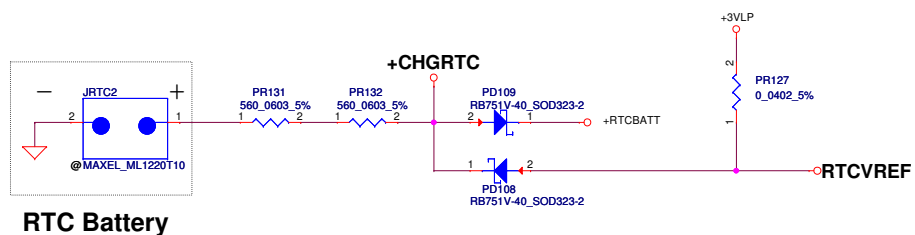
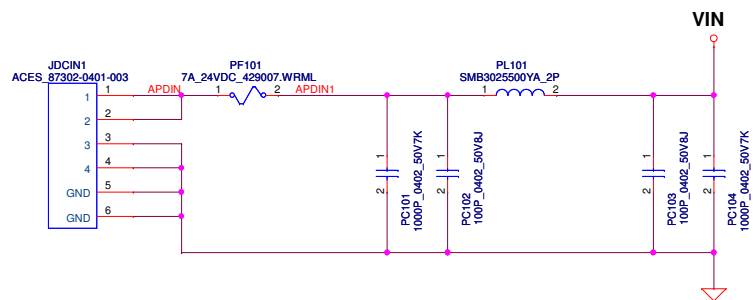
Place TX AC coupling Cap (C1309,C1310) . Close to connector



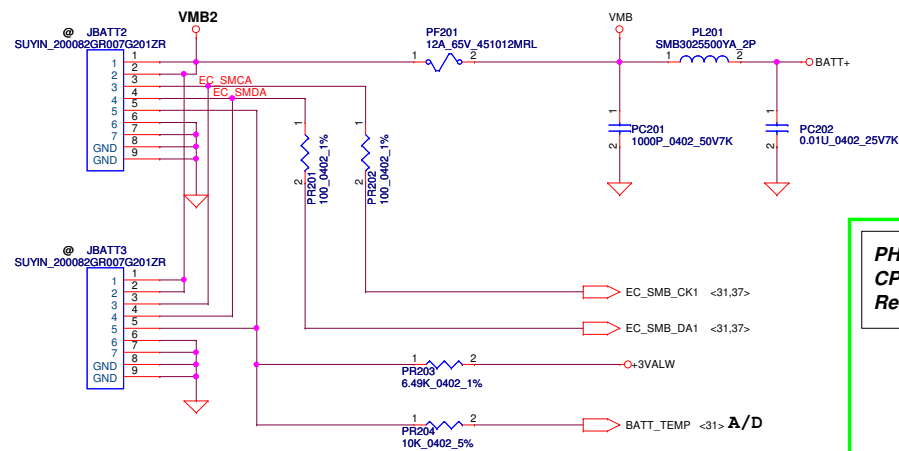
Security Classification		Compal Secret Data For EMI request		Compal Electronics, Inc.	
Issued Date	2012/01/15	Deciphered Date	2013/01/15	Title	USB3.0 ports
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				Date:	Thursday, May 31, 2012
				Sheet	33 of 50



Security Classification			Compal Secret Data		Title	
Issued Date	2011/06/30	Deciphered Date	2013/06/30		DC-DC INTERFACE	Rev
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				Custom	VAUS5 LA9001P M/B	0.3
Date: Friday, May 25, 2012				Sheet 34 of 50		



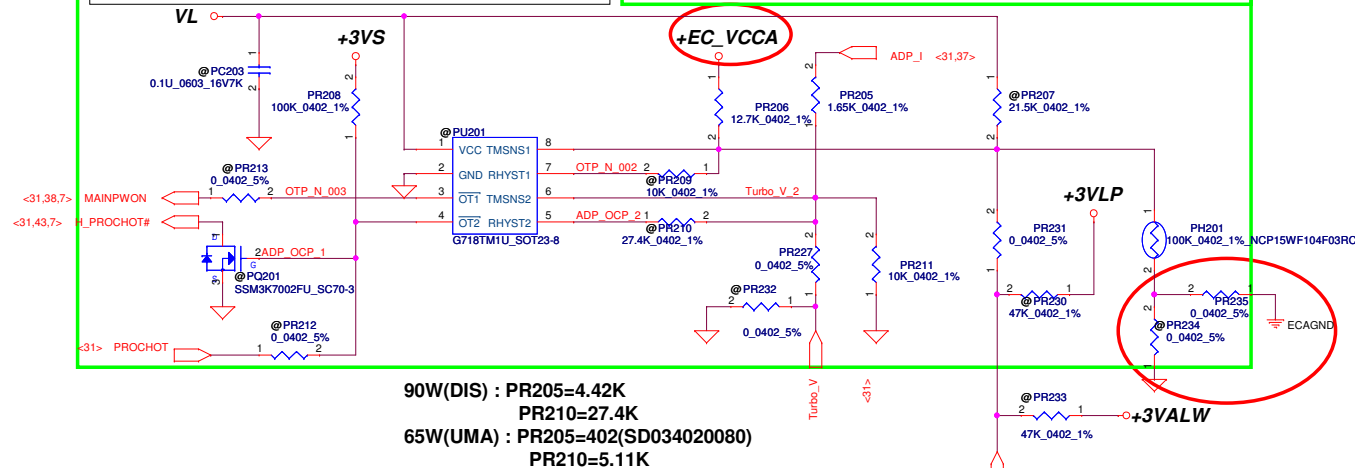
Security Classification	Compal Secret Data			Compal Electronics, Inc.	
Issued Date	2011/10/12	Deciphered Date	2013/10/12	Title	PWR DCIN / Vin Detector /Pre-charge
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				Date:	Friday, May 25, 2012
				Sheet	35 of 48



PH1 under CPU bottom side :
CPU thermal protection at 93 +/-3 degree C
Recovery at 56 +/-3 degree C

For KB930 --> Keep PU201 circuit
(Vth = 1.25V)

For KB912 (Red circle) --> Remove PU201 circuit, but keep PR206
PH201, PR205, PR211, PQ201, PR212

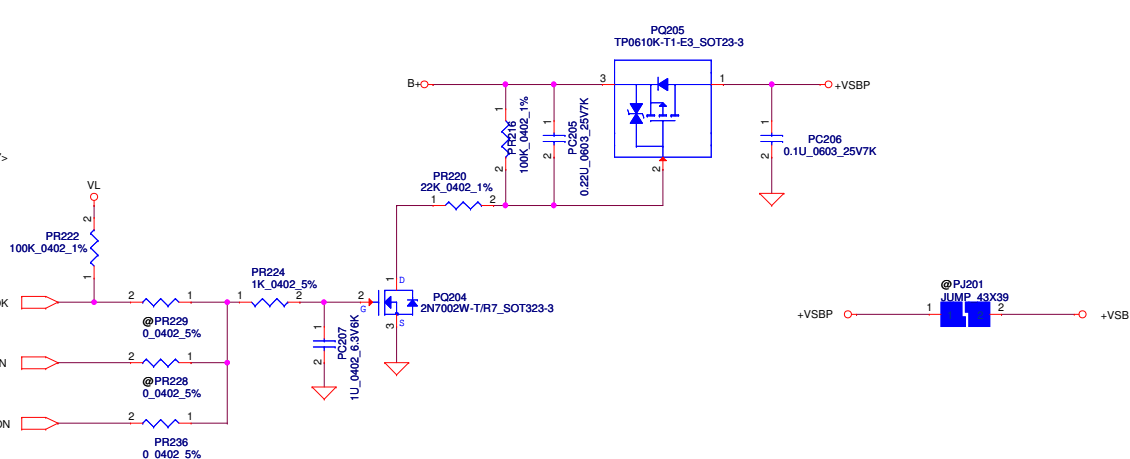
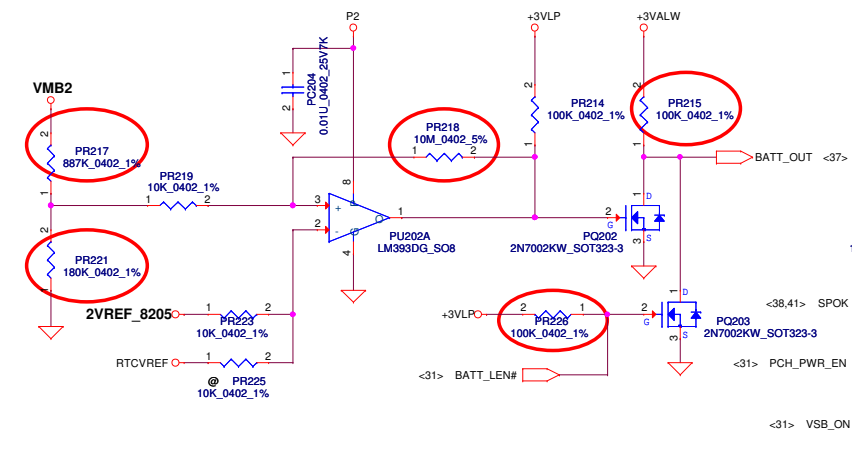


90W(DIS) : PR205=4.42K

PR210=27.4K

65W(UMA) : PR205=402(SD034020080)

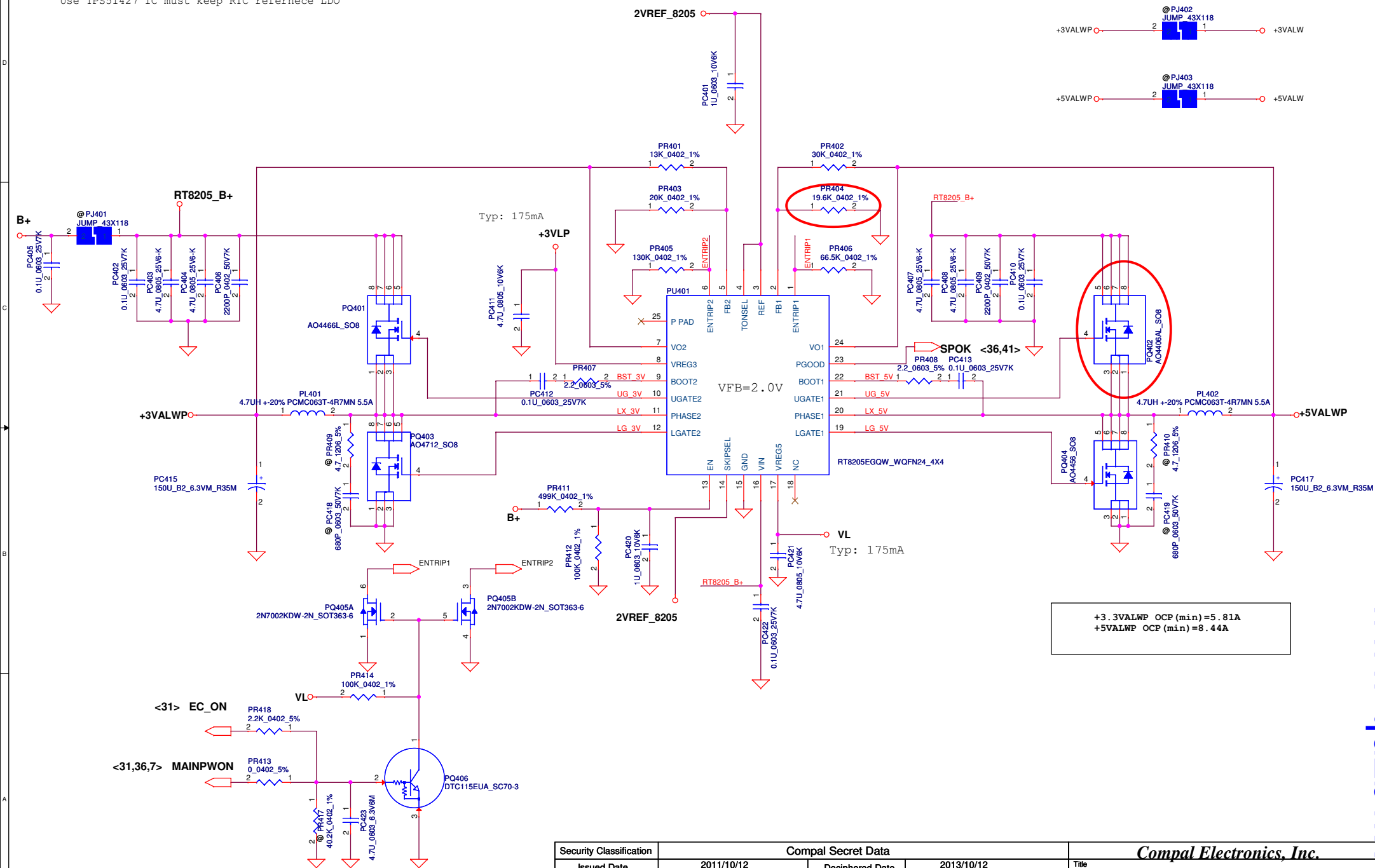
PR210=5.11K



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Date: Friday, May 25, 2012				Sheet 36 of 48

Compal Electronics, Inc.		Title	
BATT-TEMP		Document Number	
LA9001P		Rev 0.1	
Date: Friday, May 25, 2012		Sheet 36 of 48	

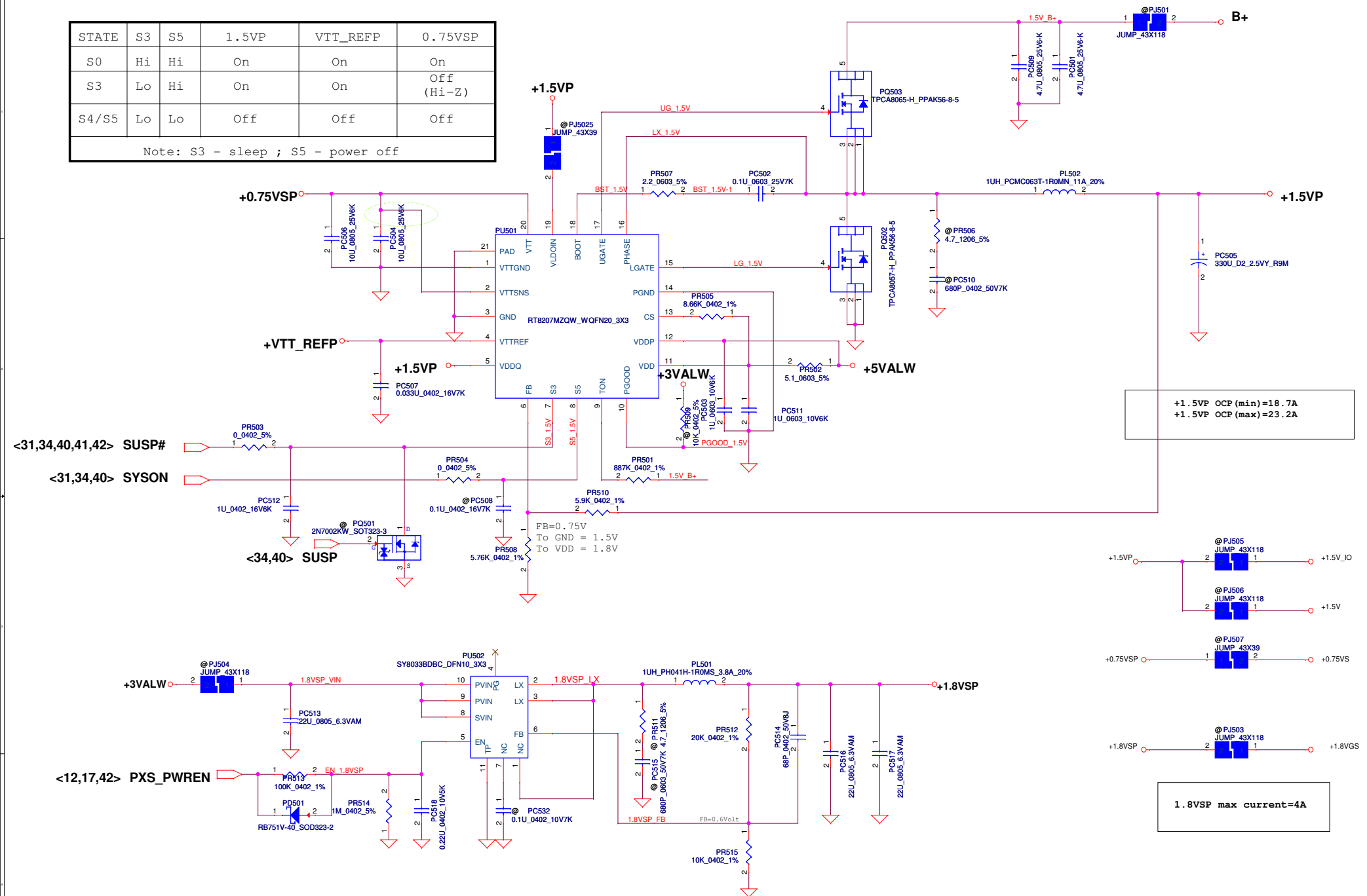
Note:
 Use TPS51125 IC can remove RTC refernece LDO
 Use TPS51427 IC must keep RTC refernece LDO



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				Document Number	LA9001P
				Date: Friday, May 25, 2012	Sheet 38 of 48

STATE	S3	S5	1.5VP	VTT_REFP	0.75VSP
S0	Hi	Hi	On	On	On
S3	Lo	Hi	On	On	Off (Hi-Z)
S4/S5	Lo	Lo	Off	Off	Off

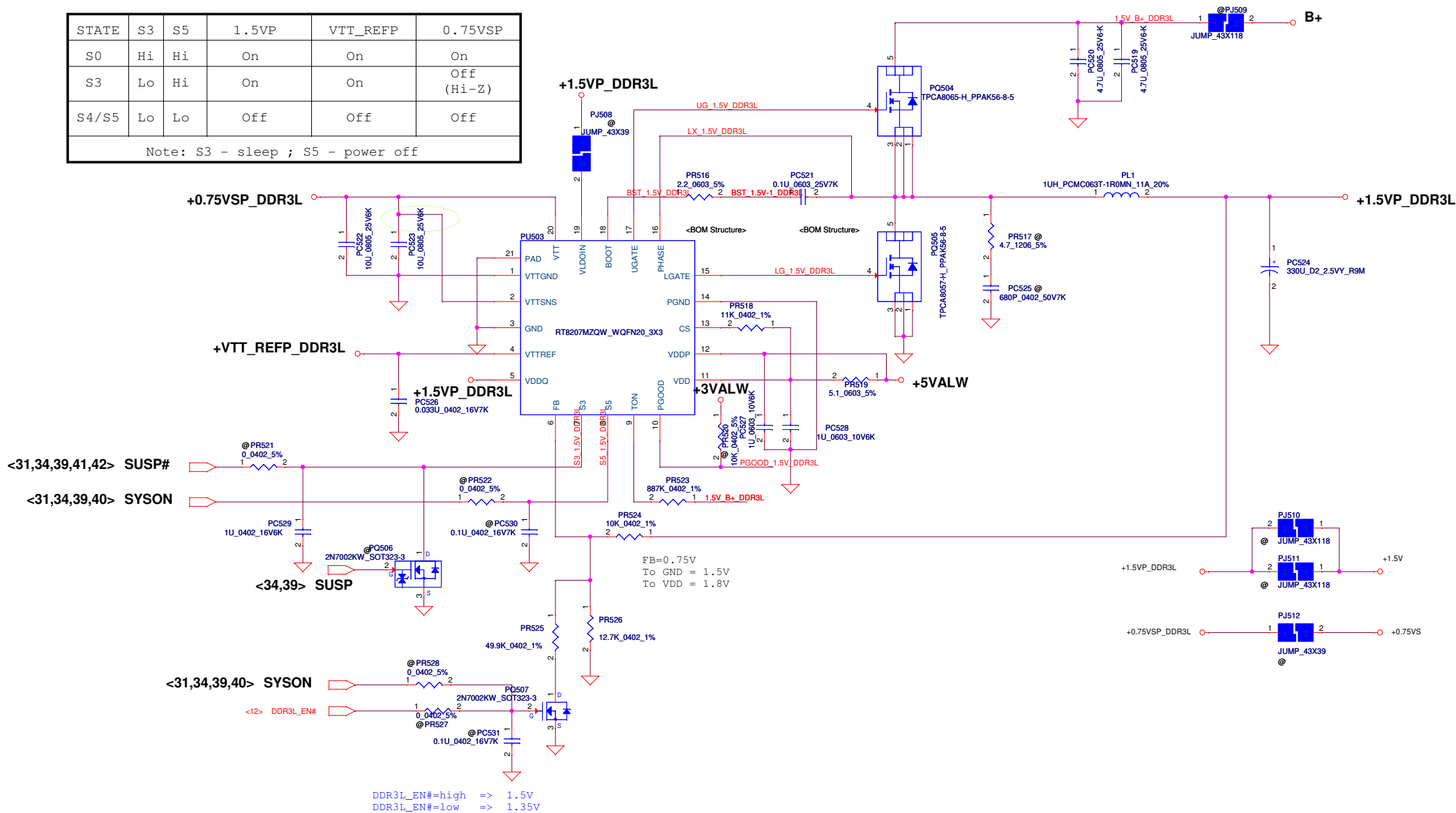
Note: S3 - sleep ; S5 - power off

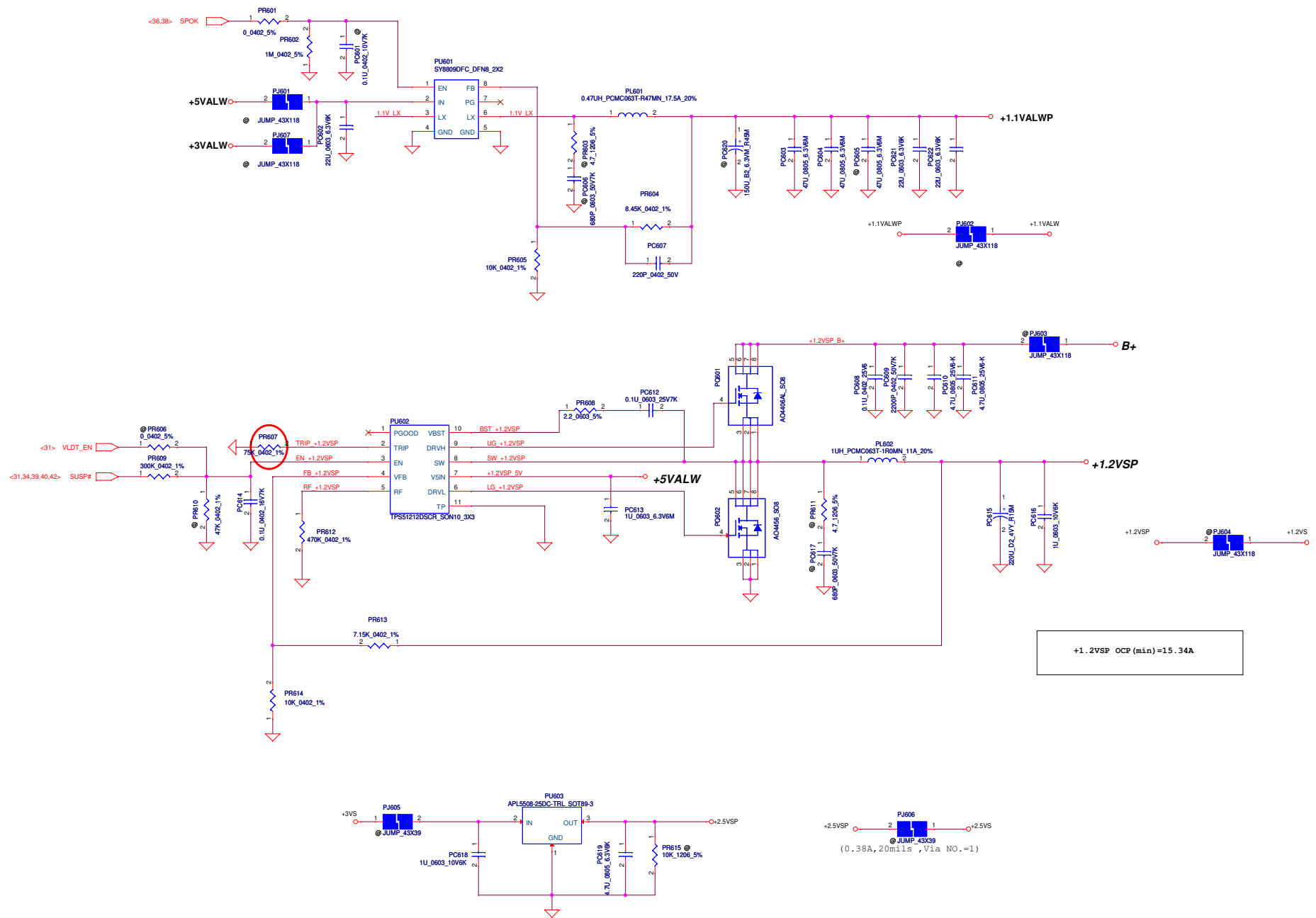


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				Custom	LA9001P
				Date:	Friday, May 25, 2012
				Sheet	39 of 48
				Rev	0.1

STATE	S3	S5	1.5VP	VTT_REFP	0.75VSP
S0	Hi	Hi	On	On	On
S3	Lo	Hi	On	On	Off (Hi-Z)
S4/S5	Lo	Lo	Off	Off	Off

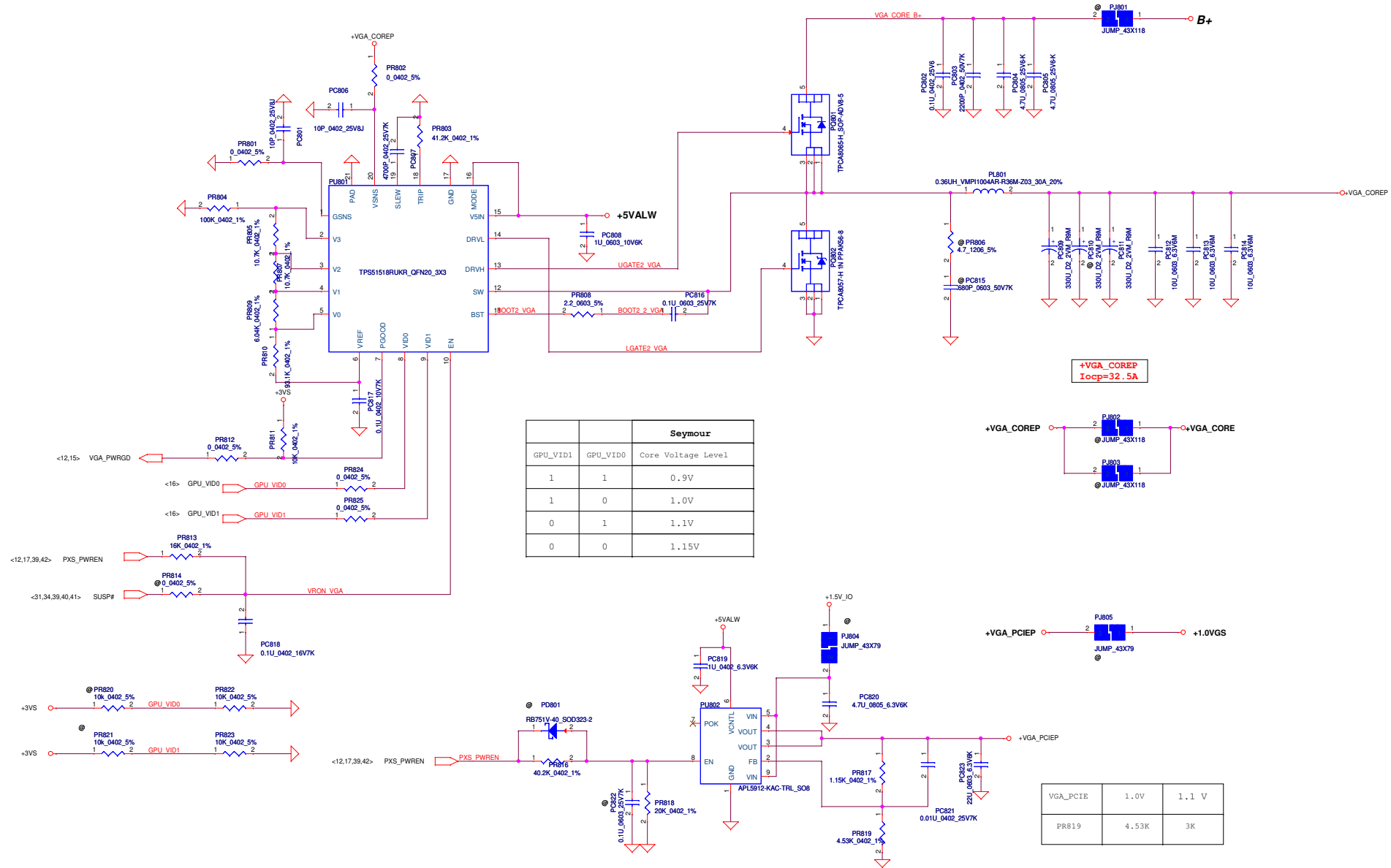
Note: S3 - sleep ; S5 - power off

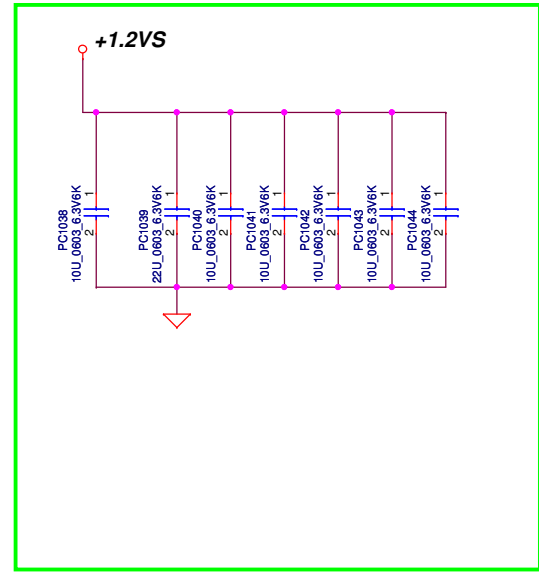
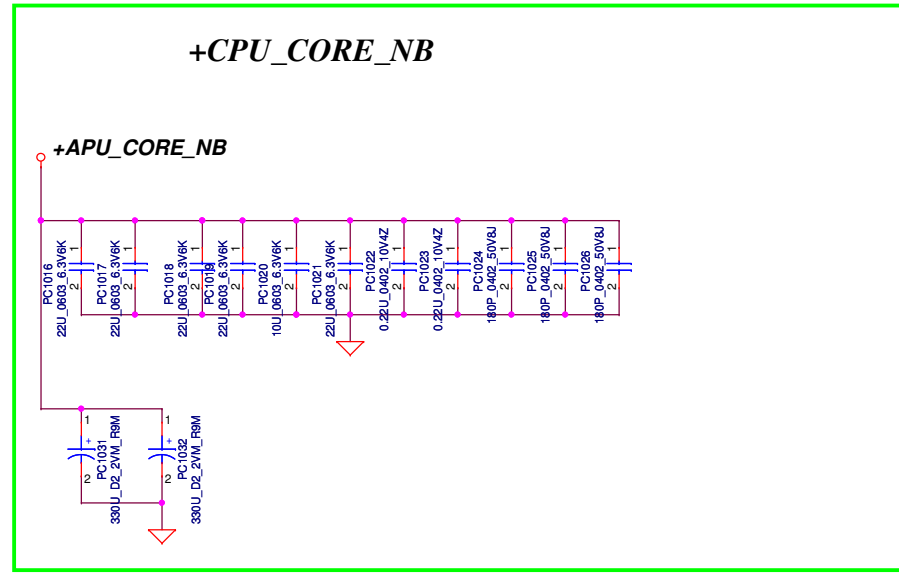
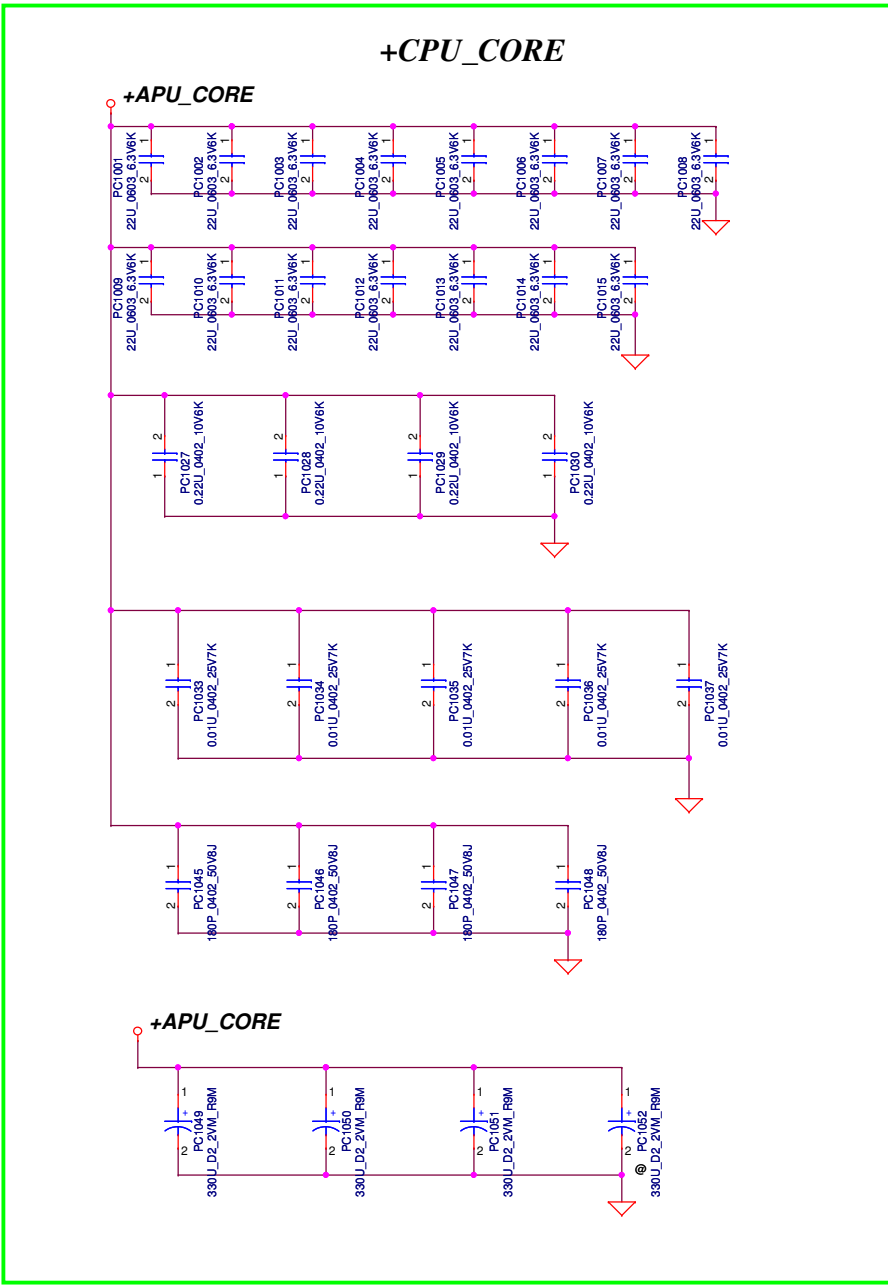




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				LA9001P	Rev 0.1
Date: Friday, May 25, 2012		Sheet 41 of 48			

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				Date	Friday, May 25, 2012
				Sheet	44 of 48
				Rev	0.1

Item	Reason for change	PG#	Modify List	Date	Phase
1					
2					
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4					
5					
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				Size	Document Number
				Custom	LA9001P
Date: Friday, May 25, 2012				Sheet	45 of 48
				Rev	0.1

VAUS5 HW PIR List

SDV TO SIV

NO	DATE	PAGE	MODIFICATION LIST	PURPOSE	NOTE
1	3/22	26	Change C1204, C1205 from SE071120JN0 to SE071120J80	SE071120JN0 is for A58 only	
2	3/22	27	Modify DL2 from @ to GAS@	For Gastube BOM control	
3	3/22	12	Delete FCH_SEL BOM control	AMD formal announce FP2 only support A70M3	
4	3/22	10	Delete U2 A60MR1 BOM control	AMD formal announce FP2 only support A70M3	
5	3/22	12	Change R117 from PX@ to @, change R155 from @ to always mount	Clock request from GPU will not meet power sequence	
6	3/22	12	Change R1606, R1607 from USBL2@ to @, change R1610, R1611 from USBL3@ to always mount	AMD formal announce FP2 only support A70M3	
7	3/26	10	Change GPIO31 pull high from +3VALW to +3VS	This GPIO pin is Core power rail	
8	4/2	07	Add R215 to pull high +1.5V_APU & @ R36	AMD suggest	
9	4/6	24	Add C1223 1000p	For EMI	
10	4/6	33	Add C1224 1000p	For EMI	
11	4/6	26	Change C1204, C1205 from 12p to 15p	For Vendor tuning value	
12	4/6	16	Change C341, C350 from 15p to 8.2p	For Vendor tuning value	
13	4/6	33	Swap D45	For layout	
14	4/9	31	Change R1564 from 33k to 18k	DVT Board ID	
15	4/9	30	Swap JSPK1	For swap speaker cable	
16	4/9	31	Add VSB_ON on GPIO127	For S5 power saving	
17	4/11	29	Change R1527 to R-short	For cost down	
18	4/11	31	Change R1580, R1586 to R-short	For cost down	
19	4/11	13	Change R167 to R-short	For cost down	
20	4/11	31	Change R1591 to always mount	For MainPowerON power control	
21	4/11	7	Change R51, R52 to R-short	For cost down	
22	4/11	12	Change R1610, R1611 to R-short	For cost down	
23	4/11	17	Change R400 to R-short	For cost down	
24	4/11	22	Mount R200, @ L171, C238, C239	For LVDS Translator 1.2 power rail	
25	4/11	26	Change R1515, R1508 to R-short	For cost down	
26	4/11	27	Delete J17, J19	For LAN surge solution change	
27	4/12	5	Change A6, A10 APU R1 PN	From PC sample to PR sample	
28	4/13	17,19	Change BIF_VDDC to VGA_CORE and move C343 to Page 19	For PX5 only	
29	4/16	27	Change CHASSIS2_GND to GND & CHASSIS1_GND	For common LAN surge solution	
30	4/17	33	Mount L43, L44, L45, @ R1605, R1608, R1609, R1612, R1613, R1616	For EMI (USB3.0 choke)	
31	4/17	32	Add L50, L51, L52 @ R1614, R1615, R1619, R1624, R1625, R1626	For EMI (USB2.0 choke from SB to MB)	
32	4/17	30	Change R937, R1548 from 0 ohm to L172, L173 300ohm Bead	For EMI (DMIC DATA , CLK)	
33	4/17	7	Change R26,R28 from 1k to 10k	For APU_SIC, SID 0'C shut down issue workaround	
34	4/18	7	Change back R26,R28 from 10k to 1k, and mount C5988	For APU_SIC, SID 0'C shut down issue	

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					HW-PIR	
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					Custom	0.3
					Document Number	
					VAUS5 LA9001P M/B	
					Date:	Friday, May 25, 2012
					Sheet	46 of 50

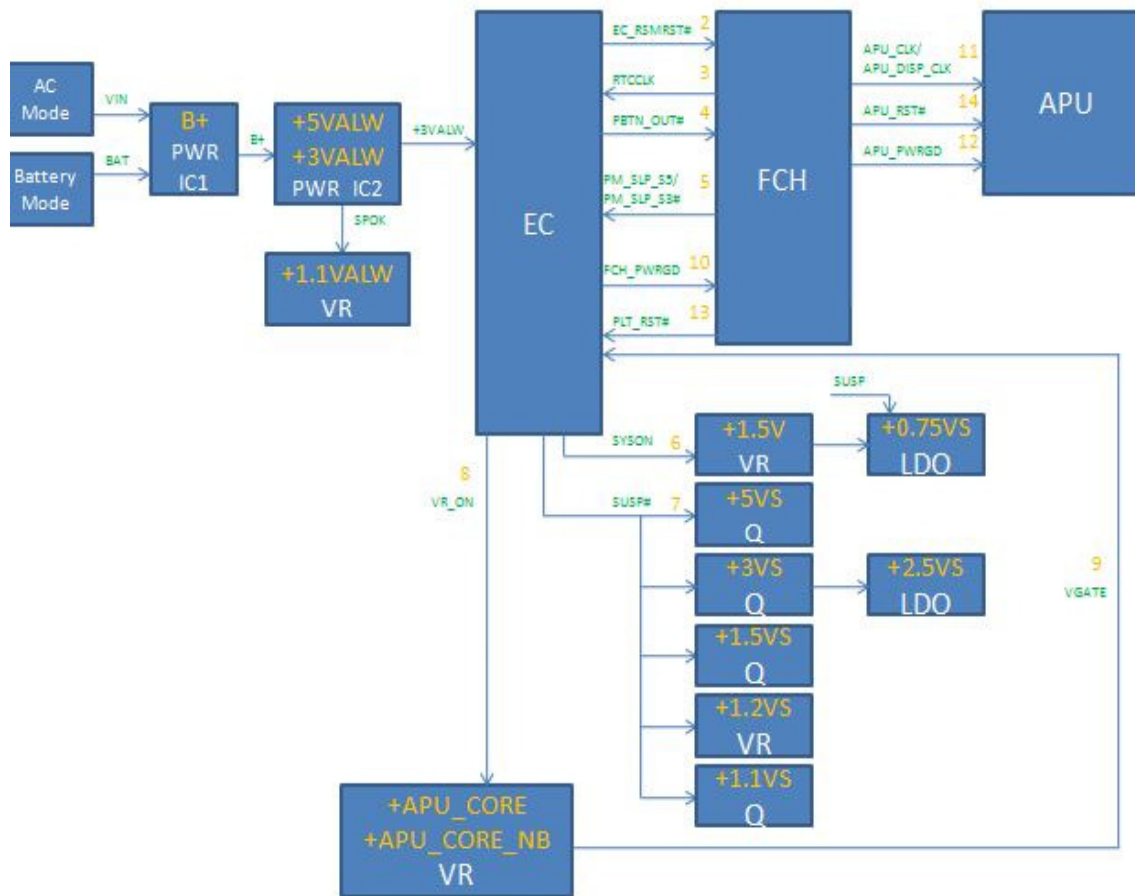
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VAUS5 HW PIR List

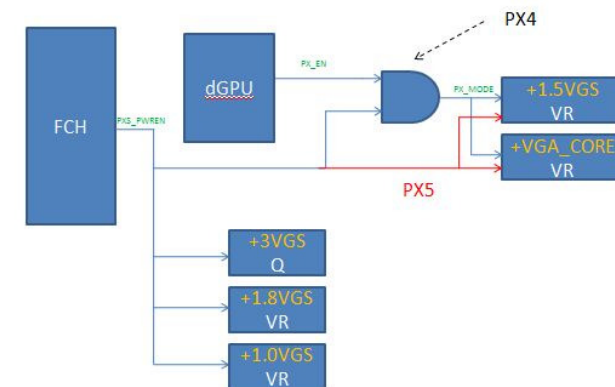
SIV TO SIT

NO	DATE	PAGE	MODIFICATION LIST	PURPOSE	NOTE
1	5/11	16	Change Q64 from SB00000E010 to SB00000DH00	For BOM reduce	
2	5/11	23	Reserve R1466	For factory requirement to prevent DISPOFF# damage	
3	5/11	25	Add BOM structure SSD@ for SSD function	For BOM option	
4	5/14	24	Reserve ESD component D1,D2 for HDMI signal	For HDMI hot-plug protection	
5	5/21	7 13 25 26 30	0402 R-Shot modify R24, R160, R161, R158, R163, R171, R169, R166, R1491, R1492 0603 R-Shot modify R157, R164, R170, R172, R168, R159, R1529, L35, L36 0805 R-Shot modify R162, R165, R1531	For BOM reduce	
6	5/21	31	Change R1564 from 18K to 8.2K	For Board ID change	
7	5/22	7	Change back R24 from R-shot to 0ohm		
8	5/22	24	Reserve ESD component D69 for HDMI SMBus	For APU damage when HDMI hot-plug	
9	5/24	25	Reserve R1493	For Intel 2230 WLAN Card Support	
10	5/24	20	Add VRAM Samsung 1G K4W2G1646E-BC11 strap setting	For customer request	
11	5/24	24	Un-mount D1, D2		
12	5/24	12	Change back R1610, R1611 footprint to 0ohm		
13	5/25	30	Add C83, C84 for DMIC noise issue	For EMI request	
14	5/25	27	Change DL2 PN to SCV00001D00	For customer request	
15	5/25	10 25	Add BT_OFF# for other BT combo card	For customer request	
16	5/29	26	Un-mount C1197. C1198 and mount C1200,C1203	For LAN power trace rounting	
17	5/29	7	Change Q3,Q4 PN from SB501110010 to SB501380050	For PUR request	
18	5/29	30	Change R1530 PN from SM01000D100 to SM010005X00	For PUR request	
19	5/31	23 25 32 33	Change C8244,C8245,C8246,C8247,C8248 and C8249 from 10p to 15p	For AMD suggest	

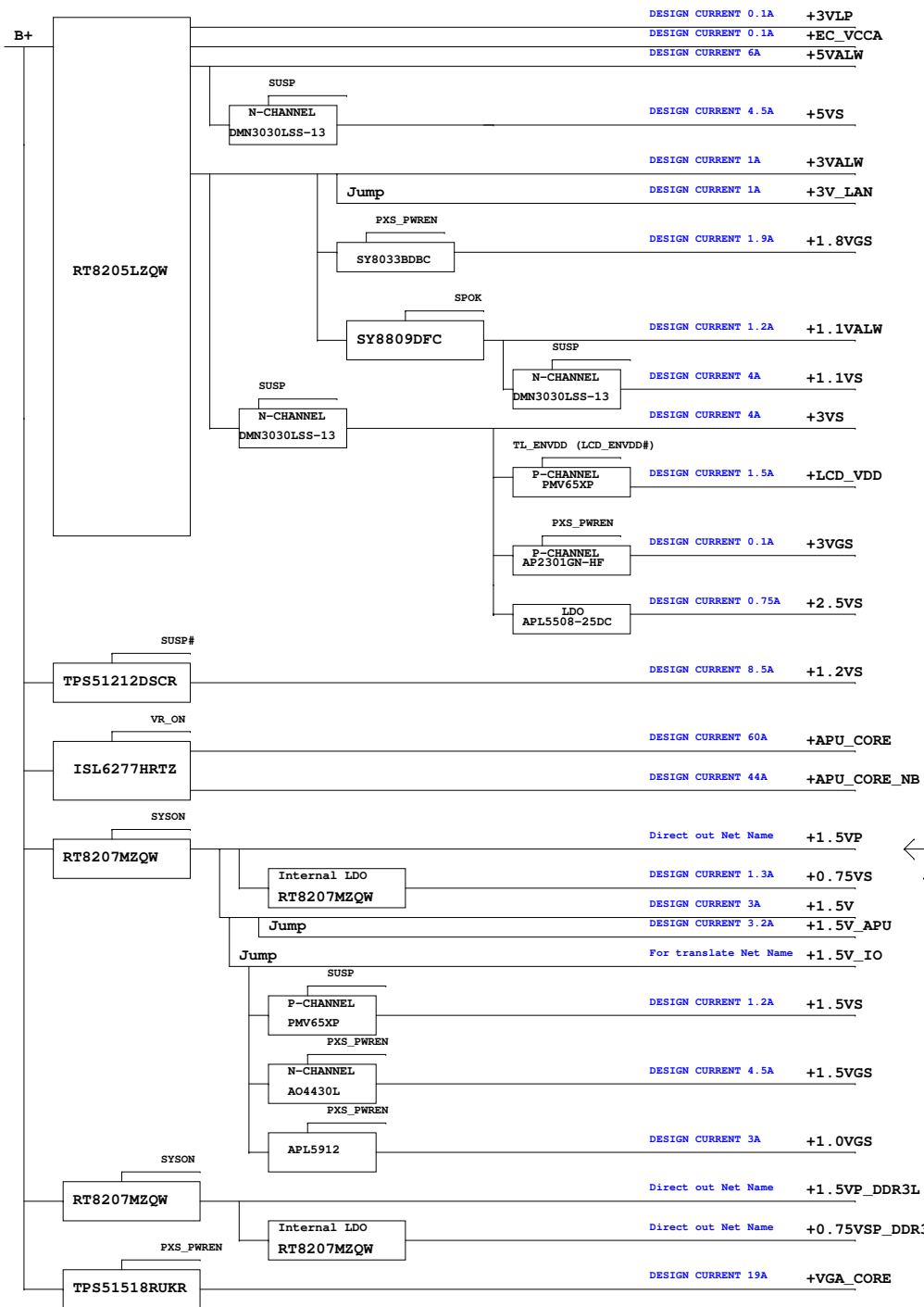
SYSTEM



VGA



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Date:	Friday, May 25, 2012	Sheet	48	of	50



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				Power Map				
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				VAUSS LA9001P M/B				
				Date: Friday, May 25, 2012			Sheet	49 of 50

S5 - S0 -S5

