**MODEL NAME: VAW00** 

PROJECT CODE: ANRVAW0000 PCB NO: LA-9104P (Thames XT)

DA60000VV00 LA-9104P M/B

DA40001FO00 LS-9101P POWER BUTTON/B

DA40001FP00 LS-9102P USB/B

DA40001FQ00 LS-9103P TP BUTTON/B





# **Dell / Compal Confidential**

# **Schematic Document**

Intel Chief River

Ivy Bridge (BGA) + Panther Point
OAK 15" UMA/DIS AMD Thames XT

2012-08-22

Rev: 1.0

46@: for 46 level

@: Nopop Component

**CONN@: Connector Component** 

KB9012@: ENE KB9012 Implemented

UMA@: Only for UMA EMC@: EMI/ESD parts

GCLK@: Green CLK implemented GCLKUMA@: Green CLK for UMA

GCLKDIS@: Green CLK for DIS XTAL@: X'tal implemented

XTALDIS@: X'tal with DIS implemented

R1@: R1 P/N i3R1@: CPU i3-3217 1.8G

R3@: R3 P/N

i3VOSR1@: CPU i3-2365 1.4G i5R1@: CPU i5-3317 1.7G

i7R1@: CPU i7-3517 1.9G

**CELR1@: CPU Celeron 887 1.5G** 

PENR1@: CPU Pentium 997 1.6G

DIS@: Only for Discrete

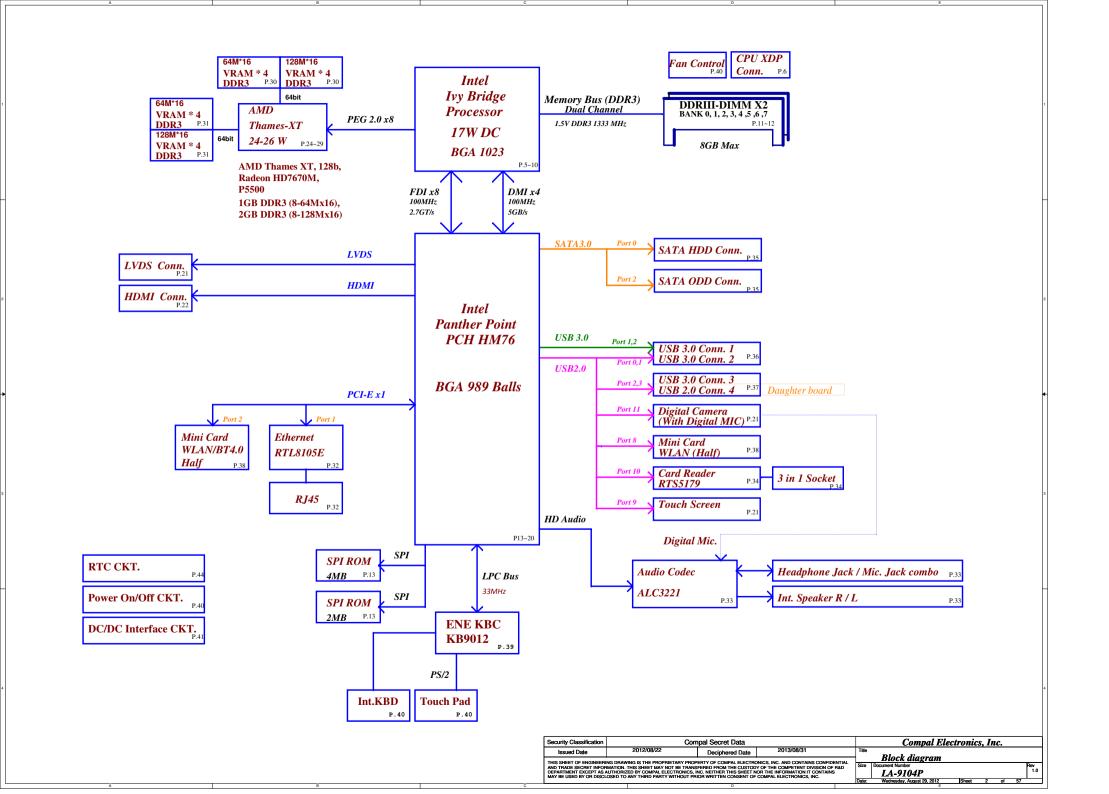
TH@/THR1@: Thames-XT

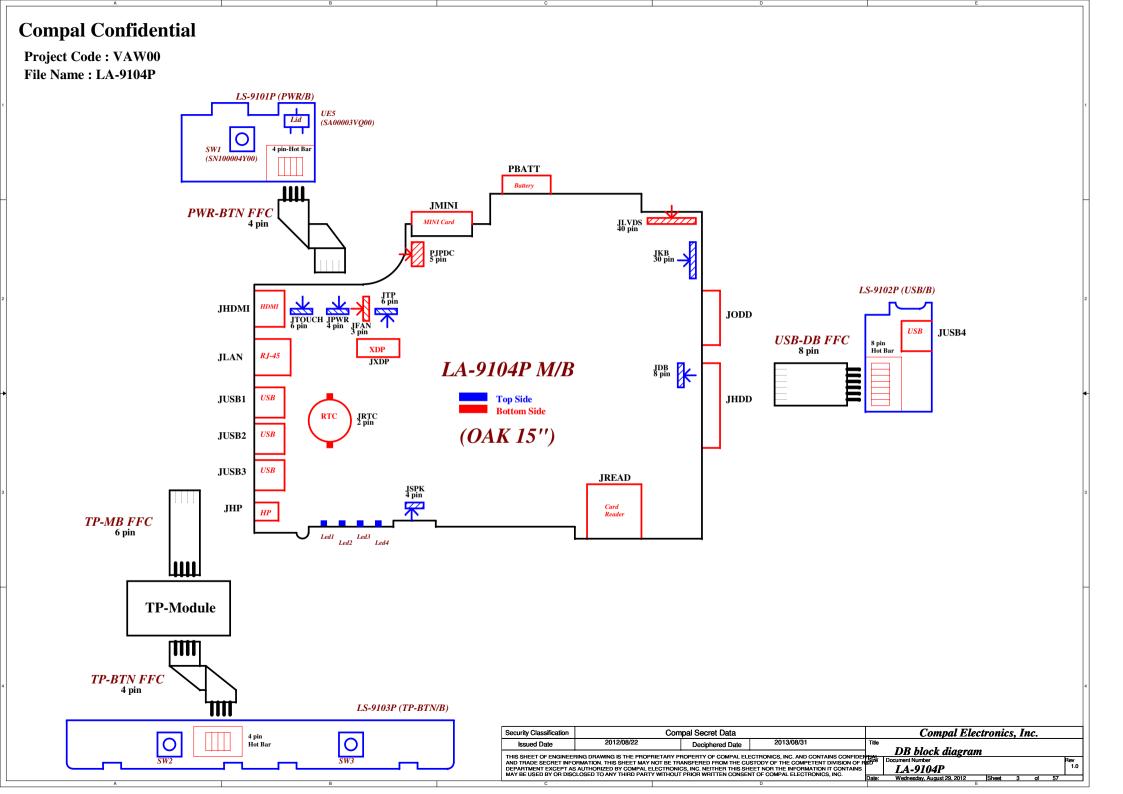
MS@/MSR1@: Mars Pro

X76@:

**SPI-ROM & VRAM Group** 

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# **Board ID Table for AD channel**

		_			
Vcc	3.3V +/- 5%				
Ra	100K +/- 5%				
Board ID	Rb	$V_{AD\_BID}$ min	V <sub>AD_BID</sub> typ	$V_{AD\_BID}$ max	EC AD3
0	0	0 V	0 V	0.155 V	0x00-0x0C
1	8.2K +/- 5%	0.168 V	0.250 V	0.362 V	0x0D-0x1C
2	18K +/- 5%	0.375 V	0.503 V	0.621 V	0x1D-0x30
3	33K +/- 5%	0.634 V	0.819 V	0.945 V	0x31-0x49
4	56K +/- 5%	0.958 V	1.185 V	1.359 V	0x4A-0x69
5	100K +/- 5%	1.372 V	1.650 V	1.838 V	0x6A-0x8E
6	200K +/- 5%	1.851 V	2.200 V	2.420 V	0x8F-0xBB
7	NC	2.433 V	3.300 V	3.300 V	0xBC-0xFF

ROARD	ID Table
DUAND	ID Table

,,	Allb ib Table Titojec						
0	PCB	Revis	ion	ID	P		
0	0.1			0			
L		0.1	0.1	1			
2	0.2			2			
3		0.2	0.2	3			
4	0.3			4			
5		0.3	0.3	5	U		
6	1.0			6	D		
7		1.0	1.0	7	D		

Link

#### **Project ID Table**

ID	Project Revision
0	
1	
2	
3	
4	
5	UMA
6	DIS THAMES
7	DIS MARS PRO

	USB PORT#	DESTINATION
	0	USB conn.2
	1	USB conn.1
	2	USB conn.3
	3	USB conn.4 (DB)
	4	NC
	5	NC
PCH	6	NC
	7	NC
	8	MINI CARD (WLAN)
	9	Touch Screen
	10	Card Reader
	11	Camera
	12	NC
	13	NC

EC_SMB_CK1 EC_SMB_DA1	КВ90

SMBUS Control Table

	SOURCE	MINI1	MINI2	BATT	SODIMM	Express Card	Thermal Sensor	FFS	VGA Thermal Sensor	VGA	XDP	Charger
EC_SMB_CK1 EC_SMB_DA1	KB9012			V								V
EC_SMB_CK2 EC_SMB_DA2	KB9012								V	V		
PCH_SML0CLK PCH_SML0DATA	PCH											
PCH_SML1CLK PCH_SML1DATA	PCH											
MEM_SMBCLK MEM_SMBDATA	РСН	V	V		V	V		V			V	

	DIFFERENTIAL	DESTINATION
	CLKOUT_PCIE0	10/100 LAN
	CLKOUT_PCIE1	MINI CARD WLAN
	CLKOUT_PCIE2	None
CLK	CLKOUT_PCIE3	None
	CLKOUT_PCIE4	None
	CLKOUT_PCIE5	None
	CLKOUT_PCIE6	None
	CLKOUT_PCIE7	None
	CLKOUT_PEG_B	None

CLKOUT	DESTINATION
PCI0	PCH_LOOPBACK
PCI1	EC LPC
PCI2	None
PCI3	None
PCI4	None

**DESTINATION** 

None

None

None

None

**FLEX CLOCKS** 

**CLKOUTFLEX0** 

**CLKOUTFLEX1** 

**CLKOUTFLEX2** 

**CLKOUTFLEX3** 

SATA	DESTINATION
SATA0	HDD
SATA1	None
SATA2	ODD
SATA3	None
SATA4	None
SATA5	None

PCI EXPRESS	DESTINATION
Lane 1	10/100 LAN
Lane 2	MINI CARD (WLAN)
Lane 3	None
Lane 4	None
Lane 5	None
Lane 6	None
Lane 7	None
Lane 8	None

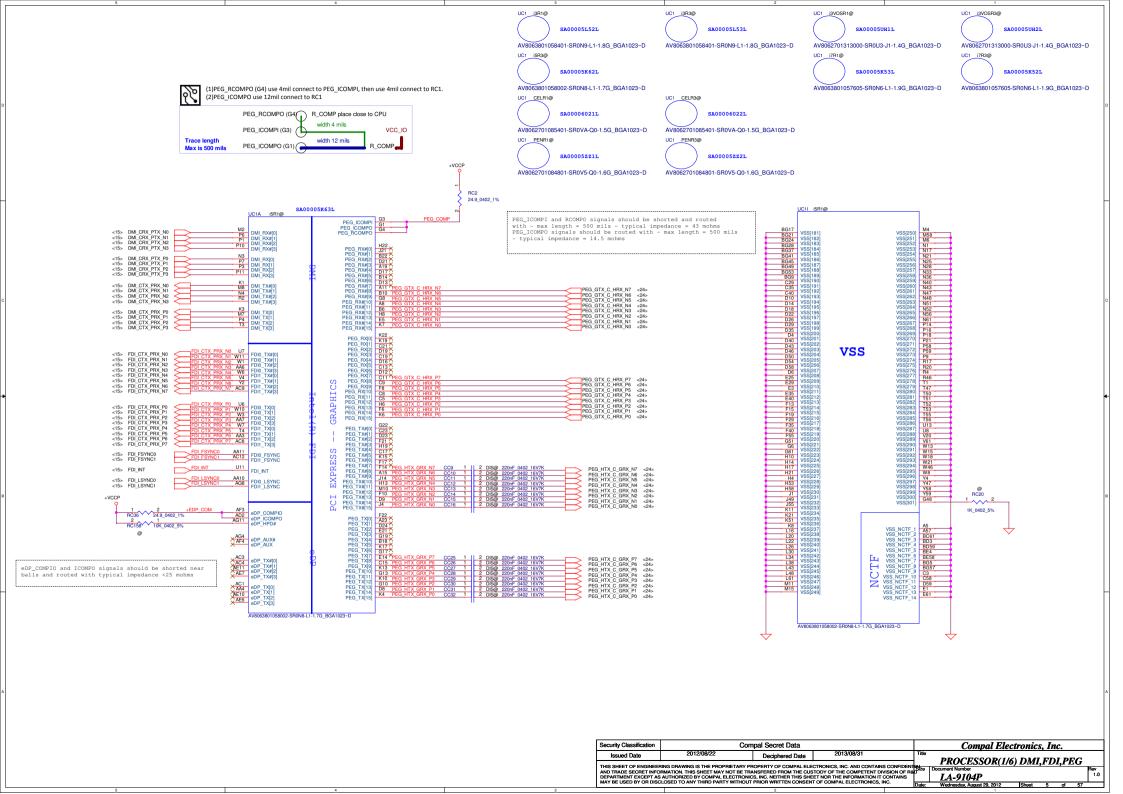
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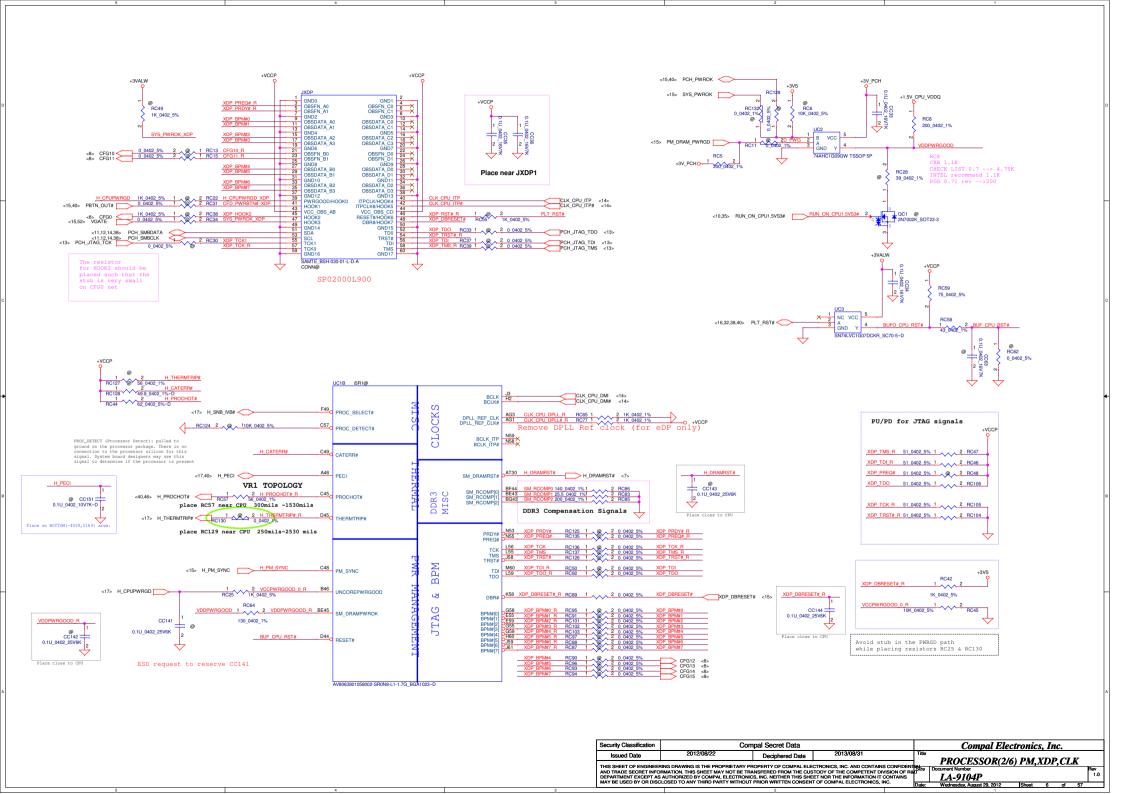


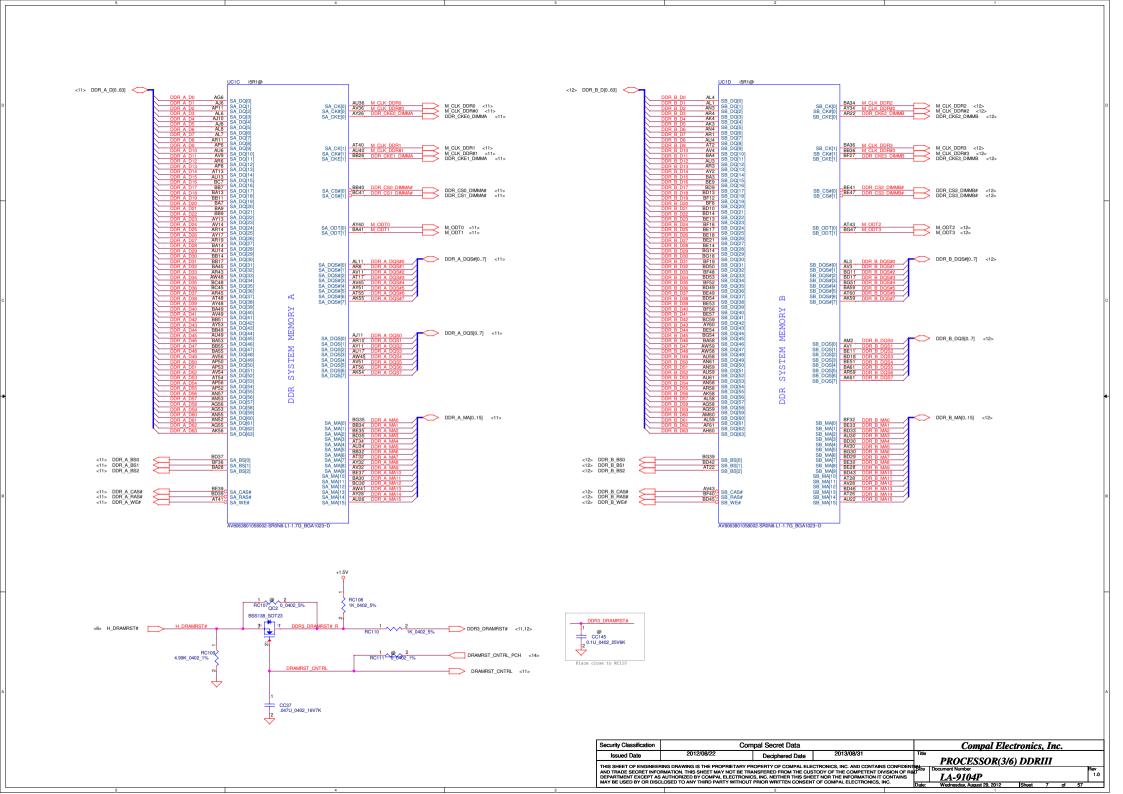
: means Digital Ground

: means Analog Ground

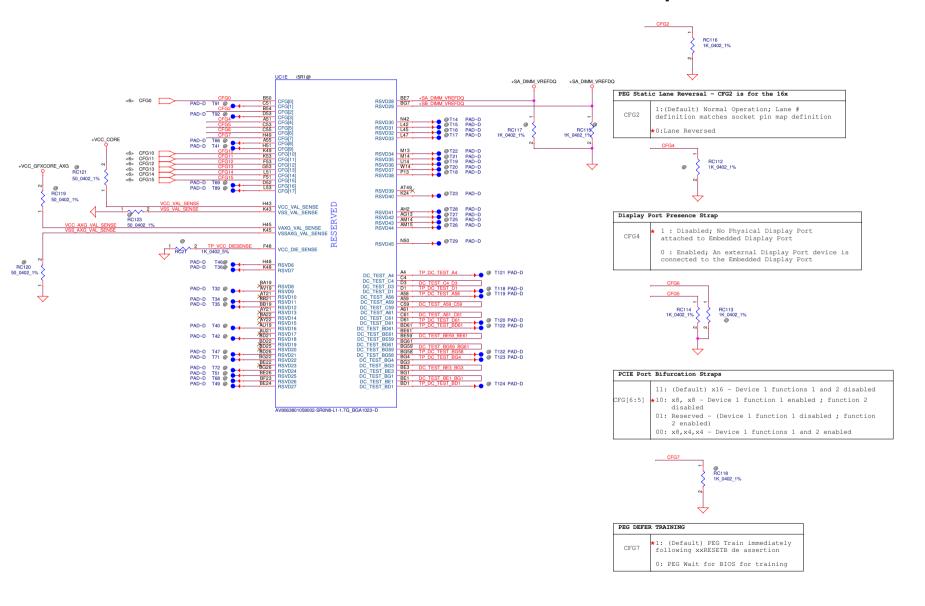
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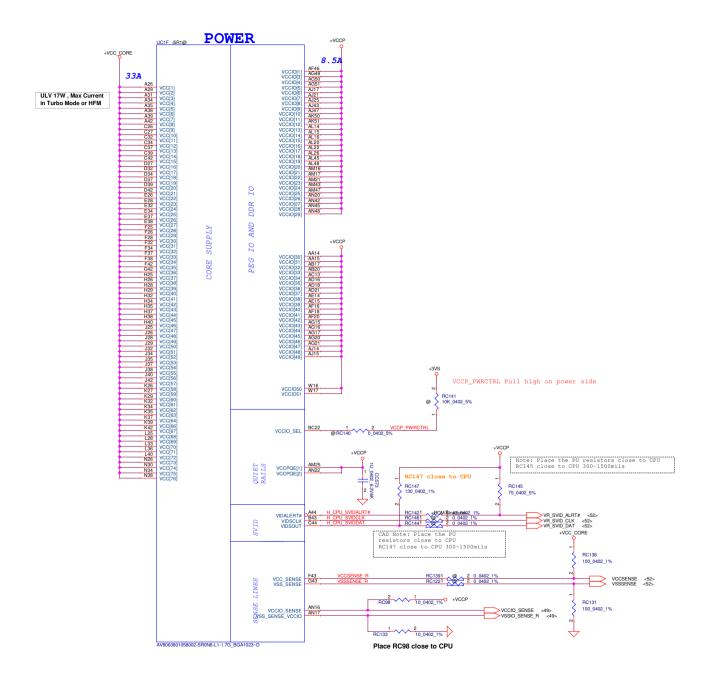




#### CFG Straps for Processor



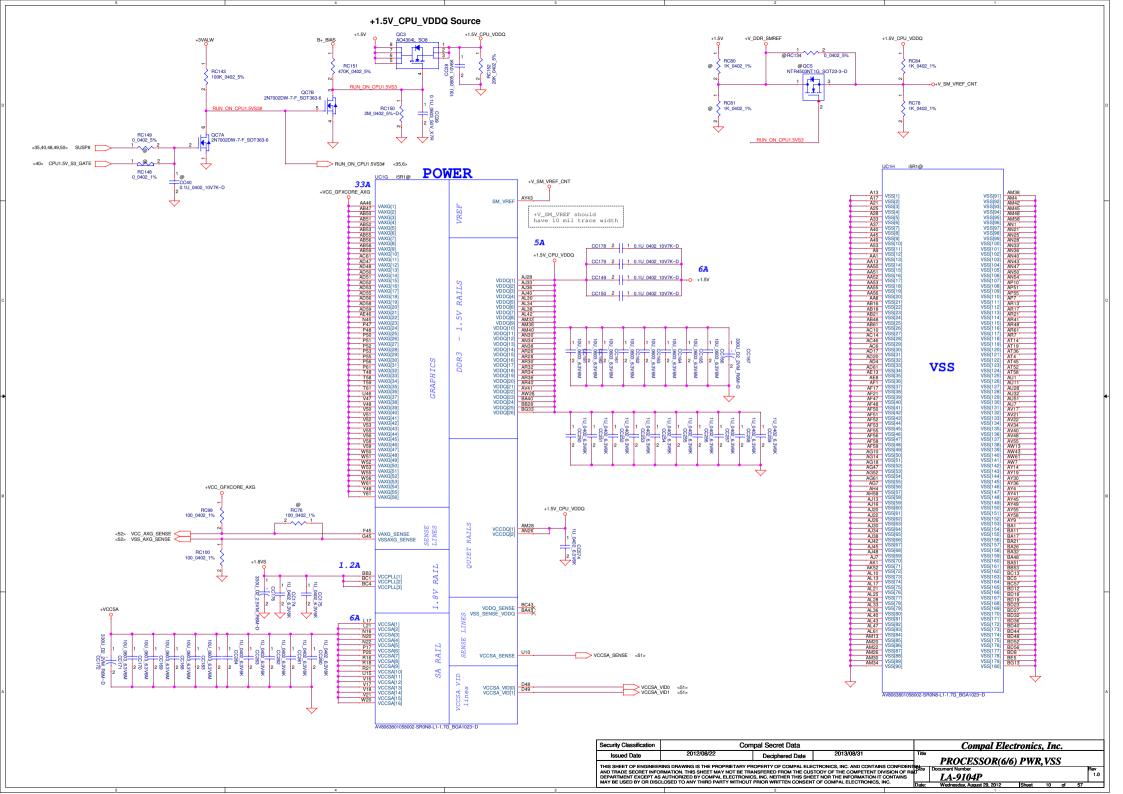
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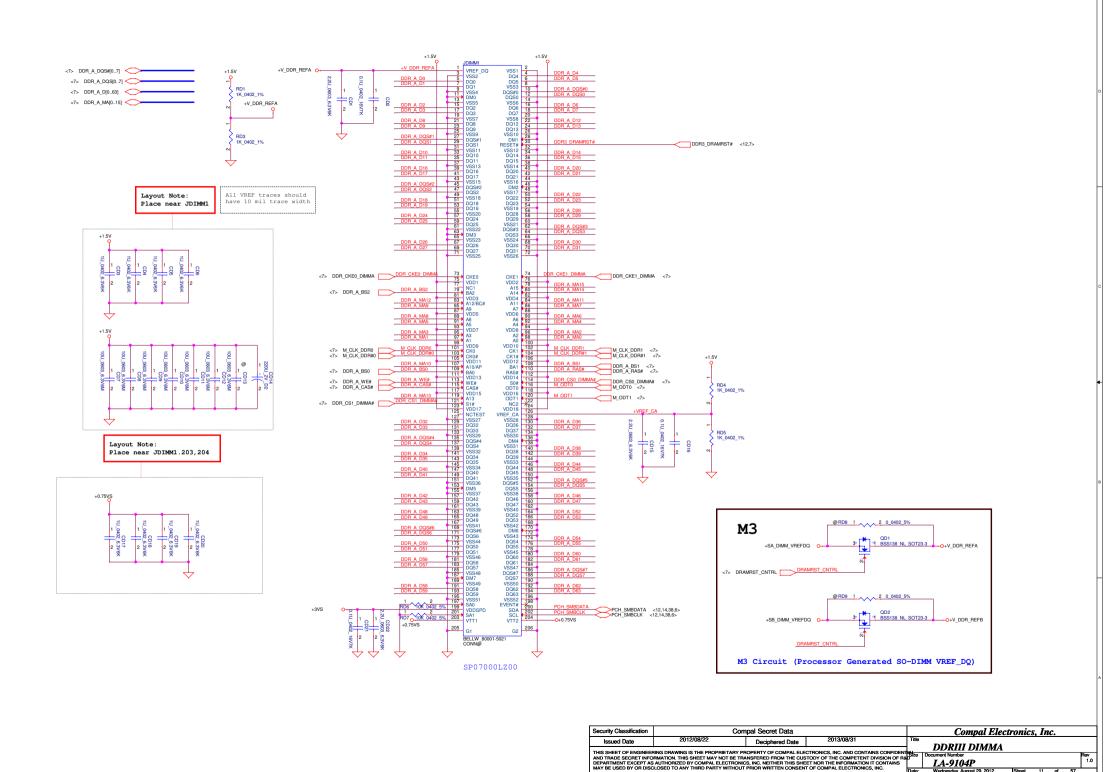


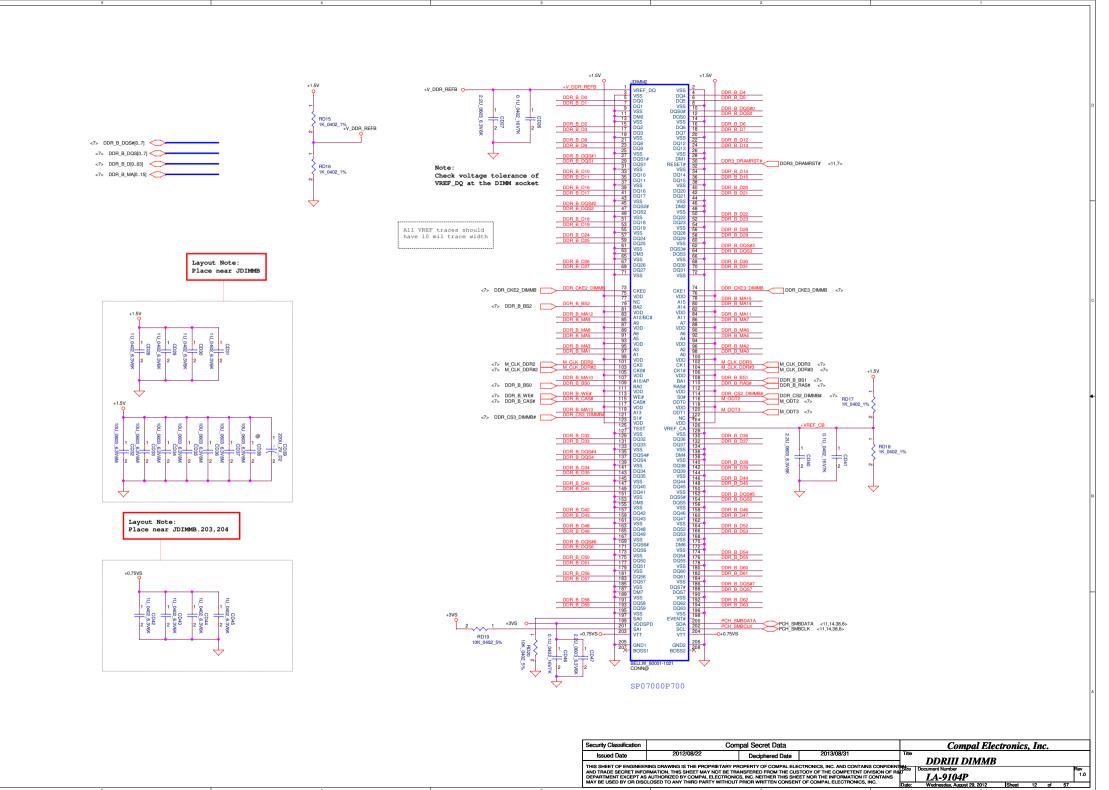
CPU Power Rail Table									
Voltage Rail	Voltage	S0 Iccmax Current (A)							
vcc	0.65-1.3	53							
VCCIO	1.05/1	8.5							
VAXG	0.0-1.1	33							
VCCPLL	1.8	1.2							
VDDQ	1.5	5							
VCCSA	0.65-0.9	6							
+1.5V_MEM	1.5	12-16 *							

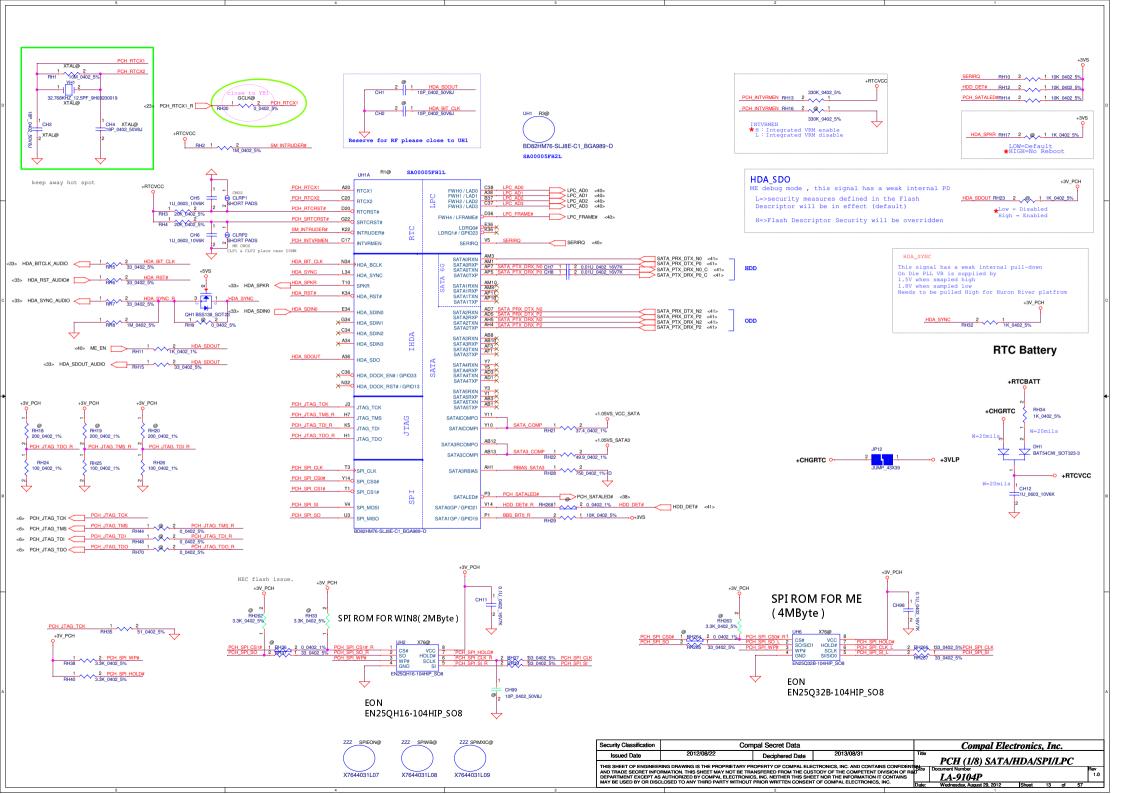
5A to Mem controller(+1.5V\_CPU\_VDDQ) 5-6A to 2 DIMMs/channel 2-5A to +1.5V\_RUN & +0.75V\_DDR\_VTT

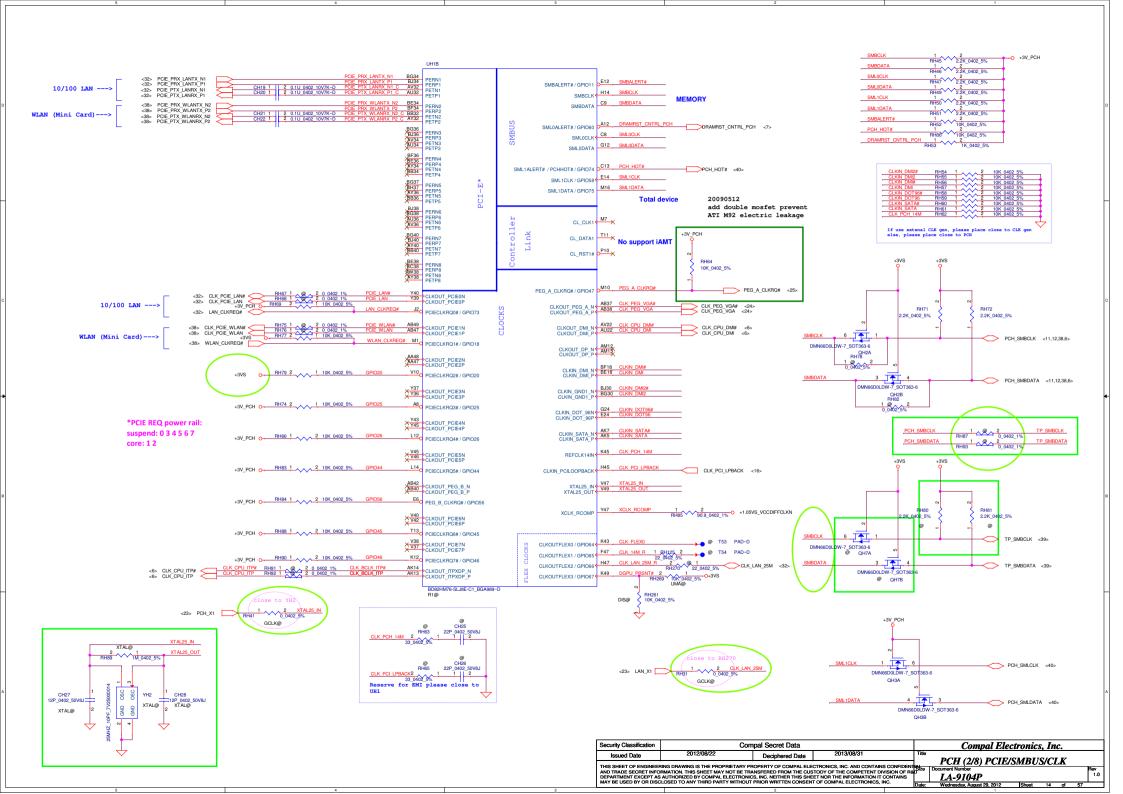
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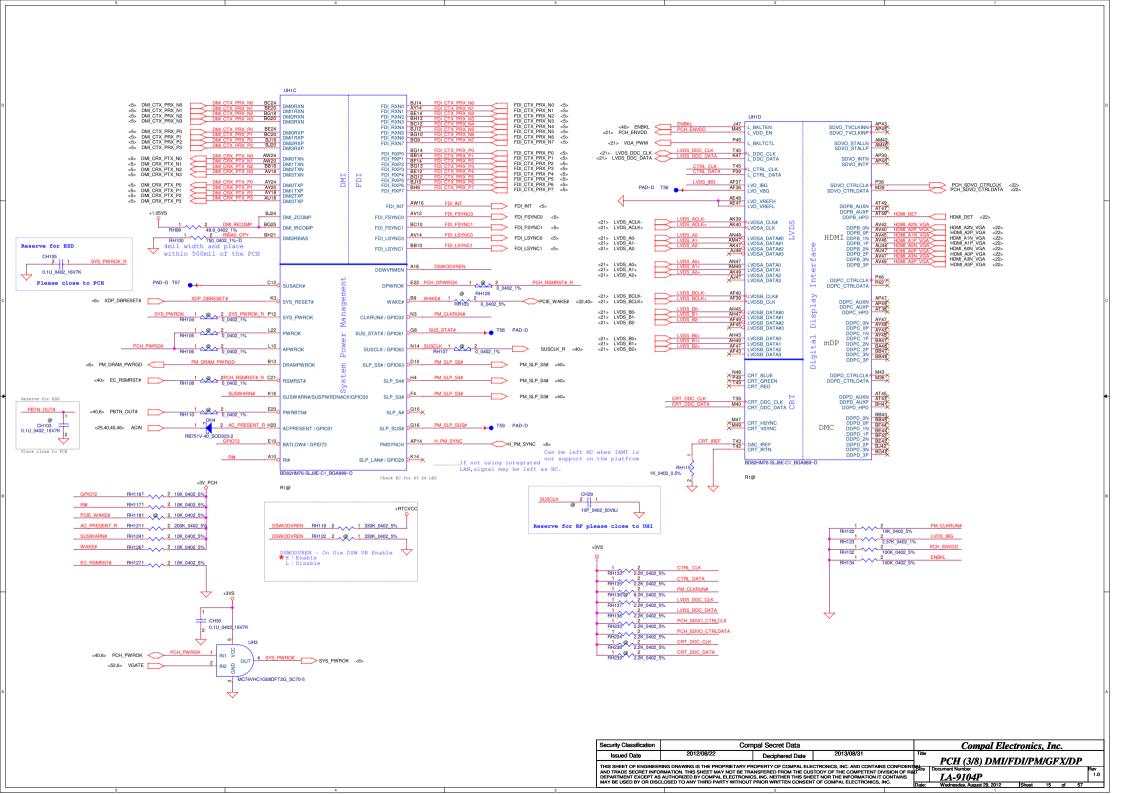


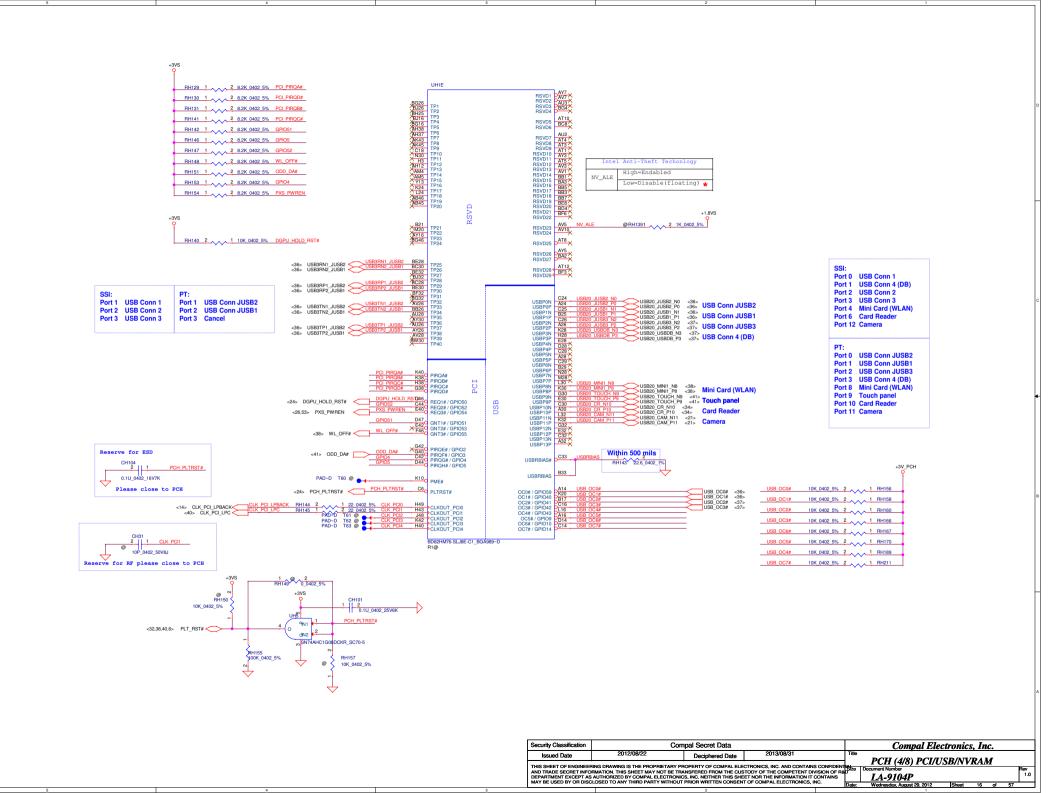


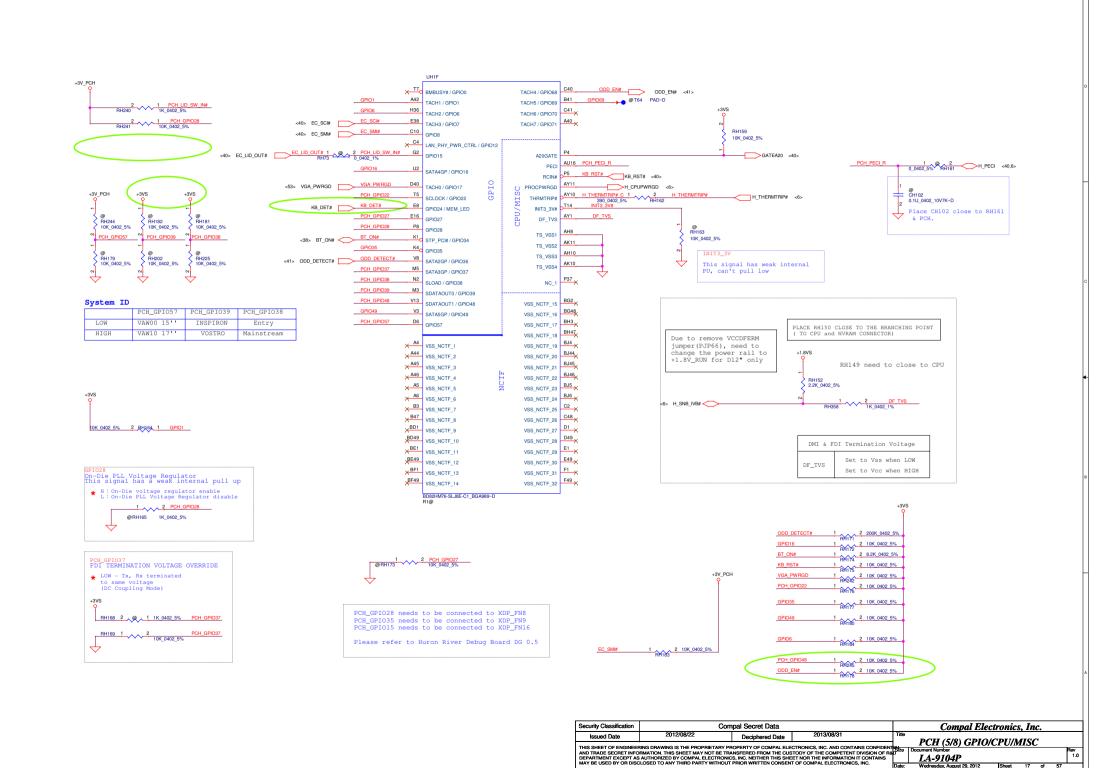


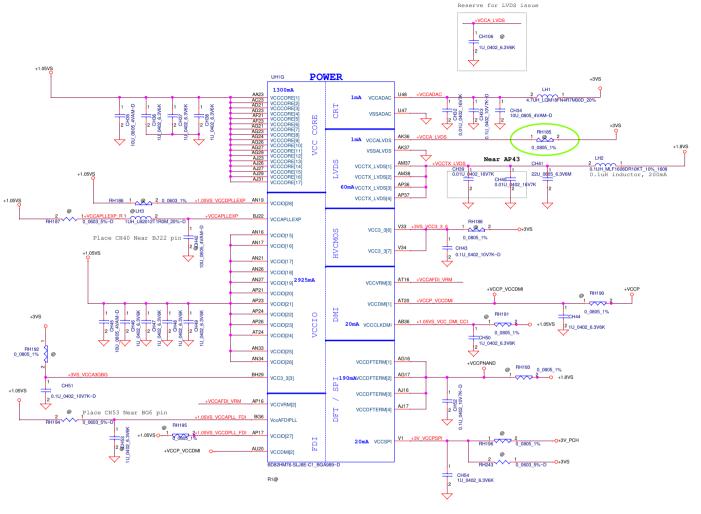








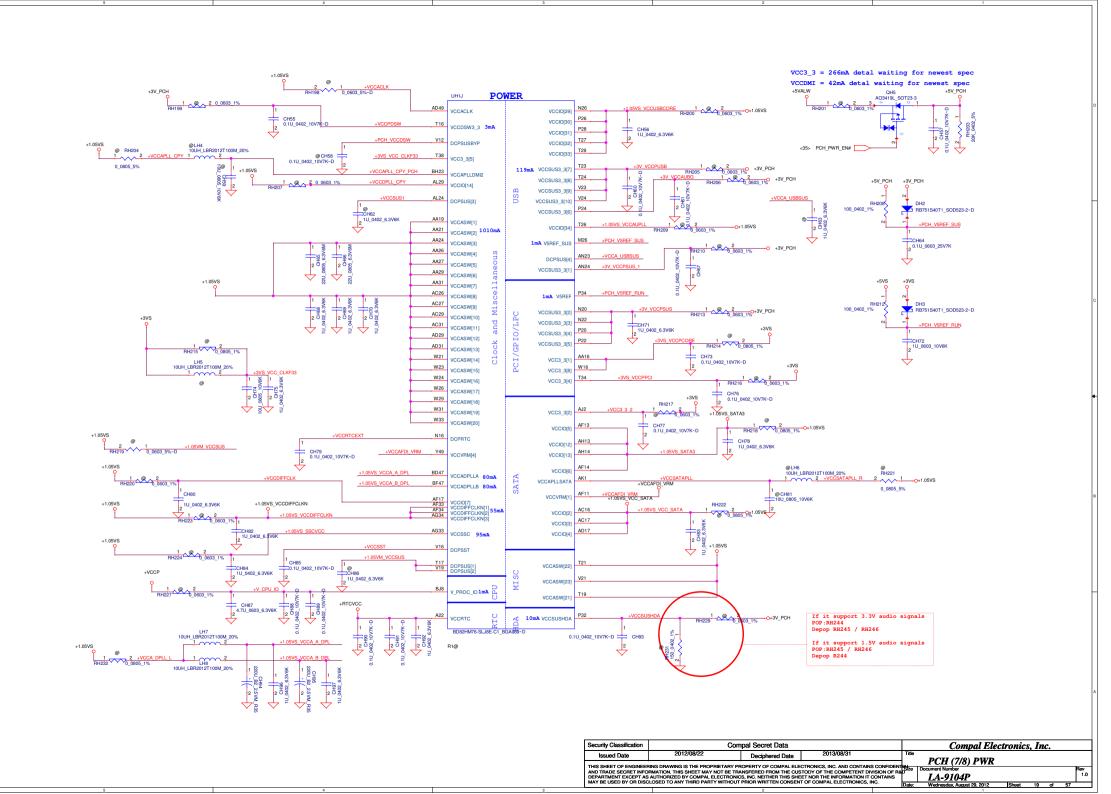




PCH Power Rail Table									
Voltage Rail	Voltage	Current (A							
V_PROC_IO	1.05	0.001							
V5REF	5	0.001							
V5REF_Sus	5	0.001							
Vcc3_3	3.3	0.266							
VccADAC	3.3	0.001							
VccADPLLA	1.05	0.08							
VccADPLLB	1.05	0.08							
VccCore	1.05	1.3							
VccDMI	1.05	0.042							
VccIO	1.05	2.925							
VccASW	1.05	1.01							
VccSPI	3.3	0.02							
VccDSW	3.3	0.003							
VccpNAND	1.8	0.19							
VccRTC	3.3	6 uA							
VccSus3_3	3.3	0.119							
VccSusHDA	3.3 / 1.5	0.01							
VccVRM	1.8 / 1.5	0.16							
VccCLKDMI	1.05	0.02							
VccSSC	1.05	0.095							
VccDIFFCLKN	1.05	0.055							
VccALVDS	3.3	0.001							
VccTX_LVDS	1.8	0.06							

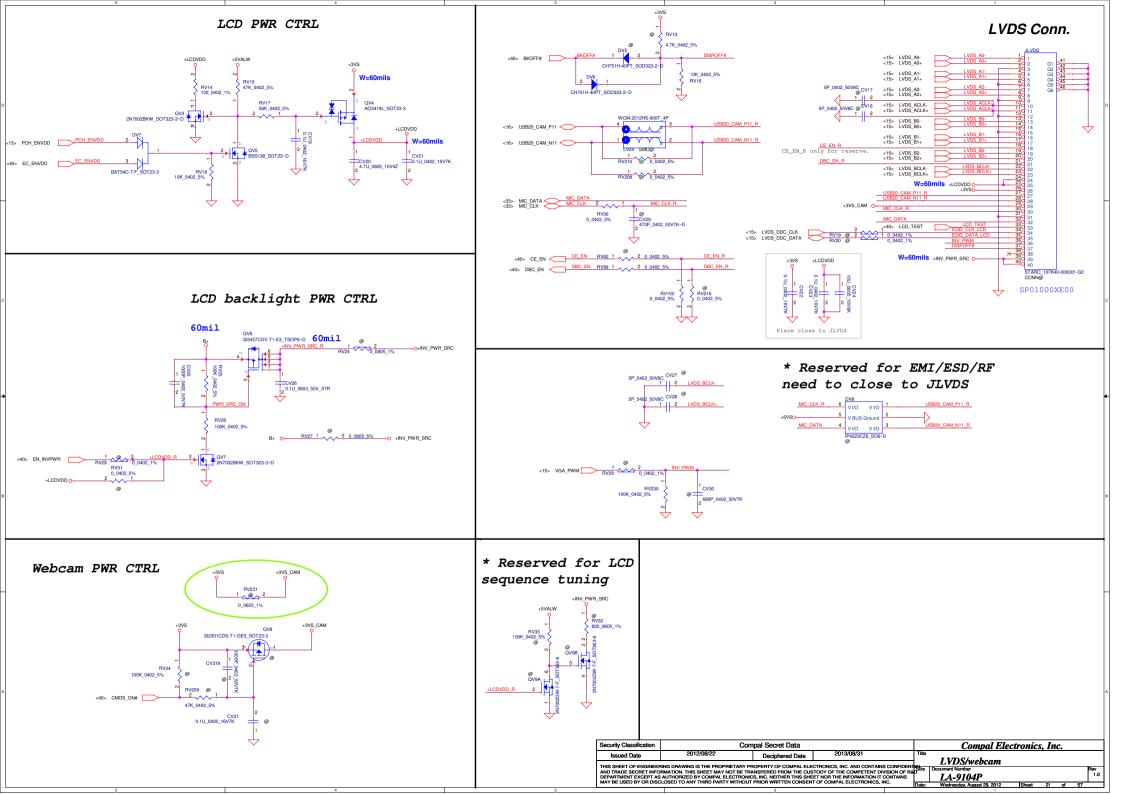
+1.5VS		+VCCAFDI_VRM
Ŷ	@ RH197 2 +VCCAFDI_VRM	Î
	0_0603_1%	1
		CH100 1U_0402_6.3V6K 2

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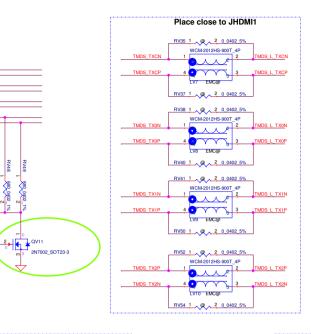


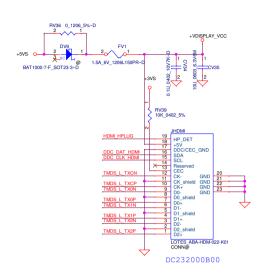


TMDS L\_TXCN CV349 1 2 3.3P 0402 50V8C-D

TMDS L\_TXCP CV350 1 2 3.3P\_0402\_50V8C~D

TMDS\_L\_TX1N CV353 1





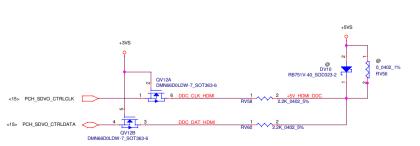


0\_0402\_1%

RV51 @ RV53

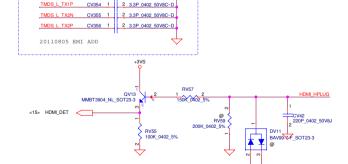
100K\_0402\_5%

1 000 3



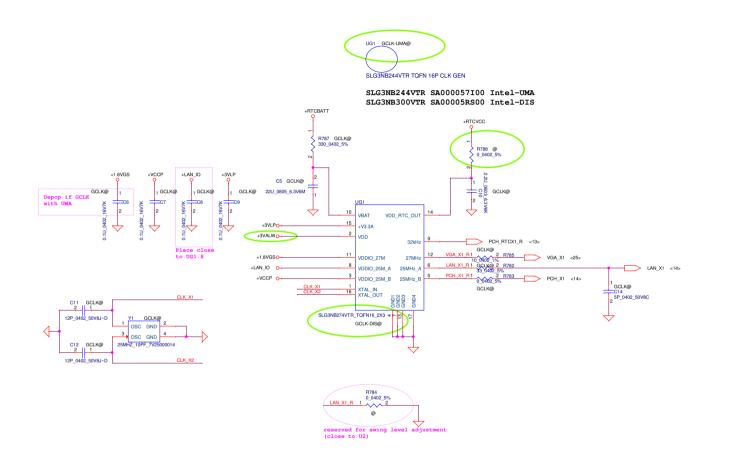
CV32 2 1 0.1U 0402 10V7K~D TMDS TXCN CV33 2 1 0.1U 0402 10V7K~D TMDS TXCP

CV40 2 1 0.1U 0402 10V7K-D TMDS TX2N CV41 2 1 0.1U 0402 10V7K-D TMDS TX2F



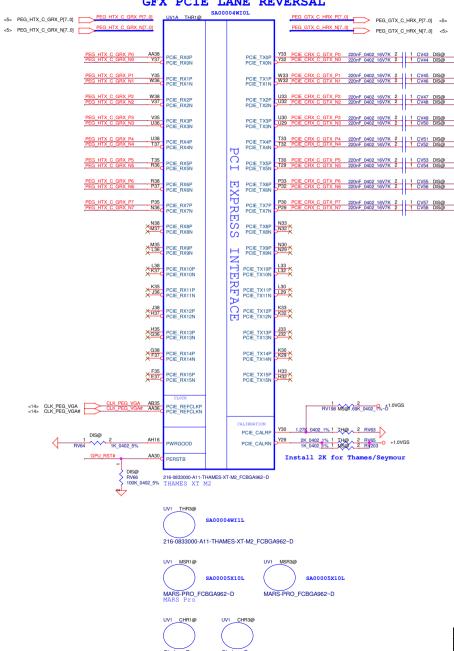
46@	ROYALTY HDMI W/LOGO
Part Number	Description
R00000002HM	HDMI W/Logo:RO0000002HM

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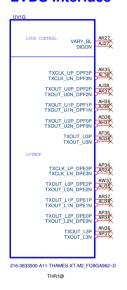


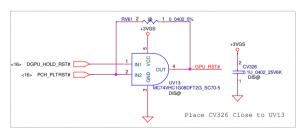
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#### GFX PCIE LANE REVERSAL

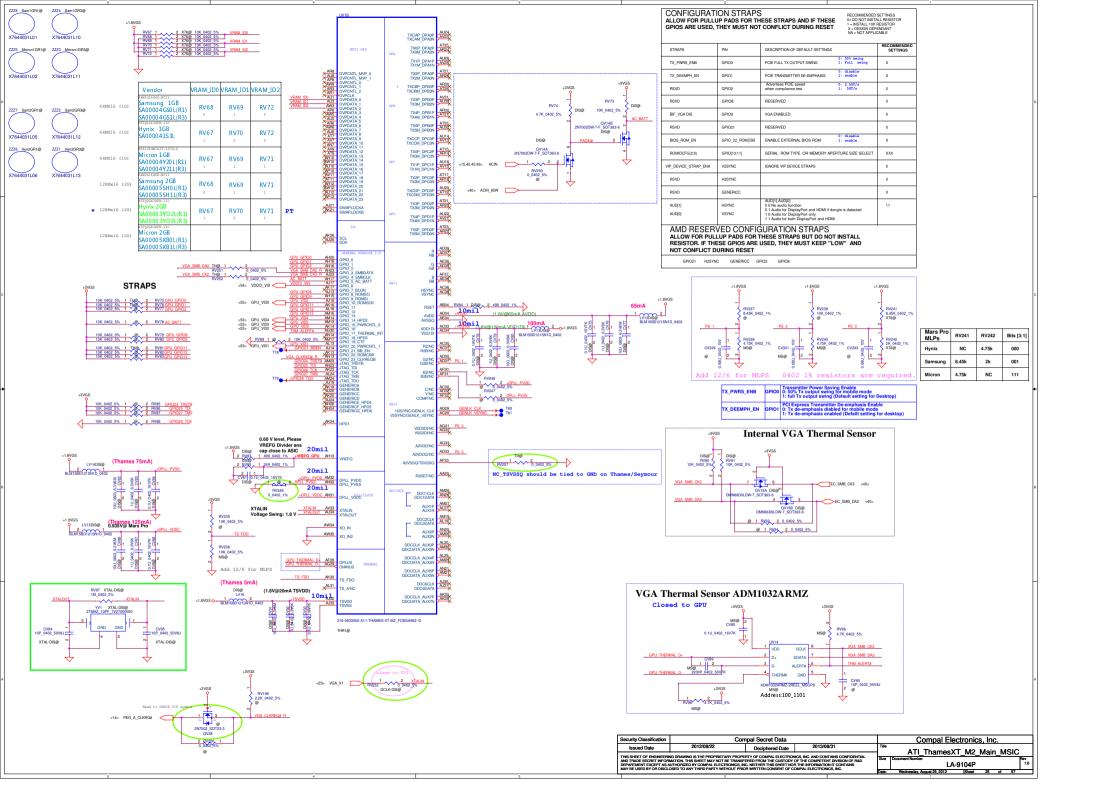


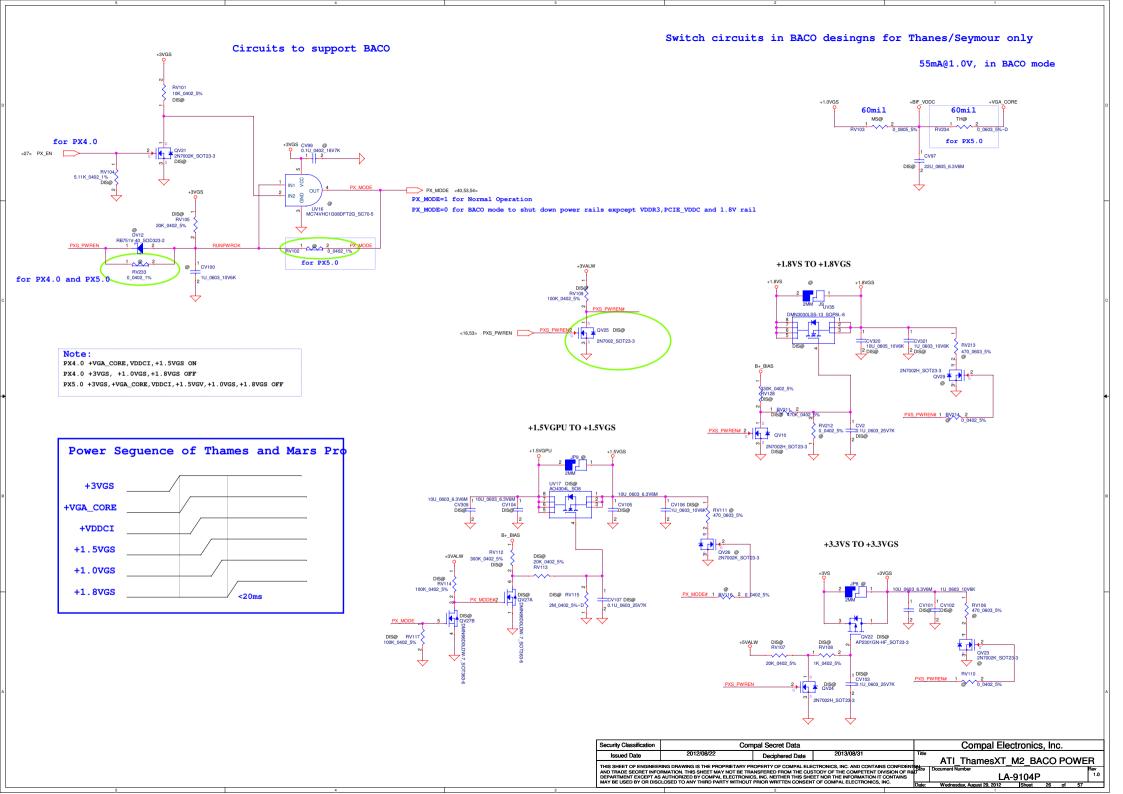
### **LVDS** Interface

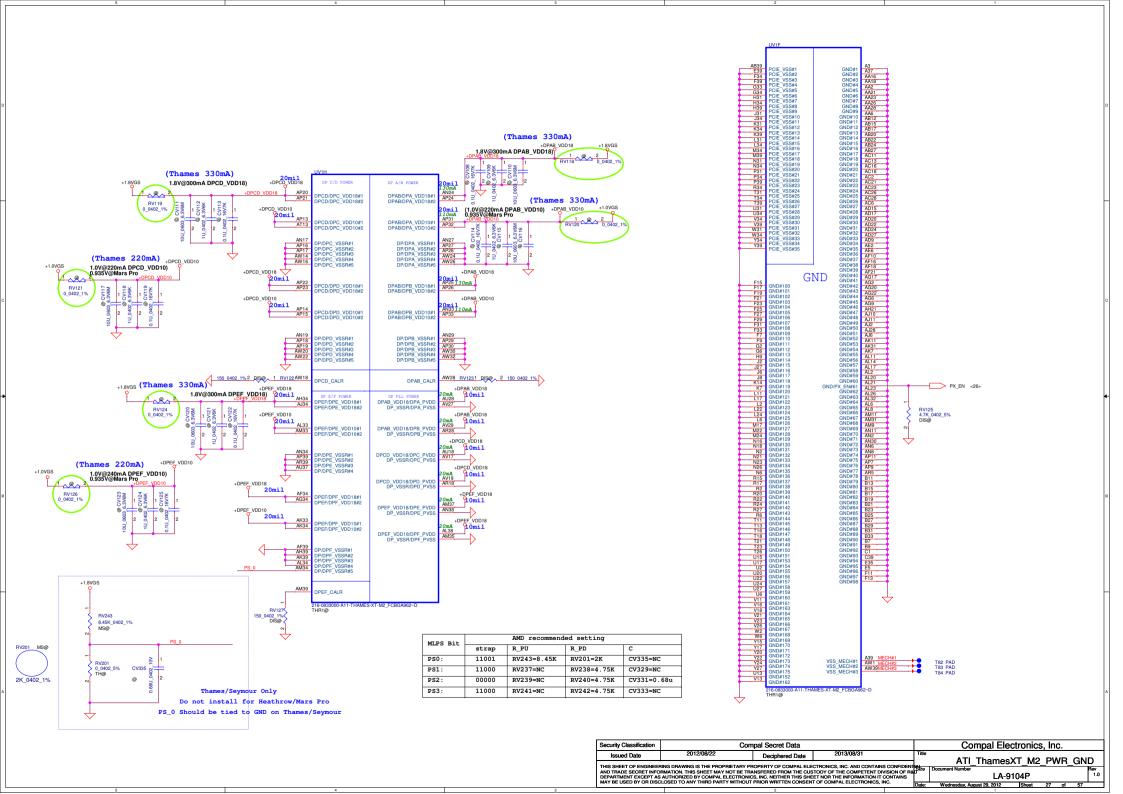


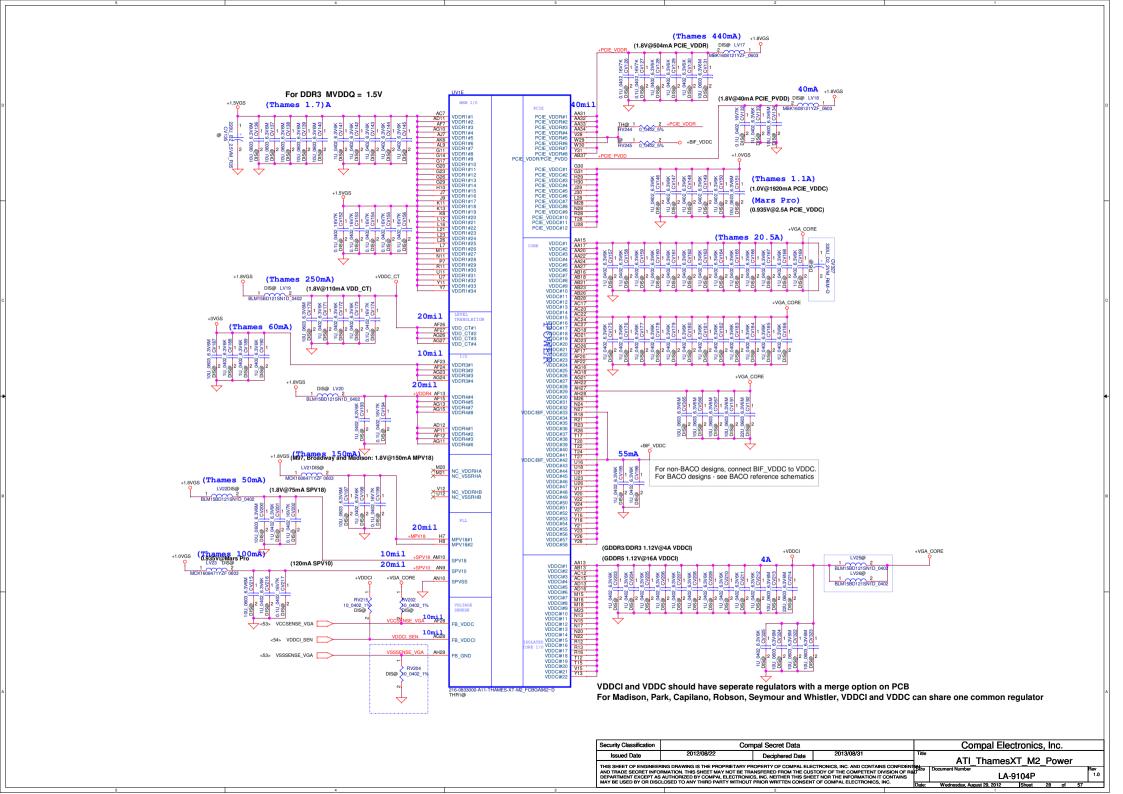


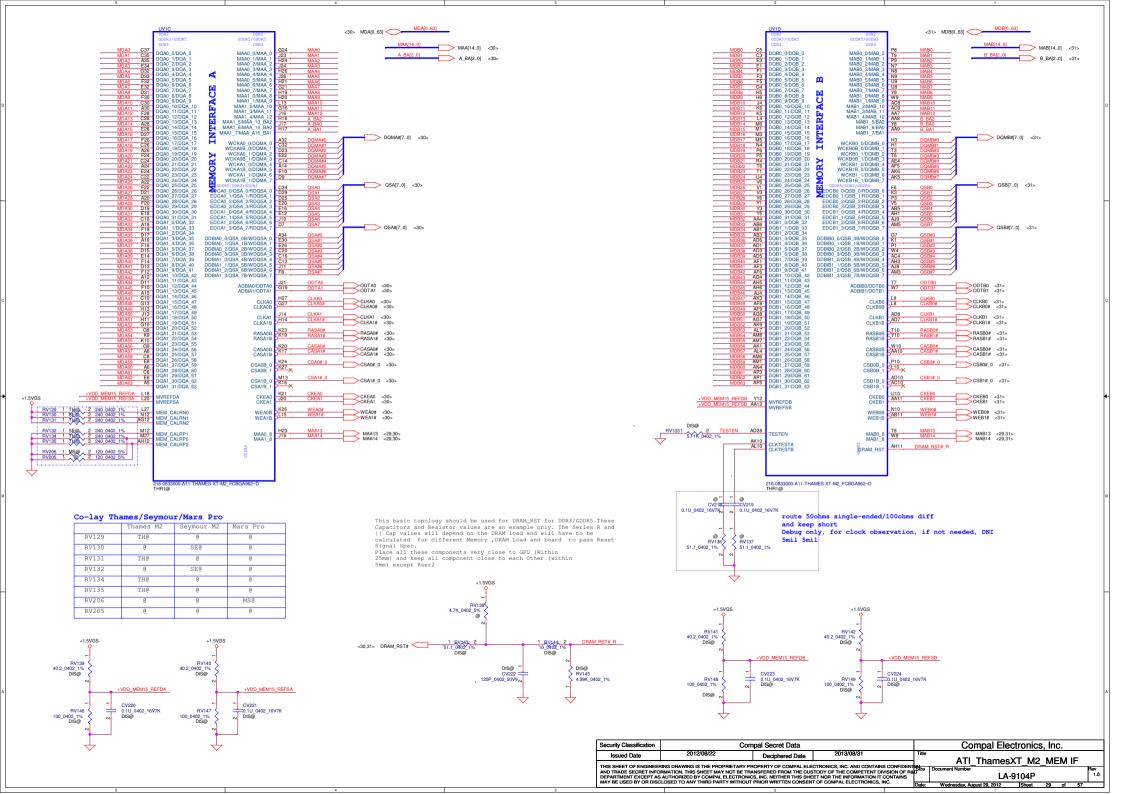
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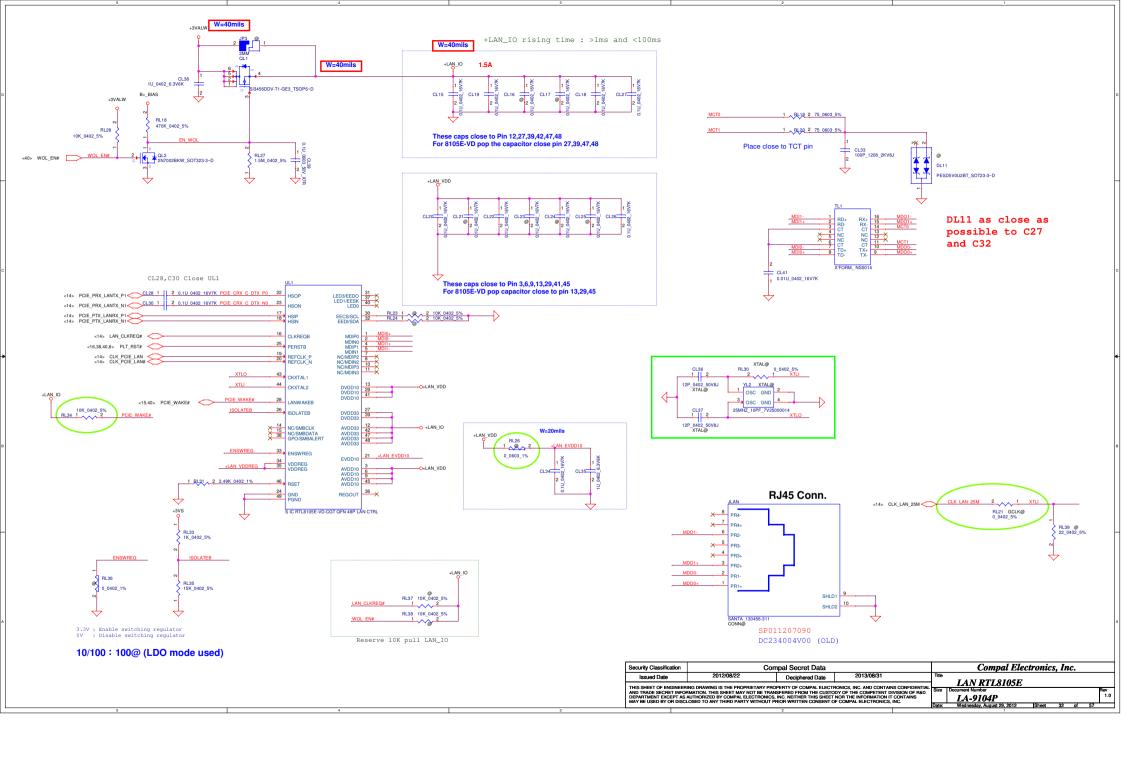


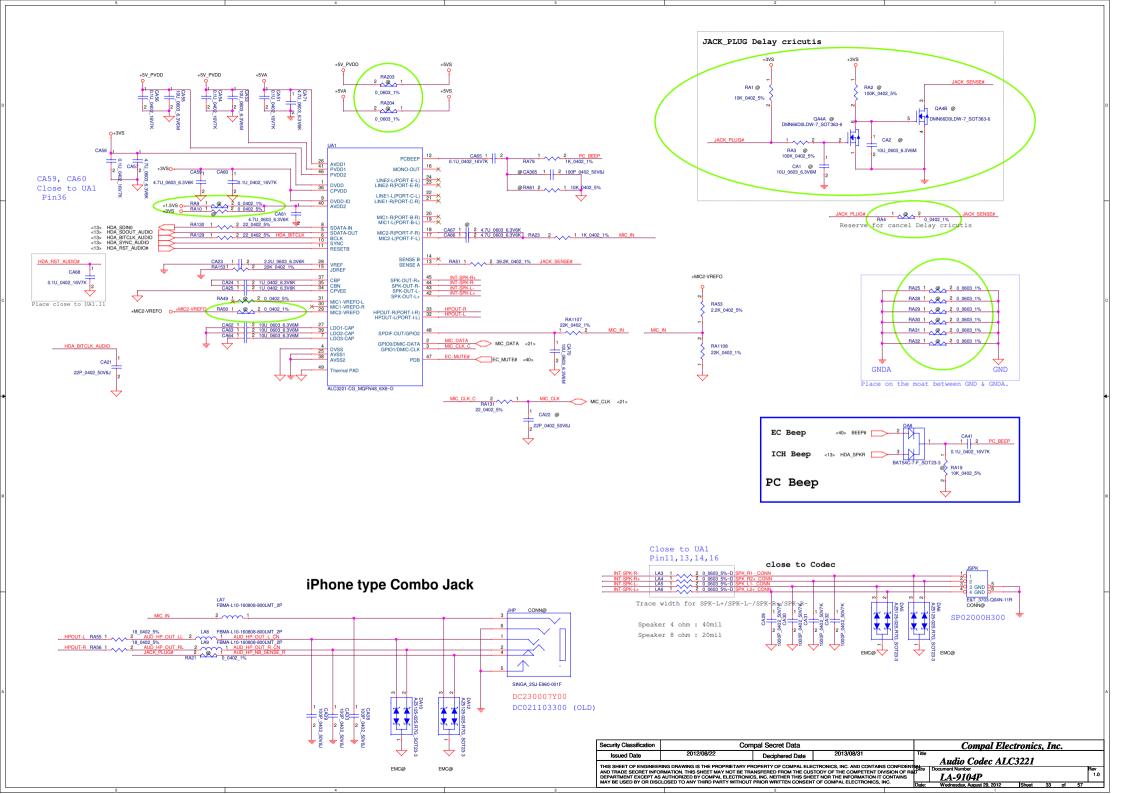


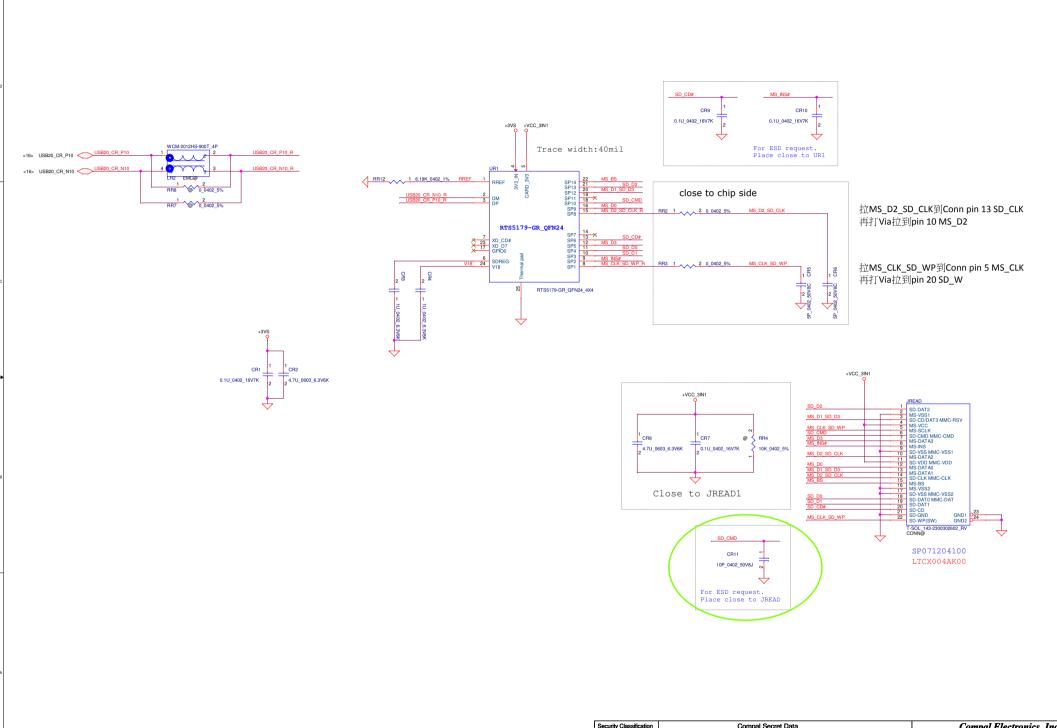


#### CHANNEL A: 256MB/512MB DDR3 DQL0 DQL1 DQL2 DQL3 DQL4 DQL5 DQL6 DQL6 DQL0 DQL1 DQL2 DQL3 DQL4 DQL5 DQL6 DQL6 DQL0 DQL1 DQL3 DQL4 DQL5 DQL5 DQL0 DQL1 DQL3 DQL3 DQL4 DQL5 DQL6 DQL7 DQU0 DQU1 DQU2 DQU3 DQU3 A7 DQU4 DQU5 DQU5 B8 DQU6 DQU7 DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU6 DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7 <29> MDA[0..63] DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7 <29> MAA[14..0] +1 5VGS +1 5VGS +1 5VGS A\_BA0 A\_BA1 A\_BA2 VDD CLKA1 CLKA1# CKEA1 <29> <29> <29> <29> QSA[7..0] < +1.5VGS +1.5VGS +1.5VGS +1.5VGS ODTA0 CSA0#\_I RASA0# CASA0# WEA0# <29> <29> <29> <29> <29> <29> <29> <29> <29> <29> ODTA1 CSA1#\_ RASA1# CASA1# WEA1# <29> QSA#[7..0] DRAM\_RST# T2 DRAM\_RST# T2 DRAM\_RST# T2 <29,31> DRAM\_RST# BESE1 BESET RESET RESET X L9 X L9 X M7 RV150 RV151 RV152 RV153 240\_0402\_1% OIS@ 240\_0402\_1% OIS@ 240\_0402\_1% OIS@ 240\_0402\_1% OIS@ DIS@ CLKA0 1 2 56\_0402\_1% DIS@ CLKA0# 1 2 RV155 56 0402 1% CV225 =:0.01U\_0402\_16V7K N DIS@ +1.5VGS +1.5VGS +1.5VGS +1.5VGS +1.5VGS +1.5VGS +1.5VGS +1.5VGS BV157 RV160 BV161 BV156 BV158 RV150 BV162 BV163 4.99K\_0402\_1% DIS@ DIS@ 15mil 15mil 15mil 15mil 15mil 15mil 15mil 15mil CLKA1 1 2 56\_0402\_1% DIS@ DIS@ CLKA1# 1 2 56\_0402\_1% RV168 4.99K\_0402\_1% DIS@ RV169 4.99K\_0402\_1% DIS@ RV172 4.99K 0402 1% 4.99K\_0402\_1% DIS@ 4.99K\_0402\_1% DIS@ CV234 0.01U\_0402\_16V7K DIS@ DIS@N DIS@ DIS@<sub>N</sub> DIS@<sub>N</sub> DIS@<sup>©</sup> +1.5VGS +1.5VGS +1.5VGS 0.1U\_0402\_16V7K DIS@ CV241 0.1U\_0402\_16V7K DIS@ | CV242 N | L 0.1U\_0402\_16V7K DIS@ CV243 0.1U\_0402\_16V7K DIS@ CV244 0.1U\_0402\_16V7K DIS@\_\_\_\_CV239 0.1U\_0402\_16V7K DIS@ CV240 0.1U\_0402\_16V7K DIS@ CV246 0.1U 0402 16V7K DIS@ CV245 0.1U\_0402\_16V7K DIS@ | CV238 10U\_0603\_63V6M DIS@\_\_\_CV249 10U\_0603\_63V6M DIS@ CV248 10U\_0603\_6.3V6M DIS@\_\_\_\_\_CV250 1U\_0402\_6.3V6K DIS@ CV256 1U 0402 6.3V6K DIS@ CV257 1U\_0402\_6.3V6K DIS@ CV258 1U\_0402\_6.3V6K DIS@ CV259 1U 0402 6.3V6K DIS@ CV260 1U\_0402\_63V6K DIS@ CV267 1U\_0402\_63V6K DIS@ CV268 1U\_0402\_6.3V6K DIS@ CV269 1U 0402 6.3V6K DIS@ CV270 10U\_0603\_6.3V6M DIS@ CV251 1U\_0402\_63V6K DIS@ CV253 1U\_0402\_6.3V6K DIS@ CV261 1U 0402 6.3V6K DIS@ CV262 1U 0402 6.3V6K DIS@ CV263 1U\_0402\_6.3V6K DIS@\_\_\_\_\_CV266 1U 0402 6.3V6K DIS@ CV265 Security Classification Compal Secret Data Compal Electronics, Inc. Issued Date Deciphered Date ATI\_ThamesXT\_M2\_VRAM\_A THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETIANT PROPRIETY OF COMPAL BLECTIONICS, INC. AND CONTRAIS CONFIDENTIAN AND TRADE SECRET PROPRIATION. THIS SHEET MAYN DIE TRADESCREET FROM THE CLISTOPY OF THE COMMETTER ON DISCOUGH TO AND DEPARTMENT EXCEPT AS AUTHORIZES BY COMPAL ELECTRONICS, NO. NETHER THIS SHEET NOTH THE INFORMATION IT CONTRAIN OF COMPAL ELECTRONICS, INC. LA-9104P

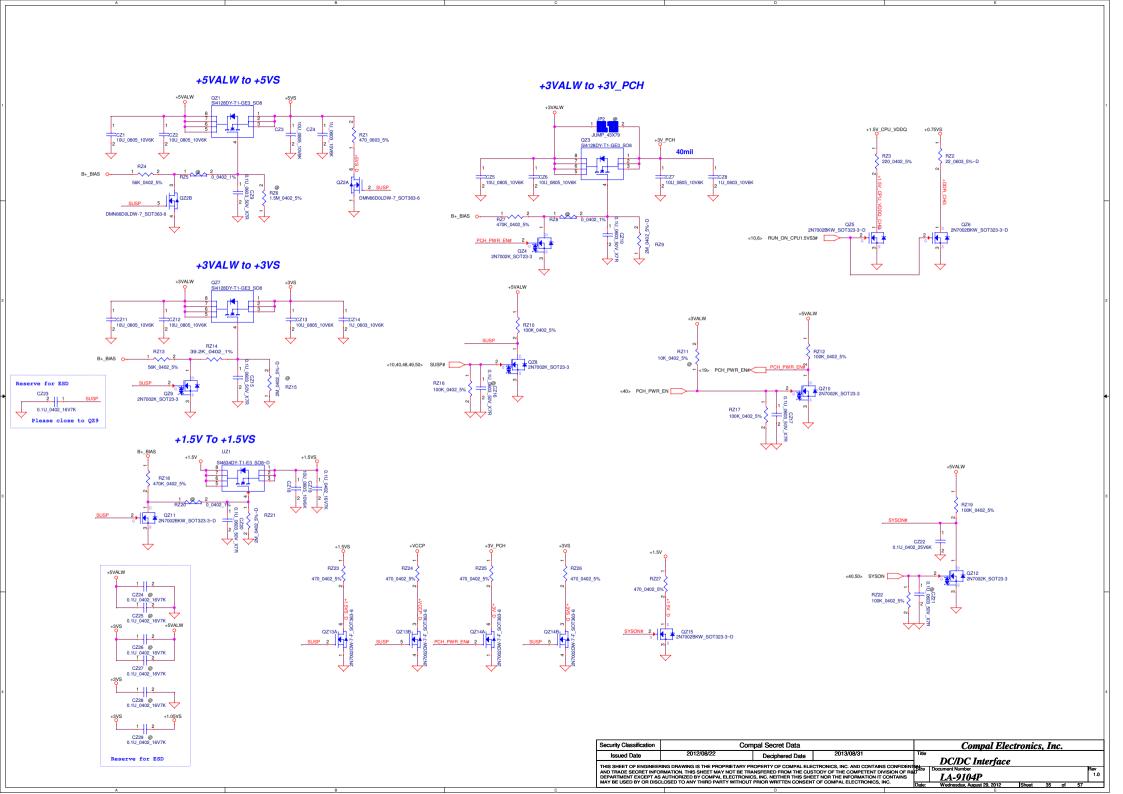
#### CHANNEL B: 256MB/512MB DDR3 DQL0 DQL1 DQL2 DQL3 DQL4 DQL5 DQL6 DQL: DQL0 DQL1 DQL2 DQL: DQL: DQL: DQL: DQL: DQL: DQL: <29> MDB[0..63] DQL: DQL: DQL: DQL: DQL: DQL3 DQL5 DQL5 DQL7 <29> MAB[14..0] DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7 DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7 DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7 DQUI DQUI DQUI DQUI DQUI DQUI DQUI <29> DQMB#[7..0] < +1.5VGS +1 5VGS VDD VDD VDD VDD VDD VDD VDD VDD VDD CLKB1 CLKB1# CKEB1 <29> QSB#[7..0] +1.5VGS +1.5VGS +1.5VGS +1.5VGS <29> ODTB1 <29> CSB1#\_0 <29> RASB1# <29> CASB1# <29> WEB1# <29> <29> <29> <29> <29> ODTB0 CSB0#\_ RASB0# CASB0# WFB0# DIS@ CLKB0 1 2 BV174 56 0402 1% DIS@ CLKB0# 1 2 RV175 56 0402 1% CV272 0.01U\_0402\_16V7K DIS@ DRAM\_RST# T2 DRAM\_RST# T2 DRAM\_RST# T2 <29,30> DRAM\_RST# \_\_\_\_\_ RESET BESE1 RESET RESET DIS@ CLKB1 1 2 56\_0402\_1% X L9 X L9 X M7 X L9 X L9 X M7 RV176 BV177 RV178 RV179 240\_0402\_1% OIS@ 240\_0402\_1% DIS@ 240\_0402\_1% DIS@ DIS@ CLKB1# 1 2 56\_0402\_1% DIS@ +1.5VGS +1.5VGS +1.5VGS +1.5VGS +1.5VGS +1.5VGS +1.5VGS +1.5VGS BV184 BV187 BV182 BV183 BV185 RV186 BV188 RV189 4.99K\_0402\_1% DIS@ 4.99K\_0402\_1% DIS@ 4.99K\_0402\_1% DIS@ 4.99K\_0402\_1% DIS@ 4 99K 0402 4.99K\_0402\_1% DIS@ 4.99K\_0402\_1% DIS@ 02\_1% DIS@ 15mil 15mil 15mil 15mil 15mil 15mil 15mil 15mil 0.1 U 0.402 16V7K 01 U 0402 16V7K DIS@ CV276 4.99K\_0402\_1% DIS@ 4.99K\_0402\_1% DIS@ 4.99K\_0402\_1% DIS@ 4.99K 0402 +1.5VGS +1.5VGS +1.5VGS 0.1U\_0402\_16V7K DIS@ CV288 0.1U\_0402\_16V7K DIS@ CV291 0.1U 0402 16V7K DIS@ CV292 0.1U\_0402\_16V7K DIS@ CV283 0.1U\_0402\_16V7K DIS@\_\_\_\_\_CV289 0.1U 0402 16V7K DIS@ CV285 0.1U\_0402\_16V7K DIS@ CV290 0.1U\_0402\_16V7K DIS@ CV294 0.1U 0402 16V7K DIS@ CV284 0.1U\_0402\_16V7K DIS@\_\_\_\_\_CV295 10U\_0603\_6.3V6M DIS@ CV297 N 1 10U\_0603\_6.3V6M DIS@\_\_\_\_CV296 N\_\_\_\_\_ 1U\_0402\_6.3V6K DIS@ CV305 1U 0402 6.3V6K DIS@ CV306 1U 0402 6.3V6K DIS@ CV312 1U 0402 6.3V6K DIS@ CV314 1U\_0402\_6.3V6K DIS@ CV315 1U 0402 6.3V6K DIS@ CV302 1U 0402 6.3V6K DIS@ CV304 1U\_0402\_6.3V6K DIS@ CV307 1U\_0402\_6.3V6K DIS@\_\_\_\_CV311 1U\_0402\_6.3V6K DIS@ CV313 1U\_0402\_63V6K DIS@ CV316 1U\_0402\_6.3V6K DIS@ CV317 1U\_0402\_6.3V6K DIS@\_\_\_\_CV318 10U\_0603\_6.3V6M DIS@\_\_\_\_CV295 1U 0402 6.3V6K DIS@ CV300 1U 0402 6.3V6K DIS@ CV303 1U\_0402\_6.3V6K DIS@\_\_\_\_CV301 Security Classification Compal Secret Data Compal Electronics, Inc. Issued Date Deciphered Date ATI\_ThamesXT\_M2\_VRAM\_B THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETIANT PROPRIETY OF COMPAL BLECTIONICS, INC. AND CONTRAIS CONFIDENTIAN AND TRADE SECRET PROPRIATION. THIS SHEET MAYN DIE TRADESCREET FROM THE CLISTOPY OF THE COMMETTER ON DISCOUGH TO AND DEPARTMENT EXCEPT AS AUTHORIZES BY COMPAL ELECTRONICS, NO. NETHER THIS SHEET NOTH THE INFORMATION IT CONTRAIN OF COMPAL ELECTRONICS, INC. LA-9104P

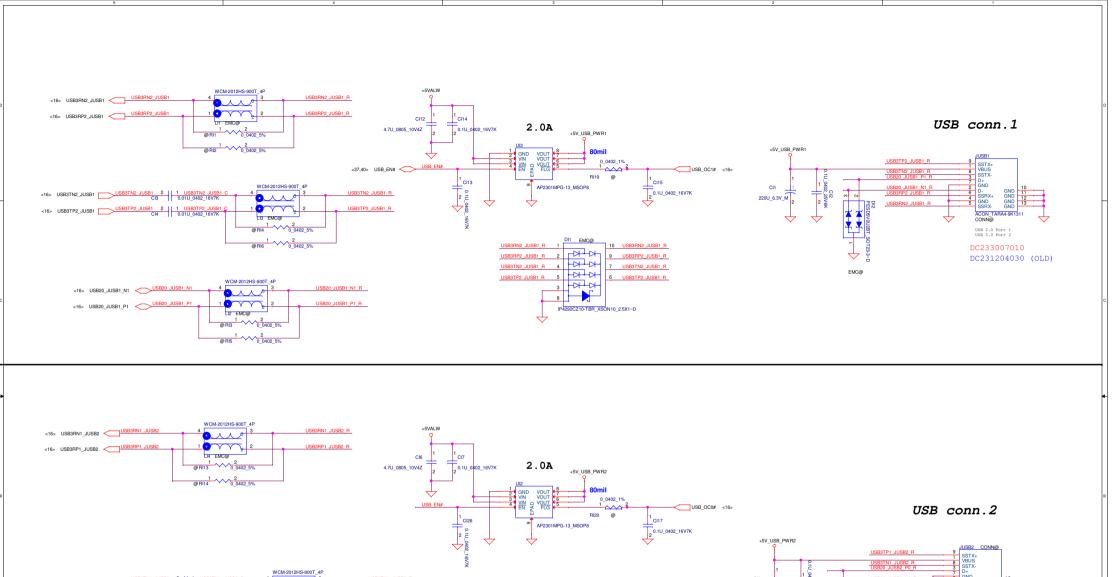


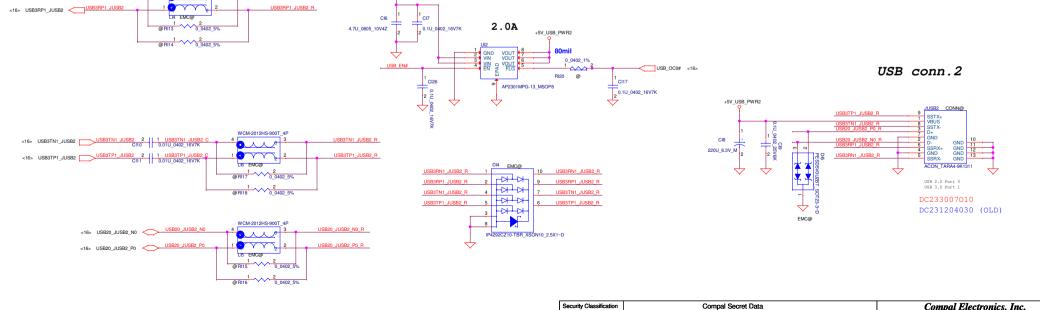




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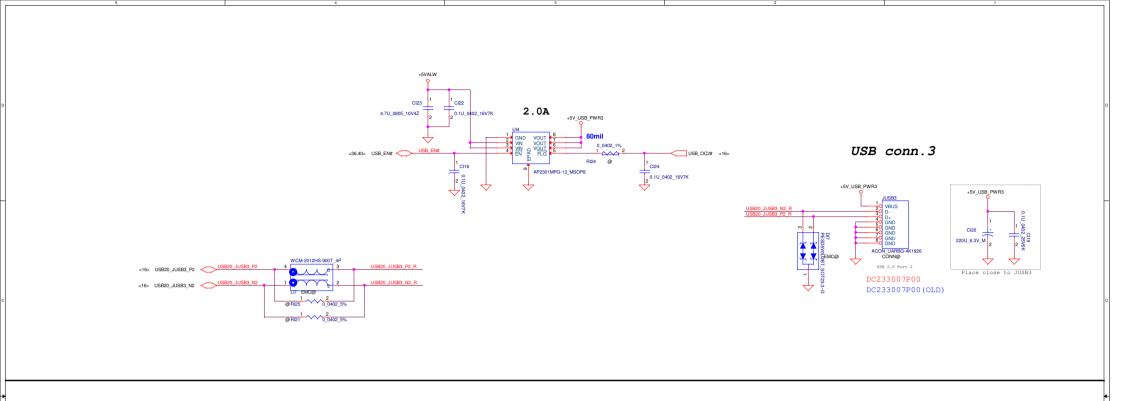
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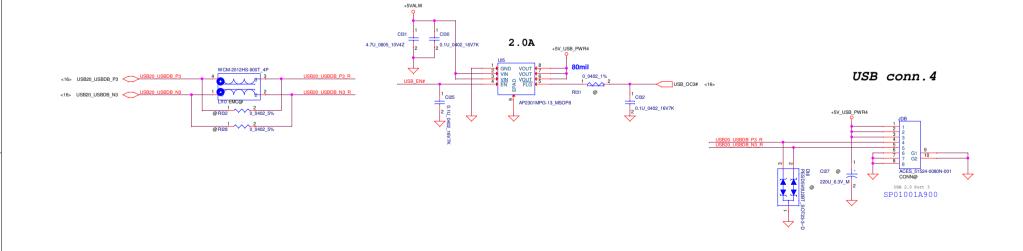
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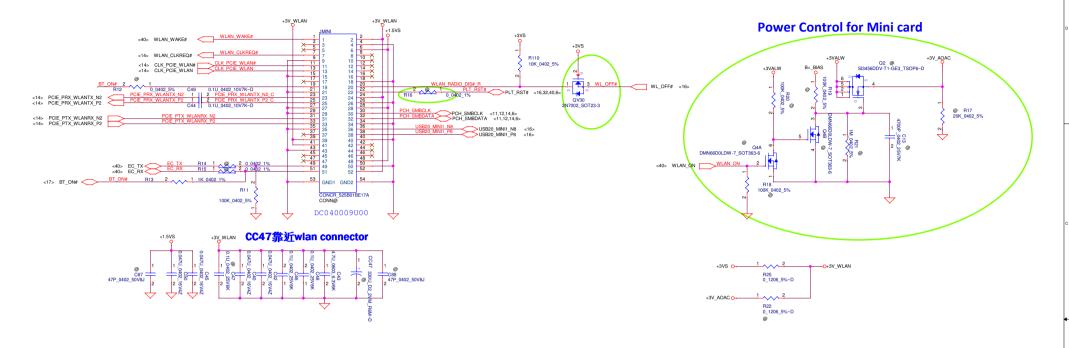
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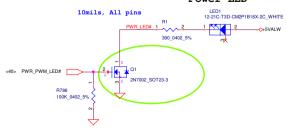
## Mini WLAN/WIMAX H=6.7



#### HDD LED



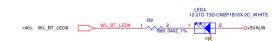
#### Power LED



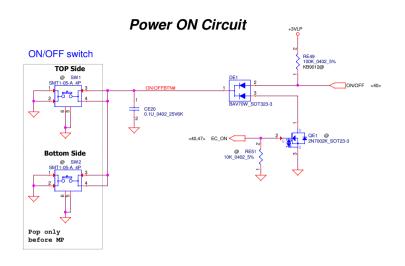
#### Battery LED



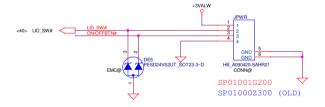
#### Wireless LED



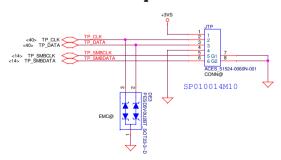
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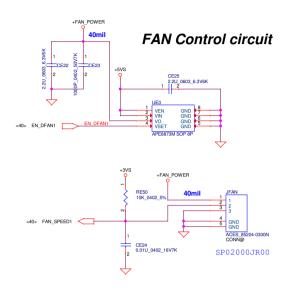


## POWER/B

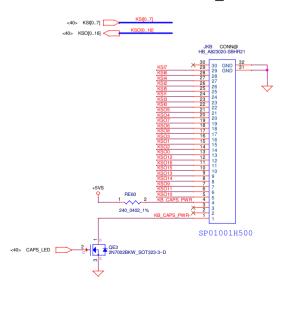


## Touch pad

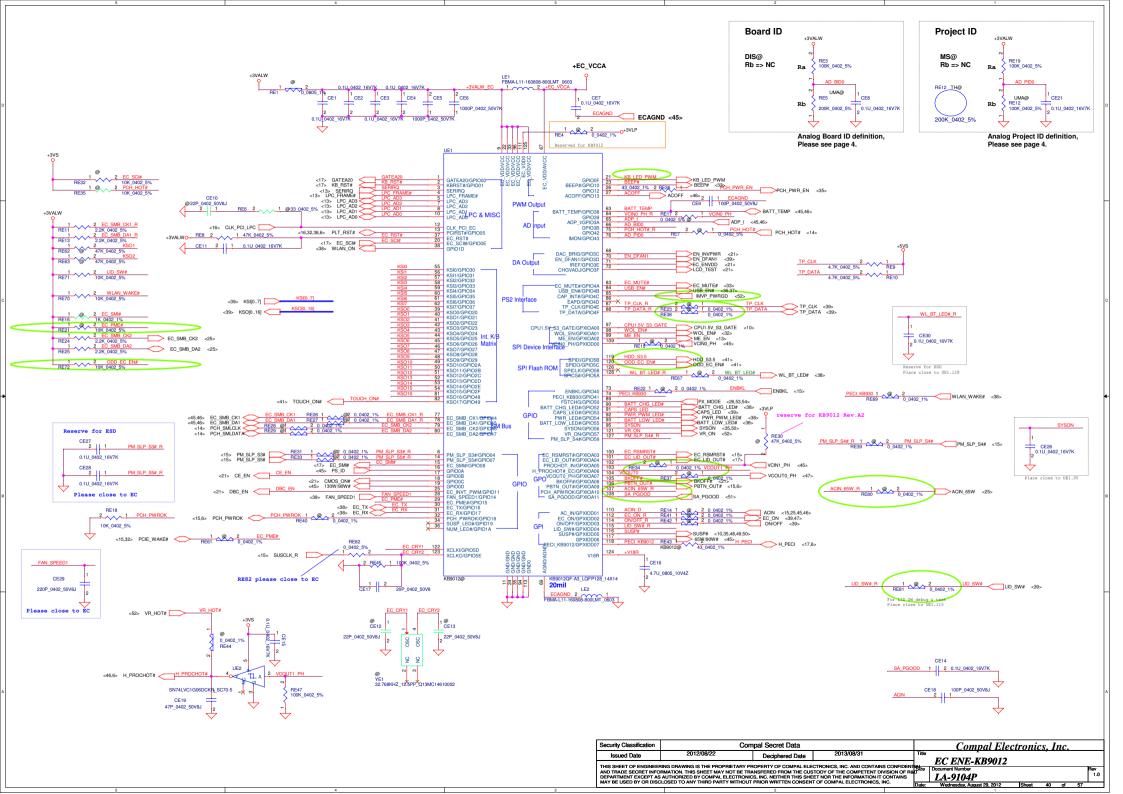


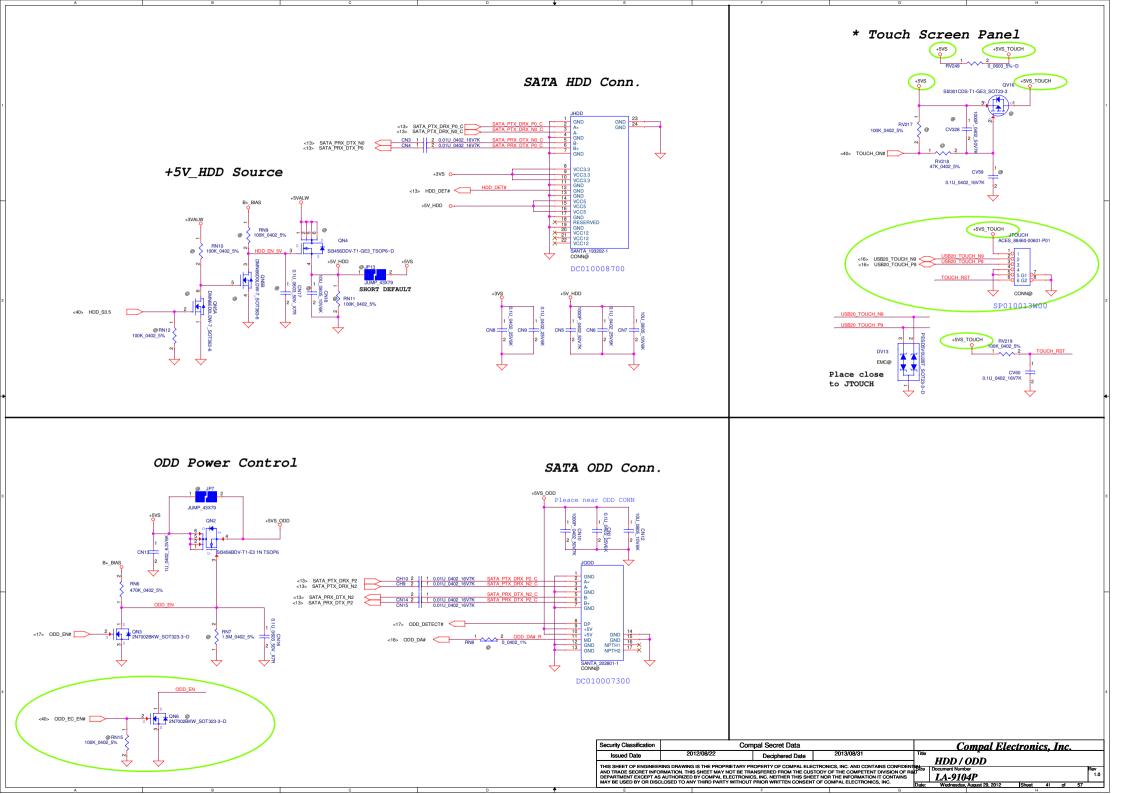


## INT\_KBD Conn.

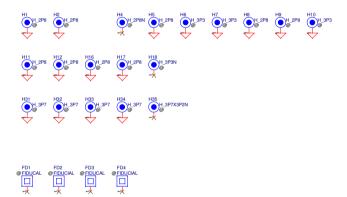


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### Screw Hole



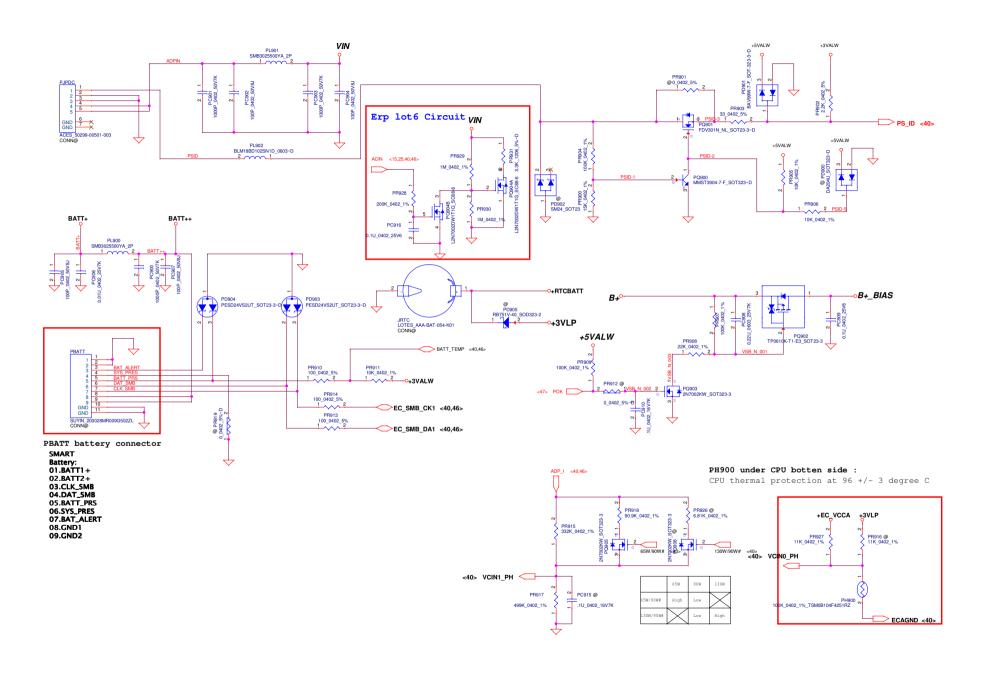
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Version Change List (P. I. R. List)	Page 1
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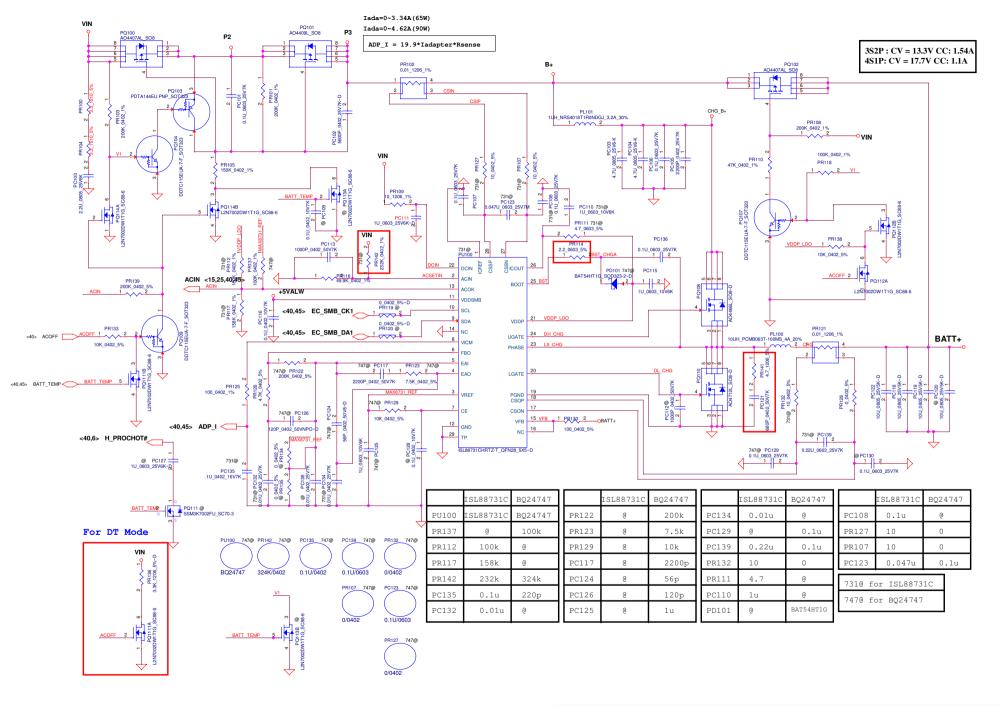
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tem	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	21,39	LVDS	2012/05/17	SED	Add FHD Panel CE_ENABLE, DBC_ENABLE function from SED request	Add CE_EN, DBC_EN control pin to EC	0.2
2	21	LVDS	2012/05/22	SED	Follow SED team request disable CE_EN function	Change RV62 to DE-POP and RV100 to POP for disable CE_EN function	0.2
3	33	Audio codec	2012/05/23	CODEC	Follow CODEC vendor suggestion	Add AUDIO JACK PLUG delay circuit, Spearate NET JACK_PLUG to  => JACK_SENSE# & => JACK_PLUG#	0.2
4	16,21	Touch Screen	2012/05/29	HW	Add touch screen function	Add RV217, RV218, RV219, RV249, CV59, CV60, CV328, DV13, QV16, JTOUCH	0.2
5	39	Board ID	2012/05/30	HW	Board ID change for PT	Change RE5 from 8.2k_0402(SD028820180) to 33k_0402(SD028330280)	0.2
6	21,39	Touch Screen	2012/05/30	HW	Add touch screen function power control	Add NET "TOUCH_ON#" from JTOUCH to UE1.82(KB9012) for TOUCH SCREEN PANEL power control	0.2
7	33	Audio codec	2012/05/30	HW	Follow RealTek suggestion remove, delete reserve MUTE circuit	Delete D1,QA1,QA2,QA3,RA24,RA26,RA60,RA62,RA68,RA109,CA72,CA73	0.2
8	15,16, 39,41	ESD	2012/05/30	ESD	ESD ask CAP for reserve	Reserve 0.1u/0402 CH104,CZ23,CH105,CE27,CE29	0.2
9	14	Green CLK	2012/05/30	HW	For Green CLK test	Change RH31,RH41,RV232 Oohm form "GCLK@" to "@" for break the clock signal to device	0.2
10	10,26,41	DC/DC	2012/05/31	HW	Change "+1.5V_CPU_VDDQ", "+1.5VS", "+1.5VGS" derating	Change RC150 330K/0402 to 2M/0402, RC151 100K/0402 to 470K/0402, R218 100K/0402 to 470K/0402, RV115 0/0402 to 2M/0403	0.2
11	41	DC/DC	2012/05/31	HW	For power sequence trunning	Change R215 to DE-POP	0.2
12	06,15,16, 39,41	ESD	2012/05/31	ESD	Follow ESD team request	Change 0.1u/0402 from "@" to POP	0.2
L3	32	Green CLK	2012/06/15	HW	Change for Green CLK bom control	Change RL21,RL30 from "@" to "GCLK@"	0.2
1.4	41	DC/DC	2012/06/15	HW	For WLAN card power sequence issue	Change RZ4,RZ13 from 470K/0402 56K/0403	0.2
15			2012/06/18	HW			0.2
	35,41	Schematic page modify			Schematic page modify for easily maintain.	Swap Page. 35 & Page 41.	
16	41	ODD	2012/06/18	HW	Change component location for easily maintain.	Move CH9,CH10 from Page.13 to Page.41	0.2
17	39	FAN	2012/06/29	HW	Fan speed noise issue	Reserve 220p/0402 CE24	0.2
8	6 21.35.	CPU	2012/06/29	ESD	System boot-up shot down issue.	Change CC151 from POP to "@"  1. Swap P.35 & P.41and move touch screen circuit from P.21 to P.41.	0.2
.9	39,40,41	Circuit adjuest	2012/07/01	HW	Circuit & page adjust for OAK 15" & OAK 17"	2. Swap P.39 & P.40 page no	0.2
20	40	LID SW	2012/07/01	HW	LID SW need a trace for debug and switch.	Add RE81 for LID SW.	0.2
21	25	GPU	2012/07/01	HW	Follow AMD request, MarsPro will used MPLs.	Change RV75,RV76,RV81 from "DIS@" to "TH@"	0.2
22	29	GPU	2012/07/01	HW	Follow AMD request, MEM_CALRP2 is not need for Mars ASIC now.	Change RV205 from "MS@" to "@"	0.2
23	38	MINI card	2012/07/03	HW	Power Control for Mini card didn't need	Change R17 to "@"	0.2
24	6	XDP	2012/07/06	HW	S3 return hang issue	Change RC89 from "@" to POP	0.2
25	23	GREEN CLK	2012/07/09	HW	Follow Green CLK FAE suggestion	1. Change UG1.2(+3VLP) & UG1.8(+3VALM) connect to +LAN_IO 2. Add R787 connect from +RTCBATT to C5.2 & UG1.10 3. Change C14 from 0.1u to 5p/0402 4. Change C8 connect from +3V_ALM to +LAN_IO 5. Add R788 0ohm/0402 from +RTCVCC to UG1 for GCLK & DH1 select	0.2
26	35	MOAT	2012/07/09	ESD	For ESD request reserve CAP.	Reserve those CAP for ESD MOAT.	0.2
27	18	LVDS	2012/07/10	HW	Change RES and reserve CAP for LVDS issue	Change RH185 from Oohm-short to Oohm/0805, and reserve CH106 1U/0402	0.2
28	13	PCH	2012/07/11	ESD	Follow ESD team request	Add RH44,RH48,RH70 & NET PCH_JTAG_TMS_R, PCH_JTAG_TDI_R, PCH_JTAG_TDO_R for break signal trace	0.2
29	40	PCH	2012/07/11	ESD	Follow ESD team request	1.Change NET NAME "N59110727" to "WL_BT_LED#_R" 2. Reserve 0.lu/0402 on "WL_BT_LED#_R" for ESD	0.2
30	21	LVDS	2012/07/11	HW	Reserve for CE function for LVDS connector	Change CE_EN_R from dummy to JLVDS.18	0.2
31	32	Connector	2012/07/12	ME	For ME request	Change JLAN CPN from "DC234004V00" to "SP011207090"	0.2
32	40	FAN	2012/07/16	HW	For FAN_SPEED1 noise issue	Change CE29 from "@" to POP	0.2
33	14	Touch PAD	2012/07/17	SED	Change Touch PAD SMBUS port for SMBUS issue	Change Touch PAD SMBUS port for SMB0 to SMB	1.0
34	32	GREEN CLK	2012/07/19	HW	Follow Silego FAE request	Change RL21 from 510 ohm to 0 ohm/0402	1.0
35	41	Touch Screen	2012/08/07	SED	Follow SED team request change JTOUCH USB signal conatct.	Change JTOUCH Pin define.	1.0
36	34	Card Reader	2012/08/07	ESD			1.0
					Follow ESD team request Reserve CR11 100p/0402 close to JREAD		
37	23	GREEN CLK	2012/08/16	HW	Fixed GCLK output abnormal issue Change UG1.2(UG1/VDD) from +LAN_IO to+3VALW		1.0
38	33	CODEC	2012/08/16	HW	The issue already fixed by new CODEC.	Remove delay circuit and POP RA4	1.0
39	23	GREEN CLK	2012/08/17	HW	For RTC discharge issue De-pop R788		1.0
40	32,34	LAN	2012/08/17	HW	For LAN Chip abnormal leakage issue Pop RL34 and de-pop RE21		1.0
41	34	Card Reader	2012/08/20	ESD	Follow ESD team request	Change CR11 from 100p/0402 to 10p/0402 and POP	1.0

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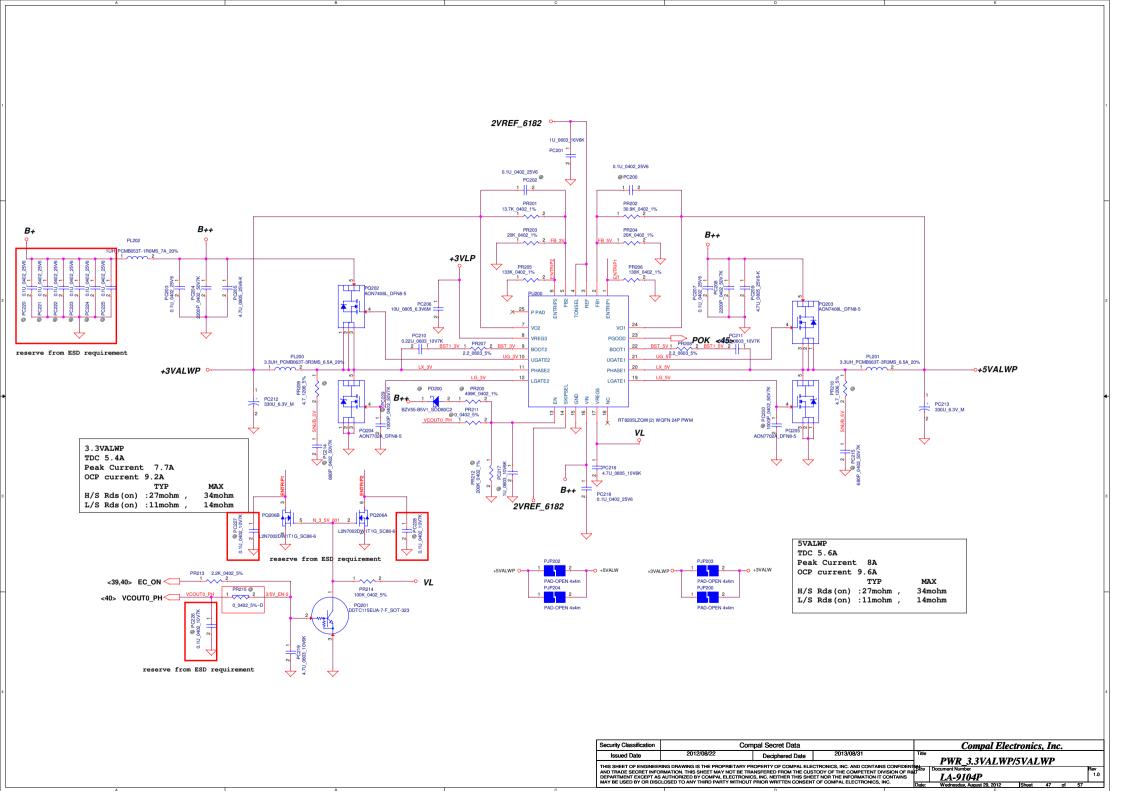
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1	Page#	Title	Date	Request Owner	on Change List (P. I. R. List)  Issue Description	Solution Descriptio	n Rev.
42	41	Touch Screen	2012/08/20	SED	Follow SED team request	Change Touch screen power rail for +3VS to +5VS	1.0
43	38	LED	2012/08/20	HW	Change LED light	Change LED1, LED2, LED4 CPN from SC500006000 to SC500	000DC00 1.0
44	38	WLAN	2012/08/20	HW	Remove AOAC function power control	Change R18,R19,R20,R21,C13,Q2,Q4 component BOM stru	ucture to "@" 1.0
45	41	Touch Screen	2012/08/20	HW	Add EC control for Touch Screen function	Add RN15 & QN6 and relative circuit connect	1.0
46	40	BATMAN2	2012/08/21	HW	For BATMAN2	Add RE82 Oohm/0402 between trace SUSCLK_R & EC_CRY.	
47	14,17	PCH	2012/08/21	HW	For SYSTEM S3 leakage issue	Change RH79.2 & RH245.2 connect from +3V_PCH to +3V	
						Security Classification Compal Secret Data	
						Issued Date 2012/08/22 Deciphered Date	2013/08/31 Title

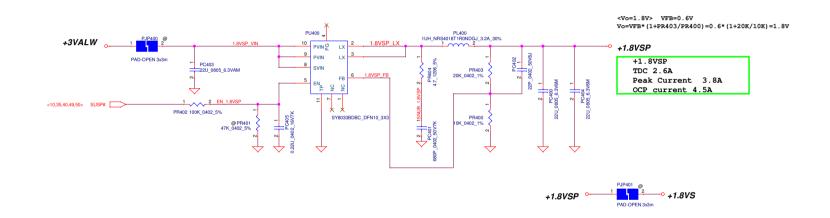


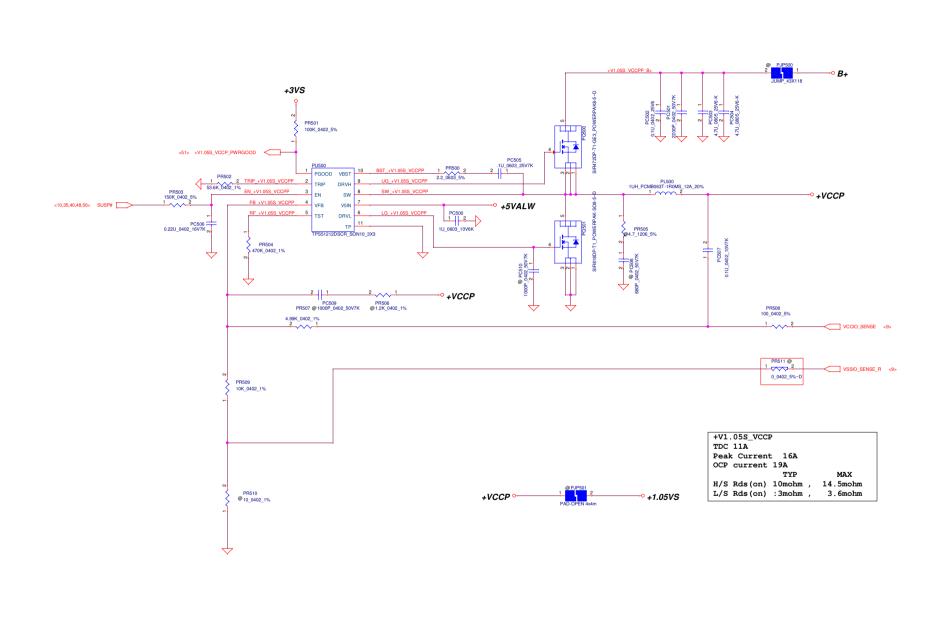
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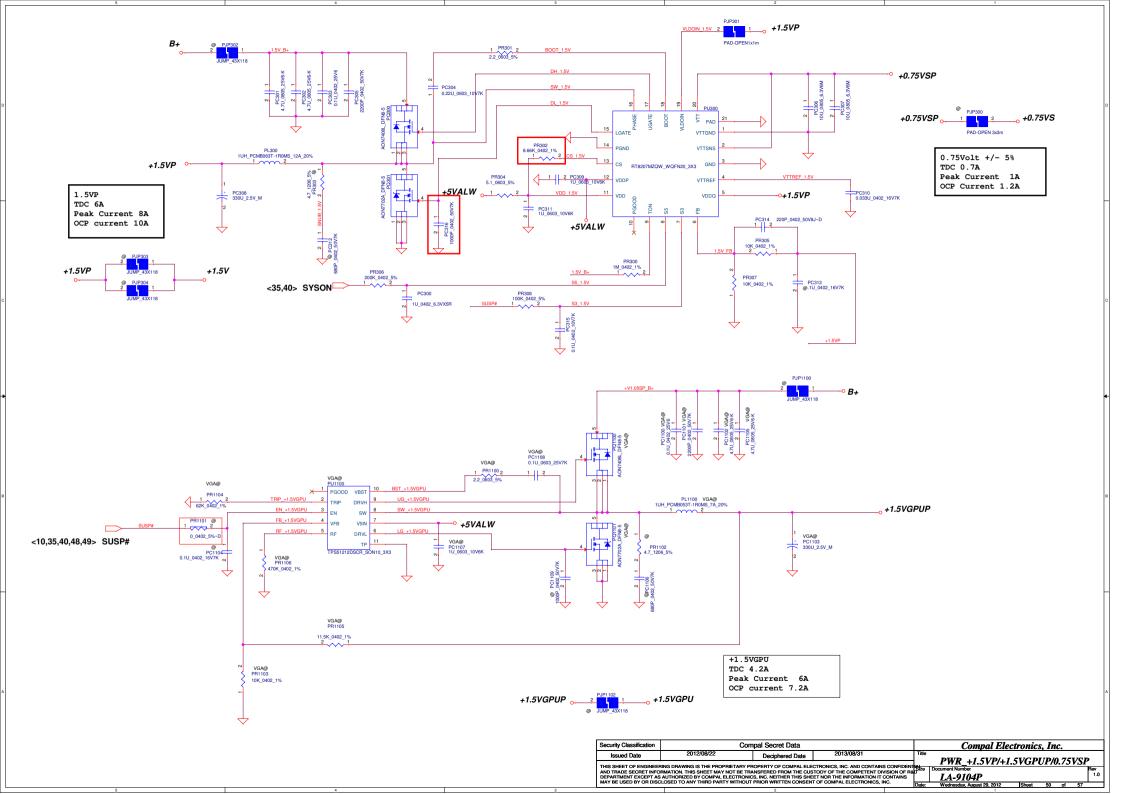
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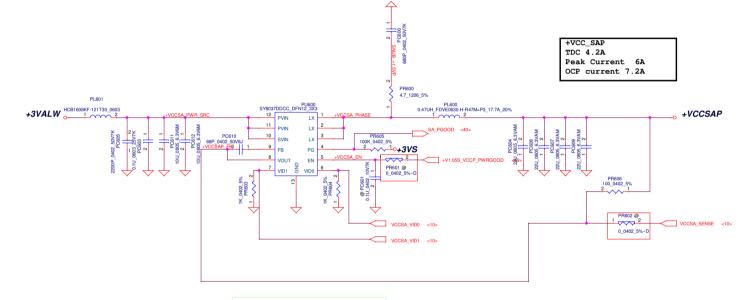


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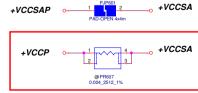


VID [0]	VID[1]	VCCSA Vout
0	0	0.9V
0	1	0.85V
1	0	0.775V
1	1	0.75V

output voltage adjustable network

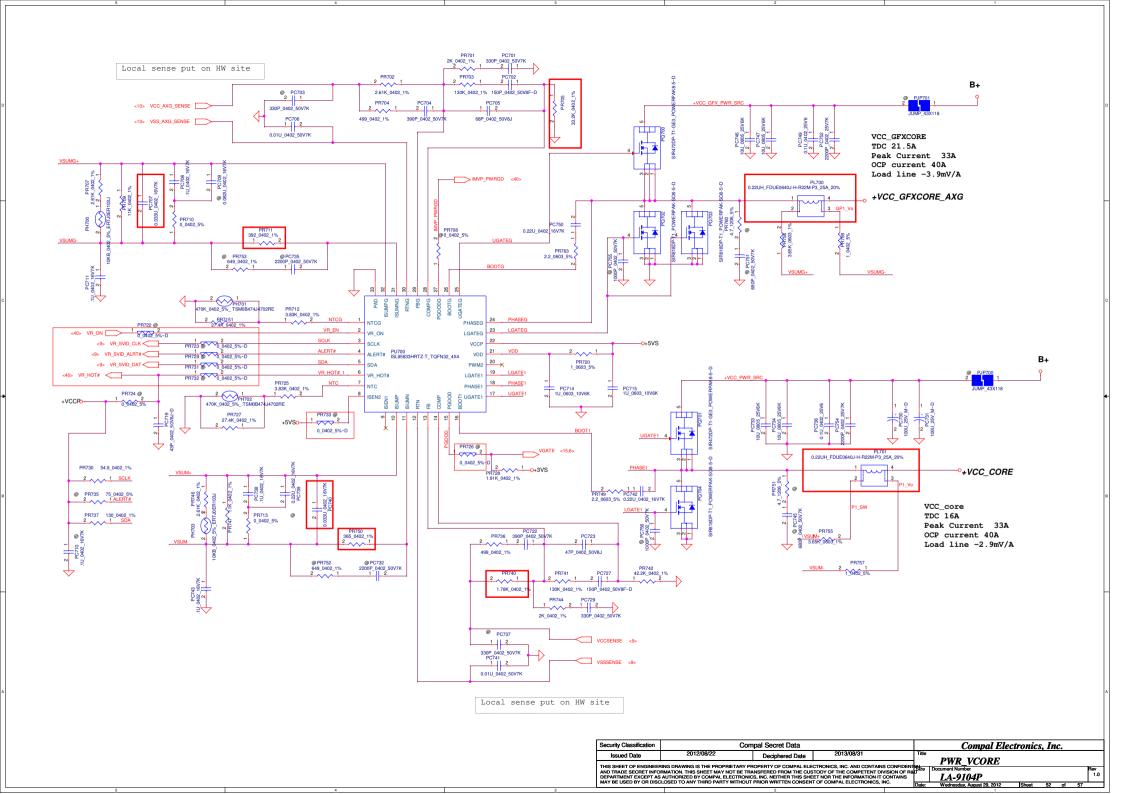


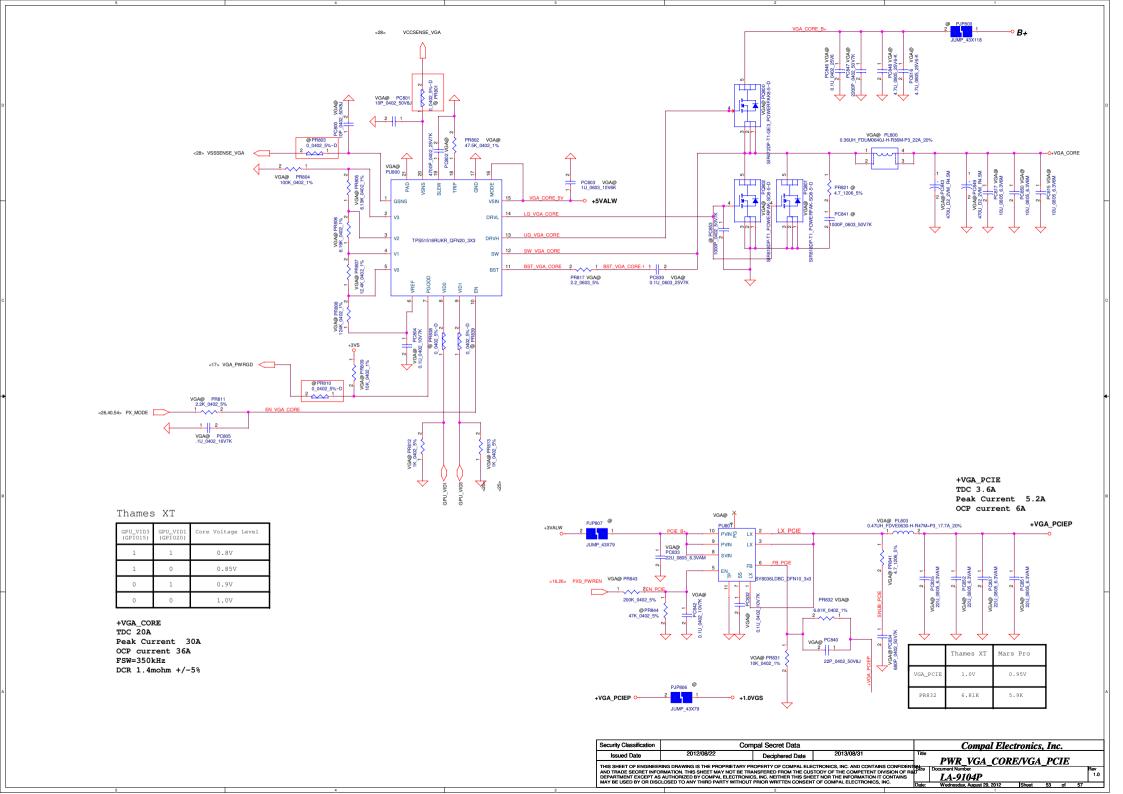
The 1k PD on the VCCSA VIDs are empty. These should be stuffed to ensure that VCCSA VID is 00 prior to VCCIO stability.

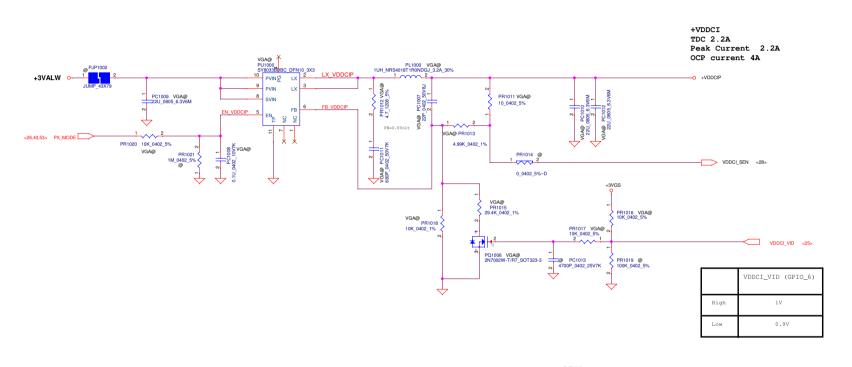


reserve for Pentium and Celeron only

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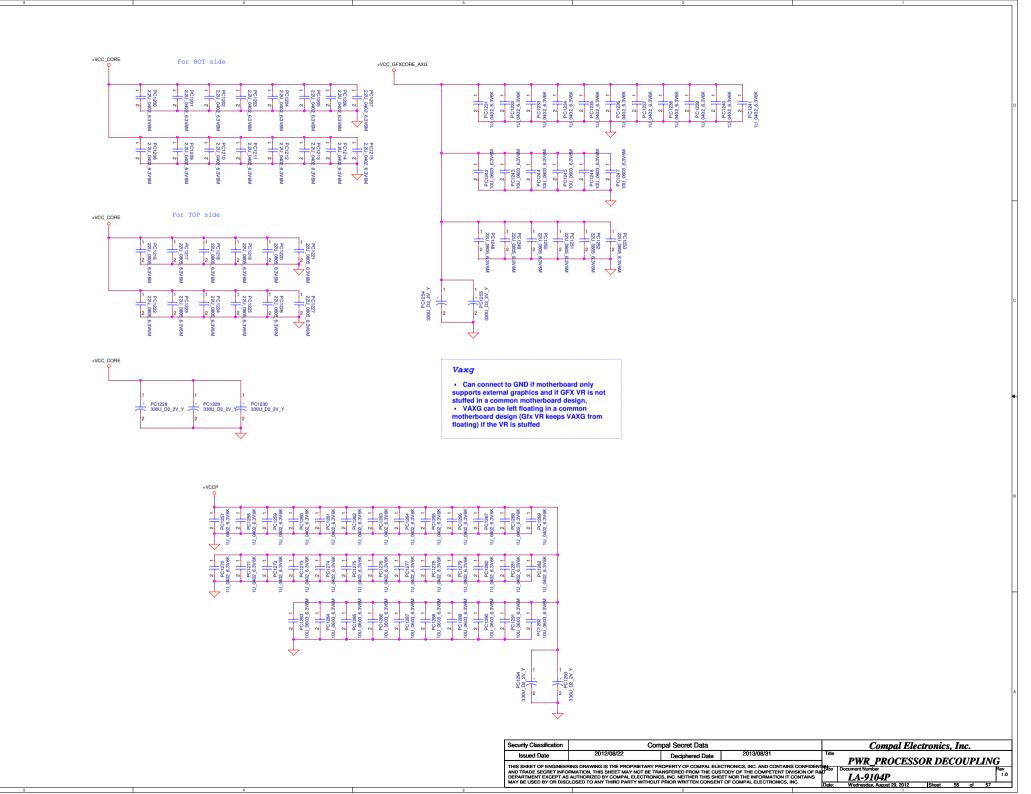




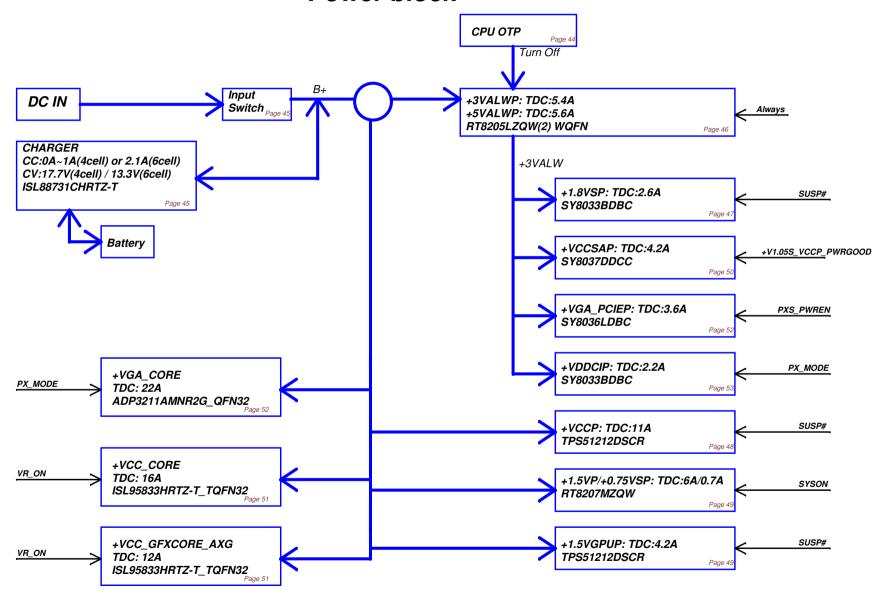




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# Power block



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				on Change List (P. 1. R. List)	Page 1						
tem   Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.					
1 51	VCORE	12/05/11	Morris	adjust VR parameter	change PL700 and PL701 from 0.36u to 0.22u change PC707 and PC740 from 0.047u to 0.033u change PR750 from 649 to 365 change PR711 from 649 to 392 change PR740 from 1.91k to 1.78k change PR740 from 1.91k to 3.2k	X00					
2 44 45 46	DCIN/BATT CONN/OTP CHARGER 3.3VALWP/5VALWP	12/05/11	Morris	follow SSI memo for part shortage issue	change PQ112,PQ114,PQ1111,PQ206,PQ904 from SB00000CQ00 to SB00000PV00	x00					
3 49	+1.5VP/1.5VDGPU/0.75VSP	12/05/15	Morris	design change	change PR302 from 12k to 8.66k	X00					
4 50	+VCCSAP	12/05/23	Morris	for Pentium and Celeron special BOM	add PR607 and reserve	X00					
5 49	+1.5VP/1.5VDGPU/0.75VSP	12/07/06	Morris	design change to reduce low-side mosfet induce	add PC316 1000pf	X01					
6 45	CHARGER	12/07/17	Morris	from EMI request	change PR114 from 0 to 2.2 add PR141 and PC121	X01					
7 45	CHARGER	12/07/17	Morris	design change to solve Battery LED is still on after unplug AC when SUT in S3S4S5 issue	change PR142 from 210k to 232k for ISL88731C (X76) change PR142 from 309k to 324k for BQ24747 (X76)	X01					
8 44	DCIN/BATT CONN/OTP	12/07/17	Morris	revise OTP setting to 96C from thermal request	change PR927 from 12.1k to 11k	X01					

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