Compal Confidential

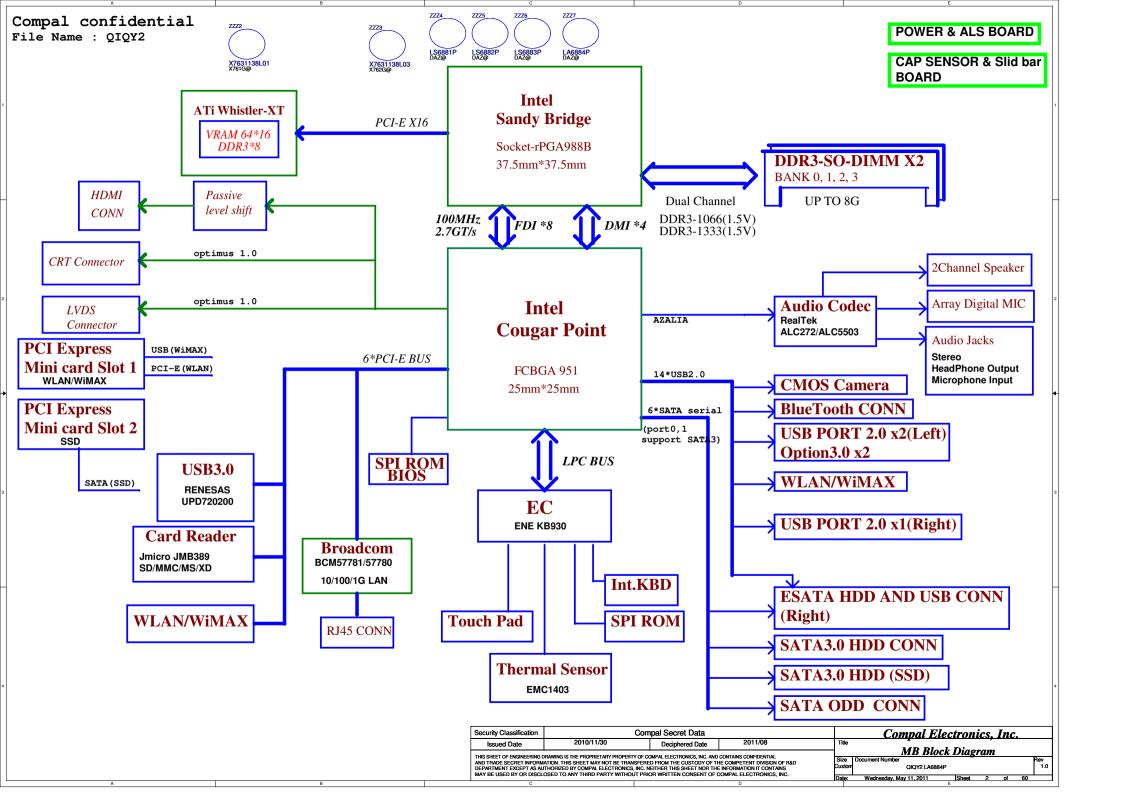
QIQY2 M/B Schematics Document

Intel Sandy Bridge Processor with DDRIII + Cougar Point PCH
ATi Whistler XT+DDR3

2011-05-11

REV:1.0

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				Date: Wednesday, May 11, 2011 Sheet 1 of	60



Voltage Rails

power plane State	+B	+5VALW +3VALW	+1.5V	+5VS +3VS +1.5VS +VCCP +CPU_CORE +VGA_CORE +GFX_CORE +1.8VS +0.75VS +1.05VS
so	0	0	0	0
s3	0	0	0	X
S5 S4/AC	0	0	X	X
S5 S4/ Battery only	0	x	X	X
S5 S4/AC & Battery don't exist	x	x	X	X

SMBUS Control Table

	SOURCE	VGA	BATT	KB930	SODIMM	WLAN WWAN	Thermal Sensor	PCH
SMB_EC_CK1 SMB_EC_DA1	KB930 +3VALW	Х	+3VALW	Х	Х	Х	Х	Χ
SMB_EC_CK2 SMB_EC_DA2	KB930 +3VALW	Χ	Х	Χ	Х	Х	Х	+3VS
SMBCLK SMBDATA	PCH +3VALW	Х	Х	Х	+3VS	+3VS	Х	Х
SMLOCLK SMLODATA	PCH +3VALW	Χ	X	Χ	Х	Χ	Х	Χ
SML1CLK SML1DATA	PCH +3VALW	+3VS	Х	+3VS	Х	Х	+3VS	Х

EC SM Bus1 address

EC SM Bus2 address

Device	Address	Device	Address
Smart Battery	0001 011X b	Thermal Sensor EMC1403-2	1001_101xb

PCH SM Bus address

Device	Address
DDR DIMM0	1001 000Xb
DDR DIMM2	1001 010Xb

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

Board ID / SKU ID Table for AD channel

Vcc	3.3V +/- 5%			
Ra/Rc/Re	100K +/- 5%			
Board ID	Rb / Rd / Rf	V _{AD_BID} min	V _{AD_BID} typ	V _{AD_BID} max
0	0	0 V	0 V	0 V
1	8.2K +/- 5%	0.216 V	0.250 V	0.289 V
2	18K +/- 5%	0.436 V	0.503 V	0.538 V
3	33K +/- 5%	0.712 V	0.819 V	0.875 V
4	56K +/- 5%	1.036 V	1.185 V	1.264 V
5	100K +/- 5%	1.453 V	1.650 V	1.759 V
6	200K +/- 5%	1.935 V	2.200 V	2.341 V
7	NC	2.500 V	3.300 V	3.300 V

BOARD ID Table

Board ID	PCB Revision
0	0.1
1	
2	
3	
4	
5	
6	
7	

USB Port Table

USB 2.0	USB 1.1	Port	3 External USB Port
	UHCIO	0	USB/Cable (Right Side)
	onero	1	USB Port (Right Side COMBO
	UHCI1	2	USB/B (Left Side)
EHCI1	OHCII	3	USB/B (Left Side)
micii	UHCI2	4	
	OHCIZ	5	Camera
	UHCI3	6	
	UNCIS	7	
	UHCI4	8	
	011014	9	Mini Card(WLAN)
EHCI2	UHCI5	10	
EHCIZ	OHCIS	11	
	UHCI6	12	
	OHCIO	13	Blue Tooth

BOM Structure Table

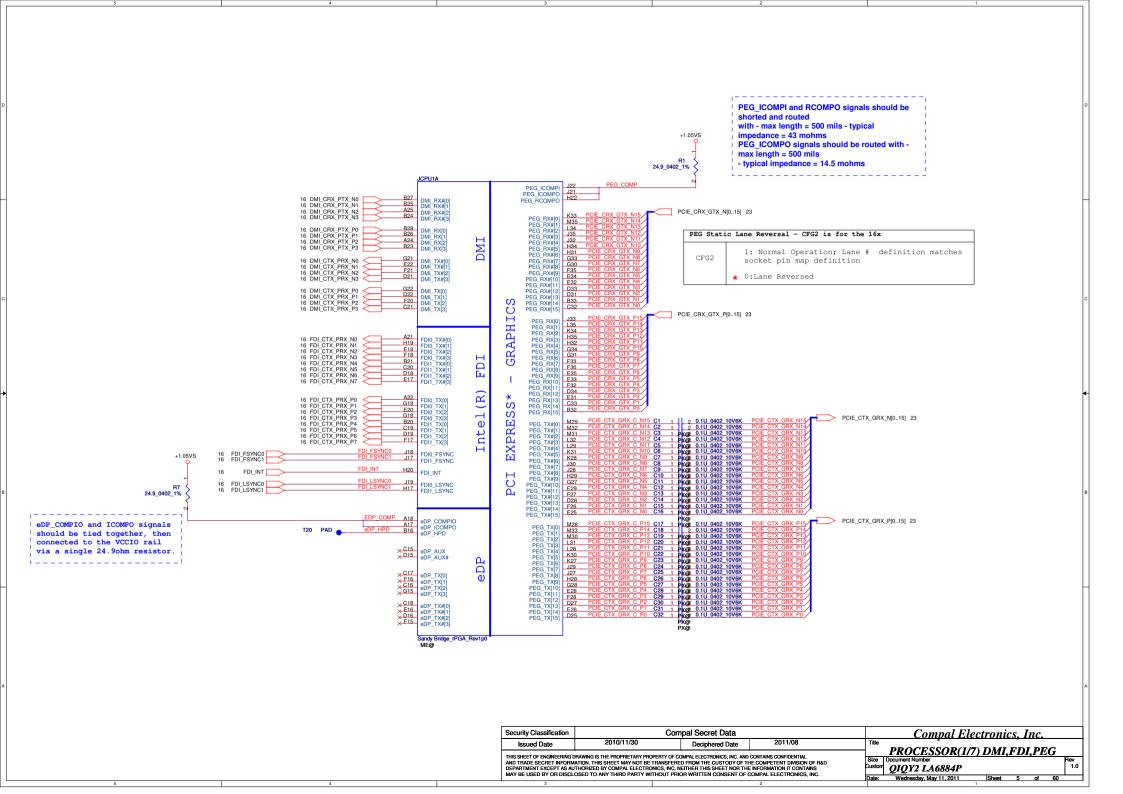
BTO Item	BOM Structure
UMA	
UMA Only	UMA_ONLY@
Optimus	OPTI@
VRAM	X76@
HDMI	HDMI@
Blue Tooth	BT@
USB3.0	USB30@
ESATA	ESATA@
USB Charger	USB_CHG@
No USB Charger	NO_CHG@
Unpop	@
Codec ALC272	272@
Codec ALC5503	5503@
LAN 57781	57781@
LAN 57780	57780@
Ventura Feature	
Camera	CMOS@

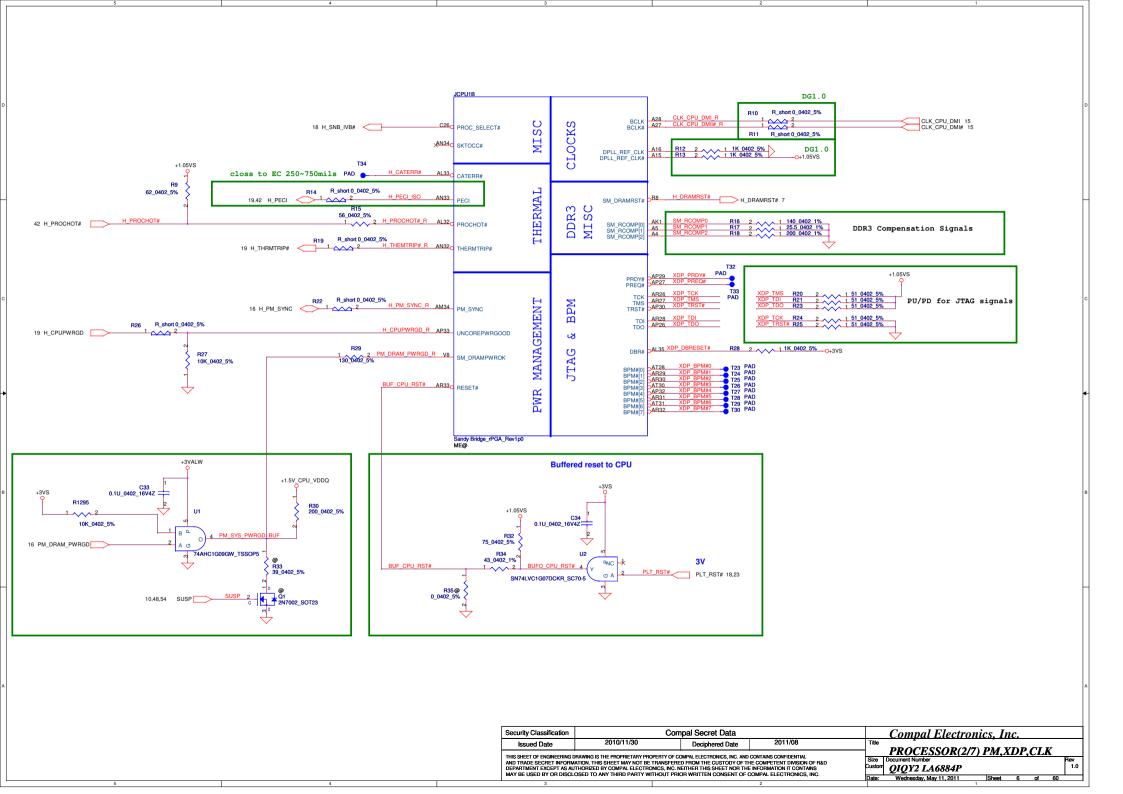
VRAM BOM Config

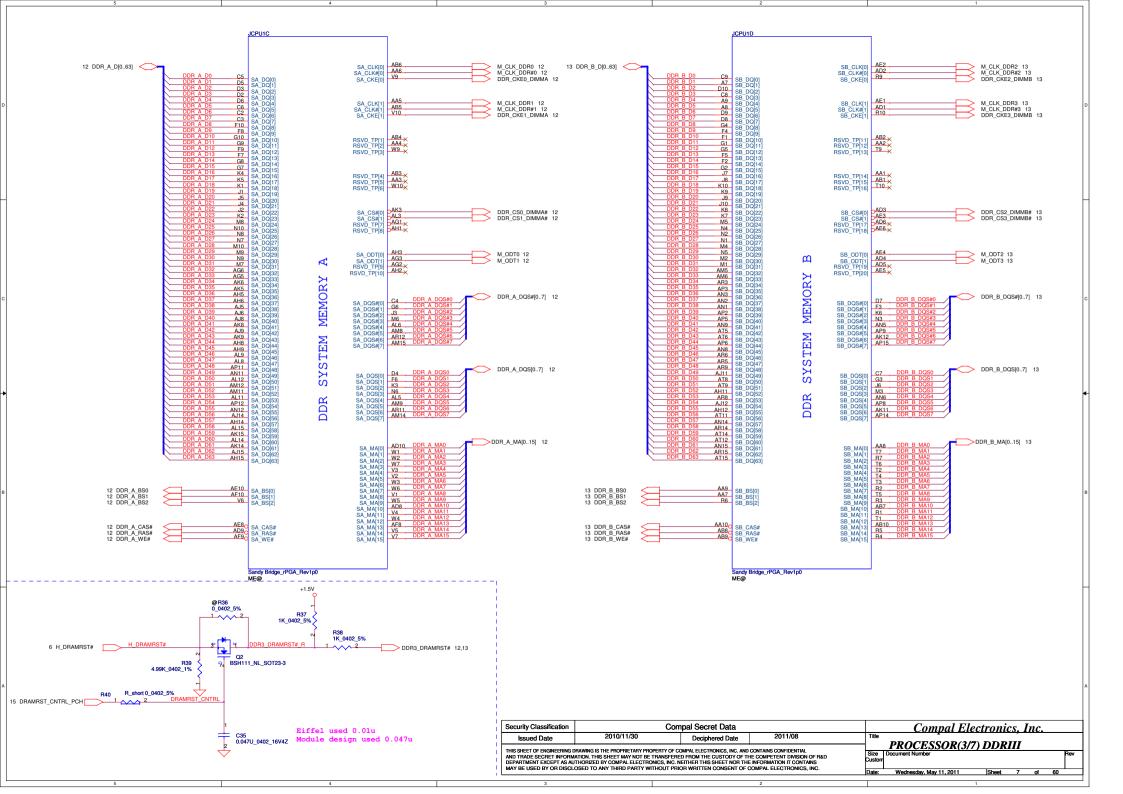
X761G@: X7625738L01 Samsung 1GB
Sub: X7625738L02 Hynix 1GB
X762G@: X7625738L03 Samsung 2GB
Sub: X7625738L04 Hynix 2GB

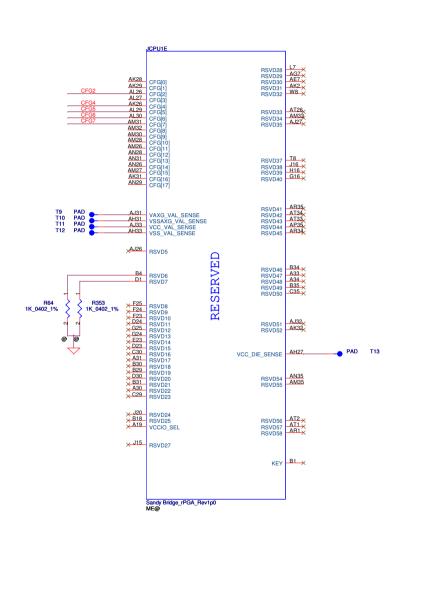
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Without BACO option: Power-Up/Down Sequence PE_GPIO0 : Low -> Reset dGPU ; High -> Normal operation PE_GPIO1 : Low -> dGPU Power OFF : High -> dGPU Power ON 1. All the ASIC supplies must fully reach their respective nominal voltages within 20 ms of the start of the ramp-up sequence, though a shorter ramp-up duration is preferred. BACO option: 2. VDDR3 should ramp-up before or simultaneously with VDDC. PE_GPIO0 : High ->Normal operation (dGPU is not reseton BACO mode)
PE_GPIO1 : Low -> dGPU Power OFF ; High -> dGPU Power ON (always High) 3. For LVDS, DPx VDD10 should ramp-up before DPx VDD18 and the PCle Reference clock should begin before DPx VDD18. For power-down, DPx VDD18 should ramp-down before DPx VDD10. dGPU Power Pins Voltage PX 3.0 BACO Mode Max current 4. The external pull-ups on the DDC/AUX signals (if applicable) should ramp-up before or after both VDDC and PCIE PVDD. PCIE VDDR. TSVDD. VDDR4. VDD CT. OFF 1.8V ON 1679mA DPE PVDD, DP[F:E] VDD18, DP[D:A]_PVDD, VDD CT have ramped up. DP[D:A] VDD18, AVDD, VDD1DI, A2VDDQ, VDD2DI, 5.VDDC and VDD_CT should not ramp-up simultaneously. (e.g., VDDC should reach 90% before VDD_CT starts to DPLL PVDD, MPV18, and SPV18 ramp-up (or vice versa).) DP[F:E] VDD10, DP[D:A] VDD10, DPLL VDDC, and 1.0V OFF ON 575mA PCIE VDDC 1.0V OFF ON 2A Note: Do not drive any IOs before VDDR3 is ramped up. VDDR3(3.3VGS) VDDR3, and A2VDD 3.3V OFF ON 190mA ON Same as PCIE_VDDC BIF VDDC (current consumption = 55mA@1.0V, in Same as OFF 70mA PCIE VDDC(1.0V) BACO mode) VDDR1 OFF 1.5V OFF 2.8A **VDDR1(1.5VGS)** VDDC/VDDCI 1.12V OFF OFF 12.9A VDDC/VDDCI(1.12V) **VDD CT(1.8V) BACO Switch iGPU** dGPU **PERSTb** BIF_VDDC PE GPI01 REFCLK +3.3VGS **Straps Reset** +1.5VGS **Straps Valid** +1.0V +1.0VGS **Global ASIC Reset** +B +VGA CORE +1.8VGS Regulato +1.8V 5 T4+16clock PWRGOOD Compal Secret Data Compal Electronics, Inc. Security Classification 2010/07/12 2012/07/11 Issued Date Deciphered Date dGPU Block Diagram THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONFIDENTIAL AND TRADE SECRET INFORMATION. THIS SHEET MAY NOT BE TRANSFERED FROM THE CUSTODY OF THE COMPETENT DIVISION OF RAD DEPARTMENT EXCEPT AS AUTHORIZED BY COMPAL ELECTRONICS, INC. NEITHER THIS SHEET NOR THE INFORMATION IT CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, INC. Size B 1.0 QIQY2 LA6884P Wednesday, May 11, 2011









CFG Straps for Processor



PEG Static Lane Reversal - CFG2 is for the 16x

1: Normal Operation; Lane # definition matches socket pin map definition

* 0:Lane Reversed

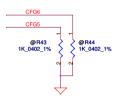


Display Port Presence Strap

CFG4

* 1 : Disabled; No Physical Display Port attached to Embedded Display Port

0 : Enabled; An external Display Port device is connected to the Embedded Display Port

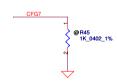


PCIE Port Bifurcation Straps

*11: (Default) x16 - Device 1 functions 1 and 2 disabled CFG[6:5] 10: x8, x8 - Device 1 function 1 enabled; function 2

disabled
01: Reserved - (Device 1 function 1 disabled; function 2 enabled)

00: x8,x4,x4 - Device 1 functions 1 and 2 enabled



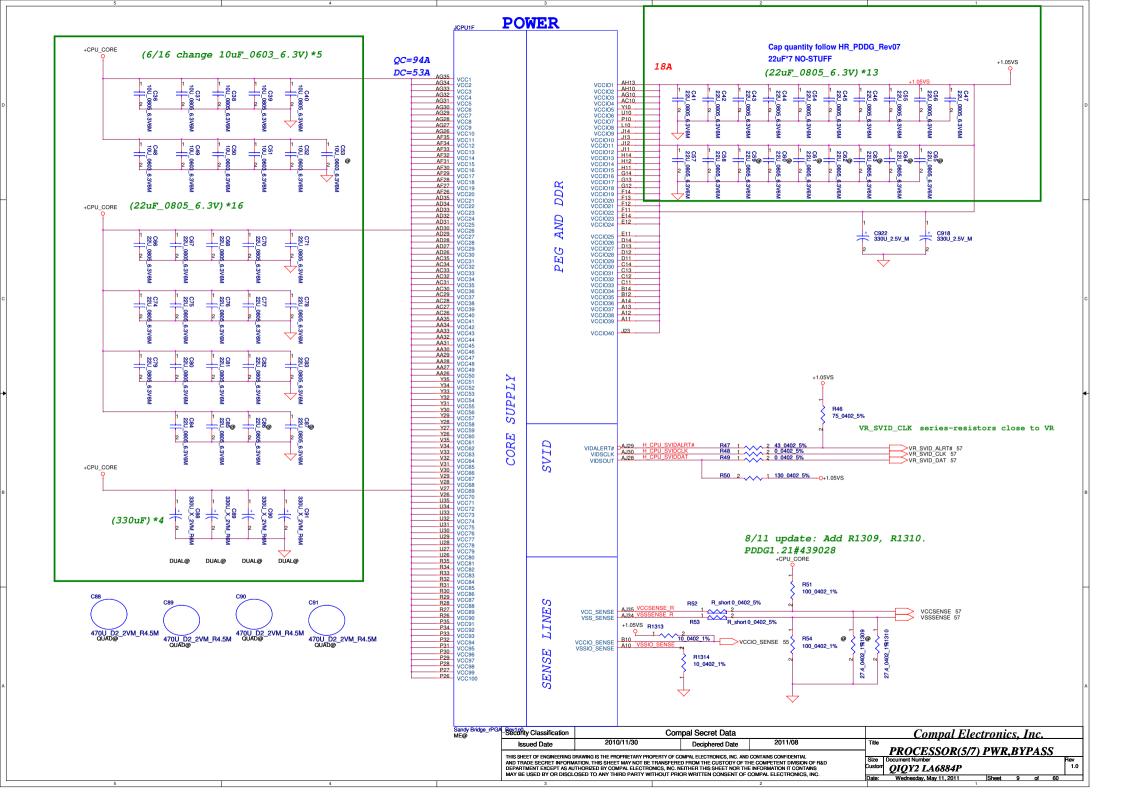
PEG DEFER TRAINING

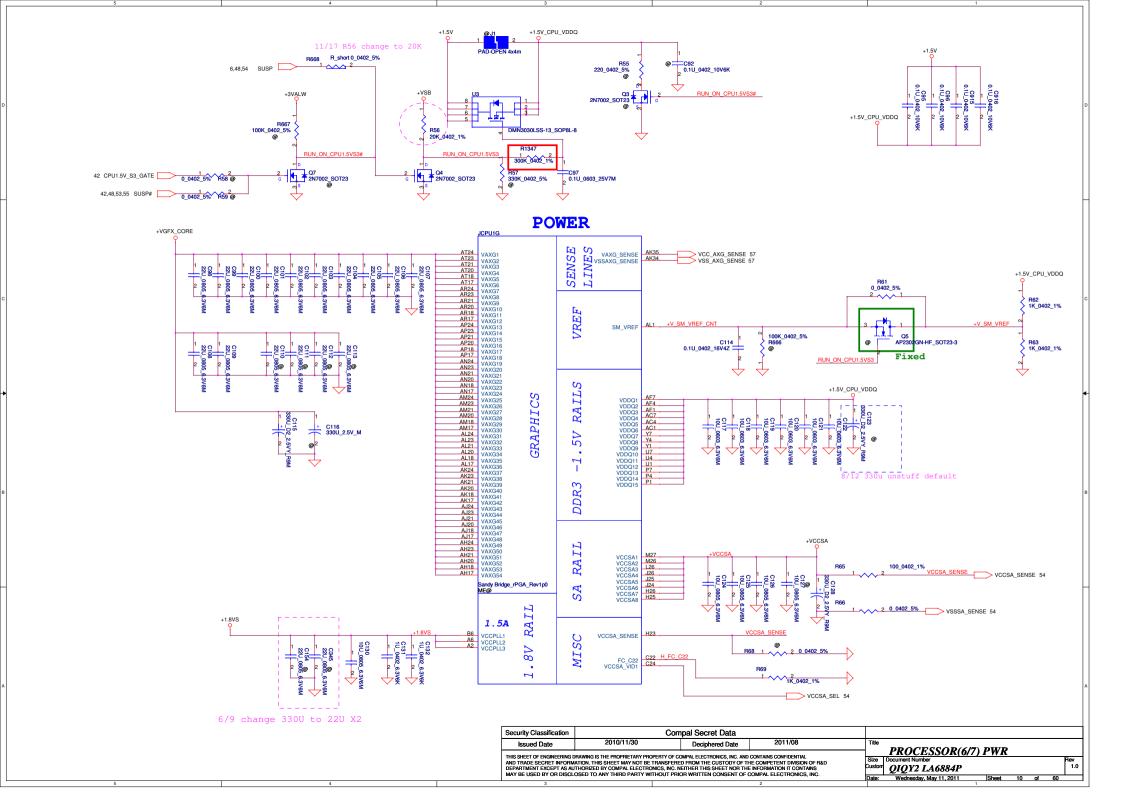
CFG7

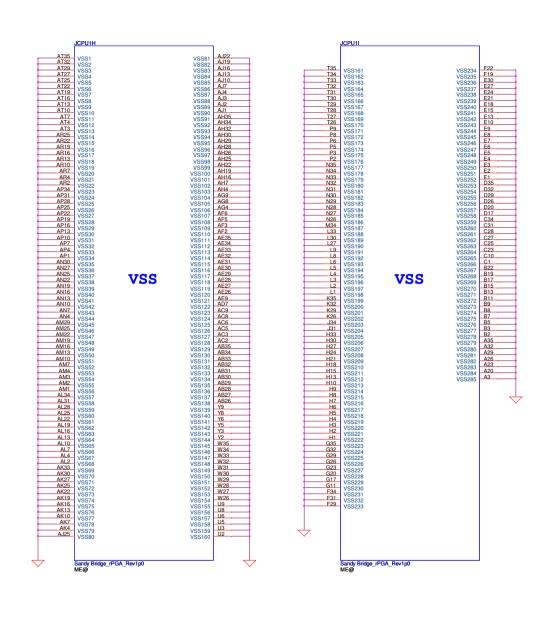
1: (Default) PEG Train immediately following $\ensuremath{\mathsf{xxRESETB}}$ de assertion

0: PEG Wait for BIOS for training

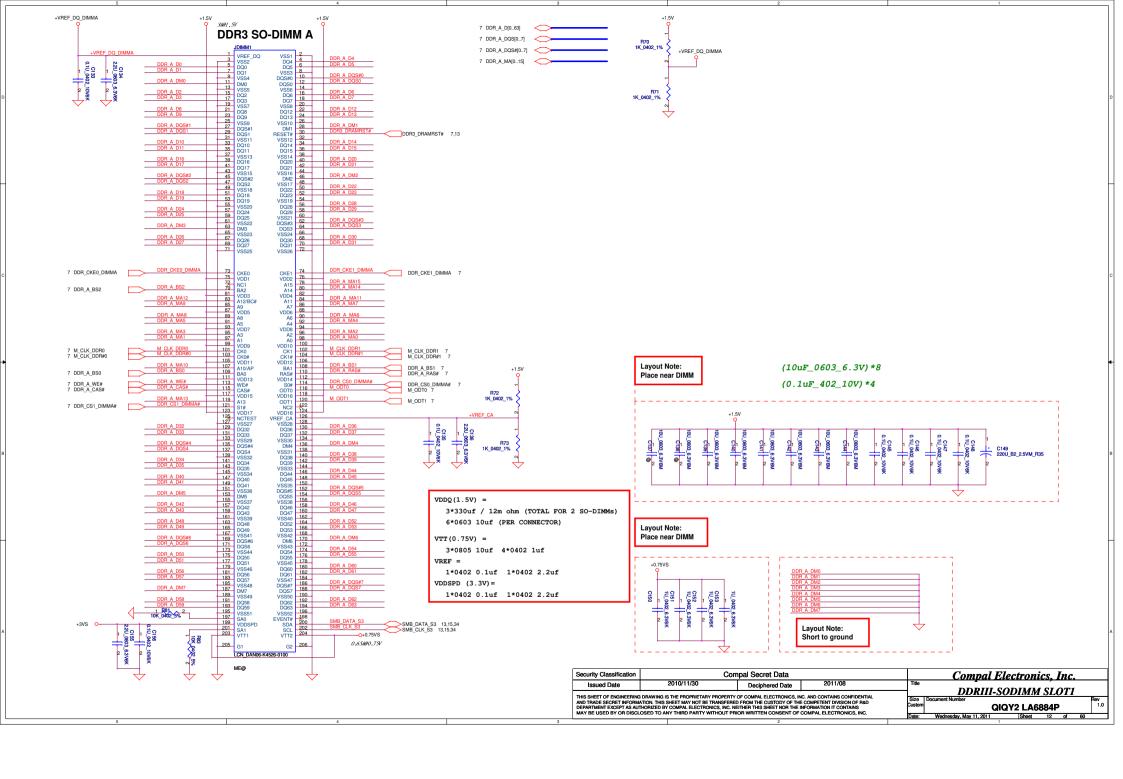
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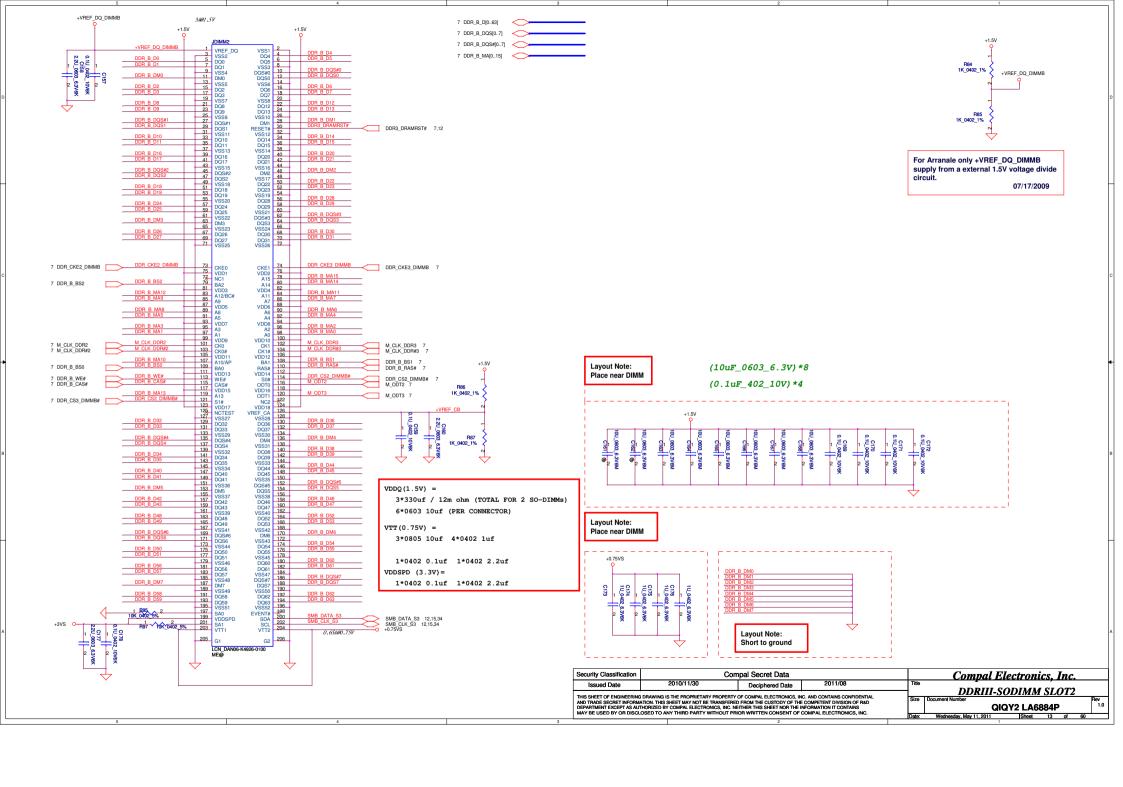


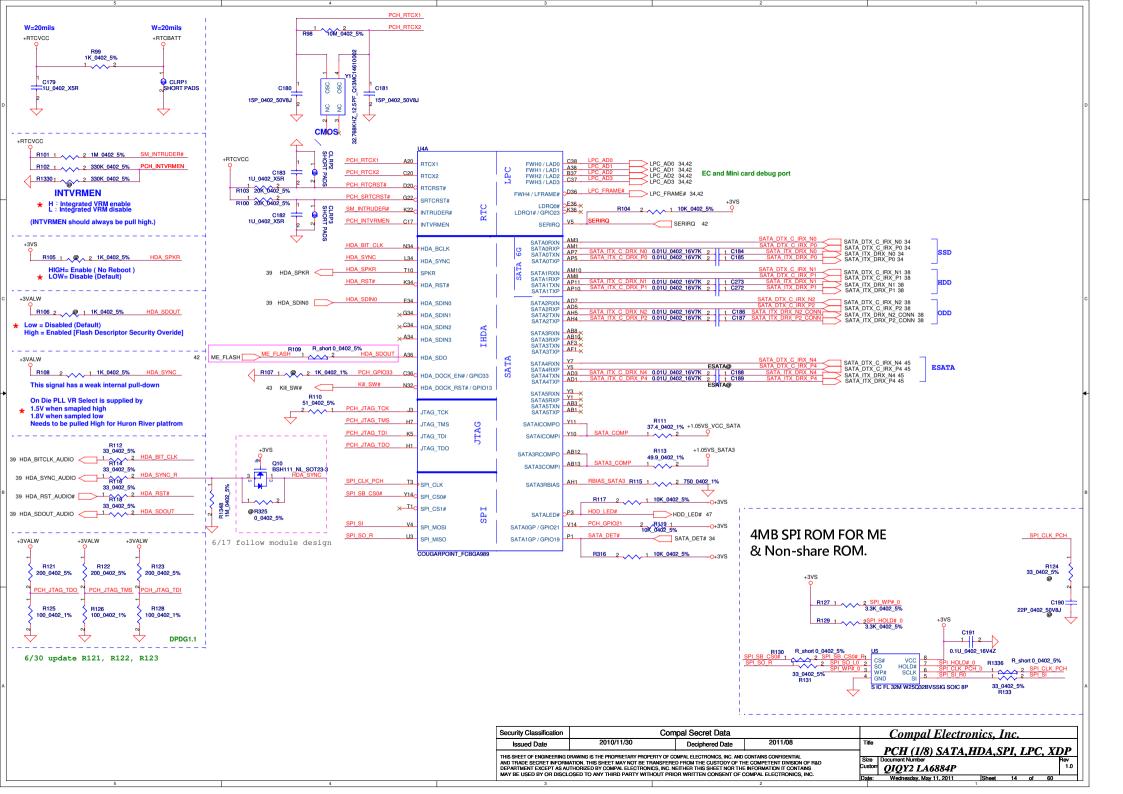


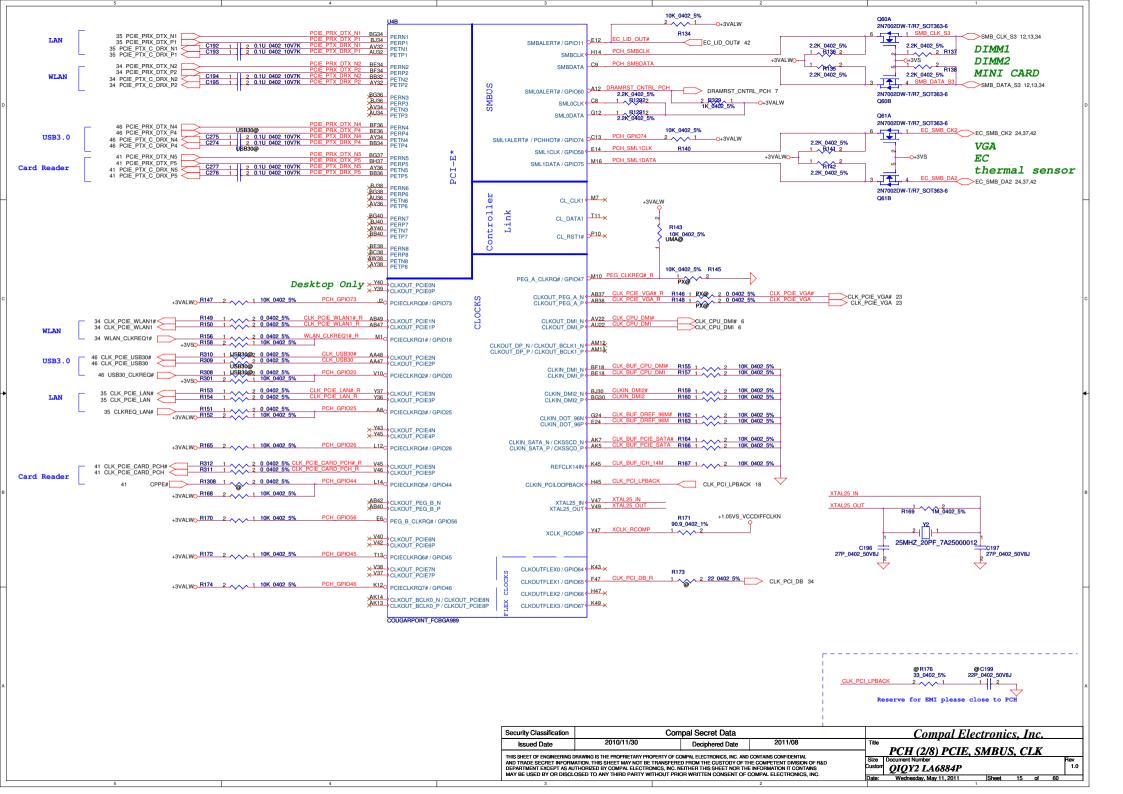


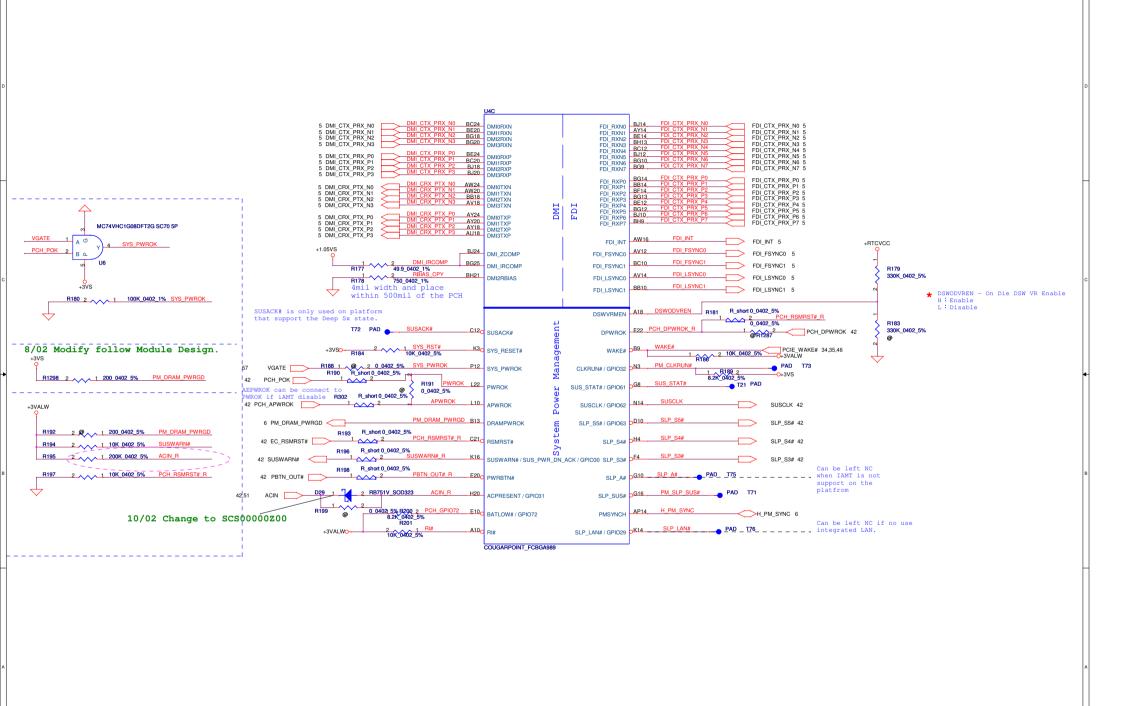
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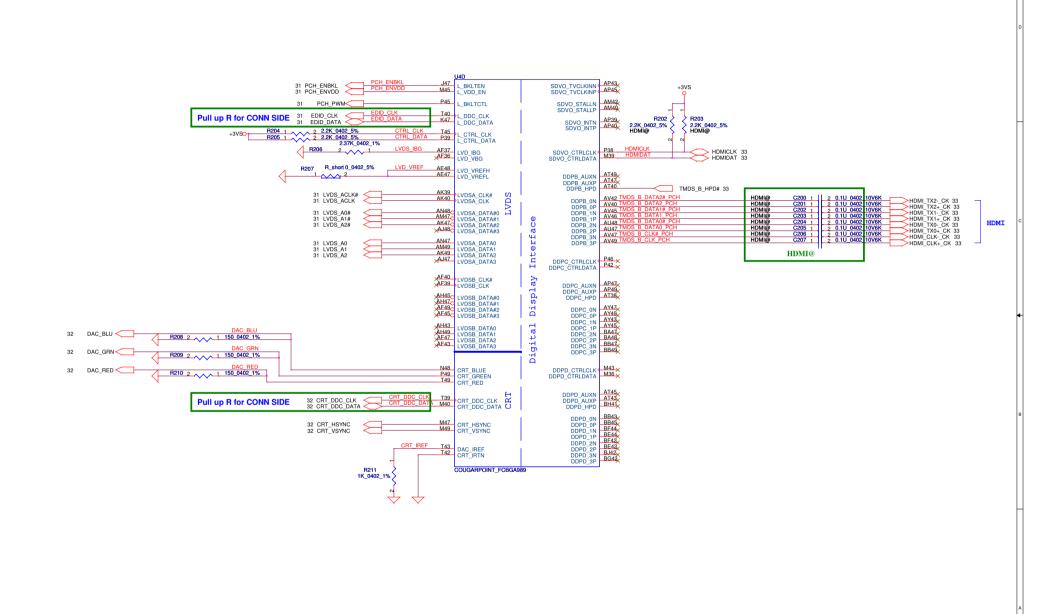




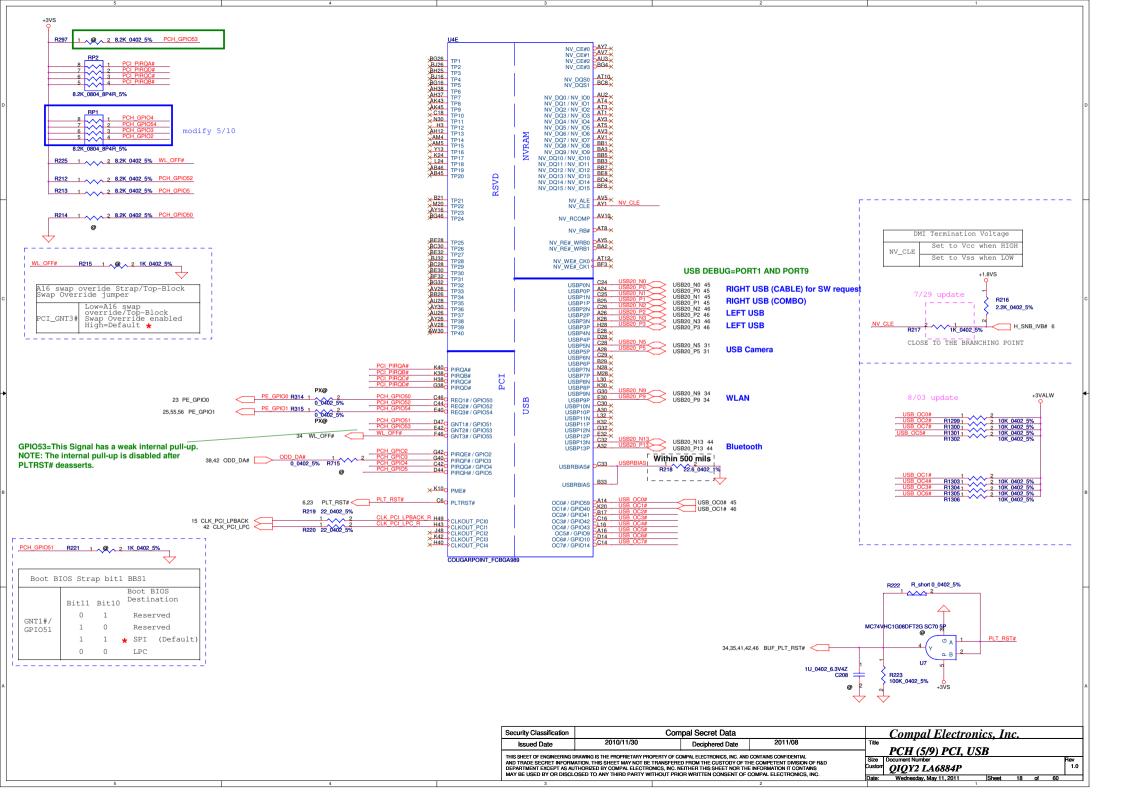


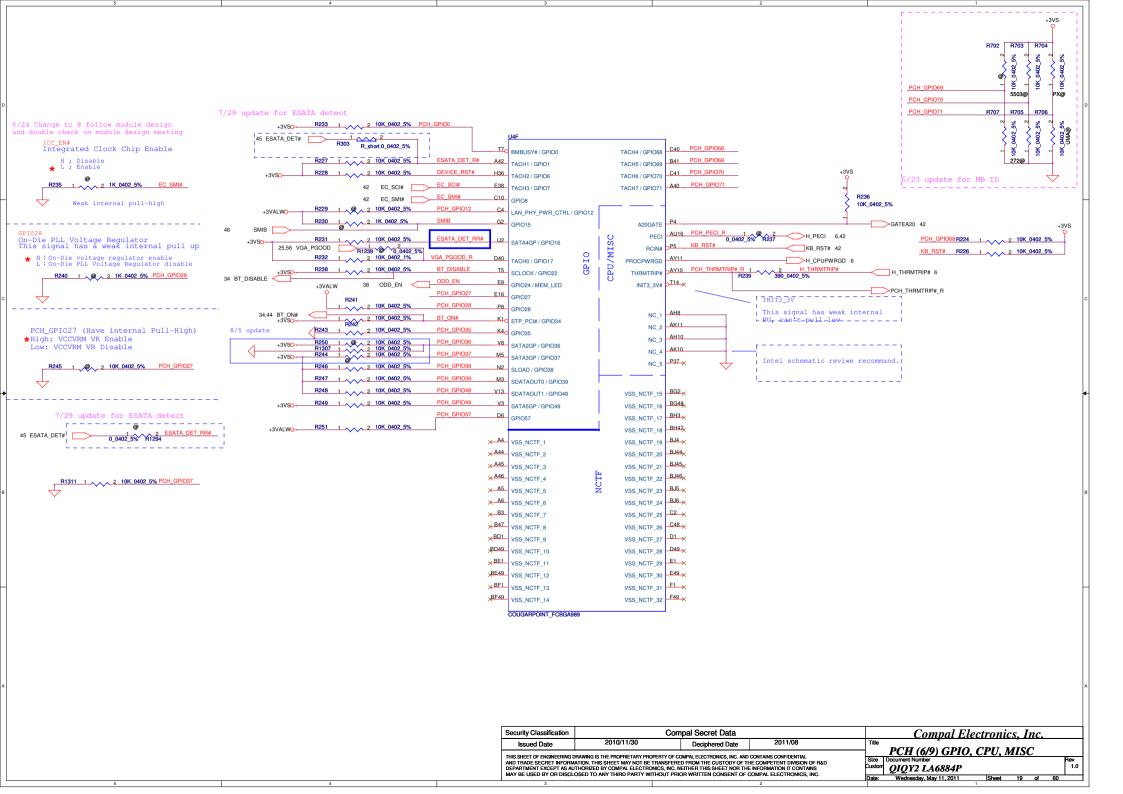


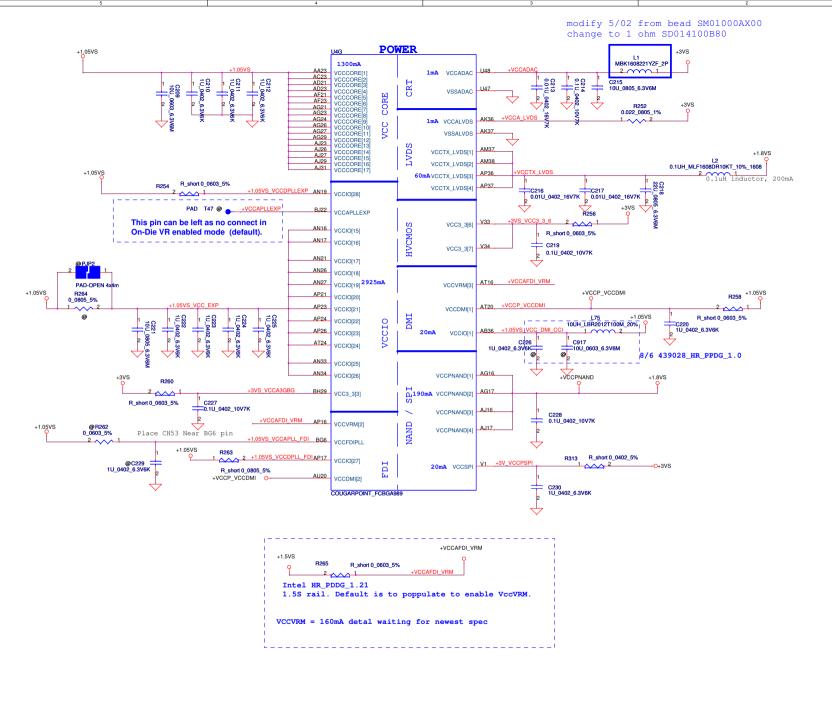
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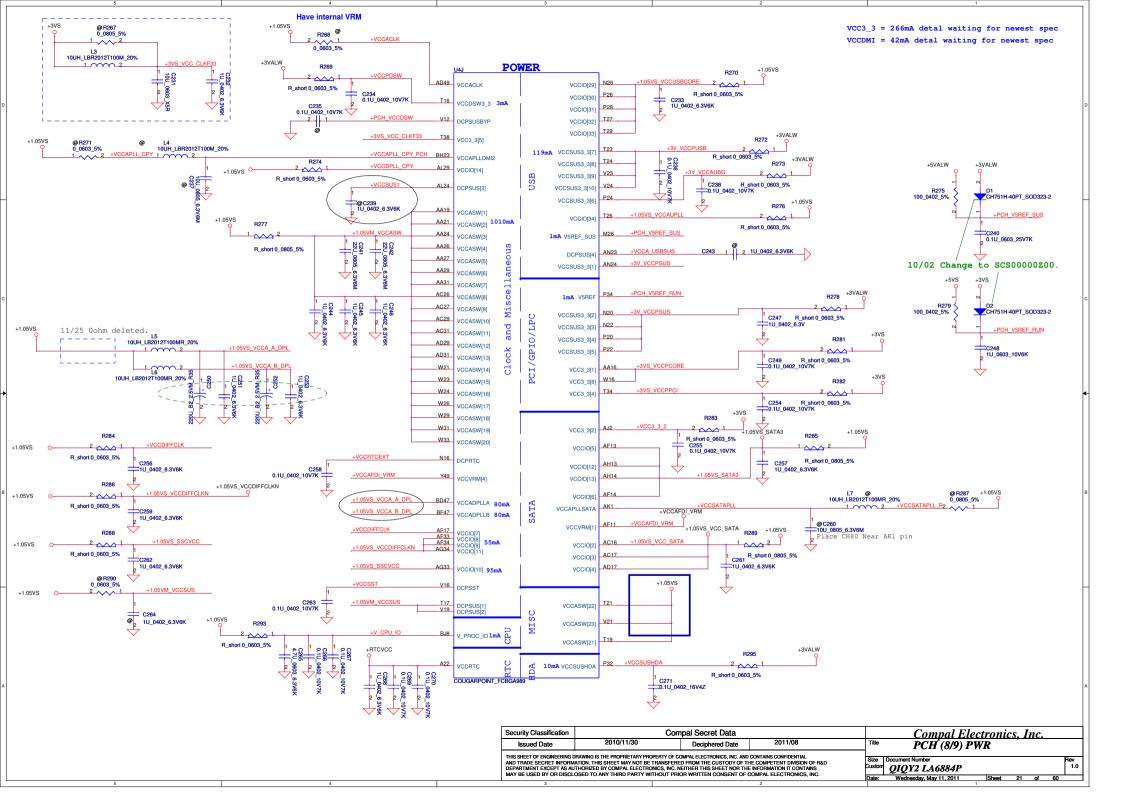


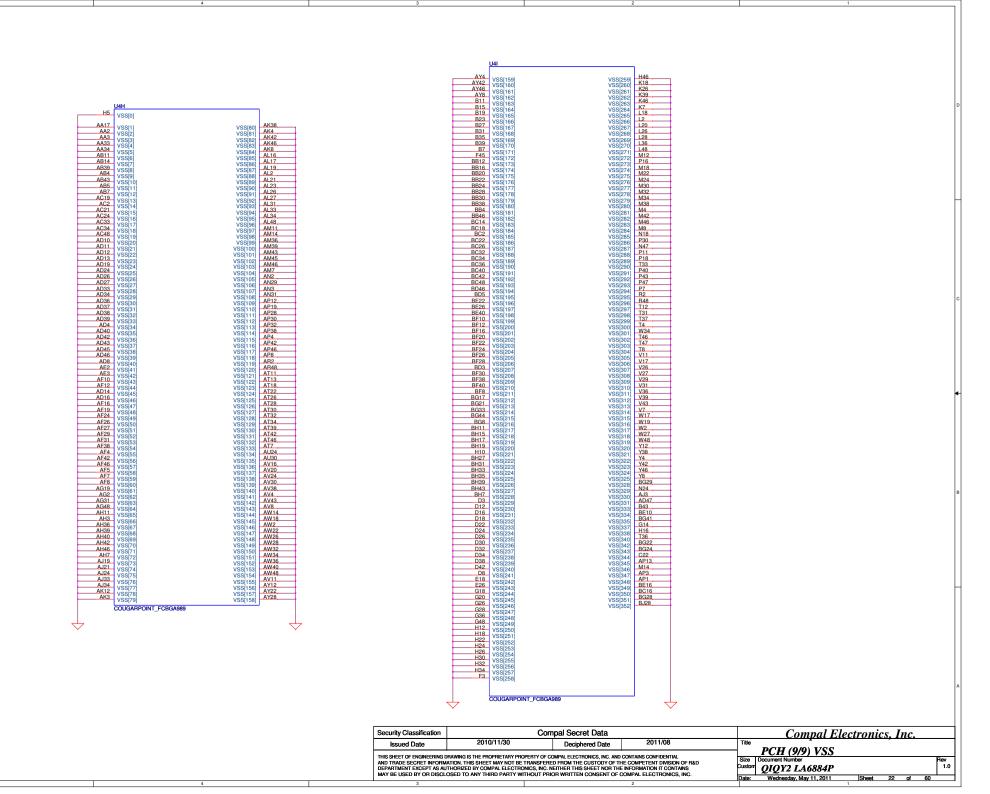


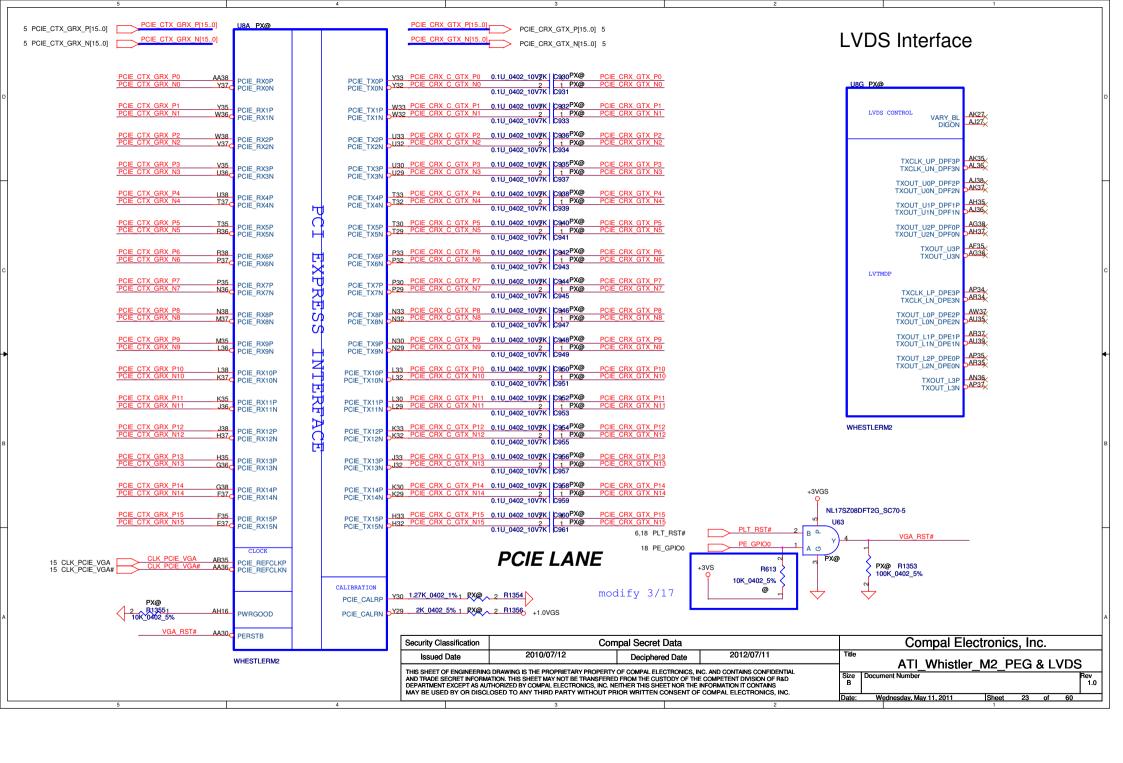


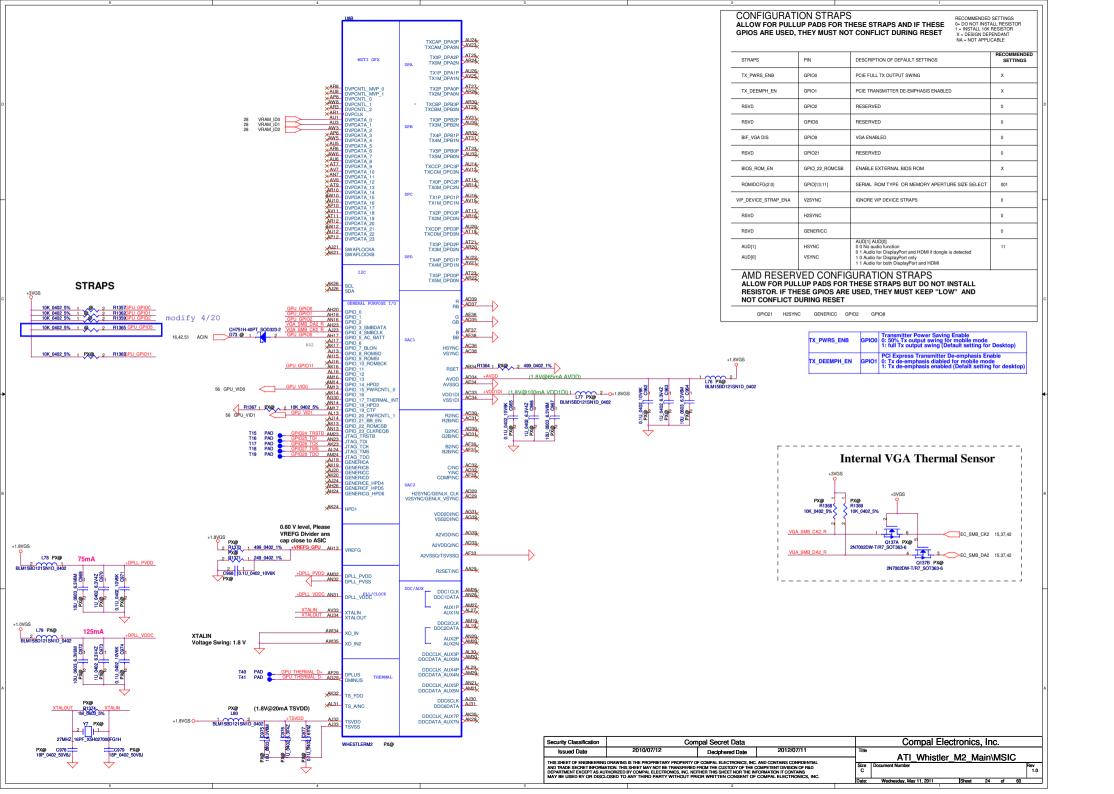
PCH Po	ower Rail	
Voltage Rail	Voltage	S0 Iccmax Current (A)
V_PROC_IO	1.05	0.001
V5REF	5	0.001
V5REF_Sus	5	0.001
Vcc3_3	3.3	0.266
VccADAC	3.3	0.001
VccADPLLA	1.05	0.08
VccADPLLB	1.05	0.08
VccCore	1.05	1.3
VccDMI	1.05	0.042
VecIO	1.05	2.925
VccASW	1.05	1.01
VccSPI	3.3	0.02
VccDSW	3.3	0.003
VccpNAND	1.8	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

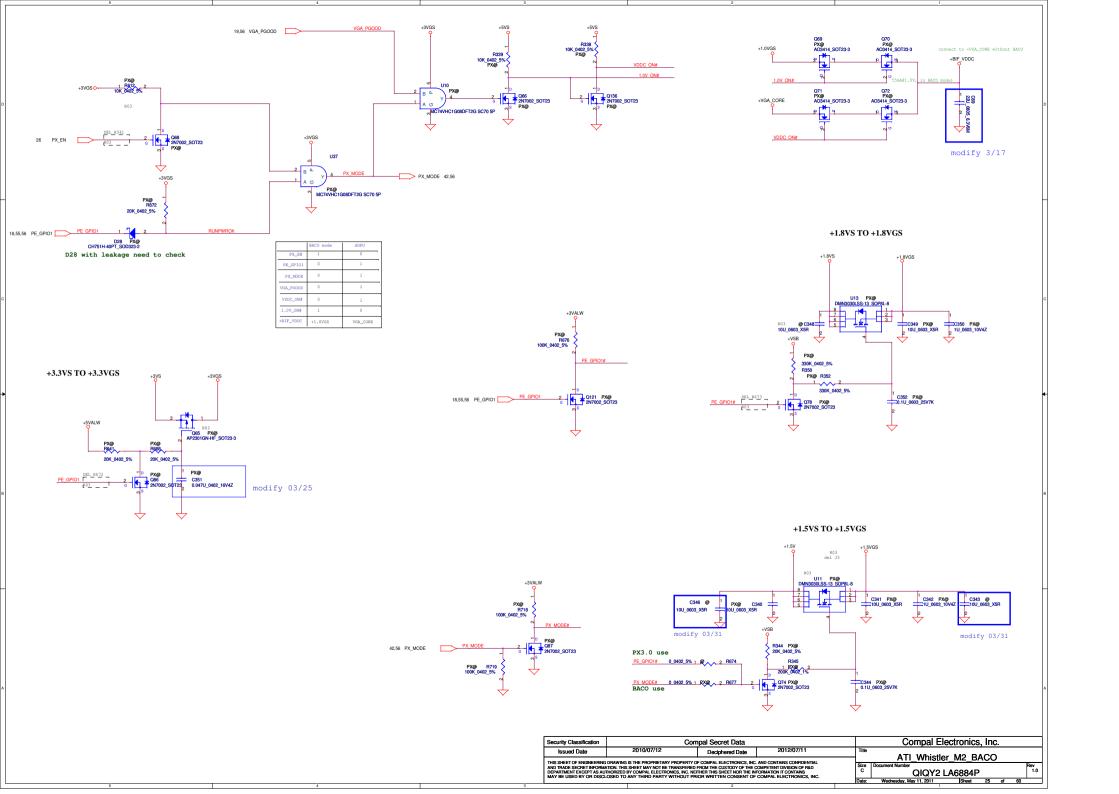
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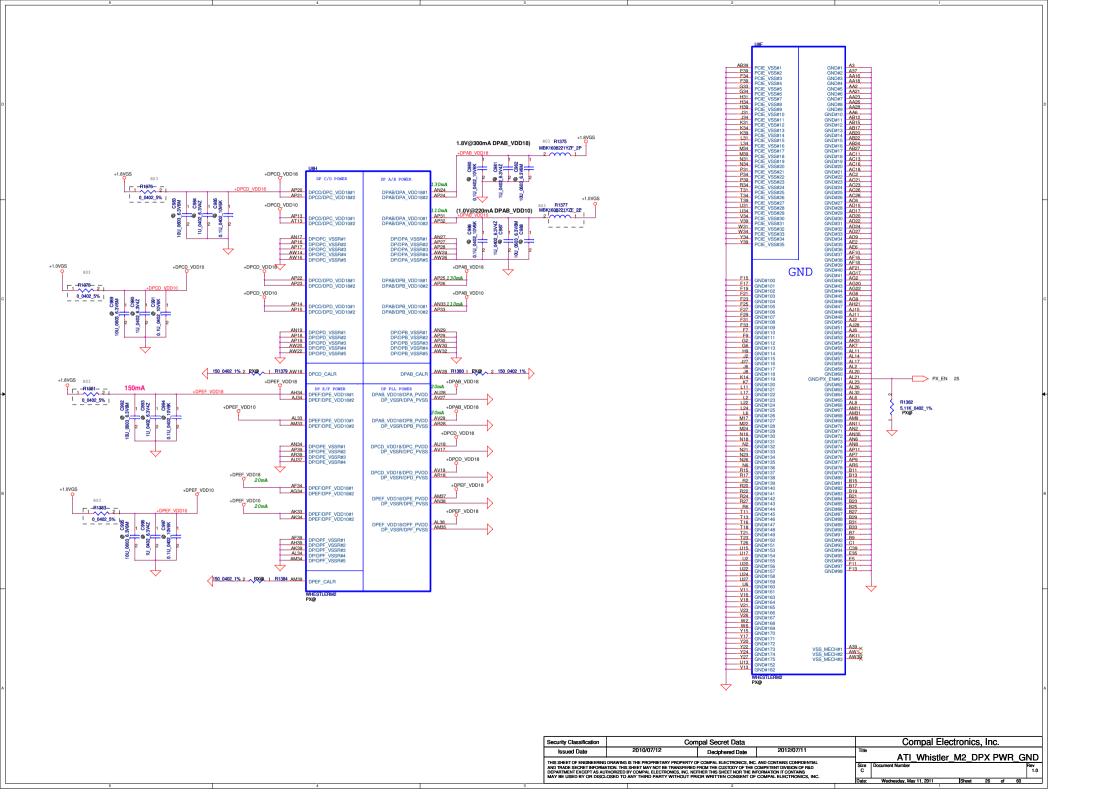


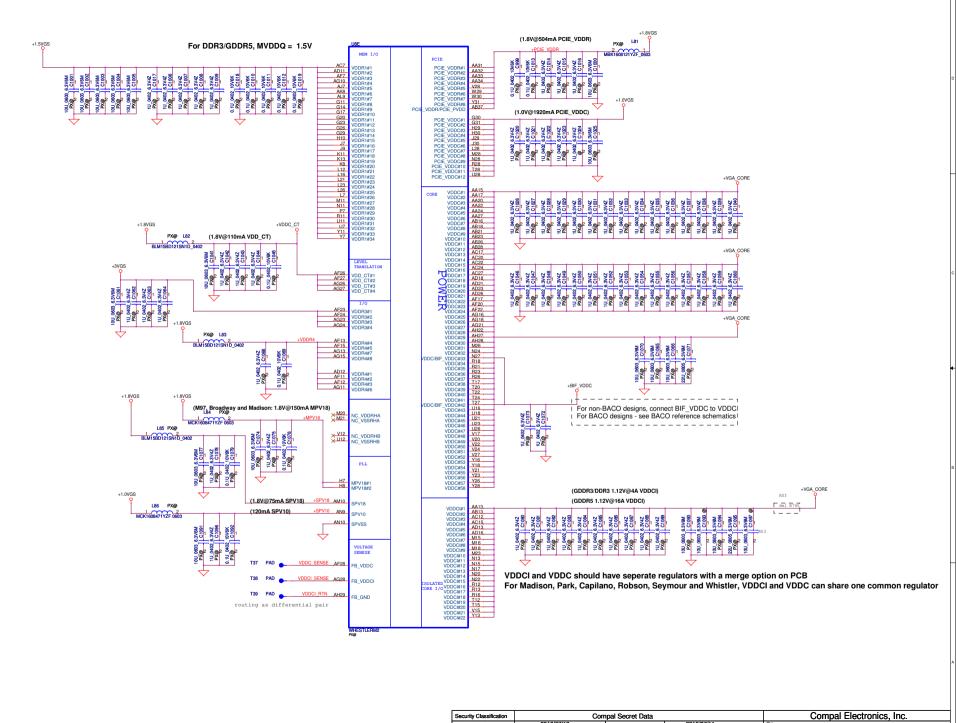




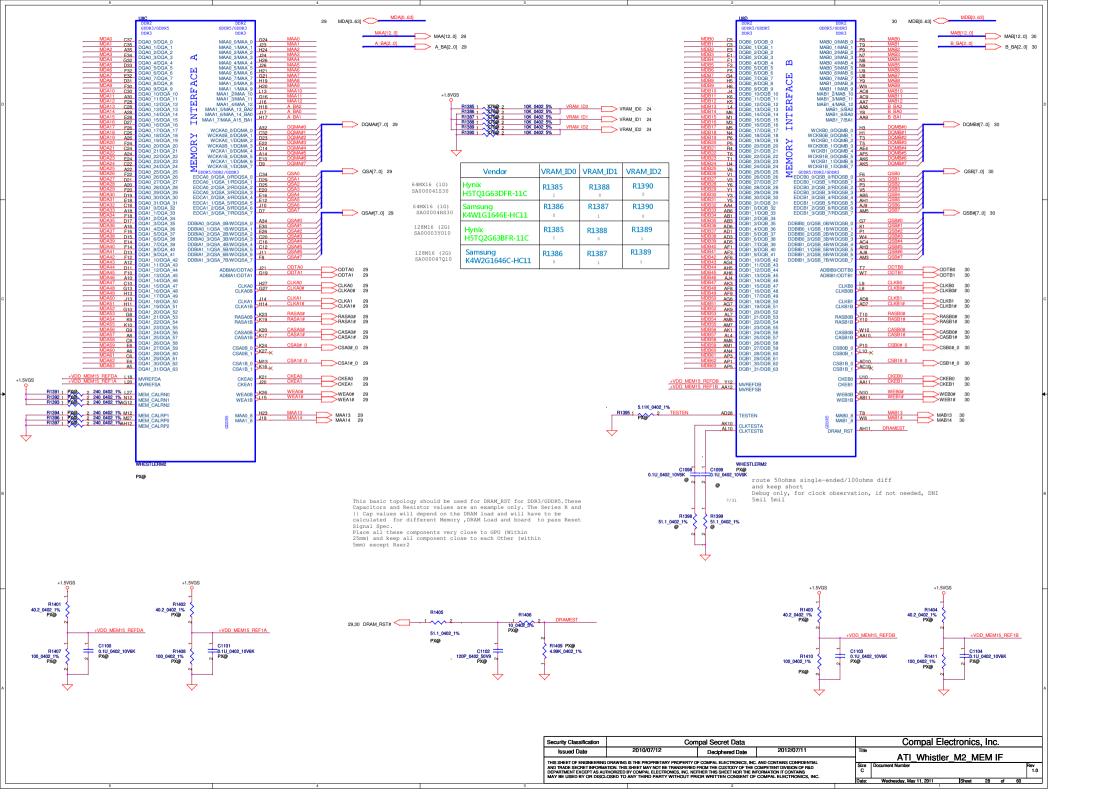


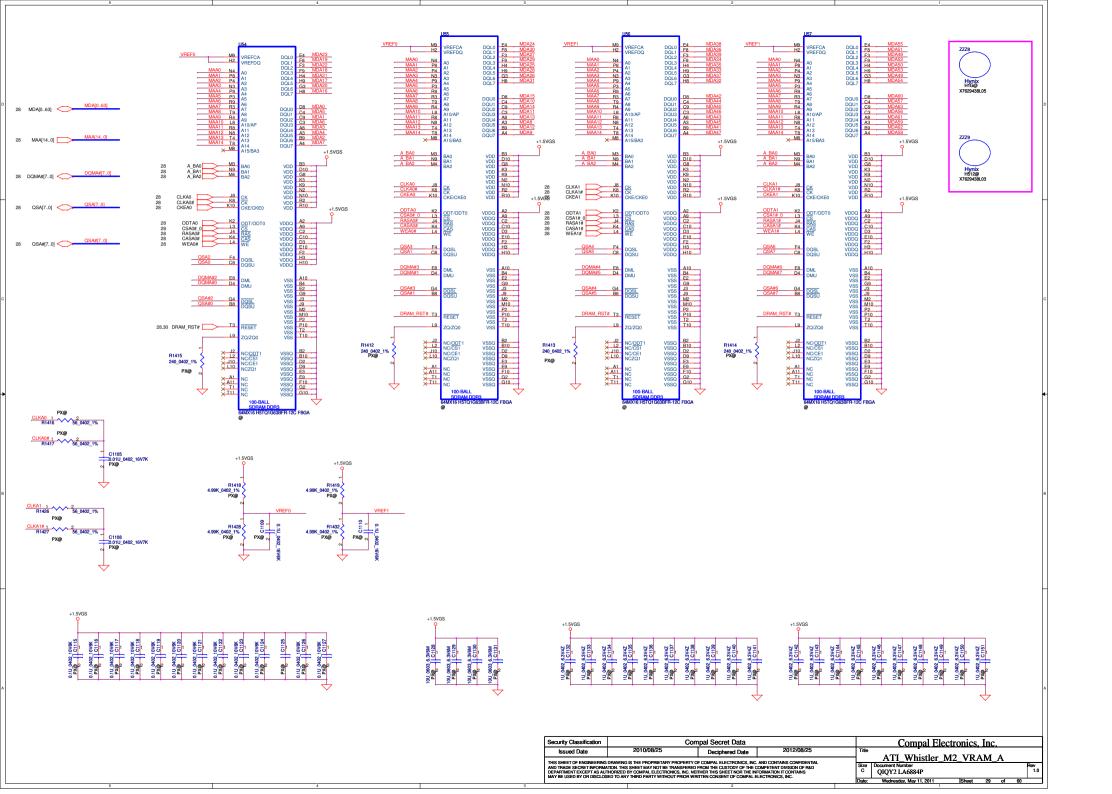


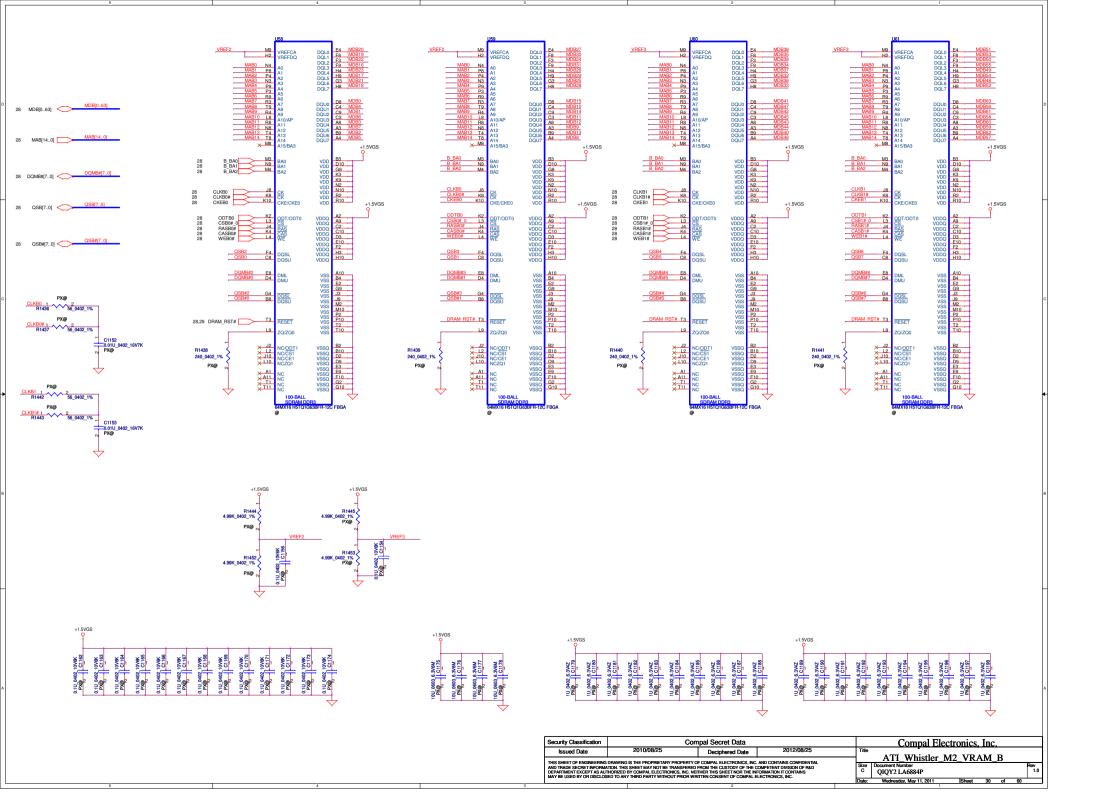


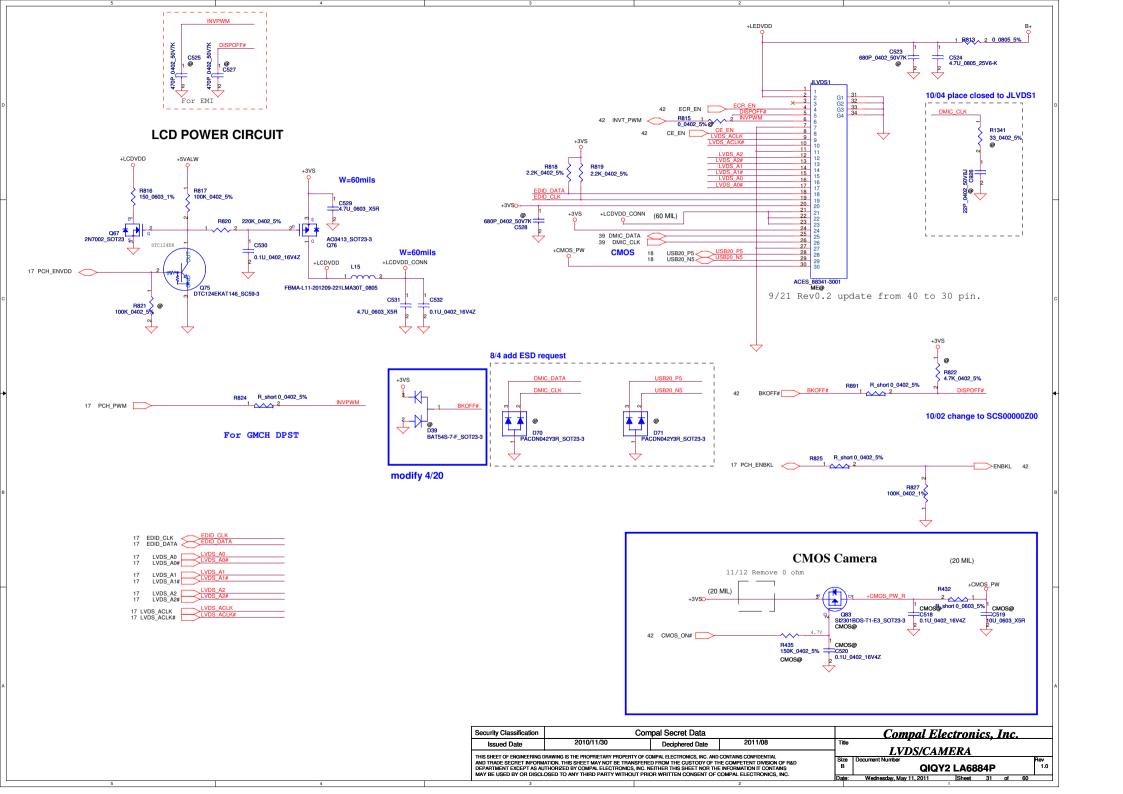


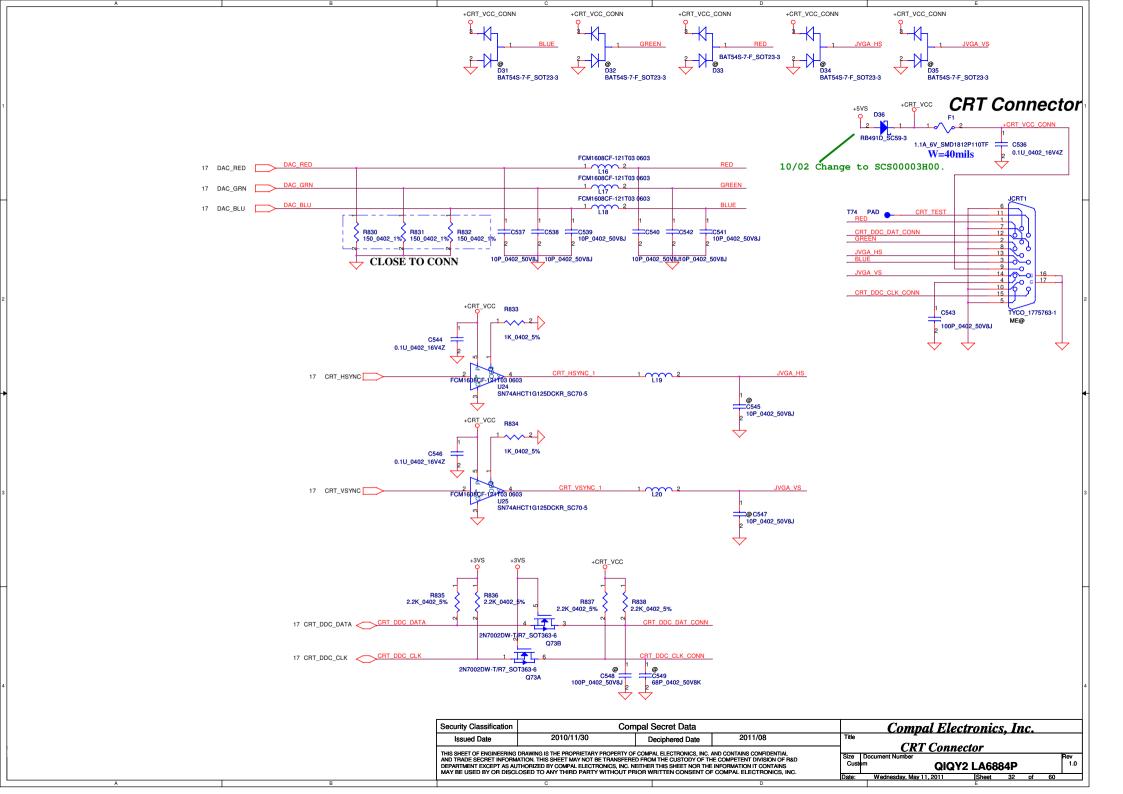
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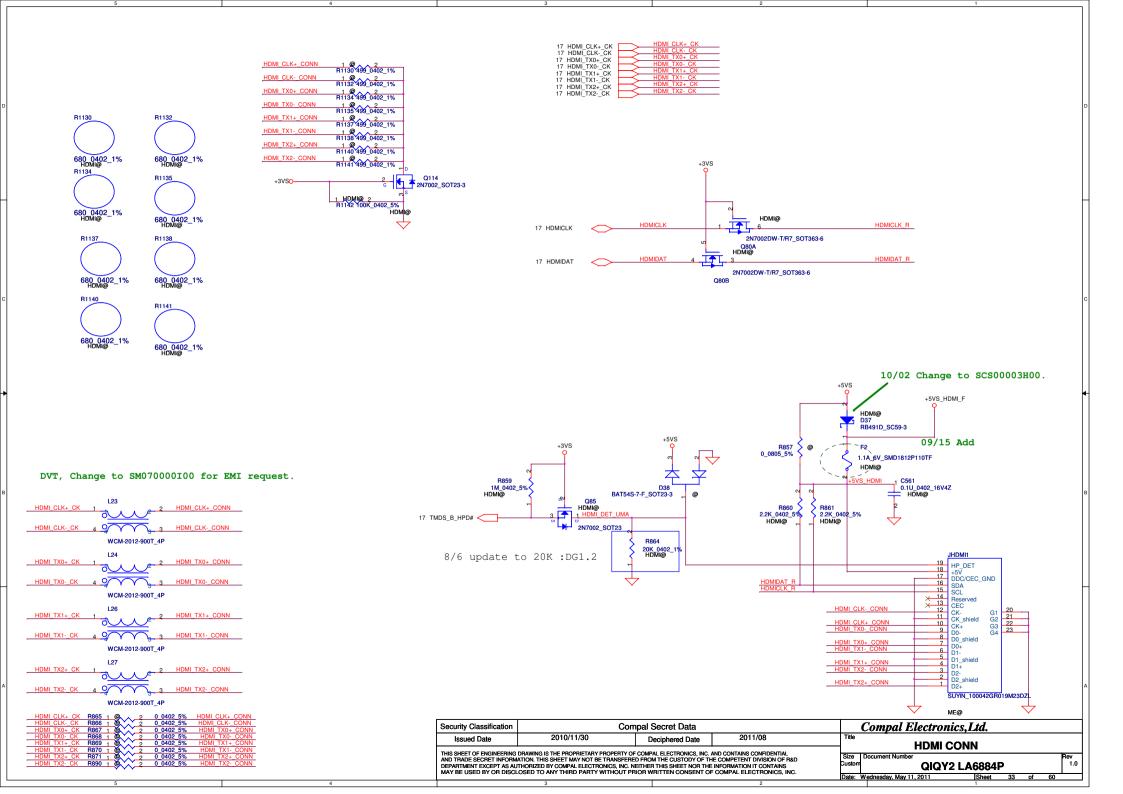


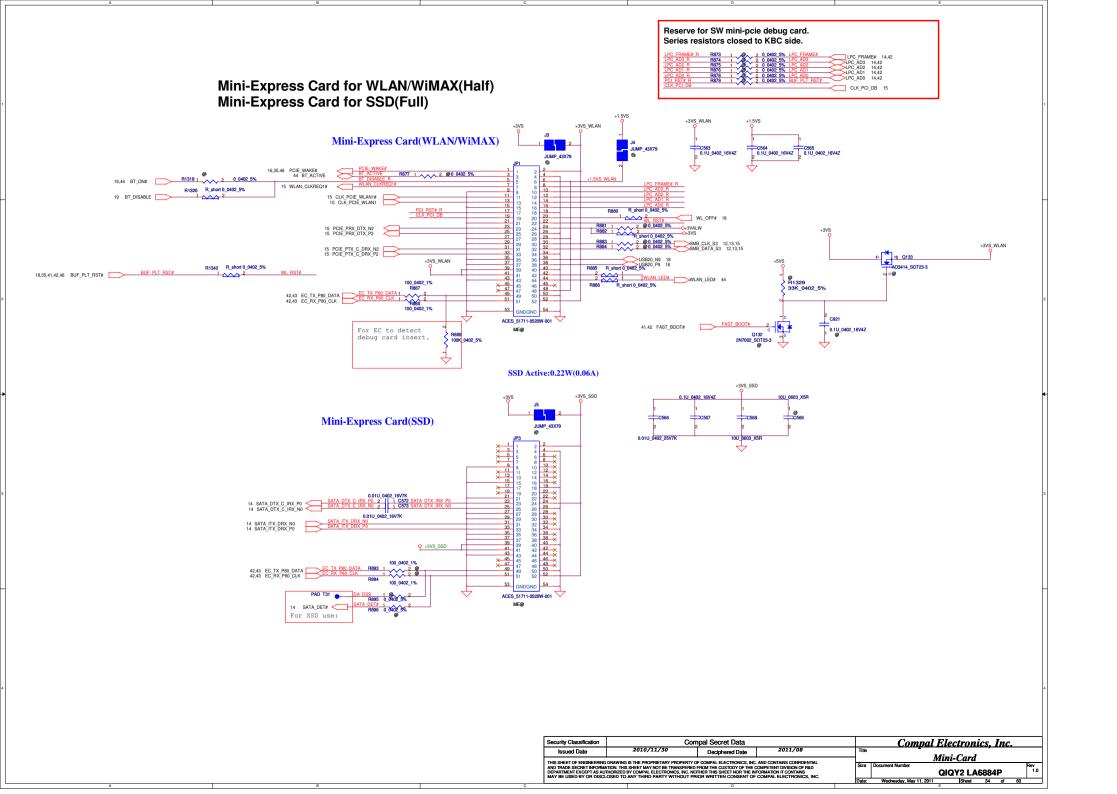


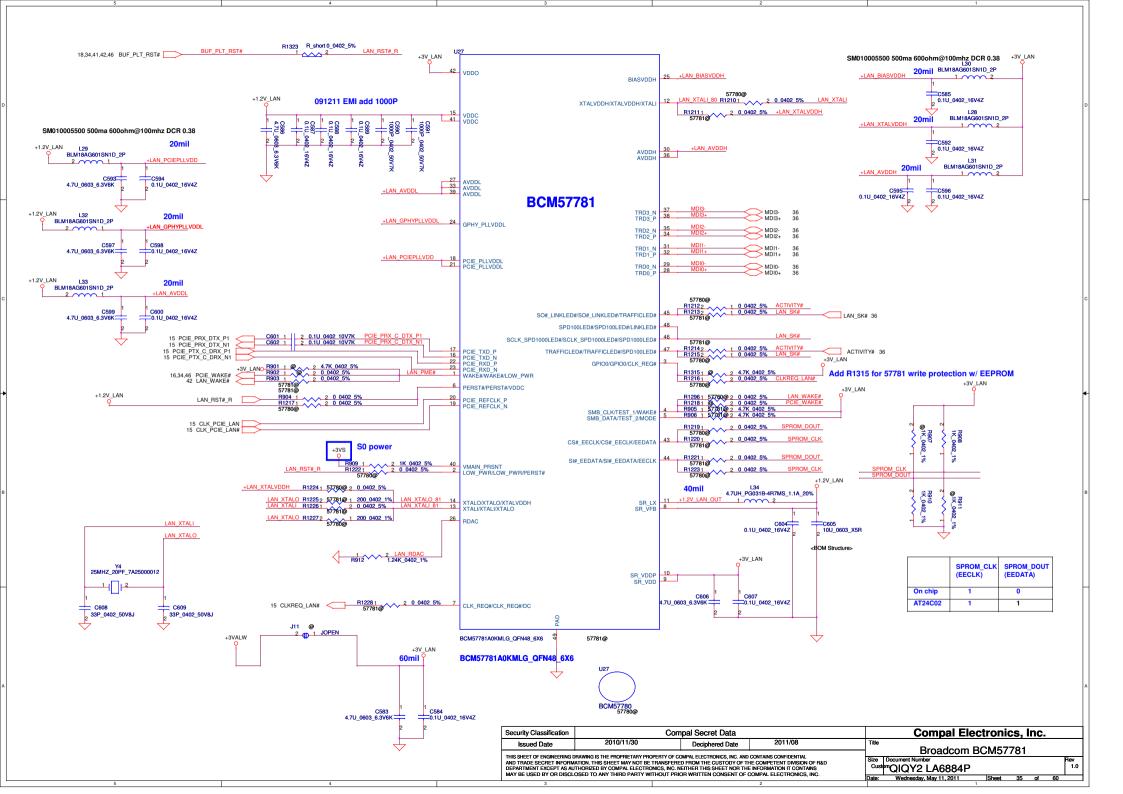


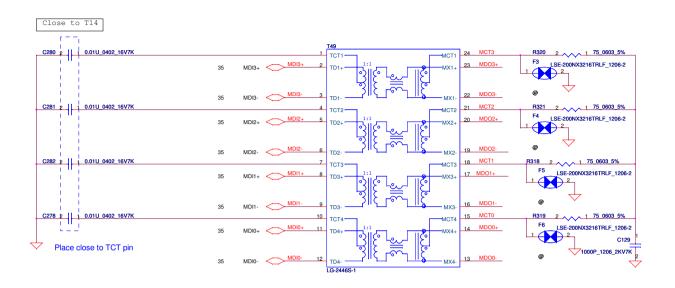




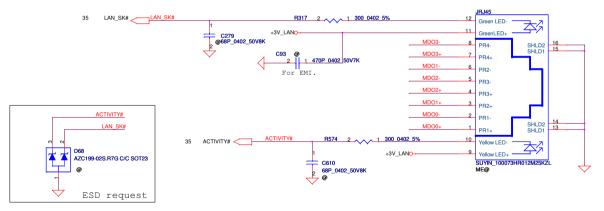




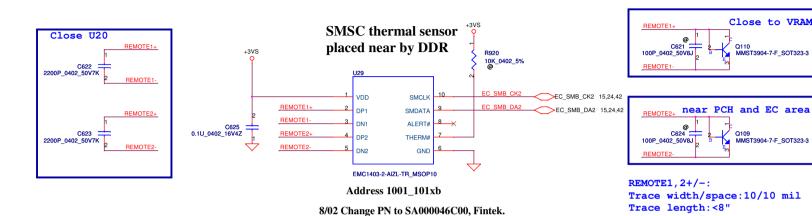








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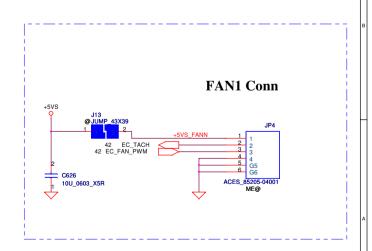
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2011/08

2010/11/30



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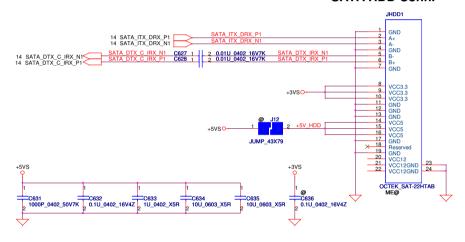
Date: Wednesday, May 11, 2011

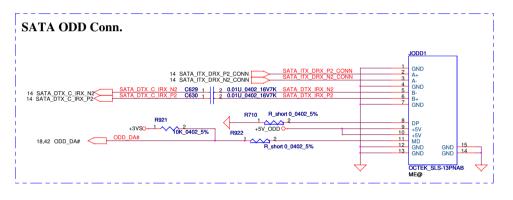
EMC1403_Thermal sensor/FAN

QIQY2 LA6884P

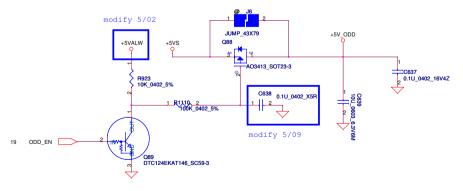
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SATA HDD Conn.

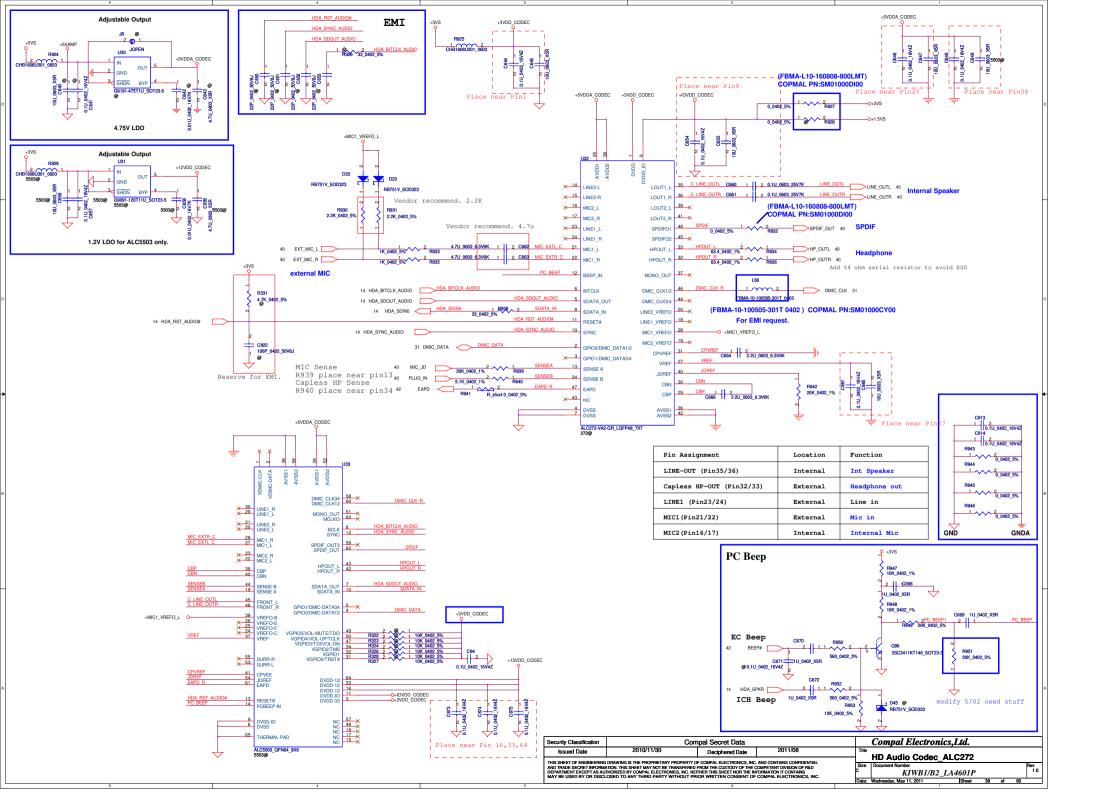


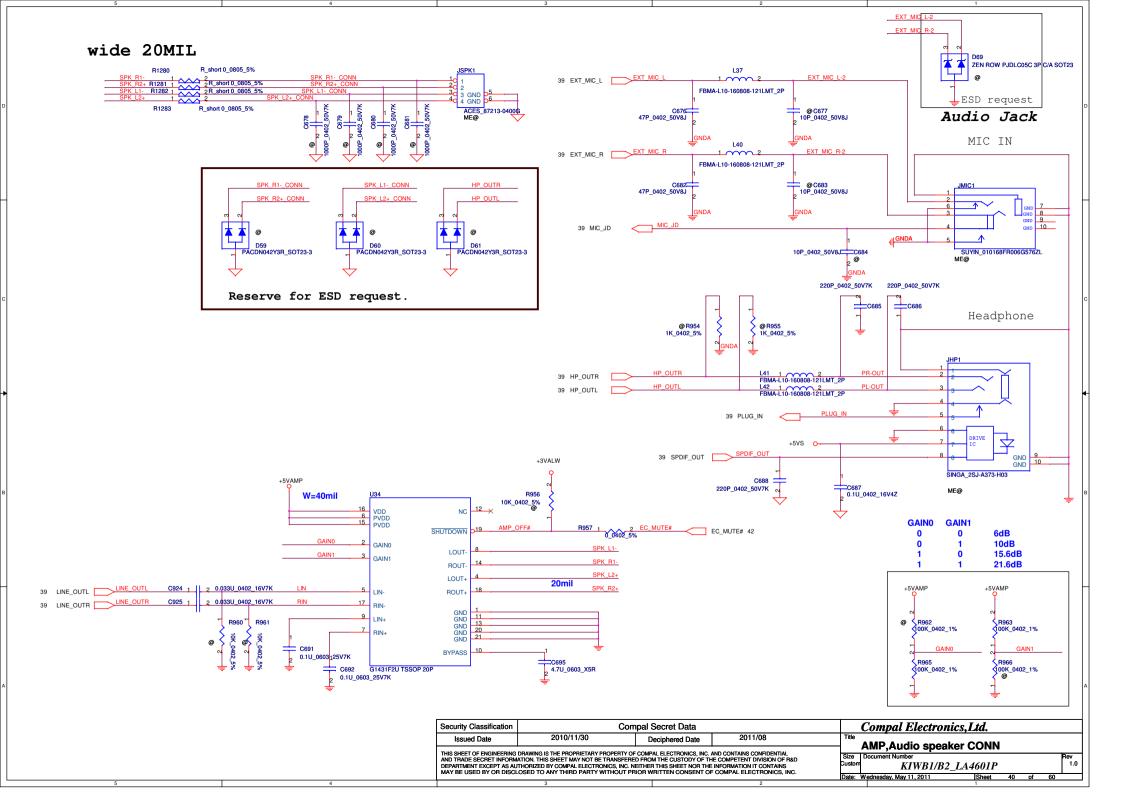


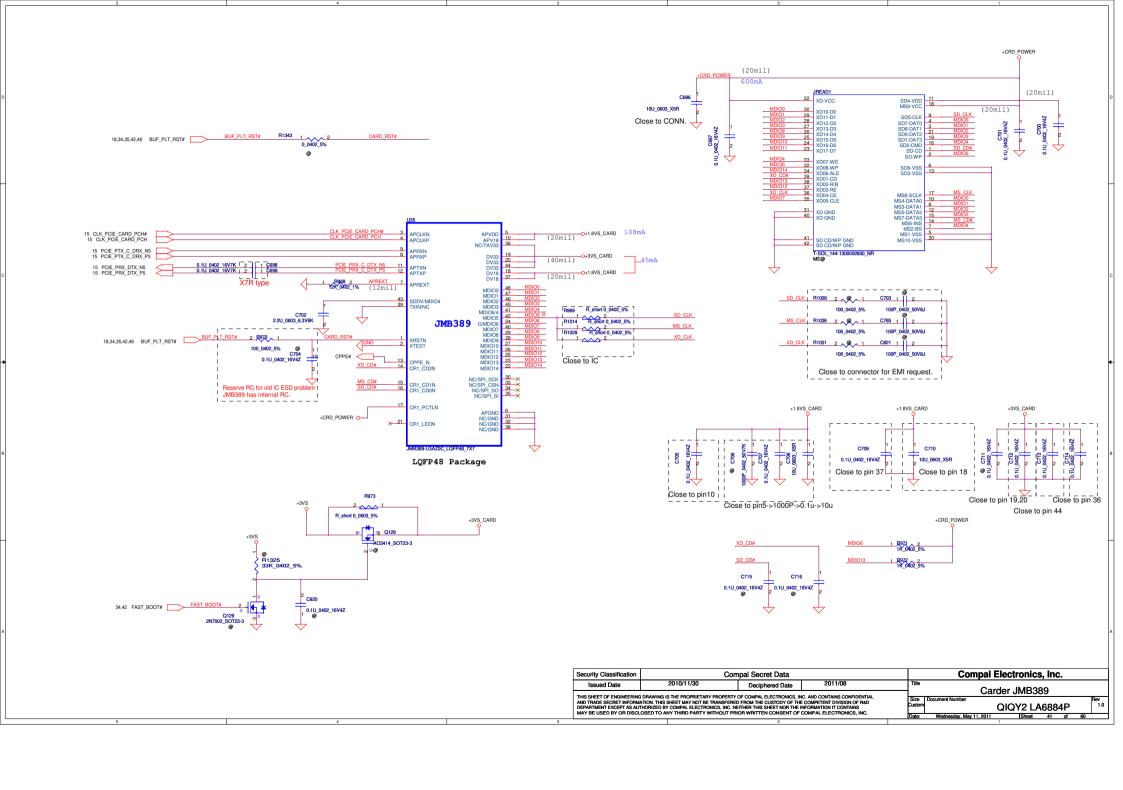
ODD Power Control

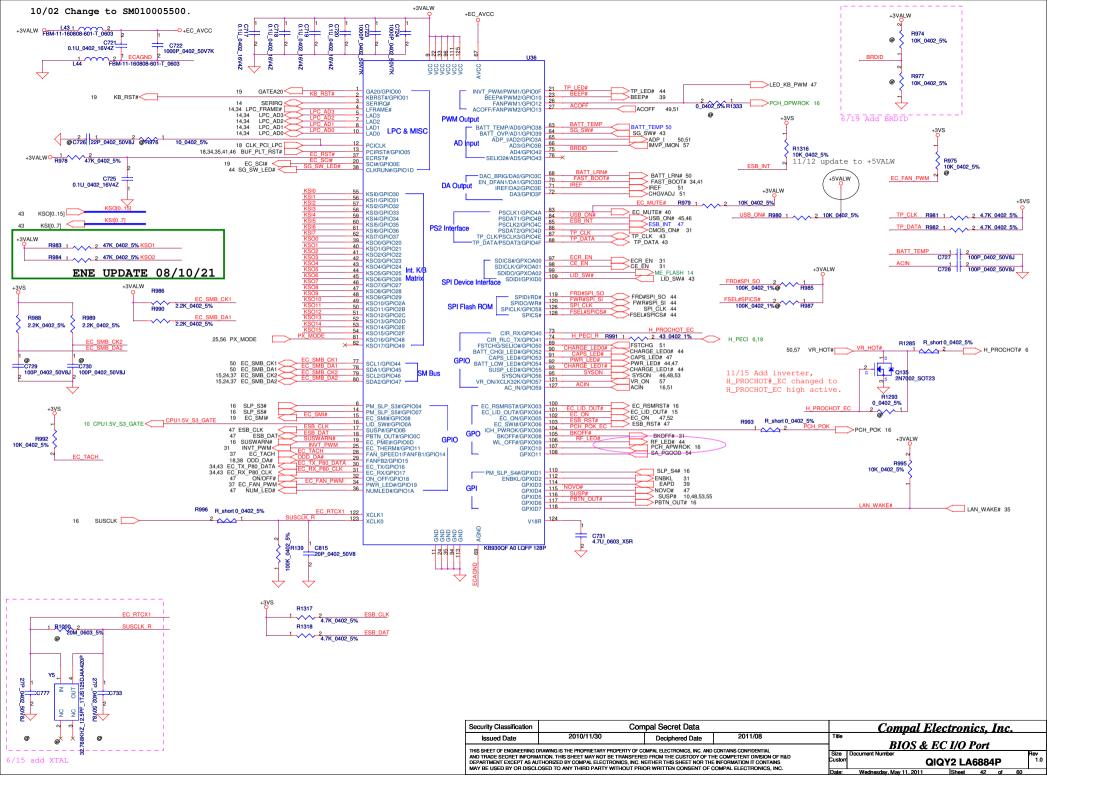


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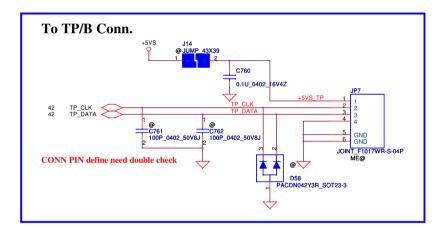


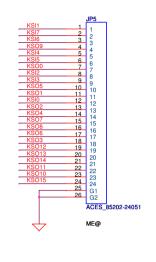


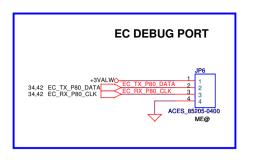
INT_KBD Conn.

KSI[07]		KSI[07] 42			
KSO[01	5]	KSO[015] 42			
KSO2	C734 1	2 @100P_0402_50V8J	KSO1	C735 1	2 @100P_0402_50V8J
KSO15	C736 1	2 @100P_0402_50V8J	KSO7	C737 1	2 @100P_0402_50V8J
KSO6	C738 1	2 @100P_0402_50V8J	KSI2	C739 1	2 @100P_0402_50V8J
KSO8	C740 1	2 @100P_0402_50V8J	KSO5	C741 1	2 @100P_0402_50V8J
KSO13	C742 1	2 @100P_0402_50V8J	KSI3	C743 1	2 @100P_0402_50V8J
KSO12	C744 1	2 @100P_0402_50V8J	KSO14	C745 1	2 @100P_0402_50V8J
KSO11	C746 1	2 @100P_0402_50V8J	KSI7	C747 1	2 @100P_0402_50V8J
KSO10	C748 1	2 @100P_0402_50V8J	KSI6	C749 1	2 @100P_0402_50V8J
KSO3	C750 1	2 @100P_0402_50V8J	KSI5	C751 1	2 @100P_0402_50V8J
KSO4	C752 1	2 @100P_0402_50V8J	KSI4	C753 1	2 @100P_0402_50V8J
KSI0	C754 1	2 @100P_0402_50V8J	KSO9	C755 1	2 @100P_0402_50V8J
KSO0	C756 1	2 @100P_0402_50V8J	KSI1	C757 1	2 @100P_0402_50V8J
					_

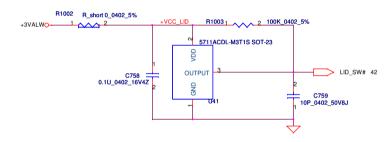
CONN PIN define need double check

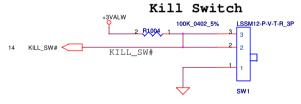




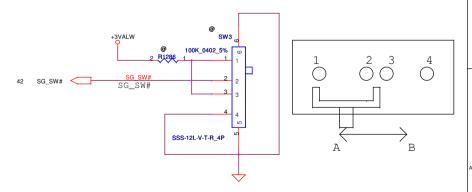


Lid Switch



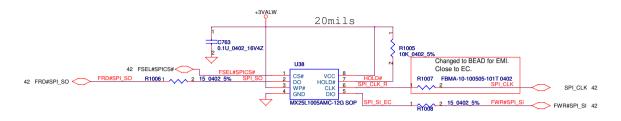


_3P	Kill	
	STATUS	
	1,2(LOW)	OFF
	2,3(HI)	ON



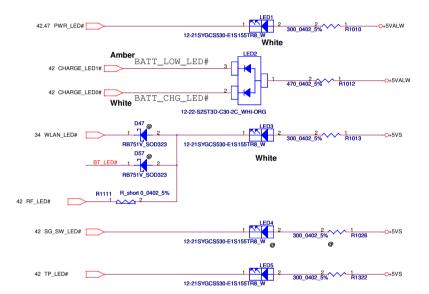
Security Classification	Con	npal Secret Data		Compal Electronics. Inc.		
Issued Date	2010/11/30	Deciphered Date	2011/08	Title	VD /GW /LDC D 1 C	
	DRAWING IS THE PROPRIETARY PROPERTY OF	Size	KB /SW /LPC Debug Conn.	Rev		
DEPARTMENT EXCEPT AS AU	ATION. THIS SHEET MAY NOT BE TRANSFERE THORIZED BY COMPAL ELECTRONICS, INC. N OSED TO ANY THIRD PARTY WITHOUT PF	В	QIQY2 LA6884P	1.0		

FOR EC 128KB SPI ROM (150mil PACKAGE) P/N: SA00002C100

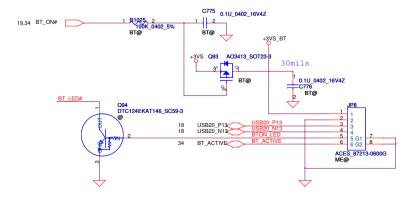


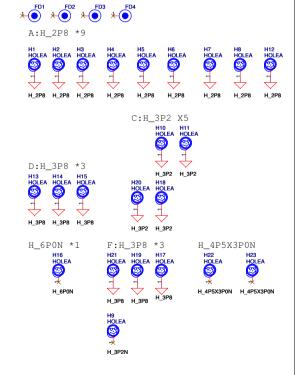
LED

SPI_CLK_R @ B330 Colse to EC @ EMI



BT MODULE CONN

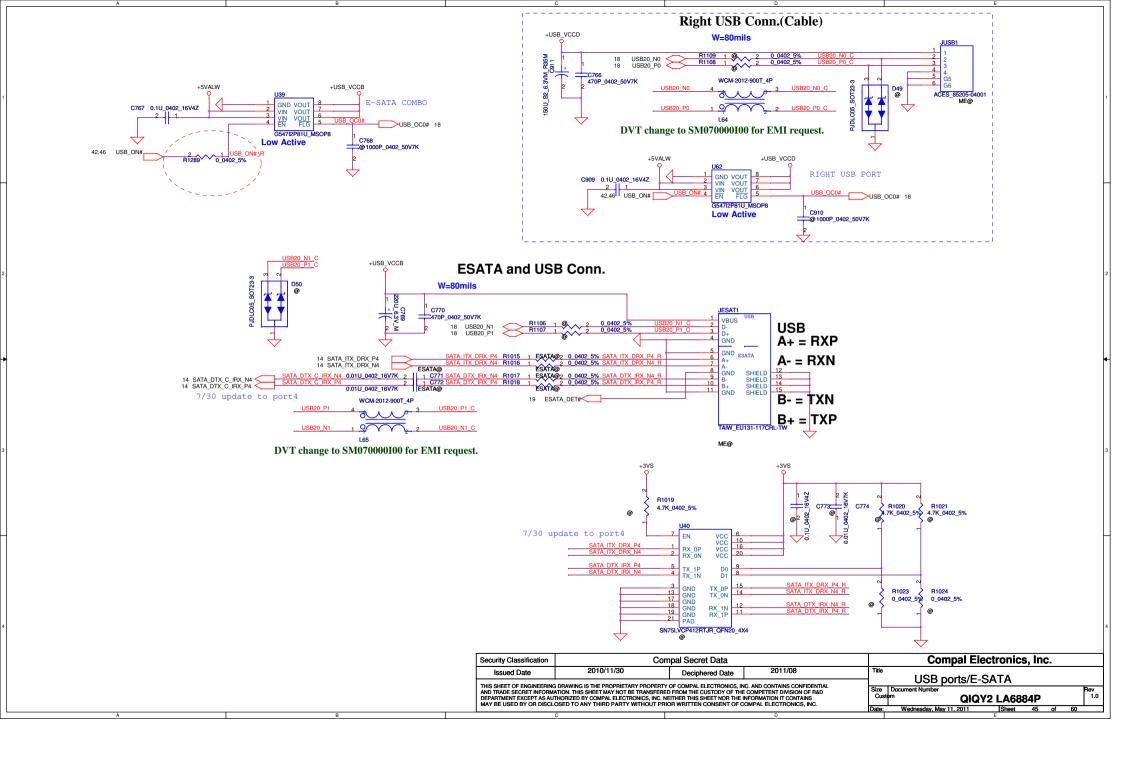


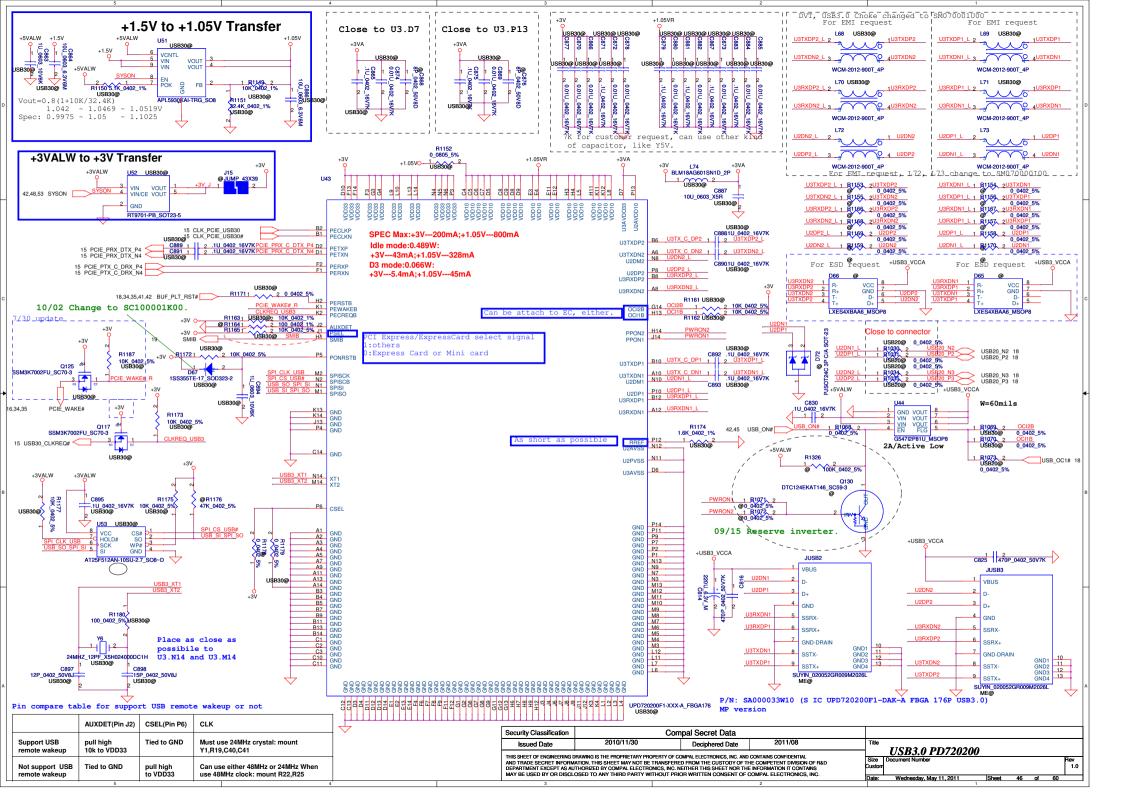


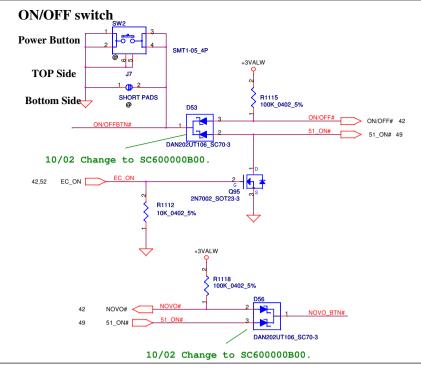
Wednesday, May 11, 2011

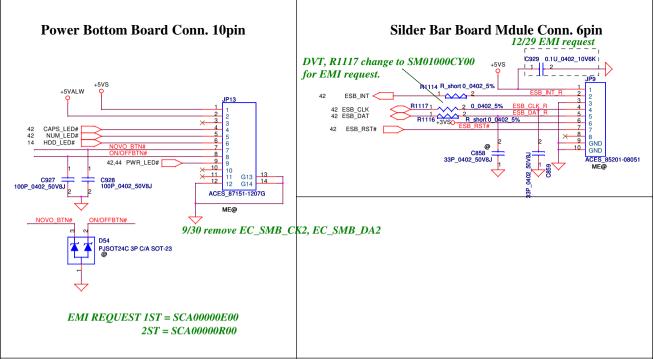
Sheet 44 of

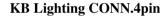
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	DRAWING IS THE PROPRIETARY PROPERTY OF C	Size	LED/EC SPI ROM/BT		
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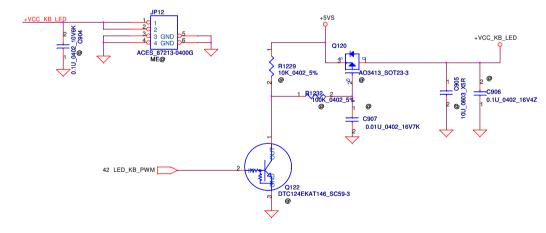




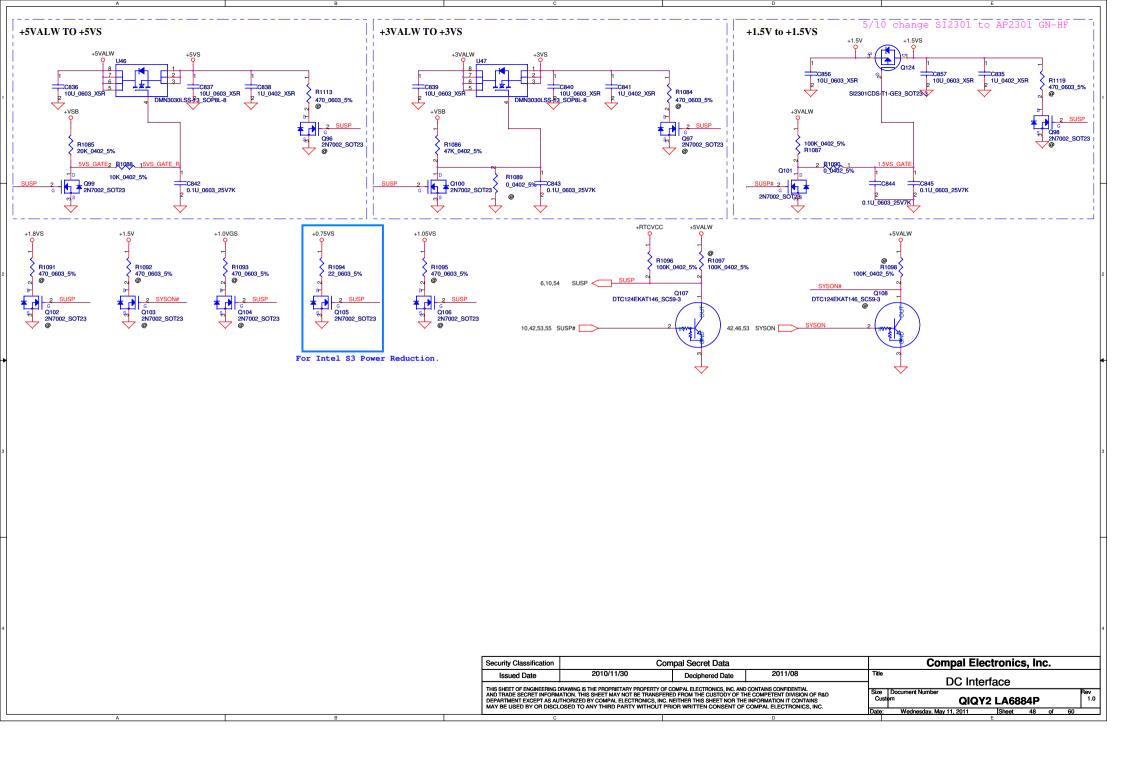


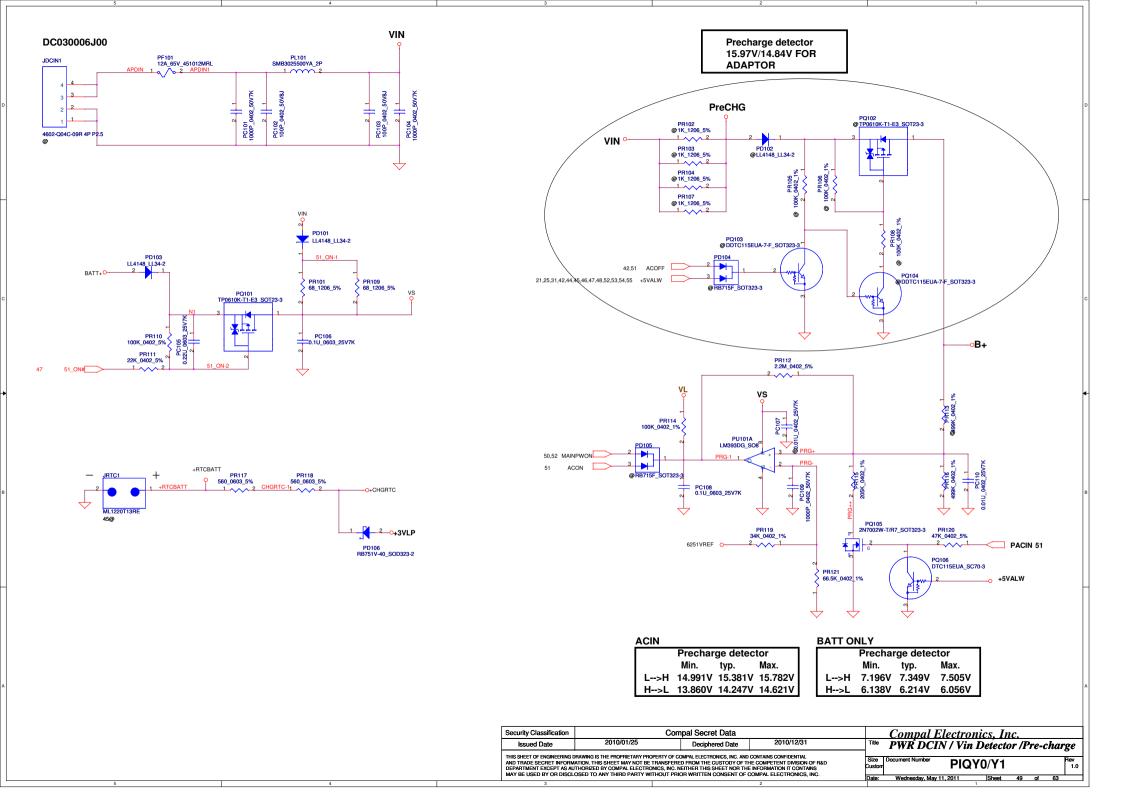


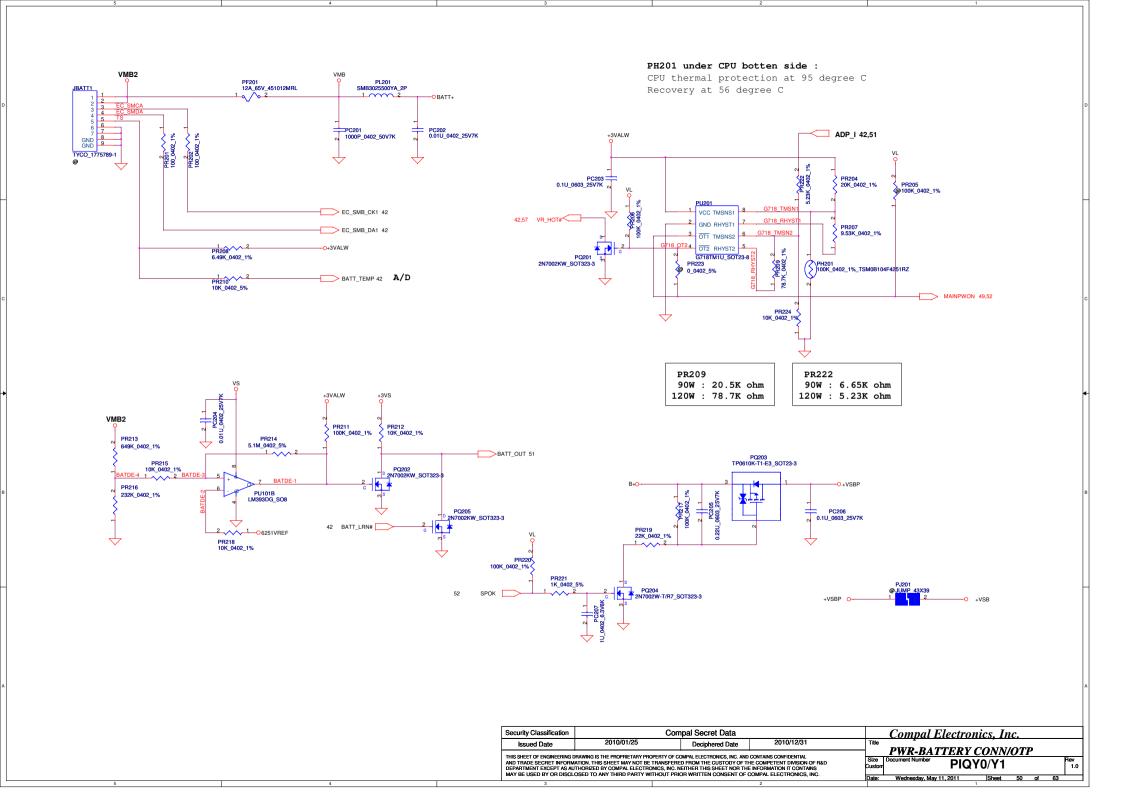


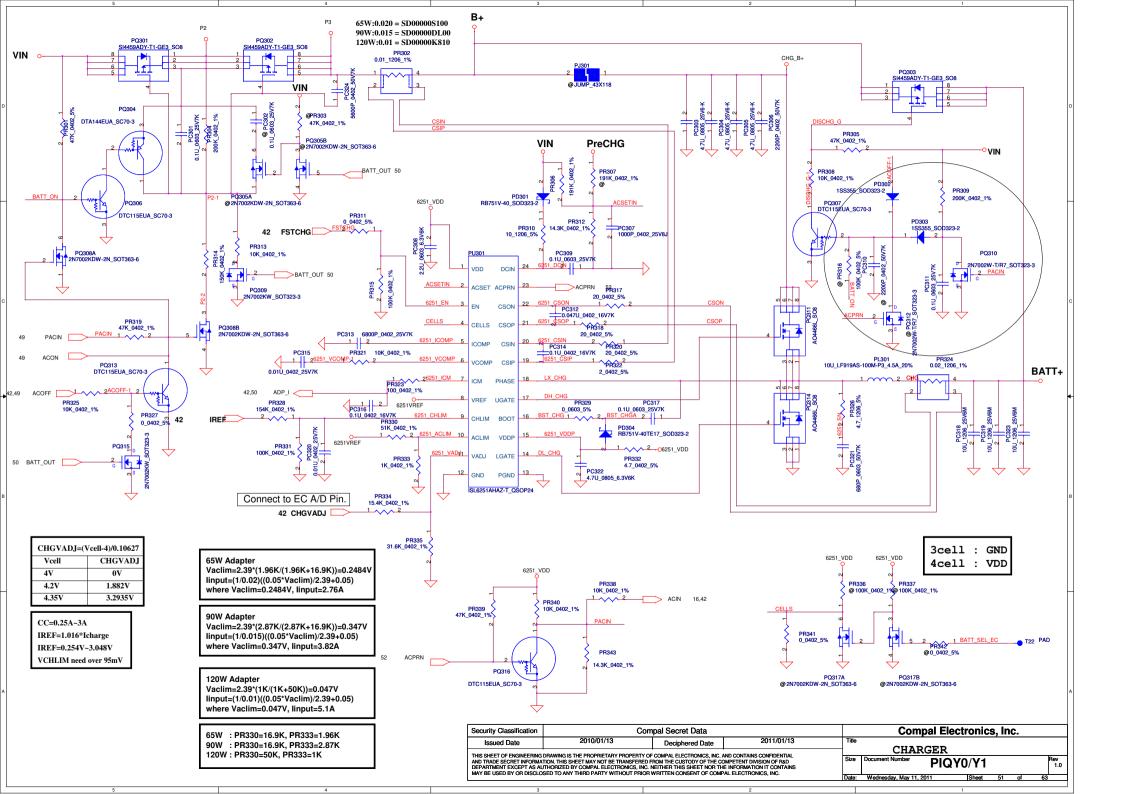


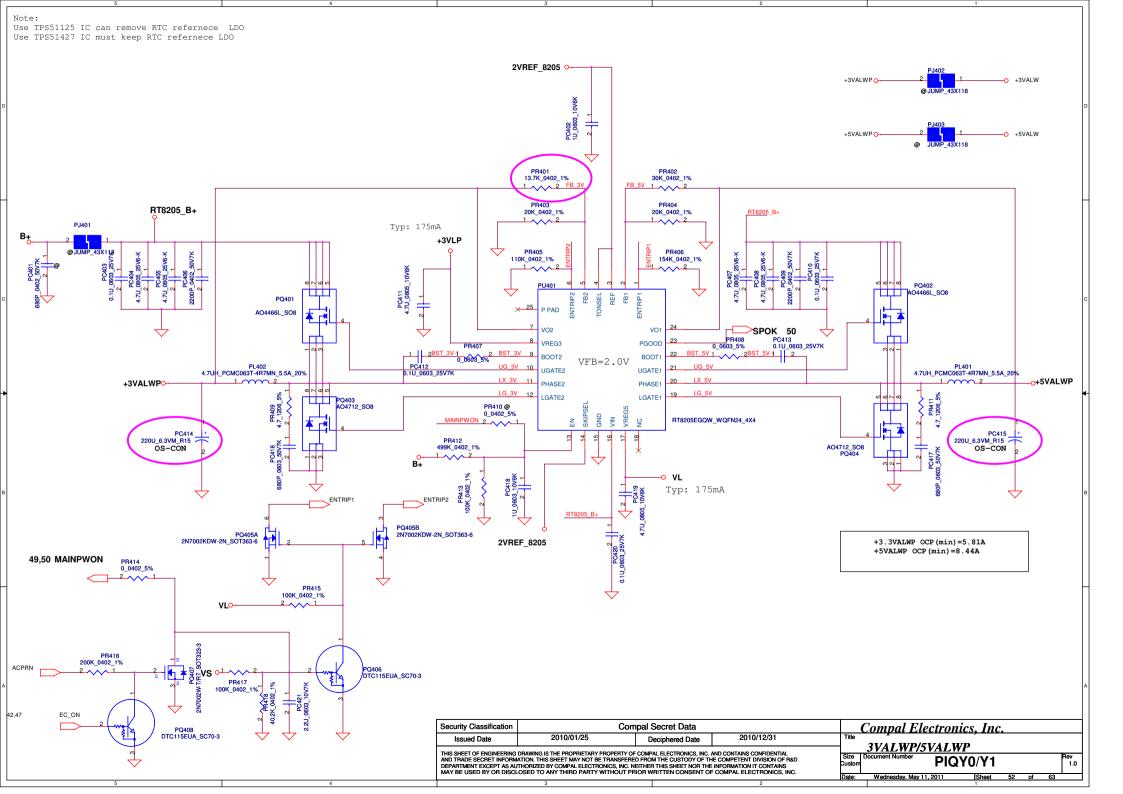
Security Classification	Cor	npal Secret Data	Compal				
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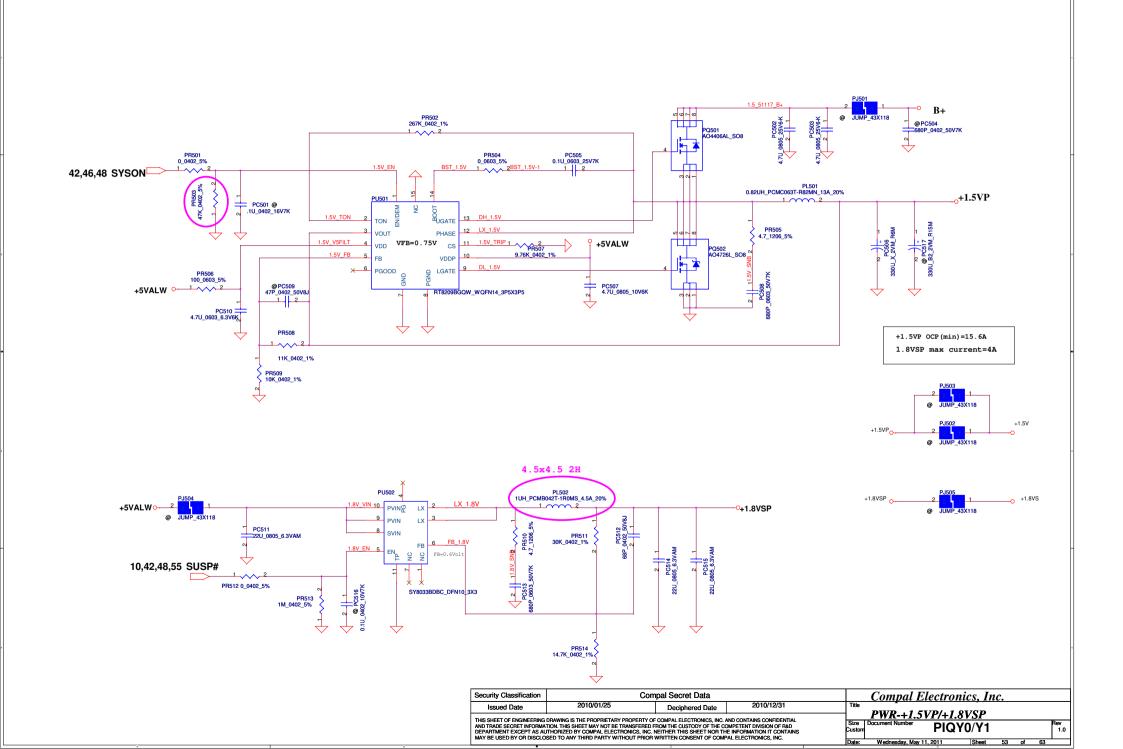


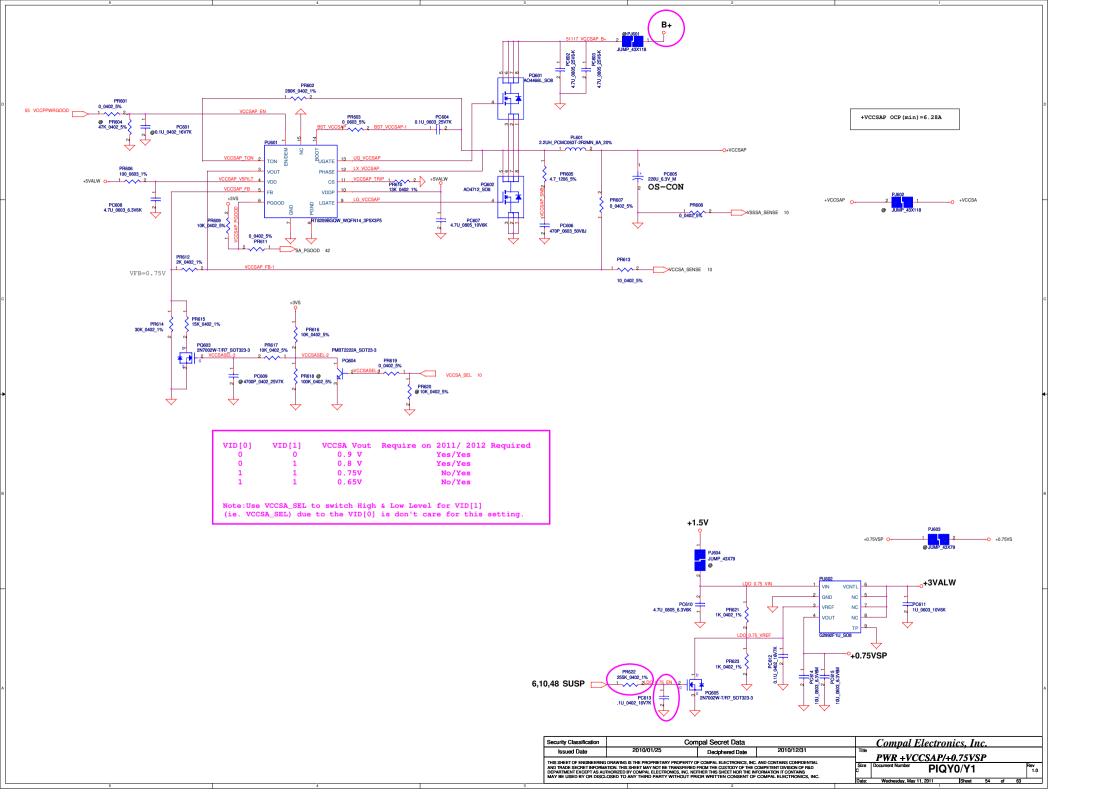


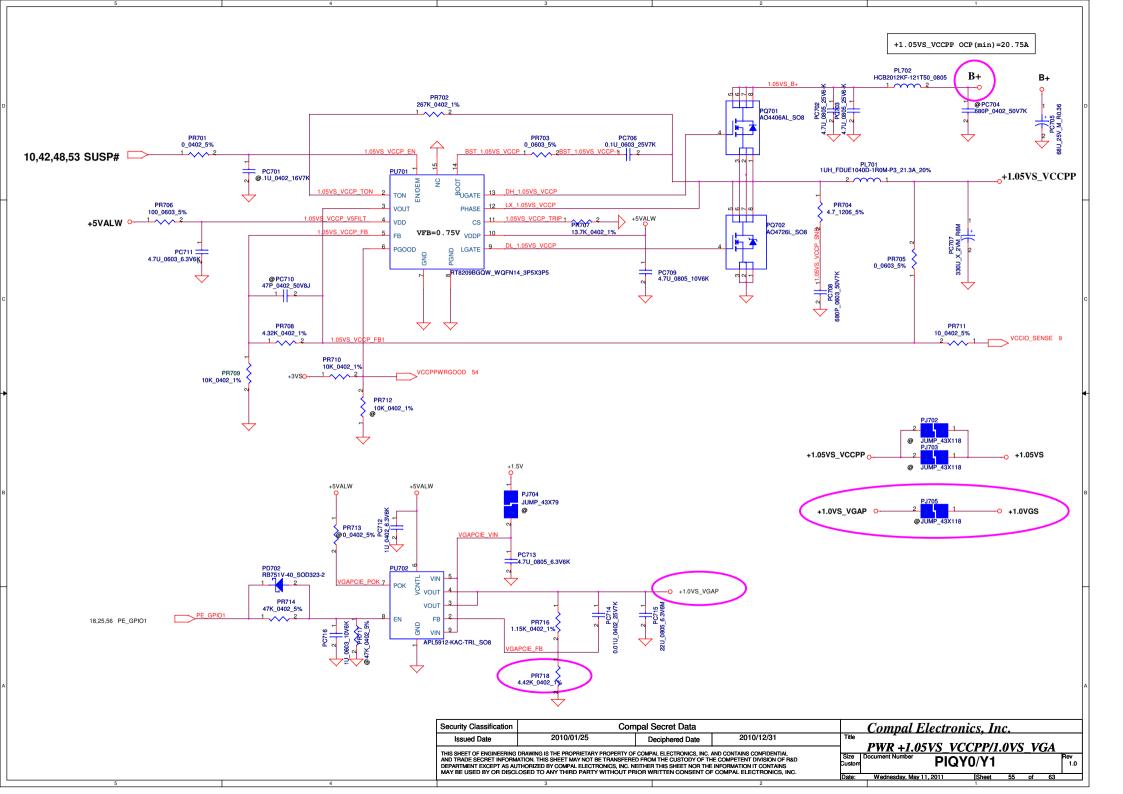


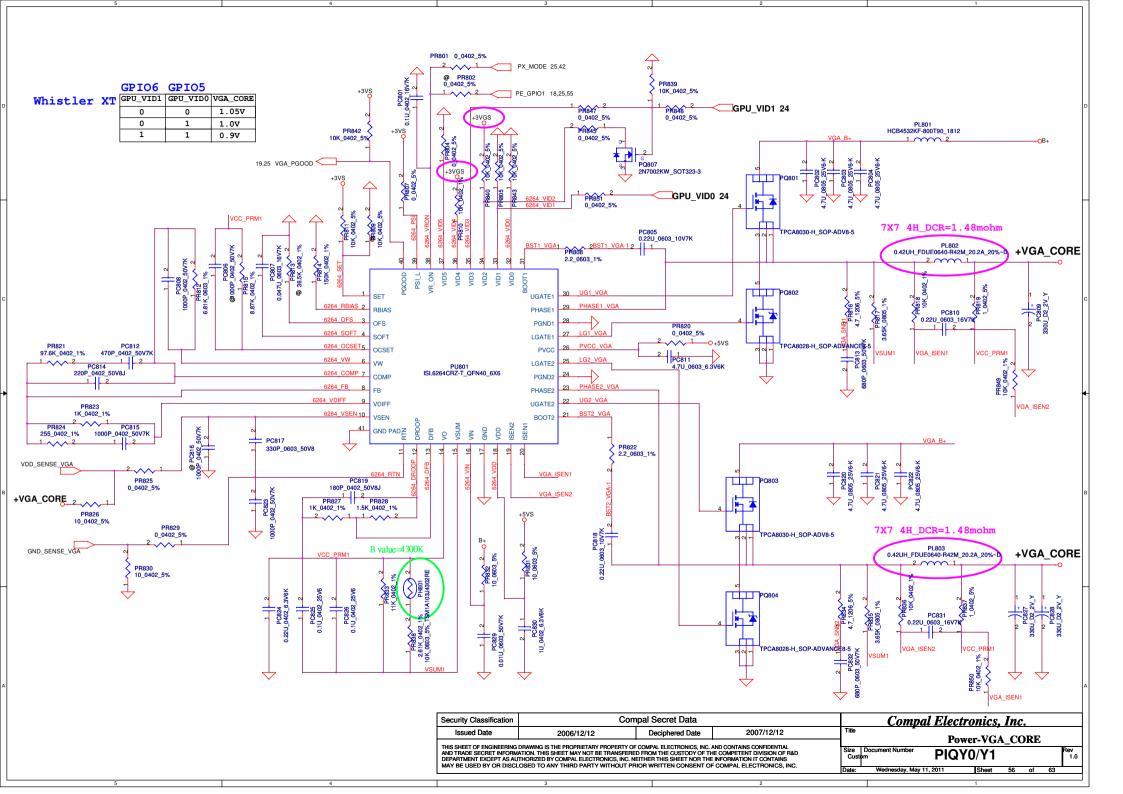


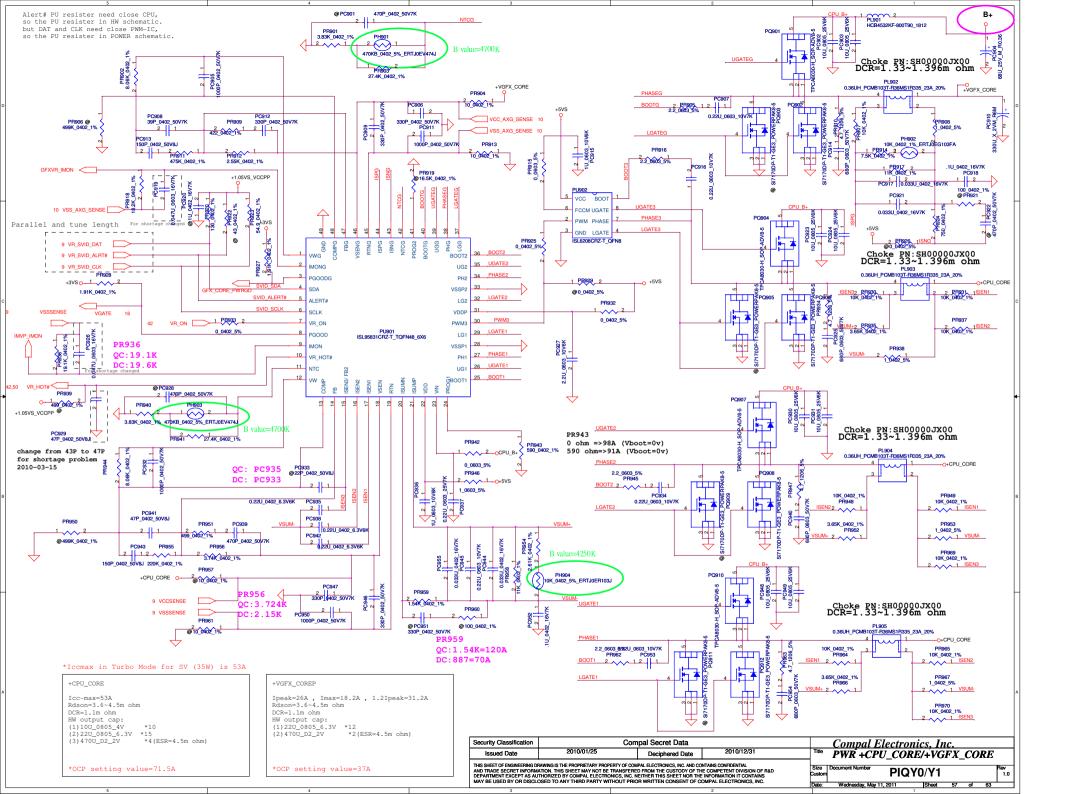










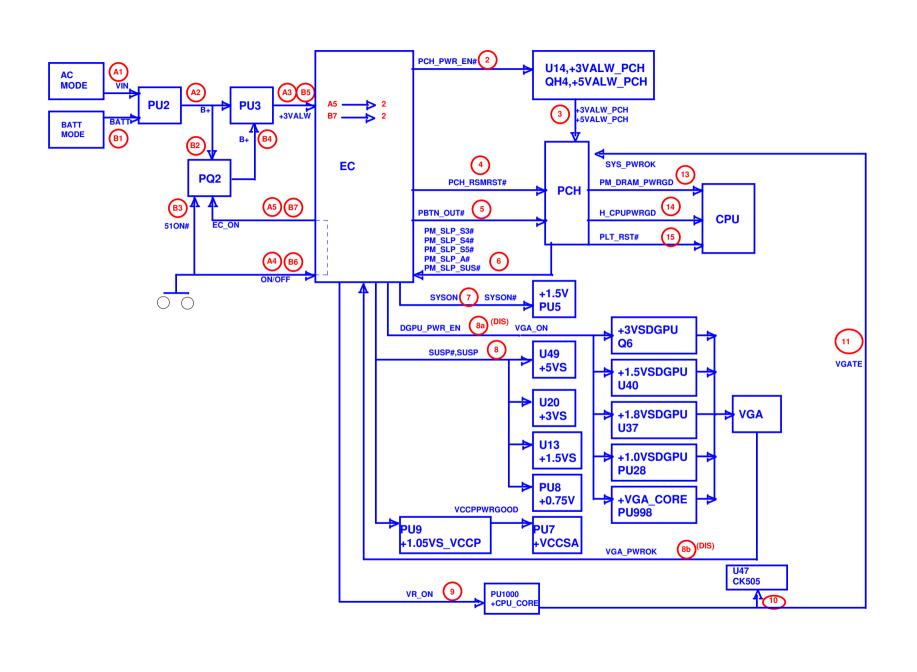


Version change list (P.I.R. List)				Page 1 of 1 for PWR									
Item	Reason for change	PG#					Modify List	707			Date	Phase	
1	Disable Pre-charge		PR102, P	R103, PR104,	PR107, PD102,	PD104	, PQ102, PQ1	03, PQ104					
2	Back to Back MOS change		PQ301, P	Q302, PQ303									
3	Battery Learning function		PQ205										
4													_
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6													
7													c
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QIQY2 HW PIR List

	NO DATE	PAGE	MODIFICATION LIST	PURPOSE
D	1 2 3	P23 P23 P23	Change U8 to SA00004R500 Del C998/ C1067/ C343/ C339/ C382/ C376/ C377/ R692 Change Q69 to Q75, Q68 to Q76, U56 to U62, U60 to U64,	Customer need to change For VGA function For VGA function
	4 5 6	P42 P15 P23 P33	Q87 to Q109, Q86 to Q110, C732 to C777, U59 to U66, R872 to R890, U37 to U41 Del R994/ R999/ D46/ Q91 Del PJP2/ R67/ R257/ R261 Del C386/ C732/ R1400/ R1360 Del R354/ R3461/ R1372/ R1373 Del R185/ R434/ Q84/ R1022/ Q92/ CV253~CV260/ Q115/R1144 R1143/ L67/ R997/ R1321	For EC function For PCH function For VGA function V For HDMI function
С	8 9 10 11 12 13 14	P44 P35 P32 P45 P32 P15 P14	BT_OFF# change to BT_ON# EC_PME# change to LAN_WAKE# CMOS_OFF# change to CMOS_ON# U11 from SB000007010 change to SB548000210 D31~D35 from +5VS change to +CRT_VCC_CONN U4 from SA00004EEJ0 change to SA00004EEV0 R133 from 0 ohm change to 33 ohm	For BT function For LAN wake funcion For CMOS function For +1.5VGS function For CRT function PCH from rev.B2 change to rev.B3 For BIOS ROM function SIT
-	1 2 3	P23 P23 P23	Add C69 22Uf_0805 cap for +BIF_VDDC. Reserve R613 & R614 to pul1 up +3VS. Change 0 ohm to R_short R10/R1002/R1014/R1029/R109/R11/R1111/R1114/R1116/R1280/R1281/R1282/R1283/R1285/R130/R1320/R1336/R1342/R1323/R14/R181R19/R190/R193/R196/R198/R207/R222/R222/R254R256/R258/R266/R260/R263/R265/R269/R270/R272R273/R274/R276/R277/R278/R281/R282/R283/R284/R285/R286/R288/R289/R293/R295/R302/R303/R313/R40/R432/R52/R53/R668/R710/R824/R825/R880/R882/R885/R886/R891/R922/R941/R969/R973/R993/R996.	
В	8 9 10	P45 P18 P25 P10 P43 P25 P25 P25	U39/ U62 /U44 from SA000039E00 change to SA00003TV00. Del net name PCH_GPI051 connect to RP1 pin2. C351 from 0.1uF_0603 change to 0.047uF_0402. ADD PJP2 jump. U41 from SA000031C00 change to SA00001TC00. R352 from 0 ohm change to 330K ohm. Add C343 & C346 for reserve. Q121 from SBX01240010 change to SB000008J10.	For USB function For VGA function For PCH function For LID function For VGA function For VGA function For VGA function For VGA function

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Deciphered Date

2010/01/25

2010/12/31

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Rev 1.0

Sheet 60 of 63

Power sequence

QIQY2 LA6884P Wednesday, May 11, 2011