Compal Confidential

Model Name : QILE1 & QILE2 File Name : LA-8131P, LA-8132P

BOM P/N: OILE1:

4319GG39L01 : SMT MB A8131 QILE1 DIS-N13P 4319GG39L02 : SMT MB A8131 QILE1 DIS GPU-N13M

4319GG39L03: SMT MB A8131 QILE1 UMA

QILE2:

4319GJ39L01 : SMT MB A8133 QILE2 DIS-N13P 4319GJ39L02 : SMT MB A8133 QILE2 DIS GPU-N13M

4319GJ39L03: SMT MB A8133 QILE2 UMA

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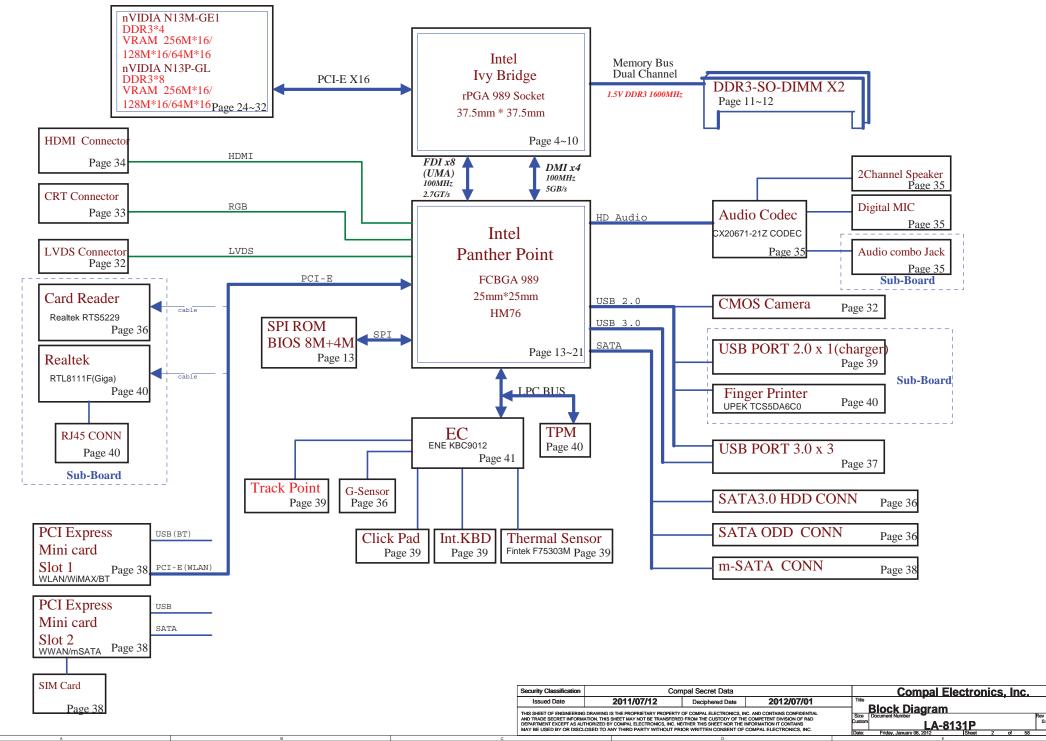
M/B Schematics Document
Intel Ivy Bridge Processor with DDRIII + Panther Point PCH
GPU nVIDIA N13M-GE1 / N13P-GL

2011-12-20

REV: 0.6

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Voltage Rails

Voltage Italie					
power plane State	+B	+5VALW +3VALW	+1.5V	+5VS +3VS +1.5VS +VCCP +CPU_CORE +VGA_CORE +VCC_GFXCORE_AXG +1.8VS +0.75VS +1.05VS	+3VM +1.05VM
so	0	0	0	0	O M3 Supported
S 3	0	0	0	X	O M3 Supported
S5 S4/AC	0	0	х	Х	O M3 Supported
S5 S4/ Battery only	Х	Х	Х	Х	
S5 S4/AC & Battery don't exist	X	X	X	X	

EC SM Bus1 address

EC SM Bus2 address

Device	Address	Dev
Smart Battery	0001 011X b	The

Device Address Thermal Sensor Fintek F75303M 1001_101xb

PCH SM Bus address

 Device
 Address

 DDR DIMM0
 1001 000Xb

 DDR DIMM2
 1001 010Xb

SMBUS Control Table

	SOURCE	VGA	BATT	KE9012	SODIMM	WLAN WWAN	Thermal Sensor	PCH
SMB_EC_CK1 SMB_EC_DA1	KB9012 +3VALW	Χ	+3VALW	Χ	Х	Χ	Χ	Х
SMB_EC_CK2 SMB_EC_DA2	KB9012 +3VALW	Х	X	Х	Х	Х	Х	+3VS
SMBCLK SMBDATA	PCH +3VALW	Х	Х	Х	+3VS	+3VS	Х	Х
SML0CLK SML0DATA	PCH +3VALW	Х	Х	Х	Х	Χ	Х	Х
SML1CLK SML1DATA	PCH +3VALW	+3VS	Х	+3VS	Х	Х	+3VS	Х

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

BOARD ID Table

Board ID	PCB Revision
0	0.1
1	0.2
2	0.3
3	0.4
4	0.5
5	0.6
6	
7	

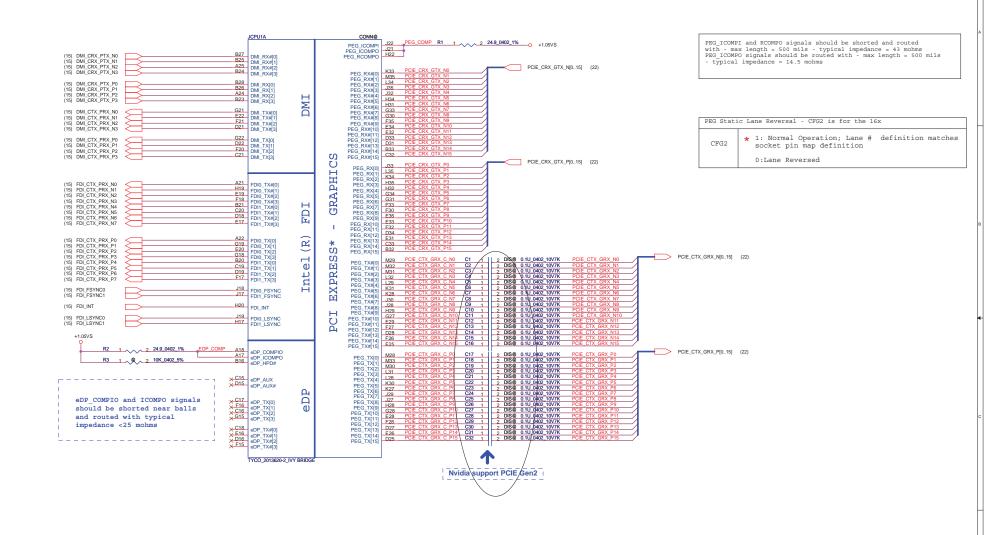
USB Port Table

	USB 2.0	Port	3 External USB Port
	UHCIO	0	
	oncro	1	USB 3.0 Port (Left Side)
	UHCI1	2	USB 3.0 Port (Left Side)
EHCI1	UHCII	3	USB 3.0 Port (Left Side)
USB3.0	UHCI2	4	
ODD5.0		5	Camera
	UHCI3	6	
		7	
	UHCI4	8	
	Oncid	9	USB Port (Right Side)
EHCI2	UHCI5	10 (Mini Card(WLAN/BT)
	oners	11	EPR
	UHCI6	12	Mini Card(WWAN)
	UIICIU	13	Blue Tooth

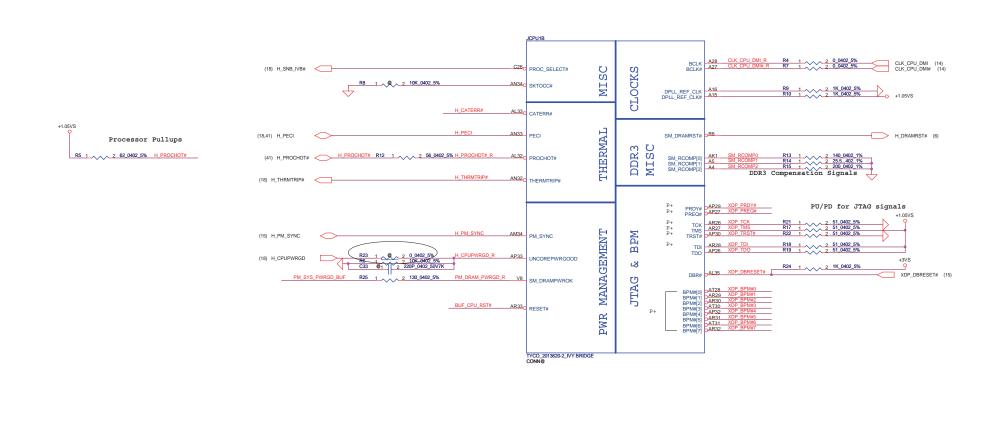
BOM Structure Table

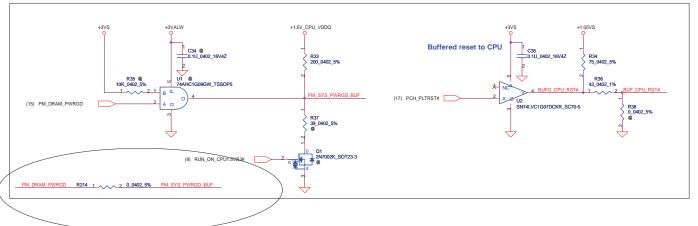
BTO Item	BOM Structure
Connector	CONN@
45 LEVEL	45@
Unpop	@
nVidia	DIS@
INTEL DD3 M3	M3@
SIM Card Slot	3G@
Intel UMA	UMA@
VRAM Option	X76@
Intel SBA	SBA@
Intel AOAC	AOAC@
TPM	TPM@
GPU N13M	N13M@
GPU N13P	N13MP

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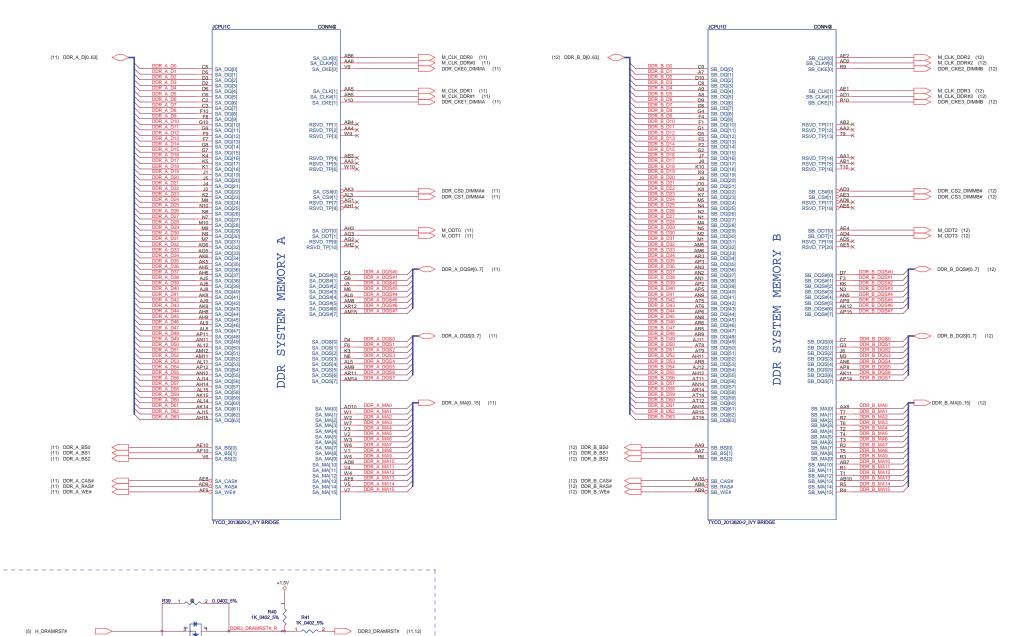
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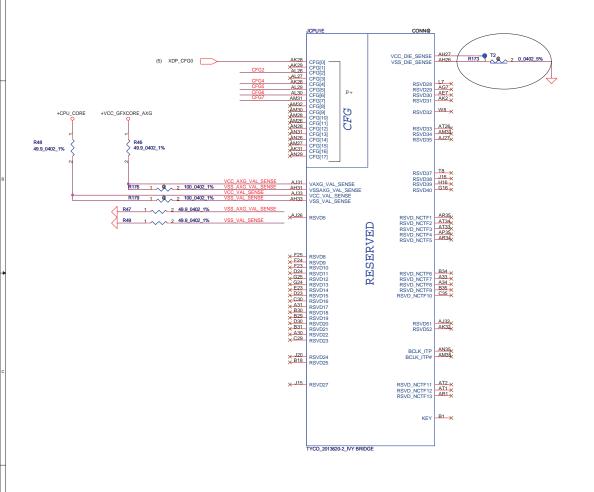


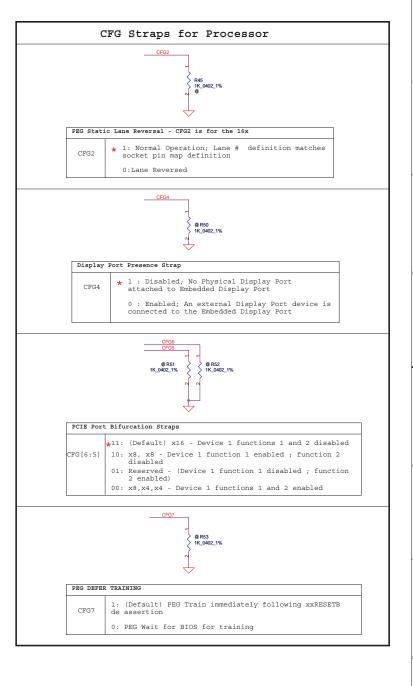


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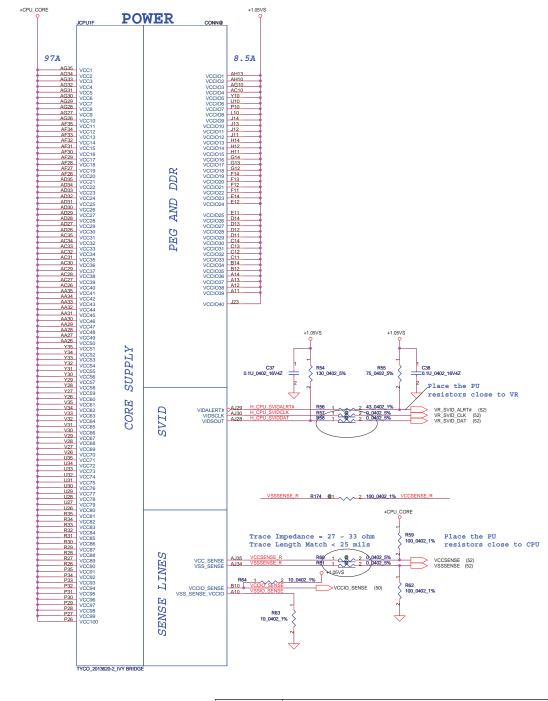


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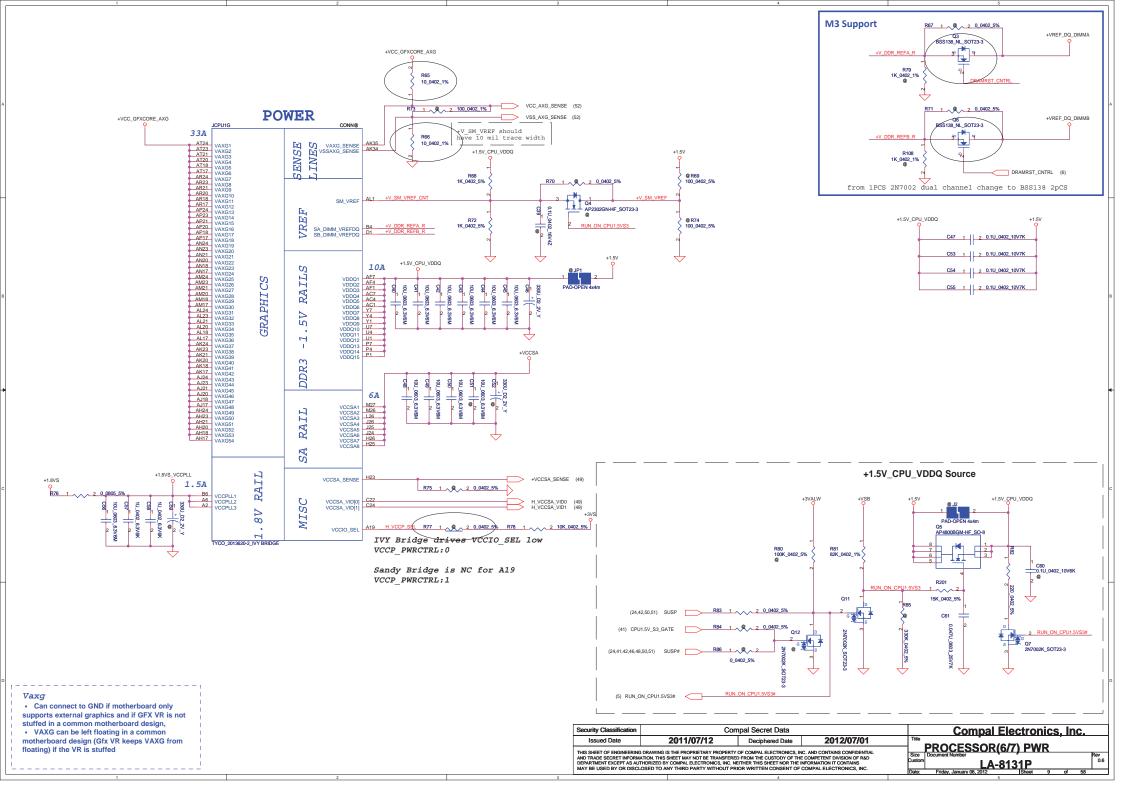


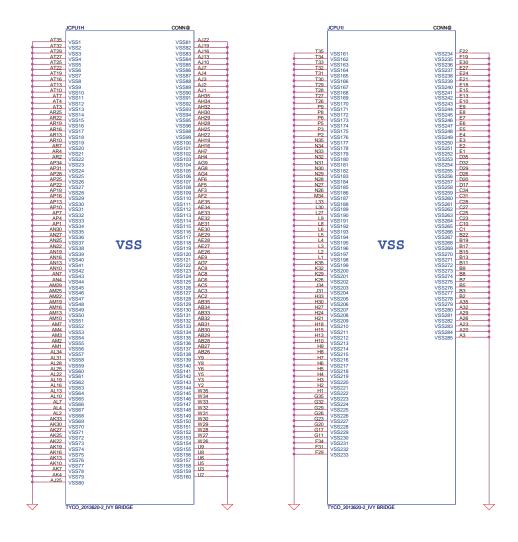


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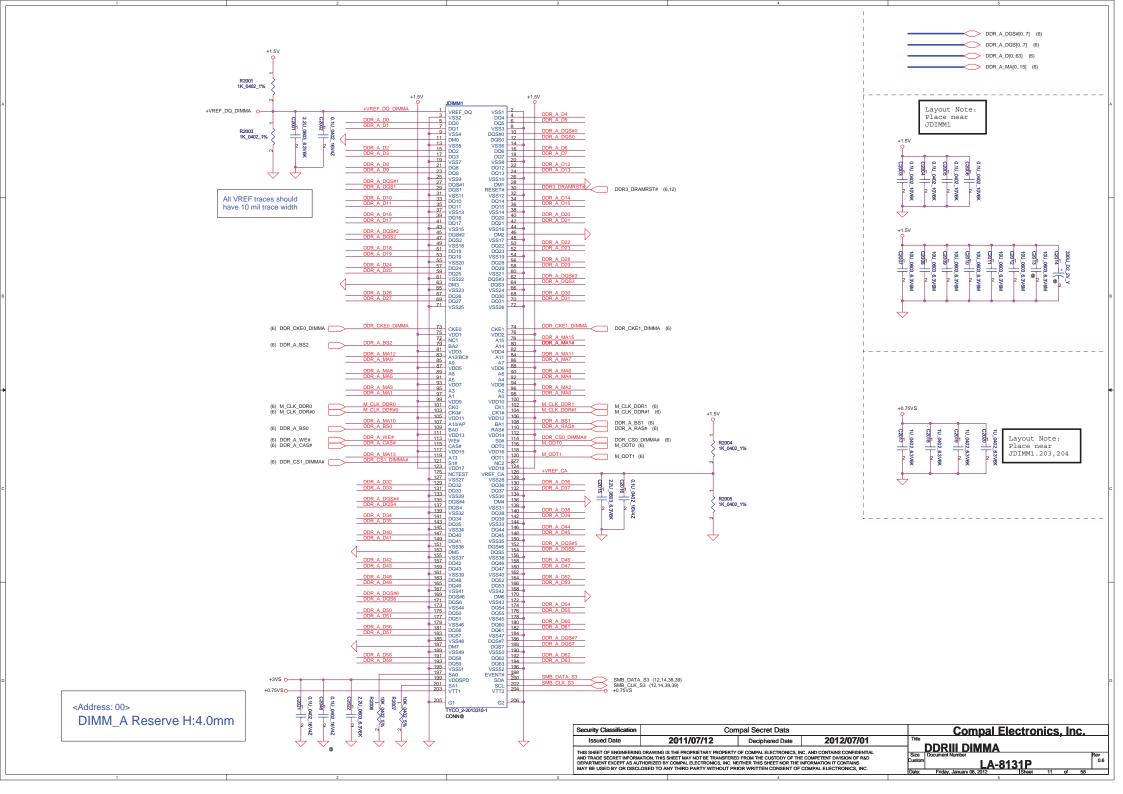


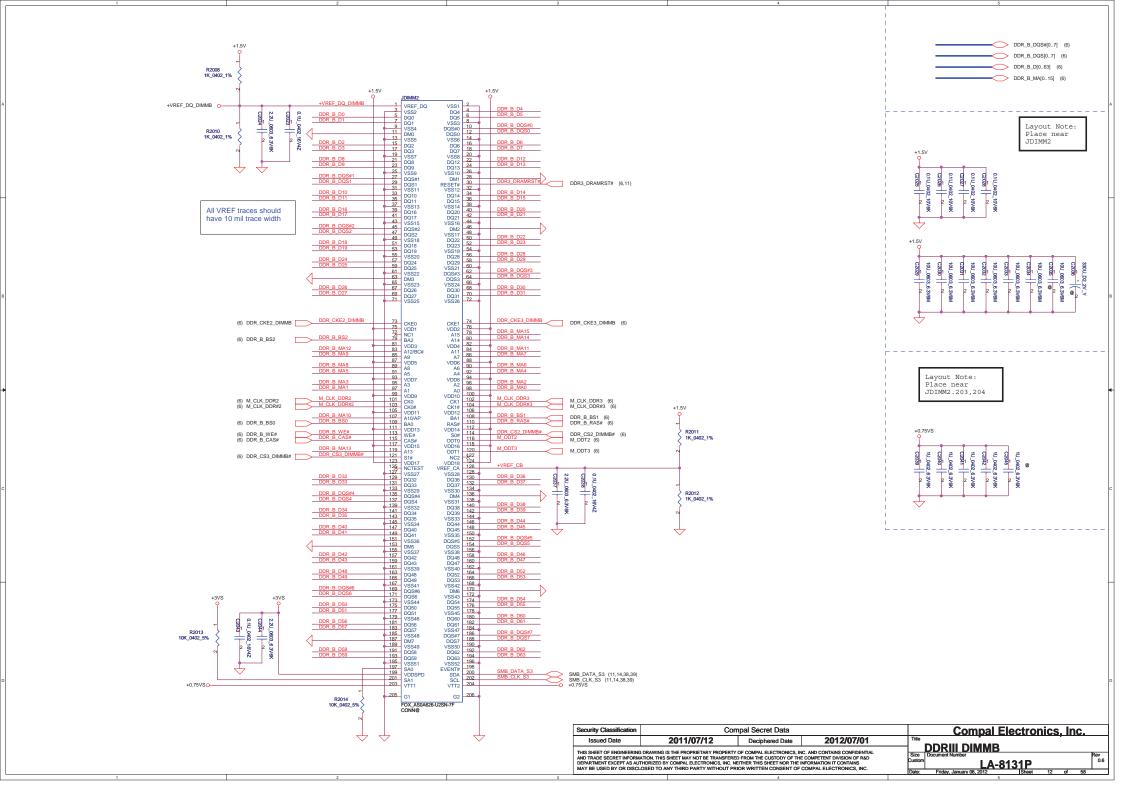
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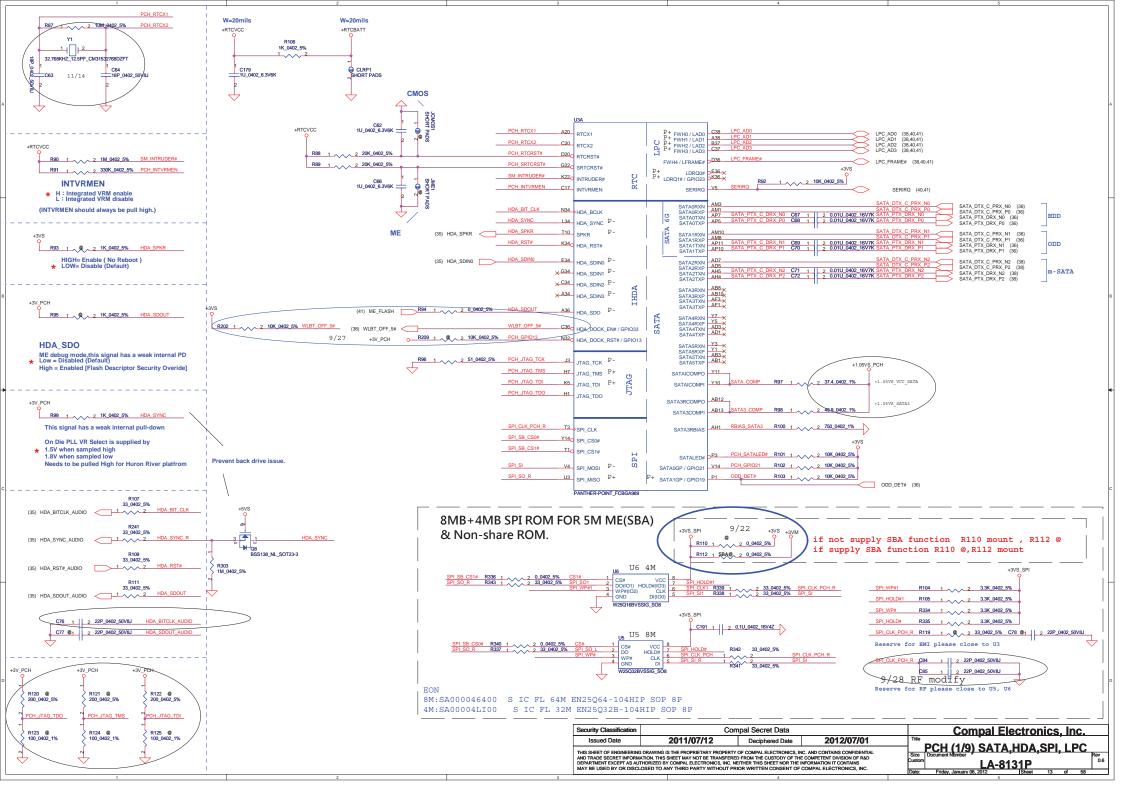


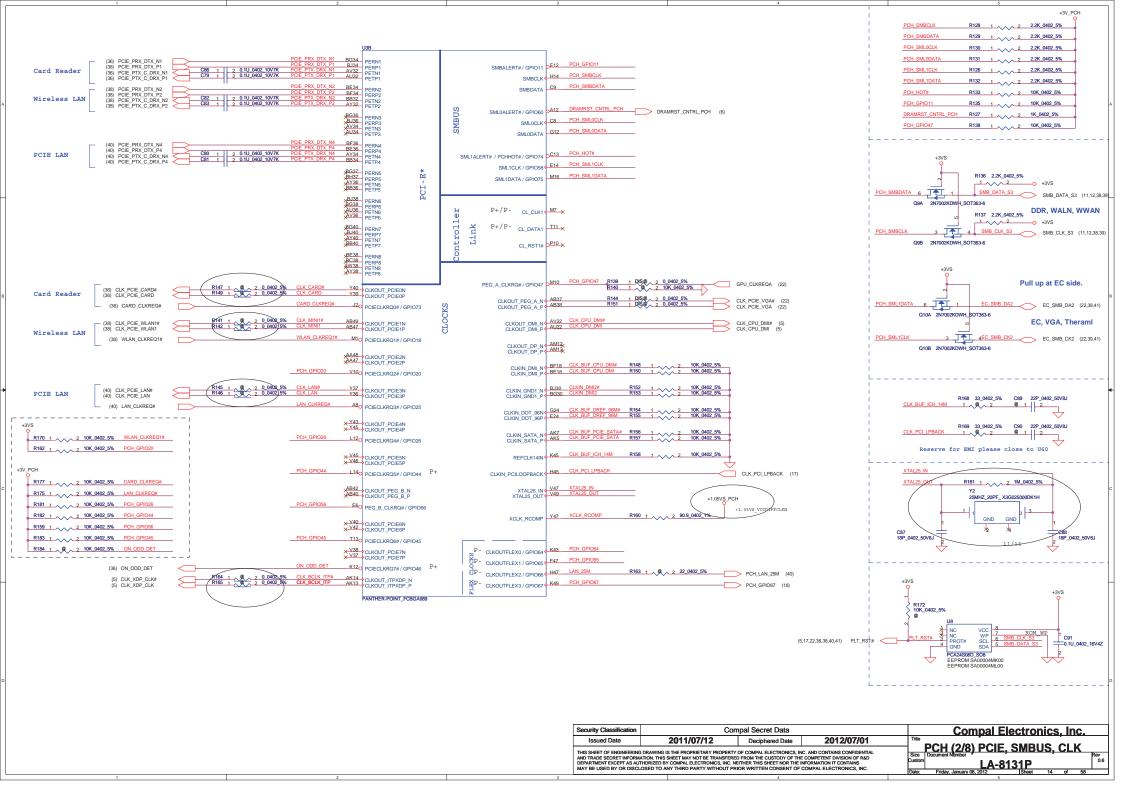


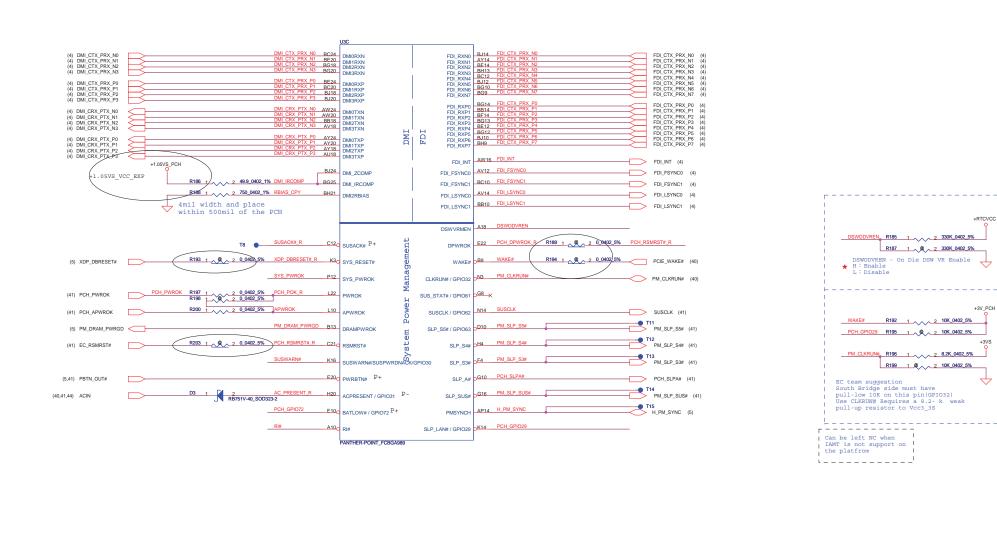
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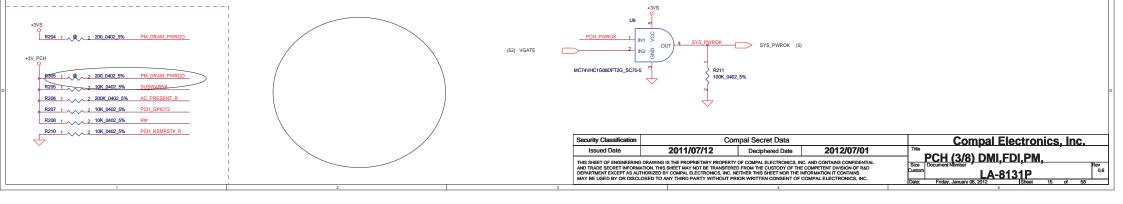


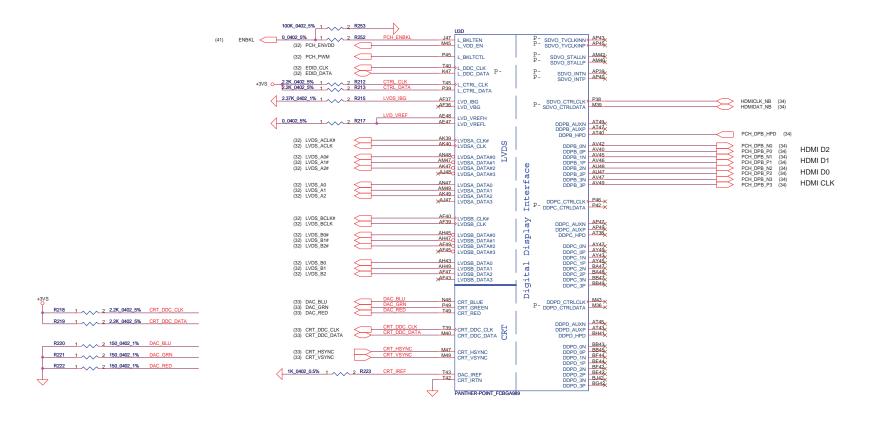




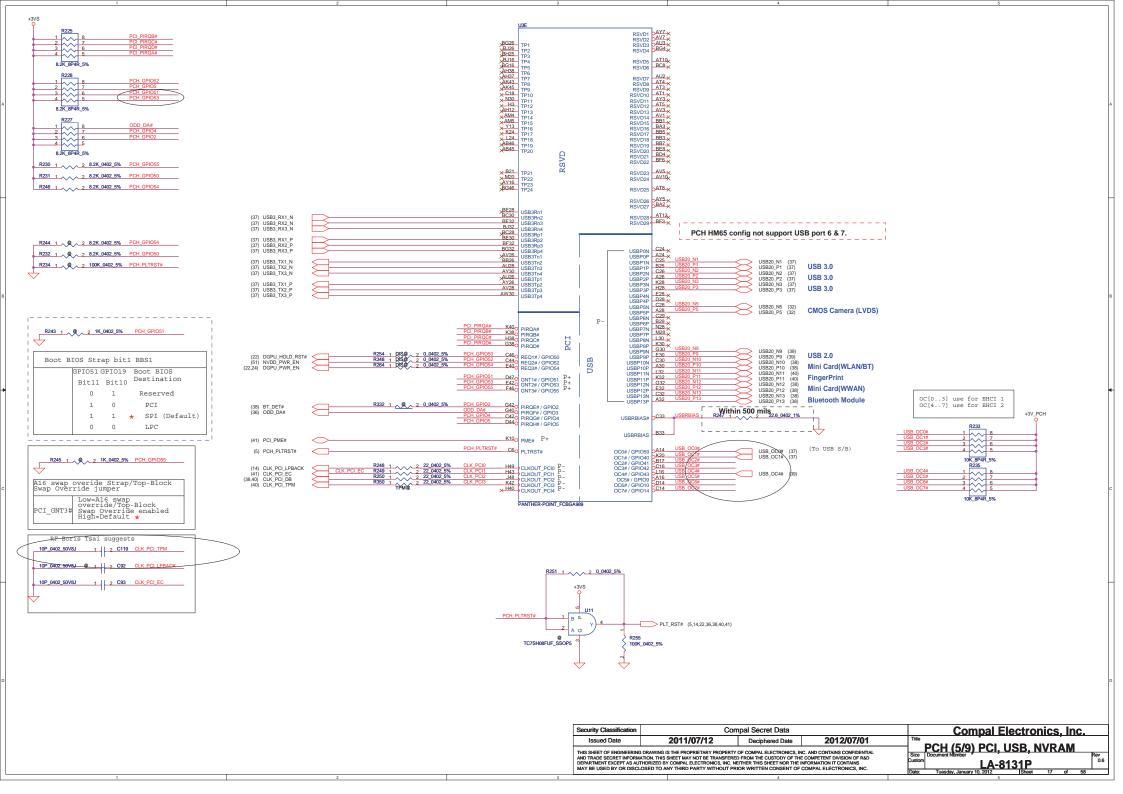


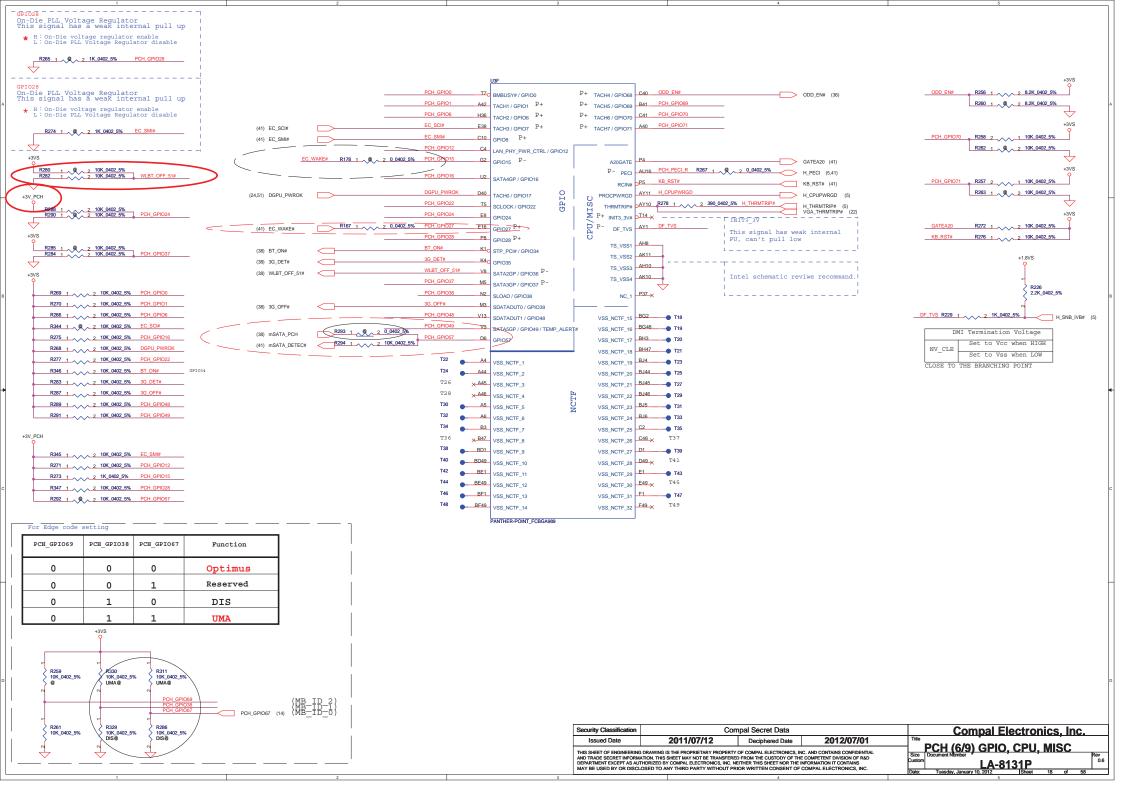


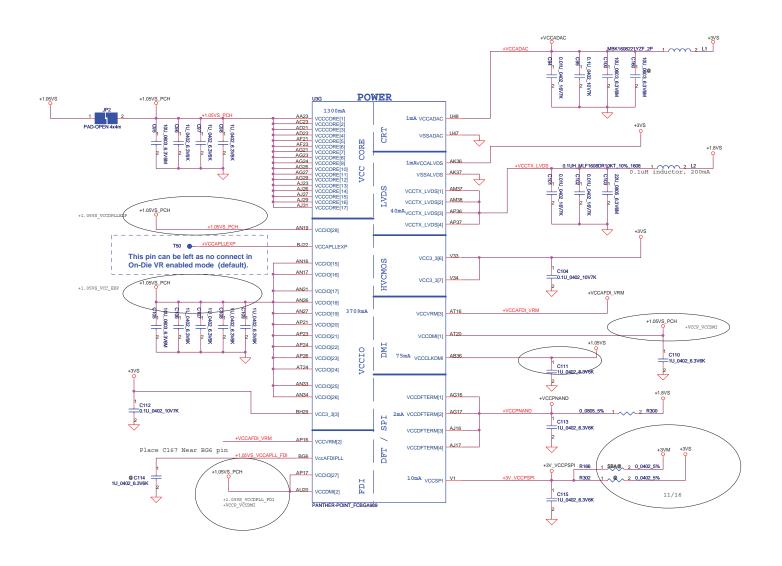


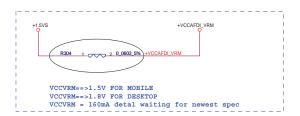


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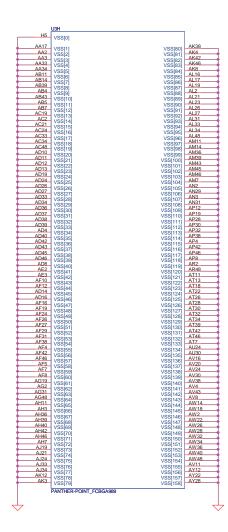


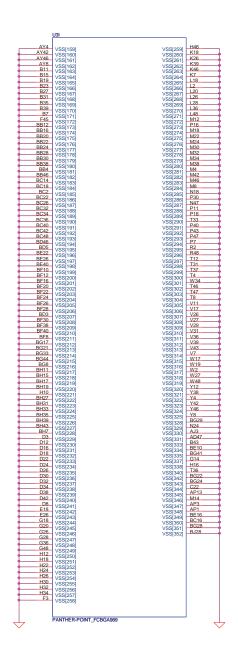




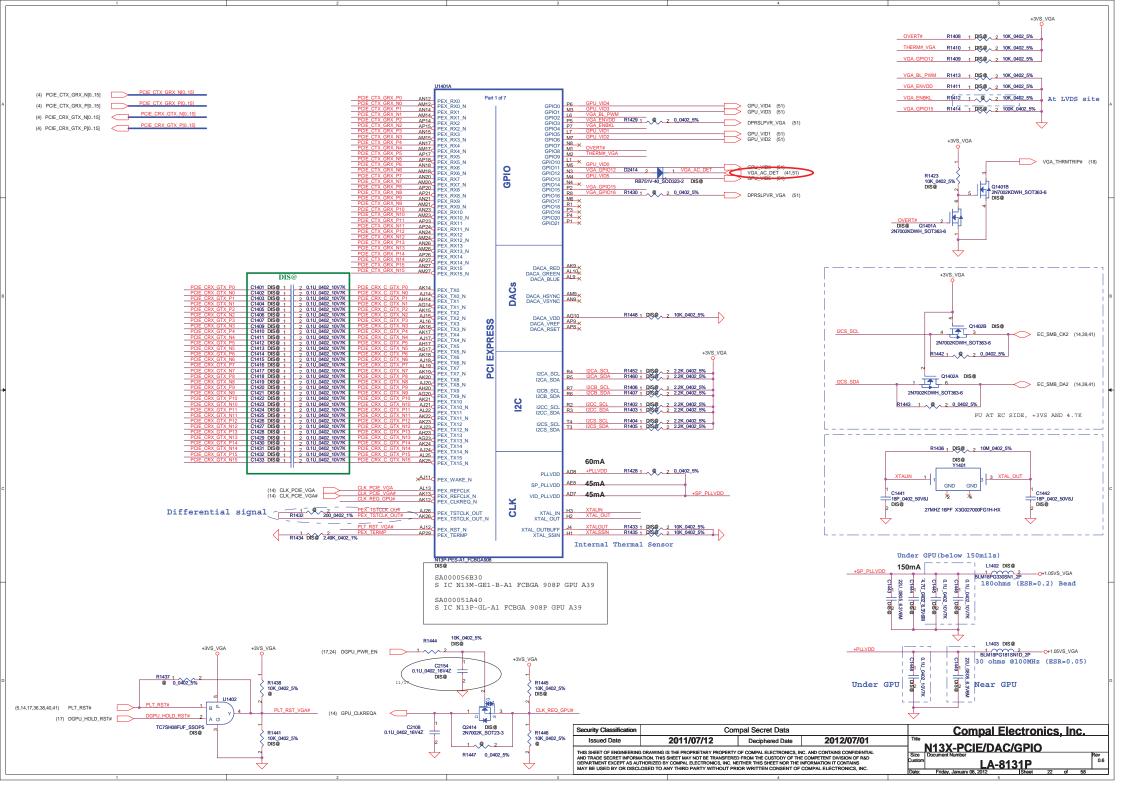


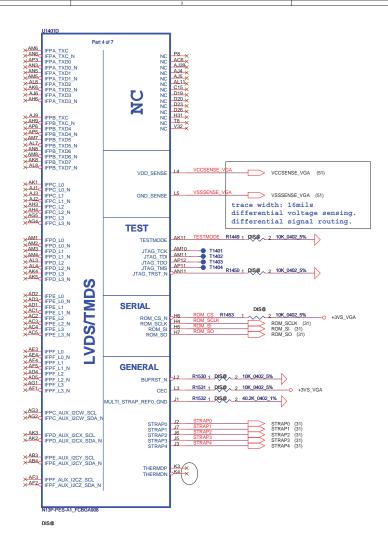
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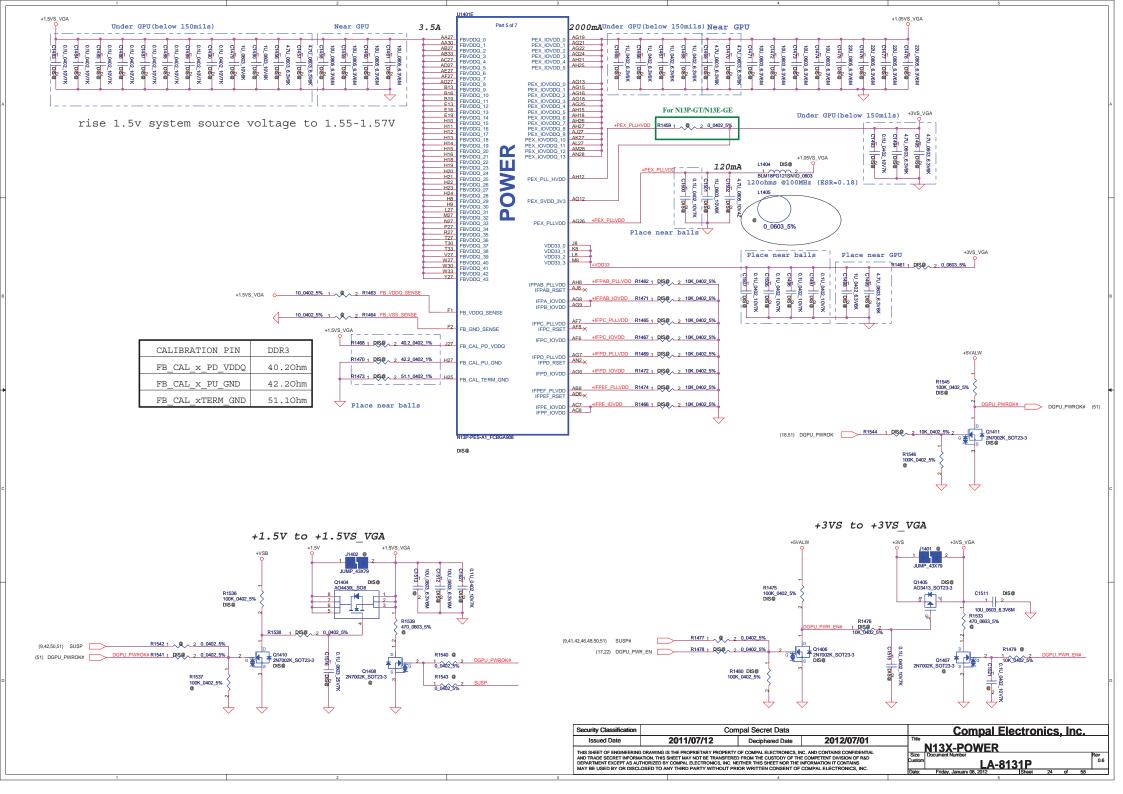


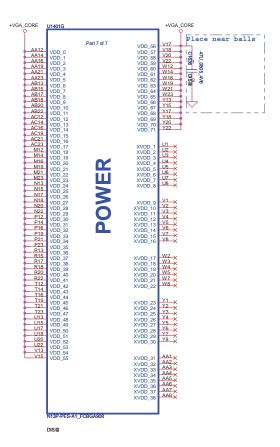


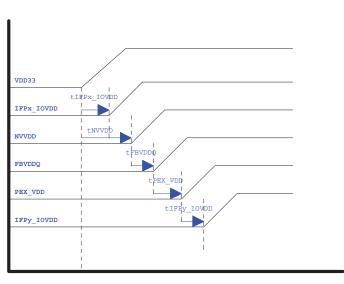
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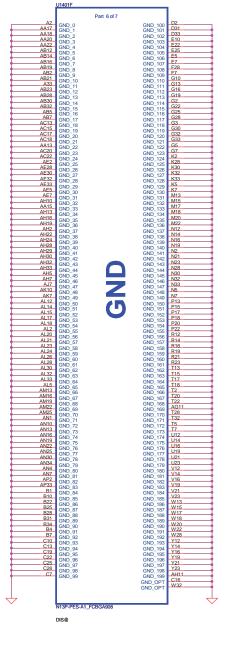






NV Recommended Power On Sequencing Order

X=A and B Y=C,D,E and F



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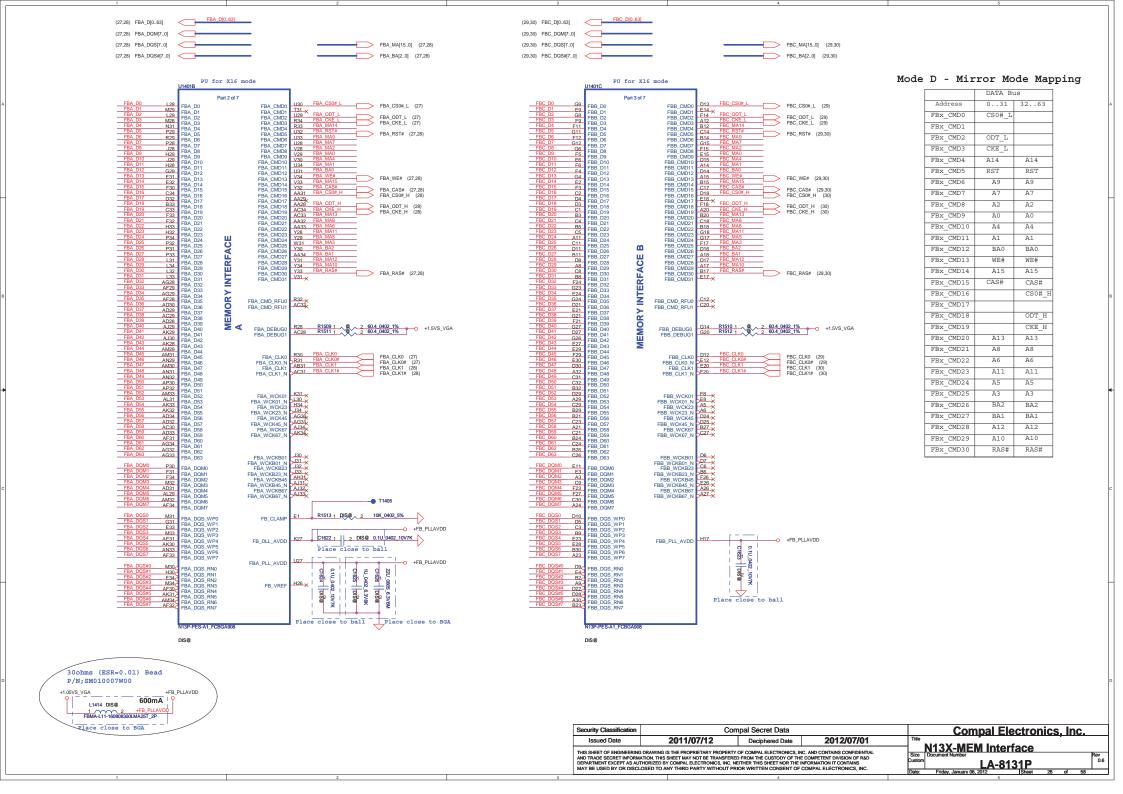
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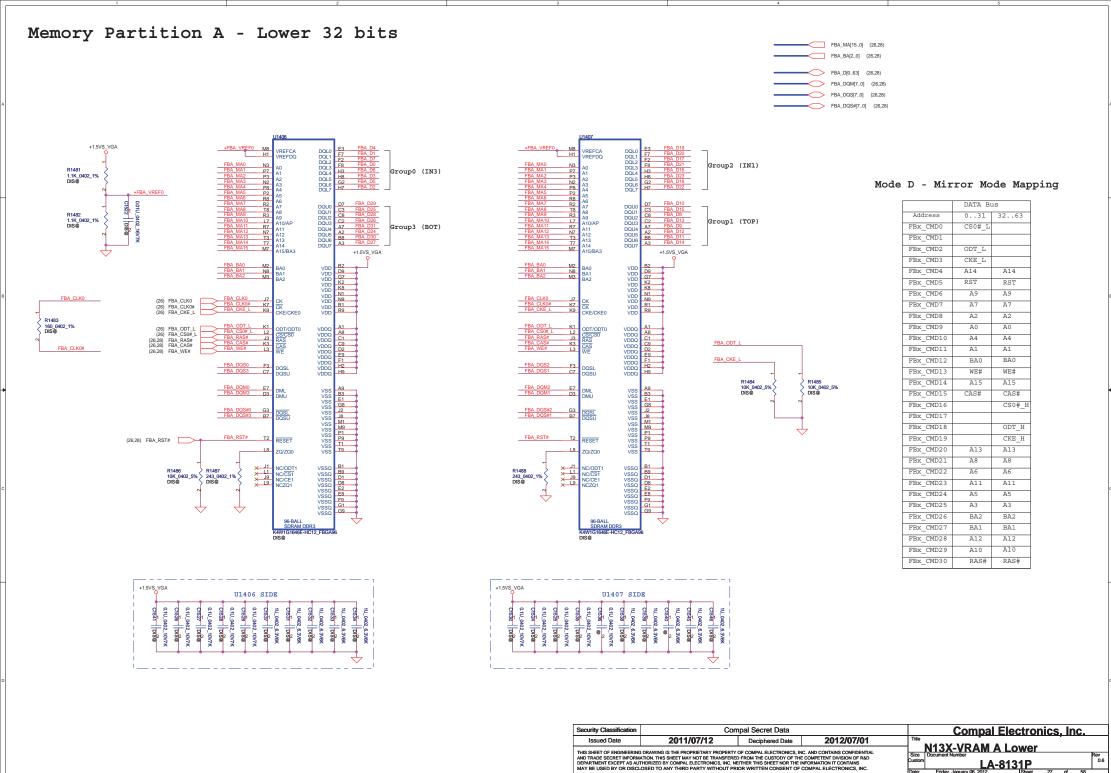
2011/07/12

Deciphered Date

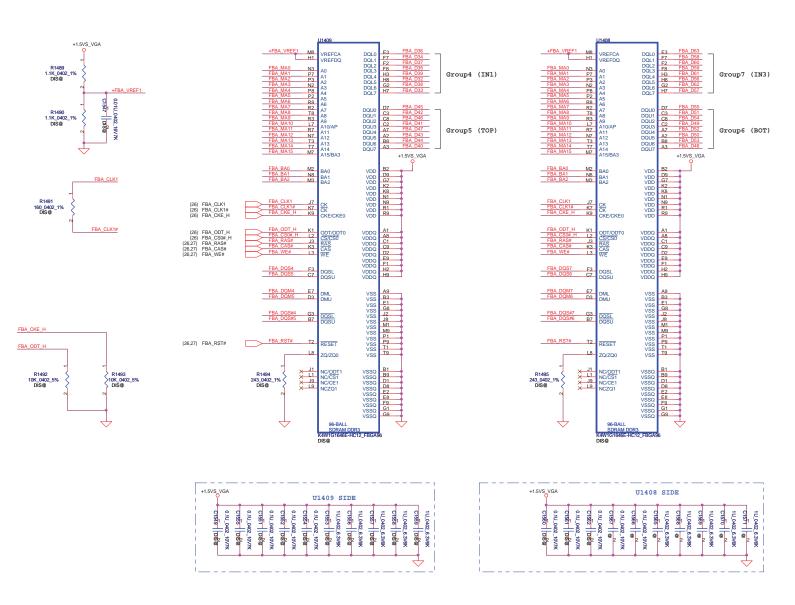
2012/07/01

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Memory Partition A - Upper 32 bits





Mode D - Mirror Mode Mapping

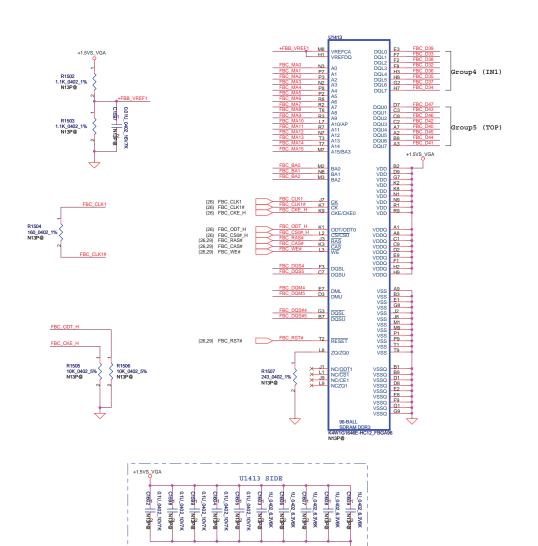
	DATA Bu	.s
Address	031	
FBx CMD0	CSO# L	5255
FBx_CMD1	C30#_1	
- "		
FBx_CMD2	ODT_L	
FBx_CMD3	CKE_L	
FBx_CMD4	A14	A14
FBx_CMD5	RST	RST
FBx_CMD6	A9	A9
FBx_CMD7	A7	A7
FBx_CMD8	A2	A2
FBx_CMD9	A0	A0
FBx_CMD10	A4	A4
FBx_CMD11	A1	A1
FBx_CMD12	BA0	BA0
FBx_CMD13	WE#	WE#
FBx_CMD14	A15	A15
FBx_CMD15	CAS#	CAS#
FBx_CMD16		CS0#_H
FBx_CMD17		
FBx_CMD18		ODT_H
FBx_CMD19		CKE_H
FBx_CMD20	A13	A13
FBx_CMD21	A8	A8
FBx_CMD22	A6	A6
FBx_CMD23	A11	A11
FBx_CMD24	A5	A5
FBx_CMD25	A3	A3
FBx_CMD26	BA2	BA2
FBx_CMD27	BA1	BA1
FBx_CMD28	A12	A12
FBx_CMD29	A10	A10
FBx_CMD30	RAS#	RAS#

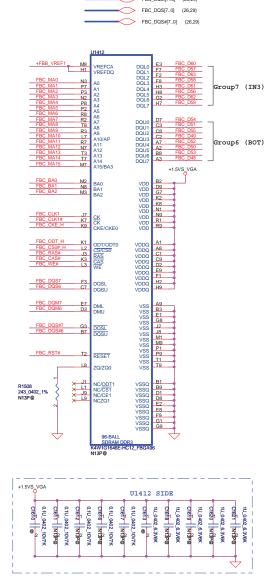
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Memory Partition C - Lower 32 bits FBC_D[0..63] (26,30) FBC_MA[15..0] (26,30) FBC BA[2..0] (26.30) FBC_DQM[7..0] (26,30) > FBC_DQS[7..0] (26,30) FBC_DQS#[7..0] (26,30) +1.5VS VGA /REFCA DQL0 DQL1 DQL2 DQL3 DQL4 DQL5 DQL6 DQL6 R1496 1.1K_0402_1% N13P@ DQL1 DQL2 DQL3 DQL4 DQL5 DQL6 DQL7 /REFDQ coup0 (IN3) Group2 (IN1) Mode D - Mirror Mode Mapping R1497 1.1K_0402_1% N13P@ DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7 0402_16V7K DQU0 DQU1 DQU2 DQU3 DQU4 DQU5 DQU6 DQU7 Address 32..63 FBx_CMD0 CSO#_I Group3 (BOT) Group1 (TOP) FBx_CMD1 FBx_CMD2 ODT L 15/BA3 +1.5VS_VGA +1.5VS_VGA FBx CMD3 CKE L VDD VDD VDD VDD 310mA VDD VDD VDD KEO VDD FBx CMD4 A14 A14 RST FBx_CMD5 RST FBx CMD6 A9 Α7 FBx_CMD7 Α7 (26) FBC_CLK0 (26) FBC_CLK0# (26) FBC_CKE_L FBx_CMD8 A2 A2 R1498 160_0402_1% N13P@ FBx_CMD9 A0 Α0 (26) FBC_ODT_L (26) FBC_CS0#_I (26,30) FBC_RAS# (26,30) FBC_CAS# (26,30) FBC_WE# FBx CMD10 Α4 Α4 FBx CMD11 A1 A1 FBx CMD12 BA0 BA0 FBx CMD13 WE# WE# FBx_CMD14 A15 A15 FBx CMD15 CAS# FBx CMD16 CSO# H FBx_CMD17 FBx CMD18 ODT H CKE H FBx CMD19 FBC_RST# FBC_ODT_L (26.30) FBC RST# RESET FBx CMD20 A13 FBC_CKE_L FBx_CMD21 A8 A8 FBx CMD22 А6 A6 R1535 10K_0402_5% N13P@ A11 FBx_CMD23 A11 243_0402_1% N13P@ NC/CE1 R1500 10K_0402_5% N13P@ 10K_0402_5% N13P@ FBx CMD24 A5 Α5 FBx CMD25 А3 A3 FBx CMD26 BA2 BA2 BA1 BA1 FBx CMD27 FBx_CMD28 A12 N13P@ FBx_CMD29 A10 A10 FBx CMD30 RAS# RAS# +1.5VS_VGA U1410 SIDE U1411 SIDE C1573 @ 0.1U_0402_10V7K 0.1U_0402_10V7K Compal Electronics, Inc. Security Classification Compal Secret Data 2011/07/12 2012/07/01 Issued Date Deciphered Date N13X-VRAM C Lower THIS SHEET OF ENQINEERING DRAWNING IS THE PROPRIETIANY PROPRETTY OF COMMAIL ELECTRONICS, NO. AND CONTINUE CONFIDENTIAL AND TRADE SECRET PROFRANTION. THE SHEET HAN TO THE TRANSPERSE FROM THE CLISTOVO OF THE COMPRETENT DISSOLOR OF THE COMPRETENT DISSOLOR OF THE COMPRETENT DISSOLOR OF THE CONTINUE OF THE

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Memory Partition C - Upper 32 bits

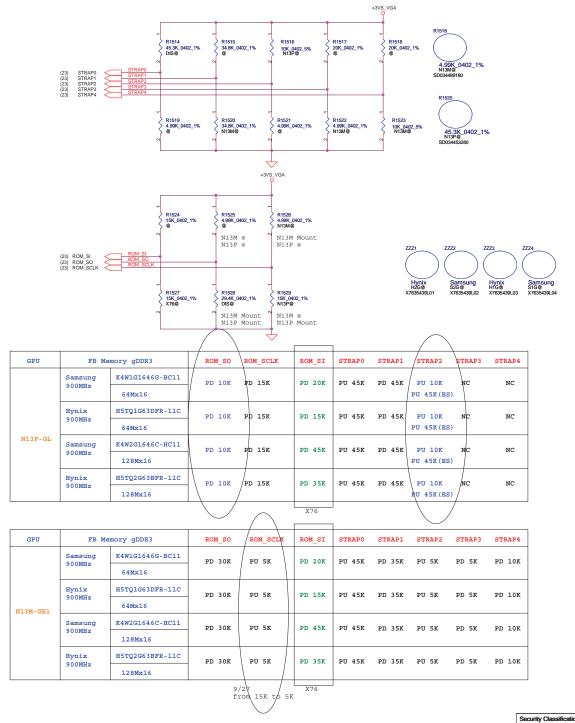




Mode D - Mirror Mode Mapping

- Mirro	or Mode	Mapp:
	DATA Bu	ıs
Address	031	3263
FBx_CMD0	CS0#_L	
FBx_CMD1		
FBx_CMD2	ODT_L	
FBx_CMD3	CKE_L	
FBx_CMD4	A14	A14
FBx_CMD5	RST	RST
FBx_CMD6	A9	A9
FBx_CMD7	A7	A7
FBx_CMD8	A2	A2
FBx_CMD9	A0	A0
FBx_CMD10	A4	A4
FBx_CMD11	A1	A1
FBx_CMD12	BA0	BA0
FBx_CMD13	WE#	WE#
FBx_CMD14	A15	A15
FBx_CMD15	CAS#	CAS#
FBx_CMD16		CS0#_H
FBx_CMD17		
FBx_CMD18		ODT_H
FBx_CMD19		CKE_H
FBx_CMD20	A13	A13
FBx_CMD21	A8	A8
FBx_CMD22	A6	A6
FBx_CMD23	A11	A11
FBx_CMD24	A5	A5
FBx_CMD25	A3	A3
FBx_CMD26	BA2	BA2
FBx_CMD27	BA1	BA1
FBx_CMD28	A12	A12
FBx_CMD29	A10	A10
FBx_CMD30	RAS#	RAS#

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Physical		Logical	Logical	Logical	Logical
Strapping pin	Power Rail	Strapping Bit3	Strapping Bit2	Strapping Bit1	Strapping Bit0
ROM_SCLK	+3VS_VGA	PCI_DEVID[4]	SUB_VENDOR	SLOT_CLK_CFG	PEX_PLL_EN_TERM
ROM_SI	+3VS_VGA	RAM_CFG[3]	RAM_CFG[2]	RAM_CFG[1]	RAM_CFG[0]
ROM_SO	+3VS_VGA	FB[1]	FB[0]	SMB_ALT_ADDR	VGA_DEVICE
STRAP0	+3VS_VGA	USER[3]	USER[2]	USER[1]	USER[0]
STRAP1	+3VS_VGA	3GIO_PAD_CFG_ADR[3]	3GIO_PAD_CFG_ADR[2]	3GIO_PAD_CFG_ADR[1]	3GIO_PAD_CFG_ADR[0]
STRAP2	+3VS_VGA	PCI_DEVID[3]	PCI_DEVID[2]	PCI_DEVID[1]	PCI_DEVID[0]
STRAP3	+3VS_VGA	SOR3_EXPOSED	SOR2_EXPOSED	SOR1_EXPOSED	SOR0_EXPOSED
STRAP4	+3VS_VGA	RESERVED	PCIE_SPEED_ CHANGE_GEN3	PCIE_MAX_SPEED	DP_PLL_VDD33V

Resistor Values	Pull-up to +3VS_VGA	Pull-down to Gnd
5K	1000	0000
10K	1001	0001
15K	1010	0010
20K	1011	0011
25K	1100	0100
30K	1101	0101
35K	1110	0110
45K	1111	0111

SUB	_VENDOR
0	No VBIOS ROM
1	BIOS ROM is present (Default)

3GIO_PADCFG	
3GIO_PADCFG[3:0]	
0110	Notebook Default

GPU and MCH don't share a common reference clock

GPU and MCH share a common reference clock (Default)

	XCL	K_417
	0	277MHz (Default)
	1	Reserved

FB_	0_BAR_SIZE
0	Reserved
1	Reserved
2	256MB (Default)
3	Reserved

SMBUS_ALT_ADDR	
0	0x9E (Default)
1	0x9C (Multi-GPU usage)

PCIE MAX SPEED

Limit to PCIE Gen1

PCIE Gen 2/3 Capable

SLOT CLK CFG

VGA	_DEVICE
0	3D Device (Class Code 302h)
1	VGA Device (Default)

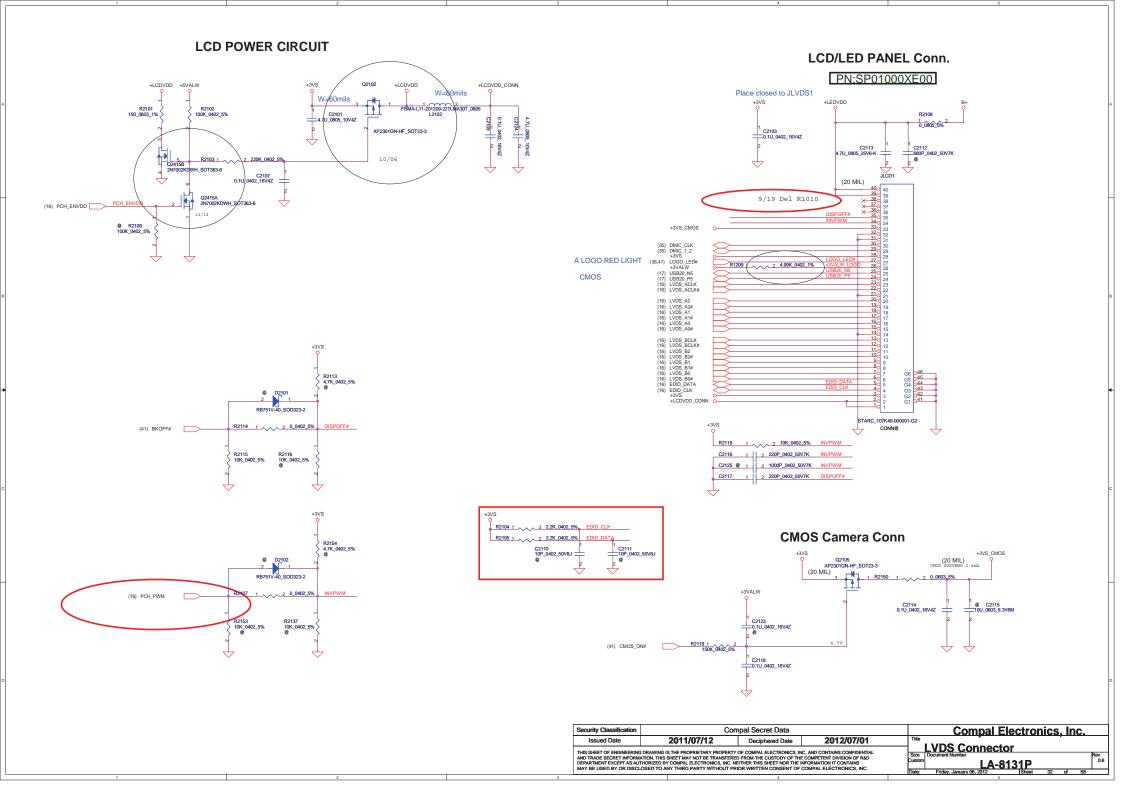
USER Stra	ps
User[3:0]	
1000-1100	Customer defined

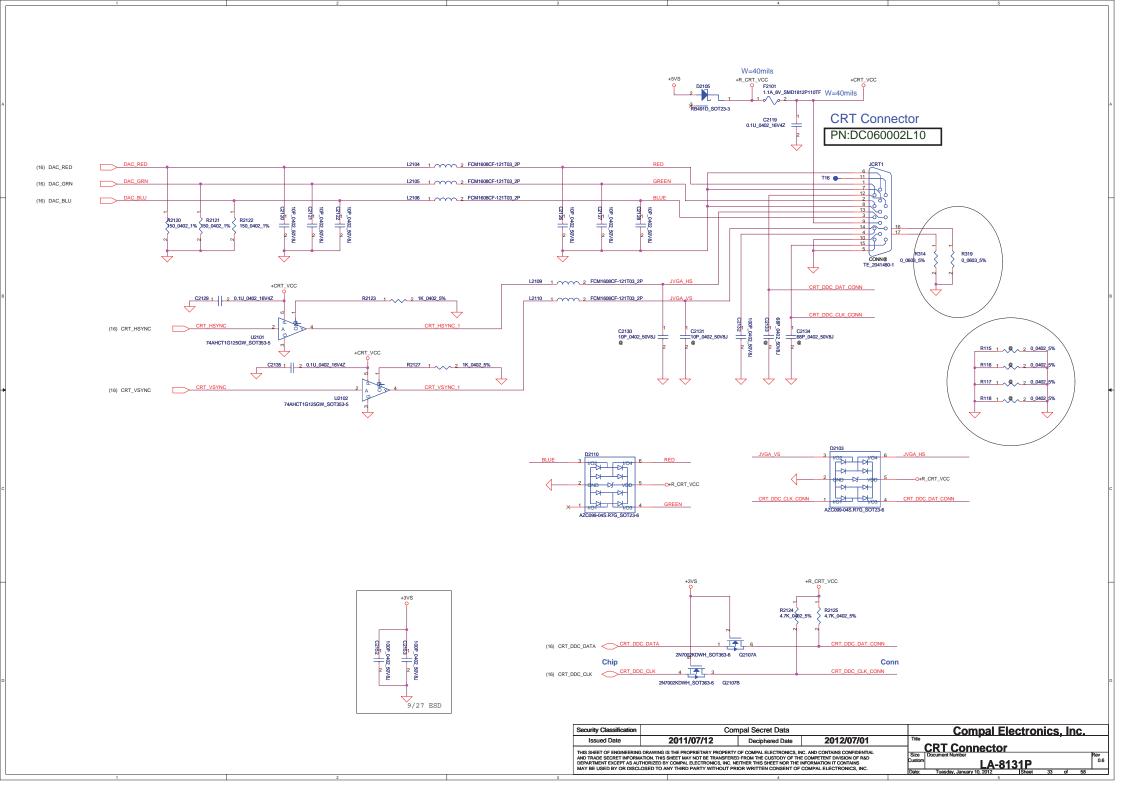
PEX	PLL_EN_TERM
0	Disable (Default)
1	Enable

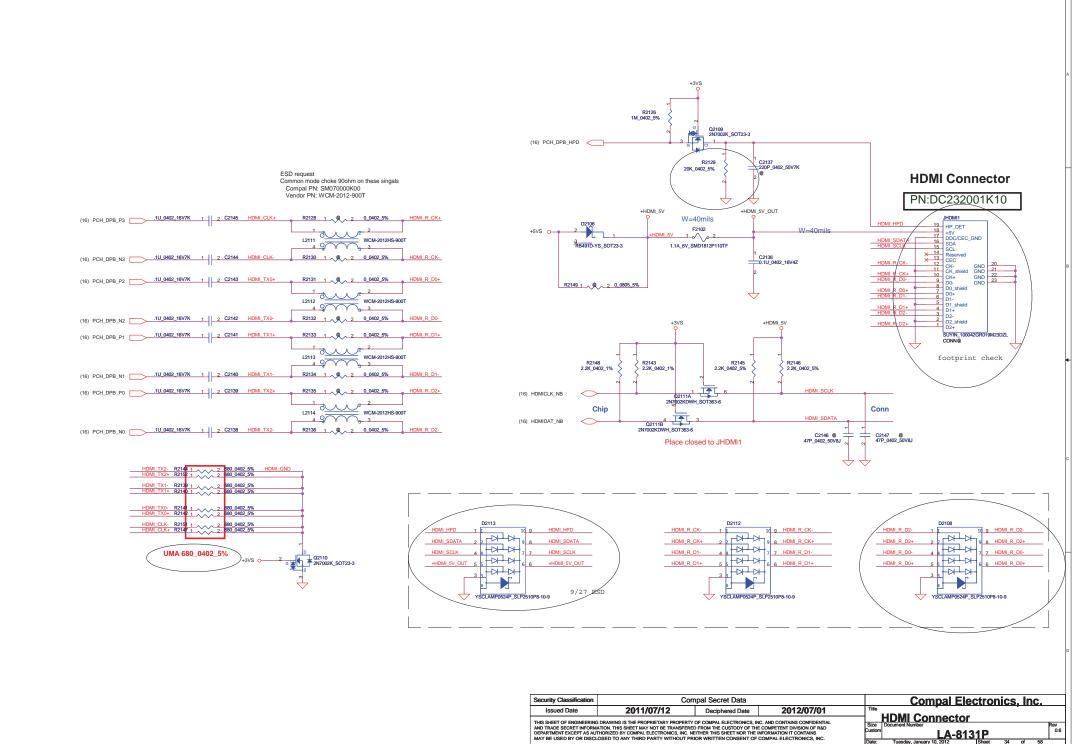
Security Classification Compal Secret Data

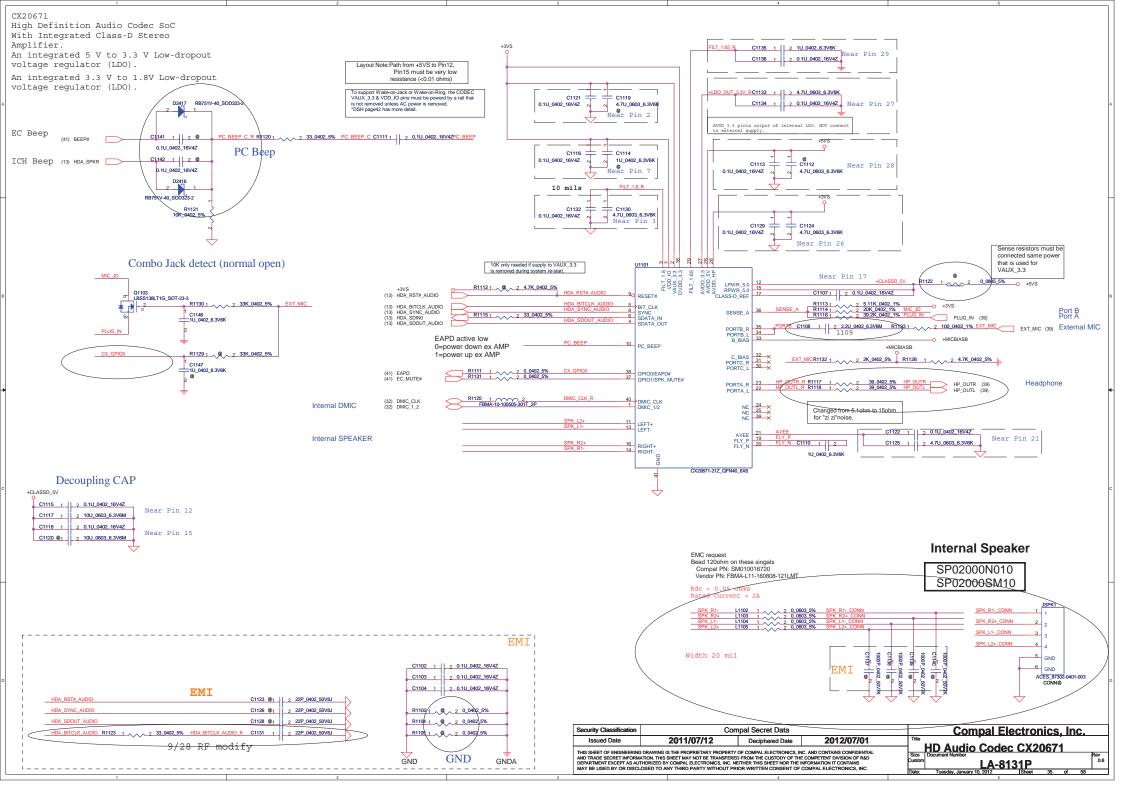
Issued Date 2011/07/12 Deciphered Date 2012/07/01

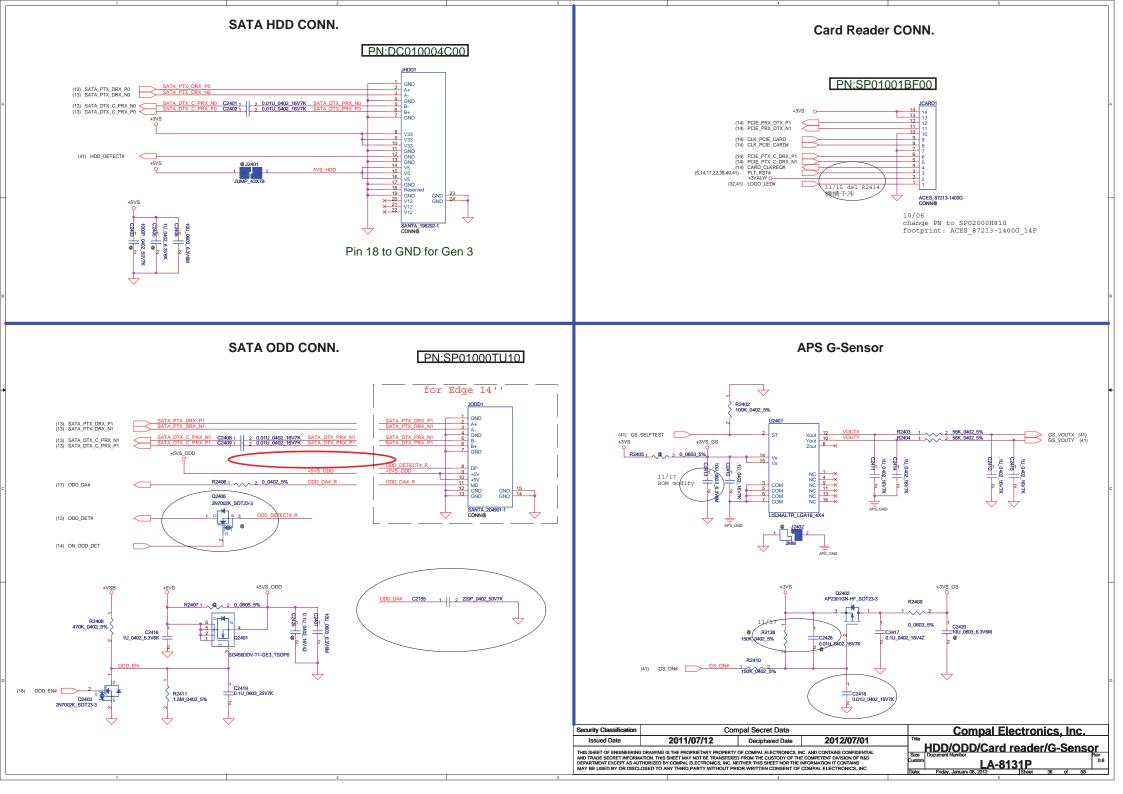
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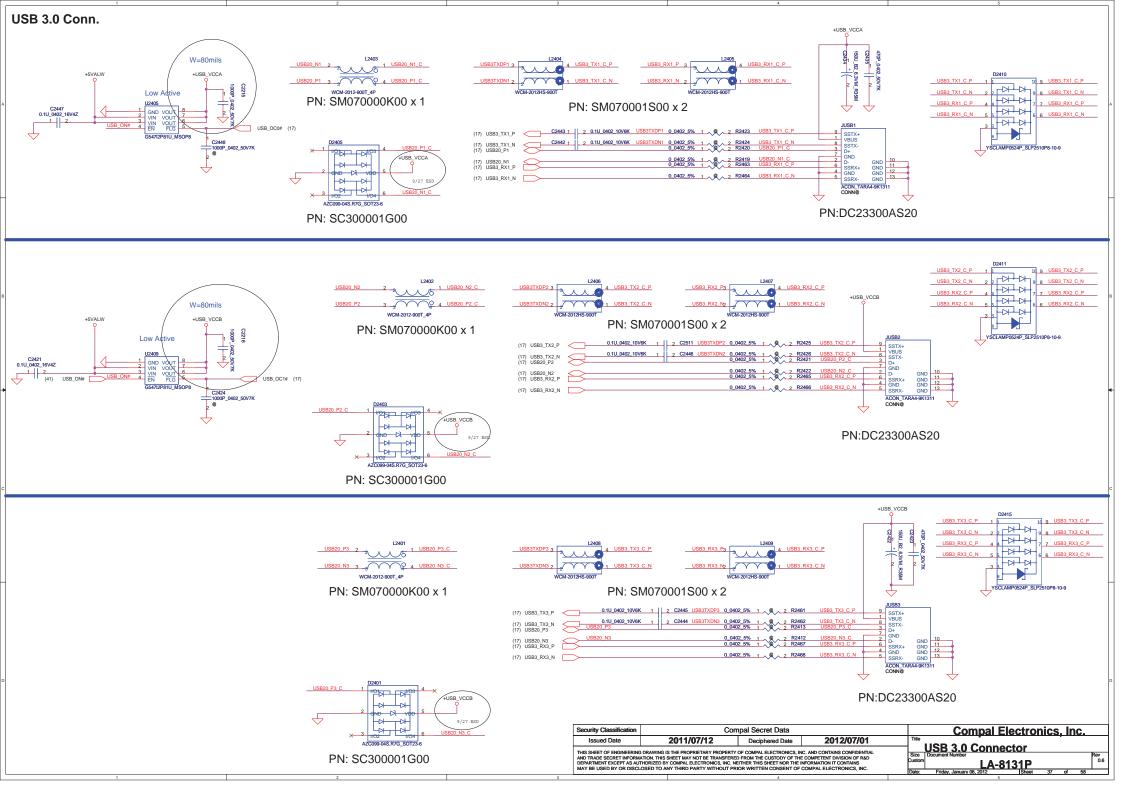


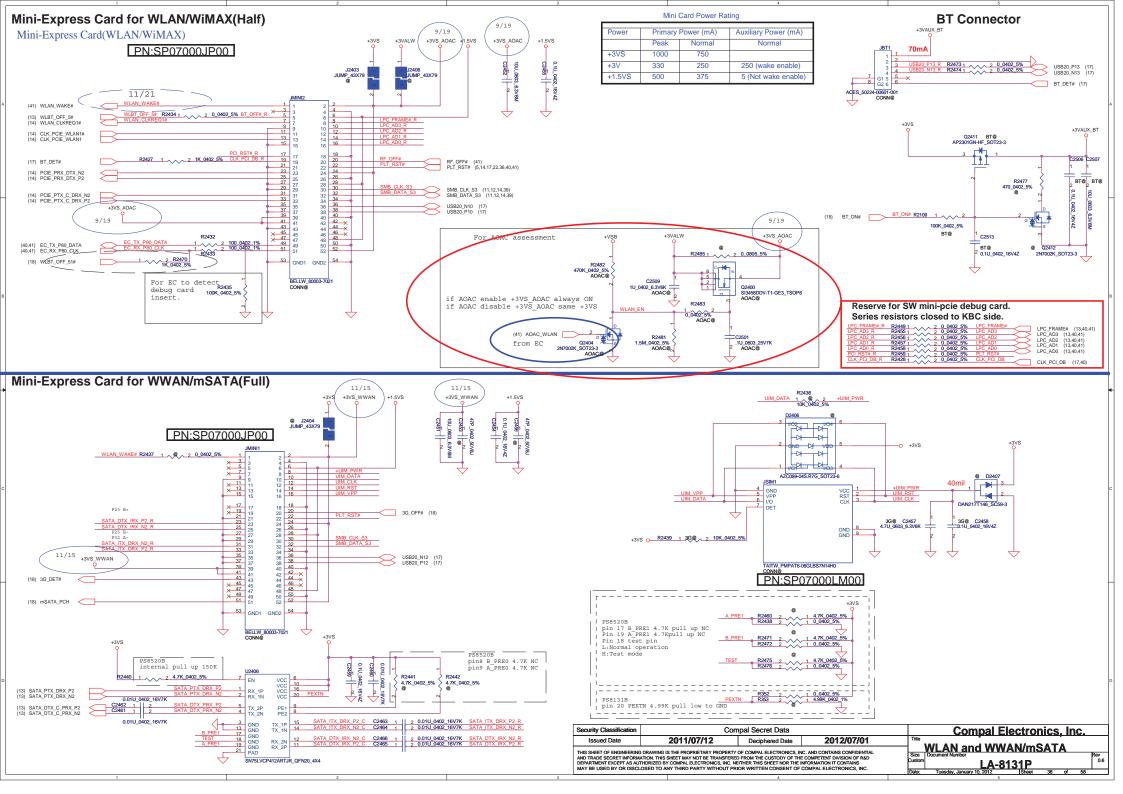


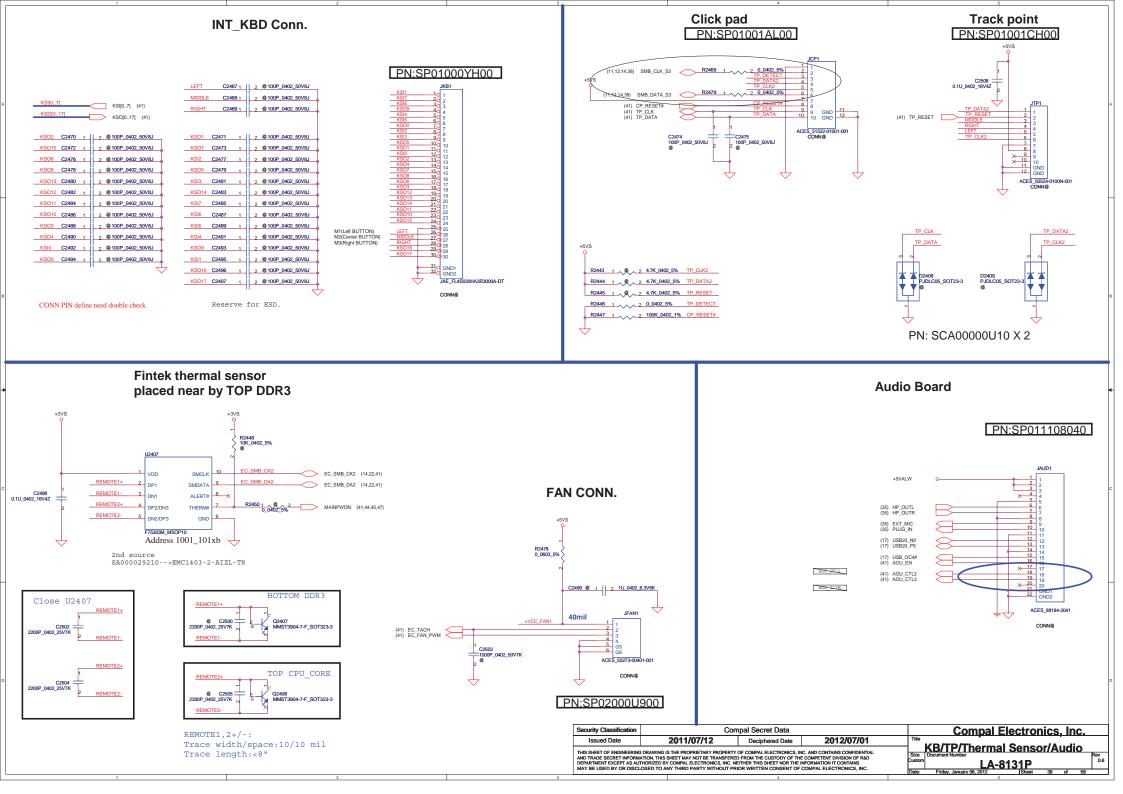


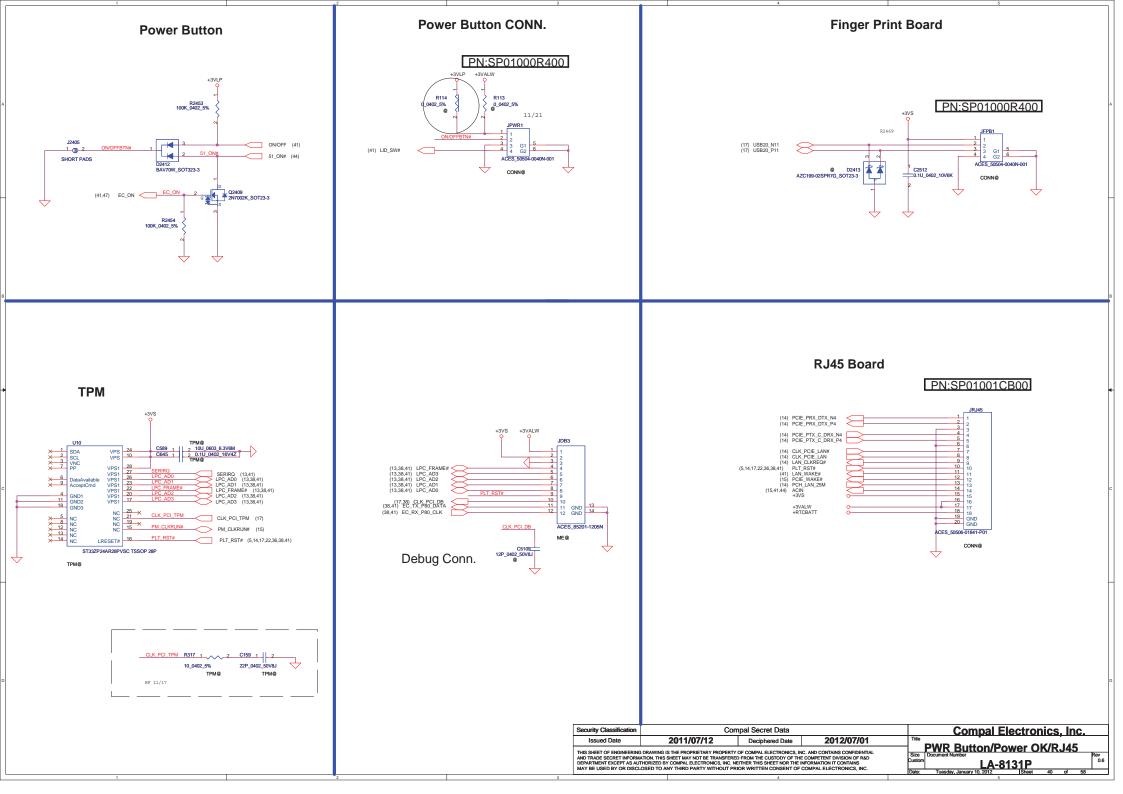


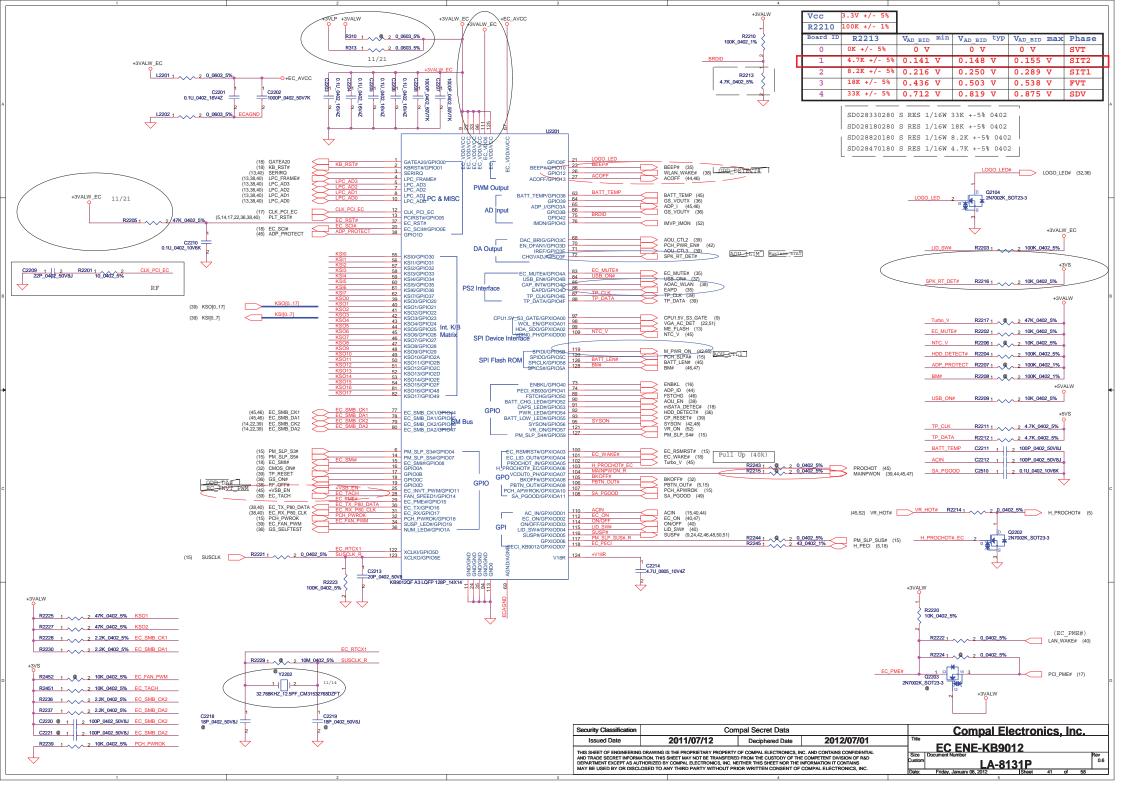


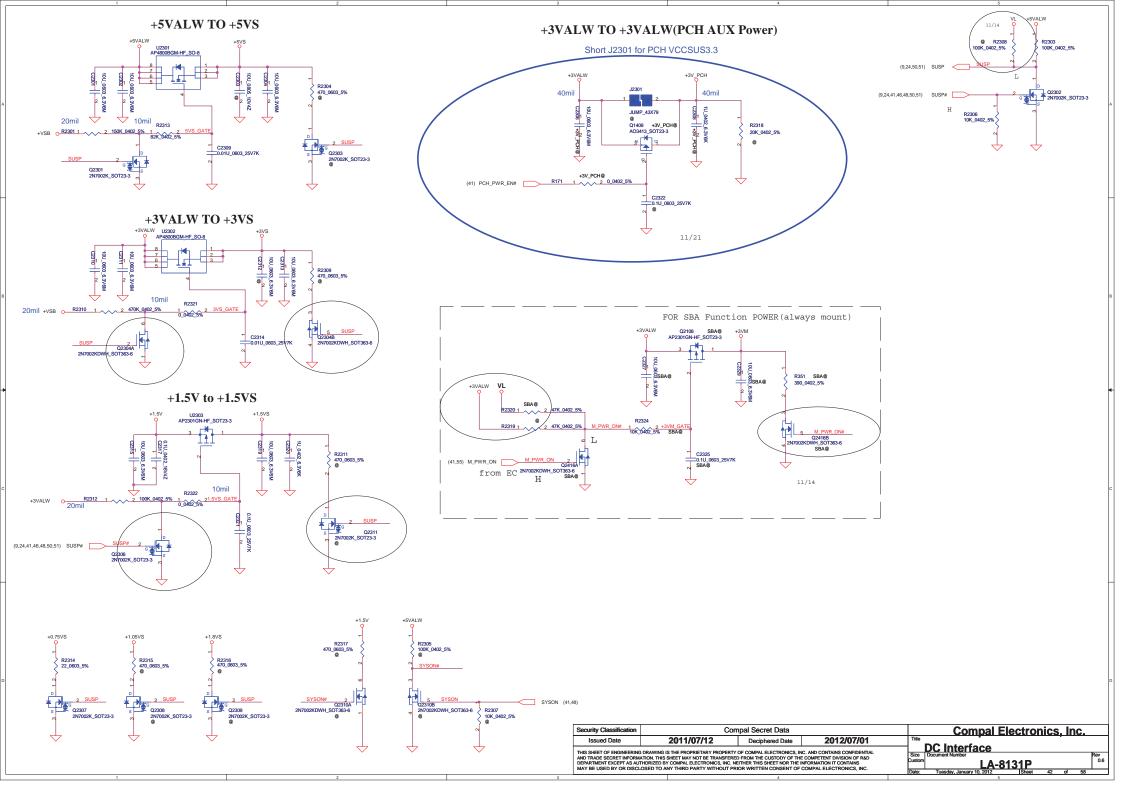


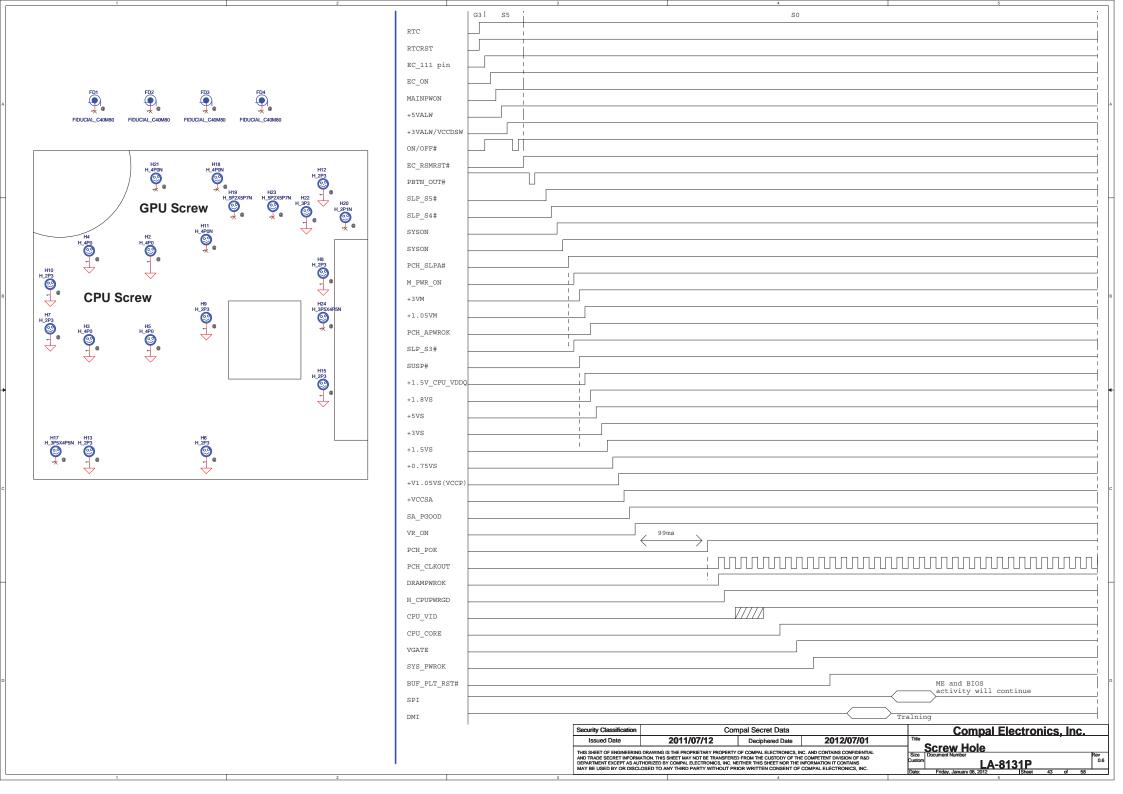


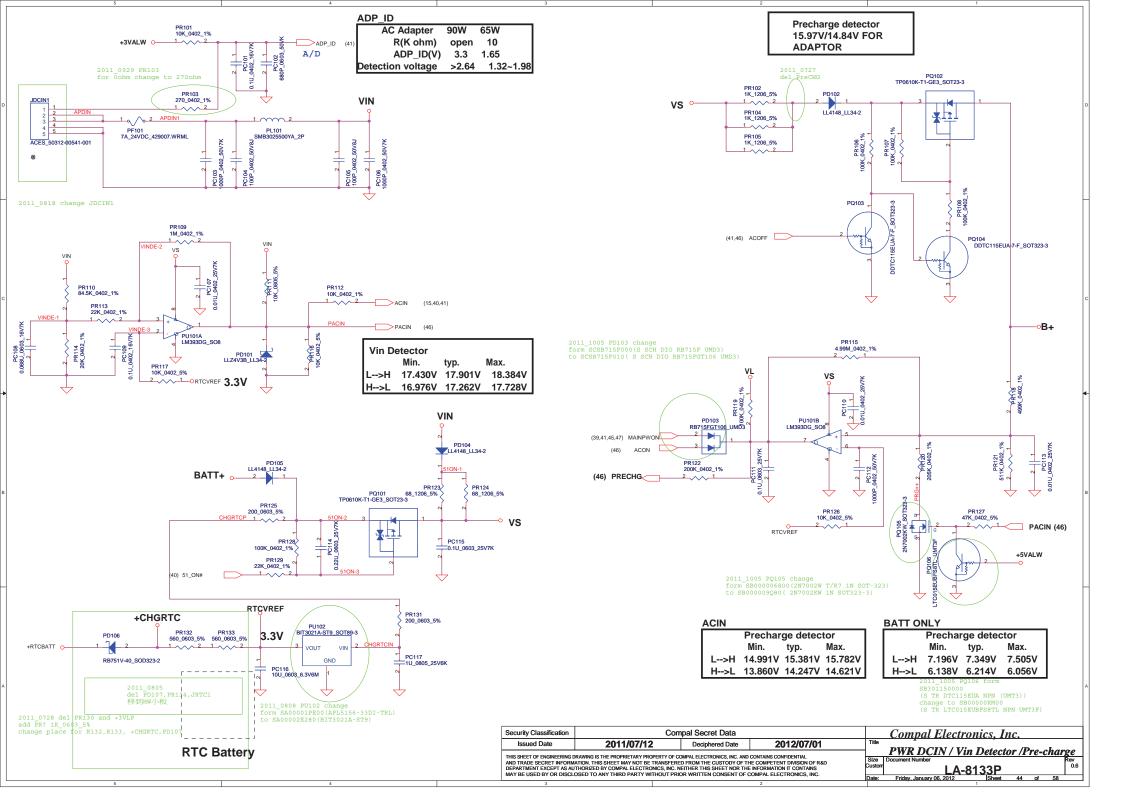


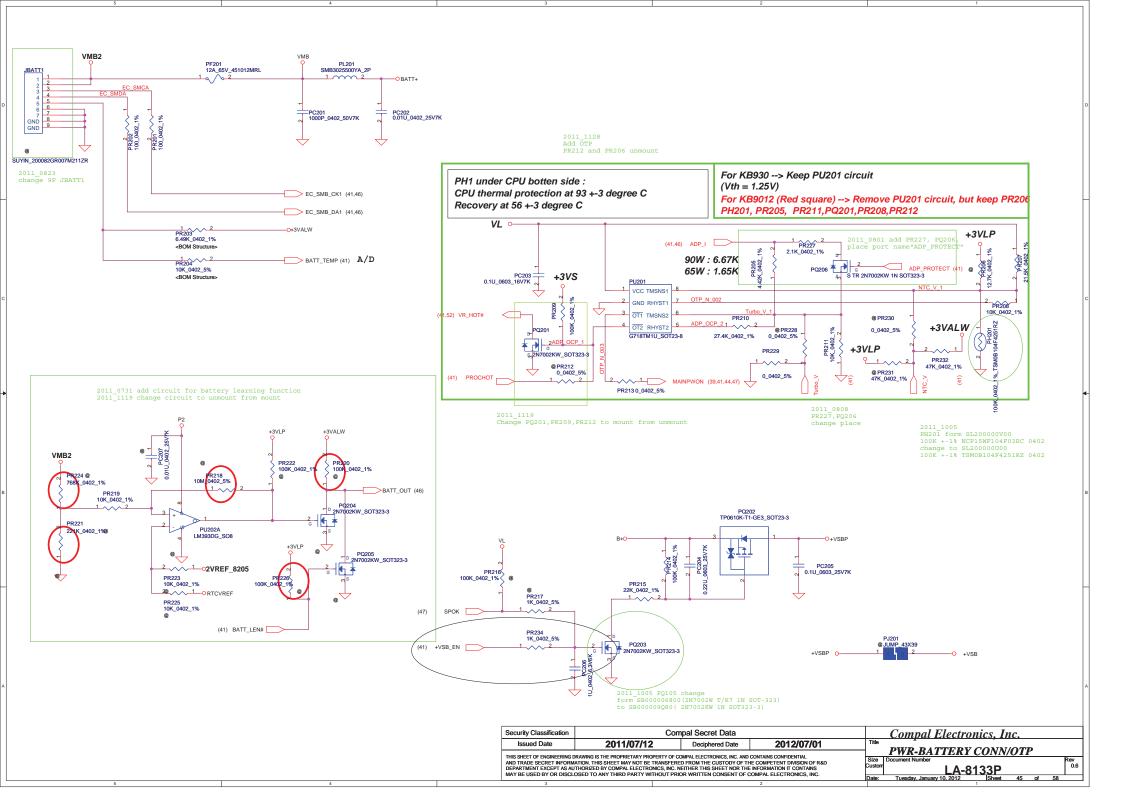


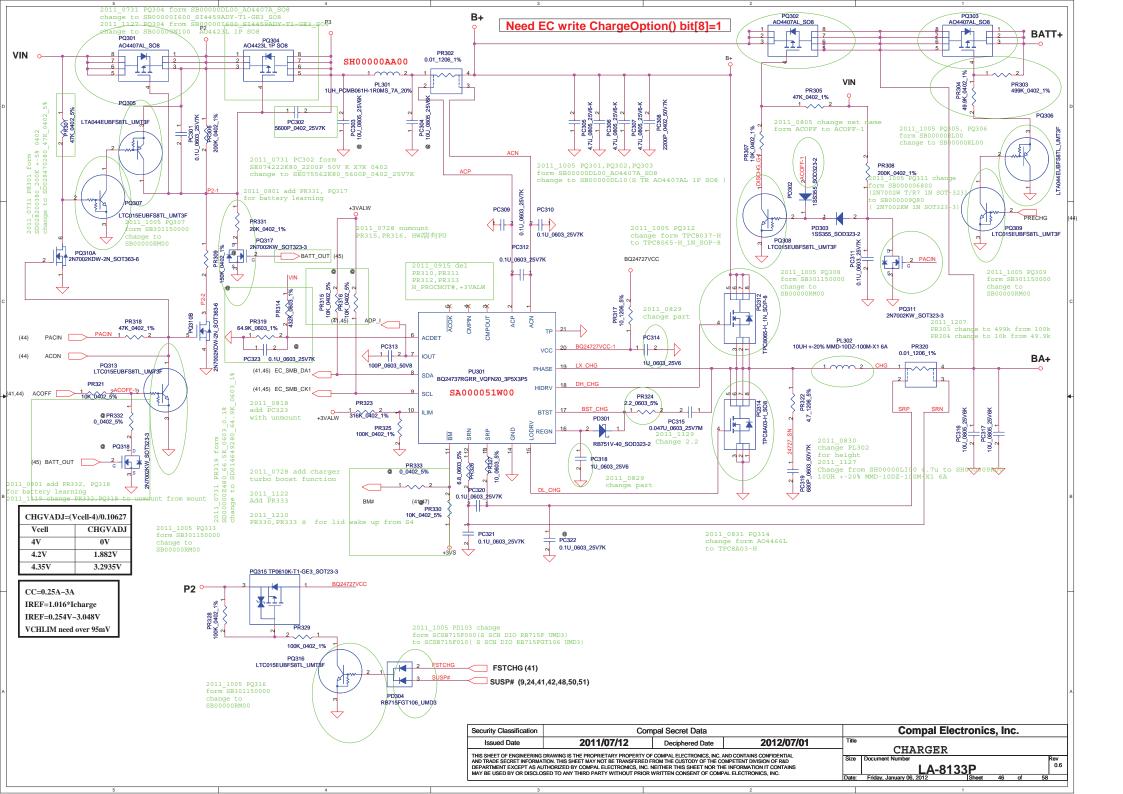


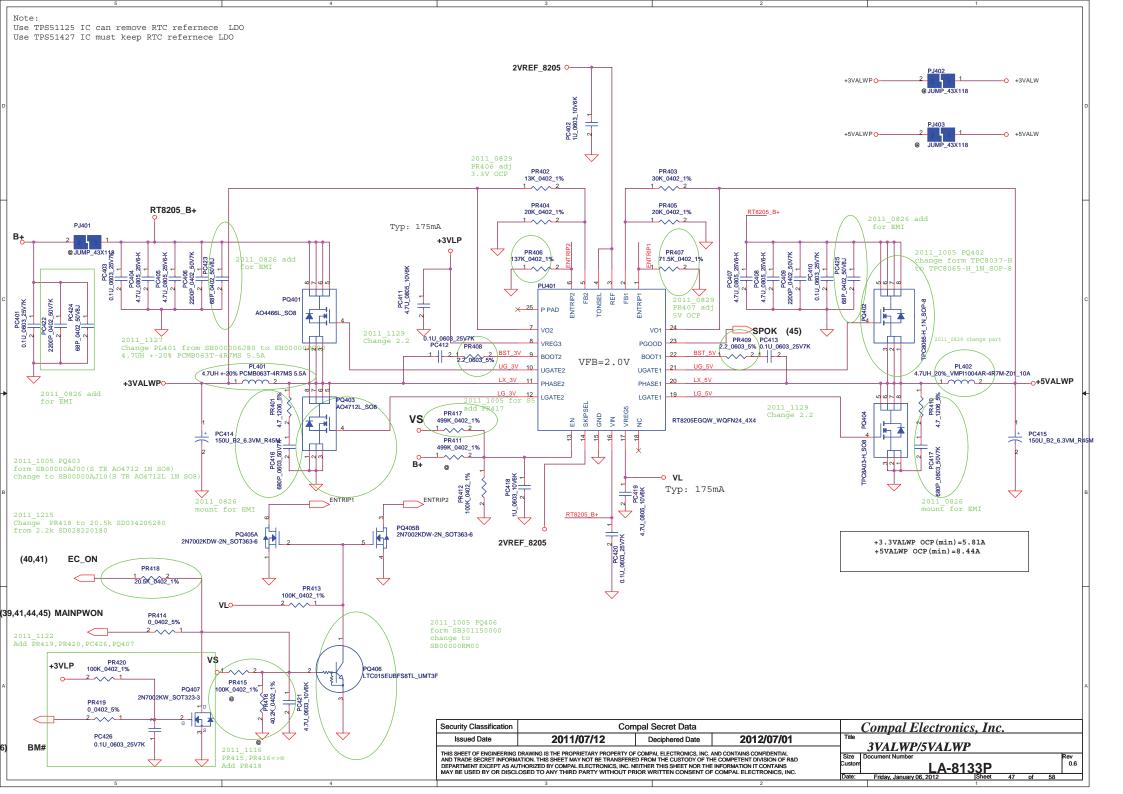


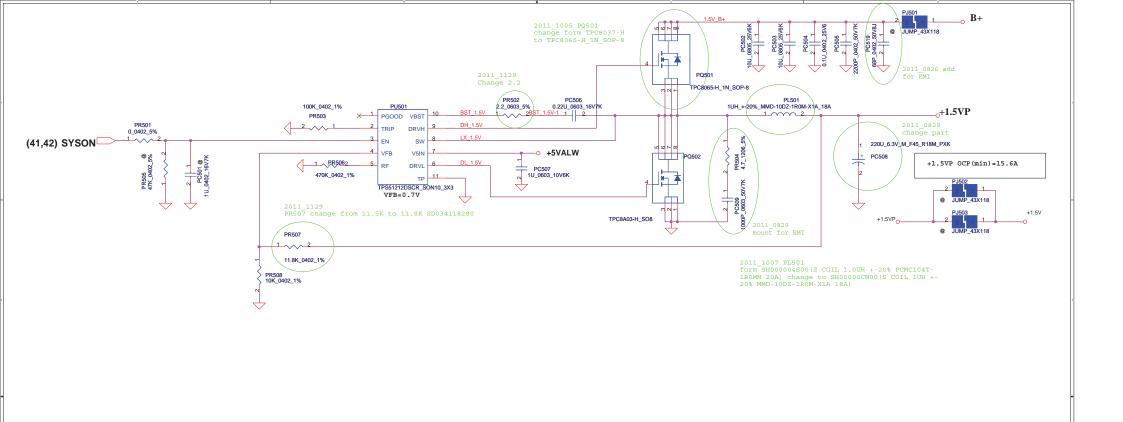


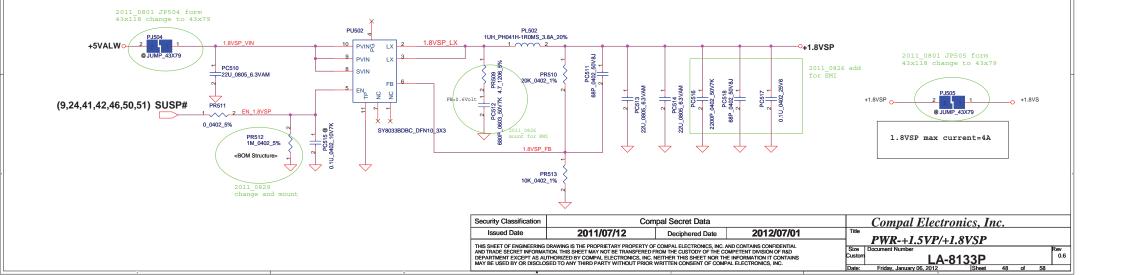


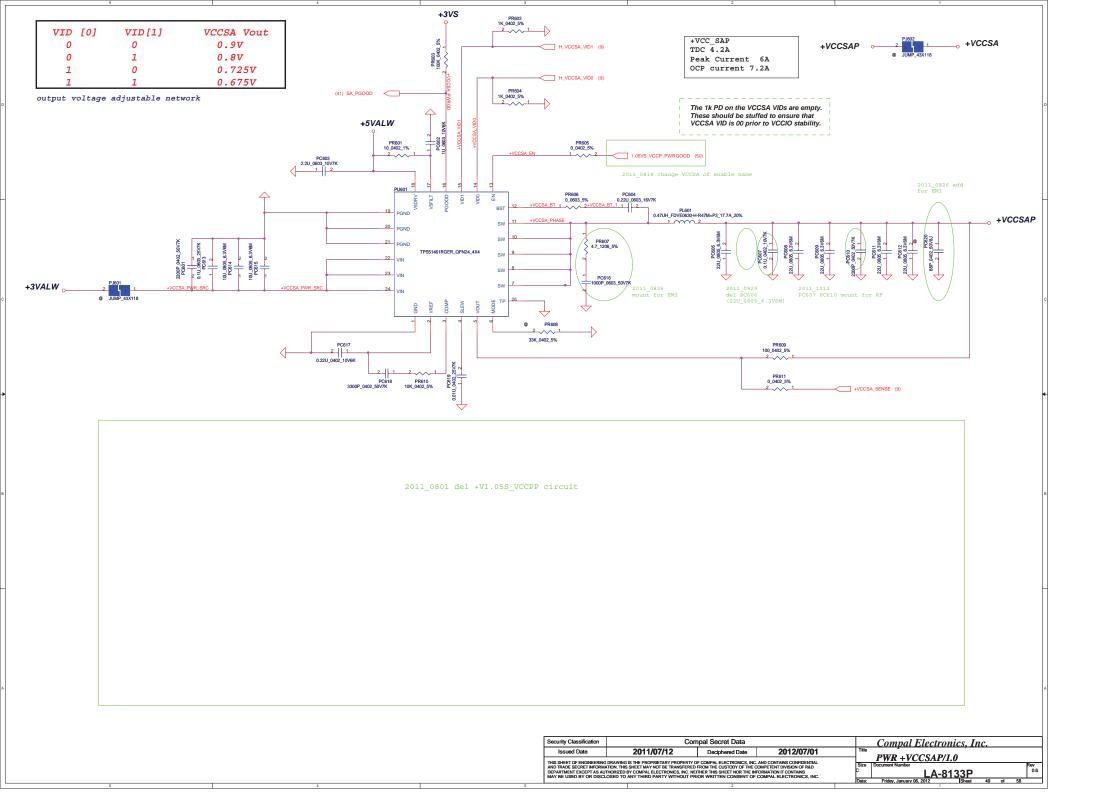


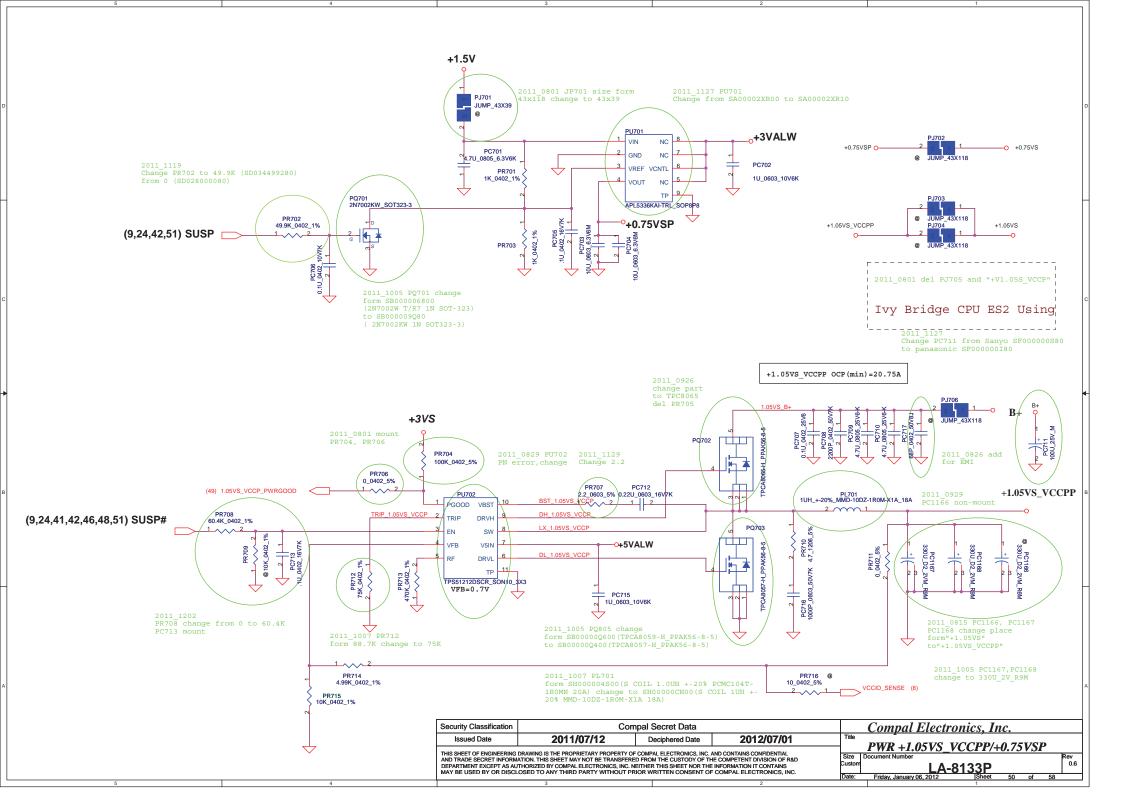


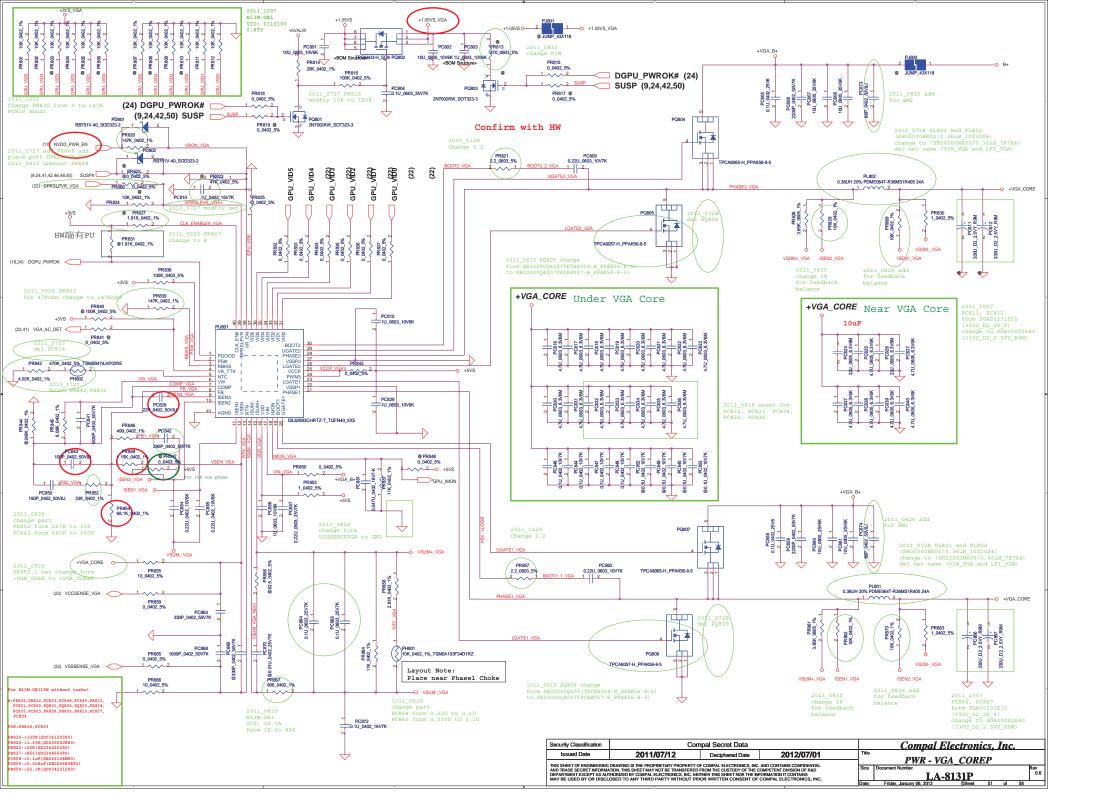


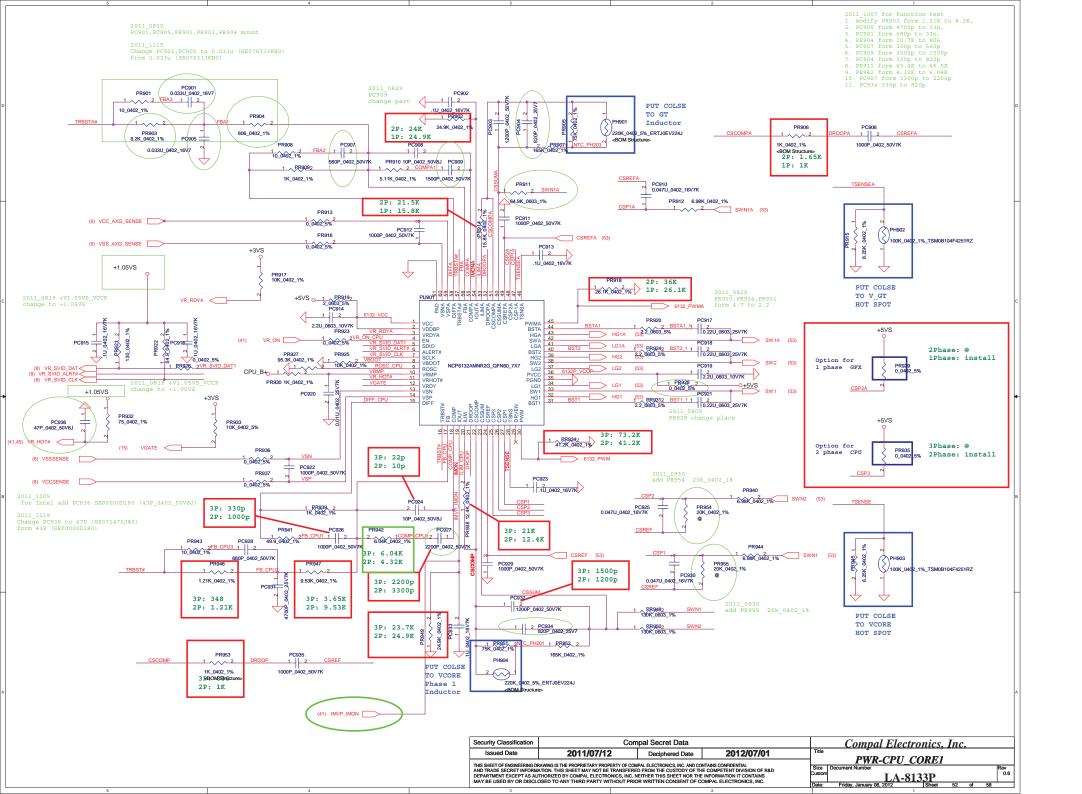


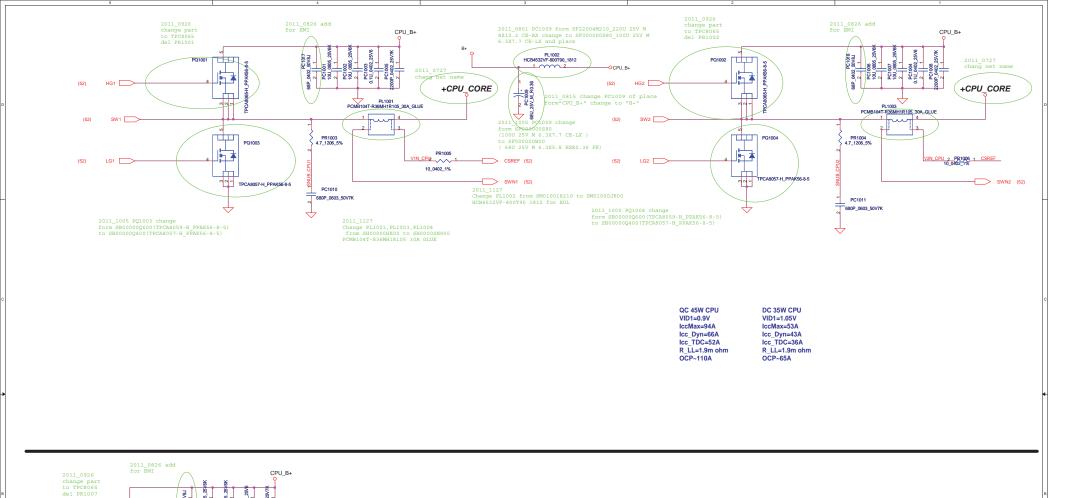


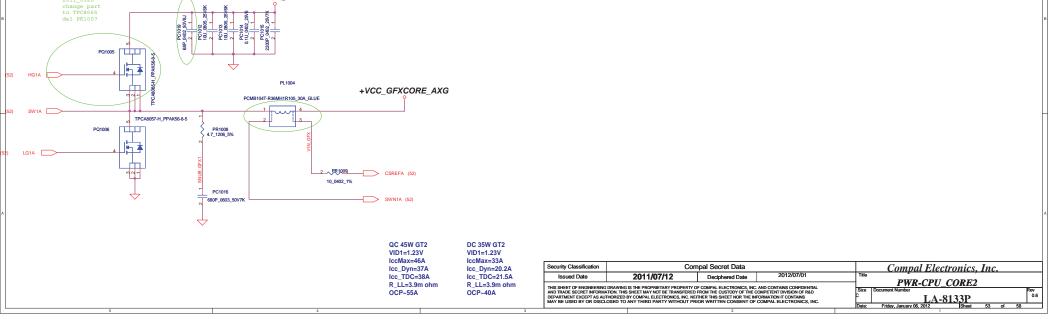


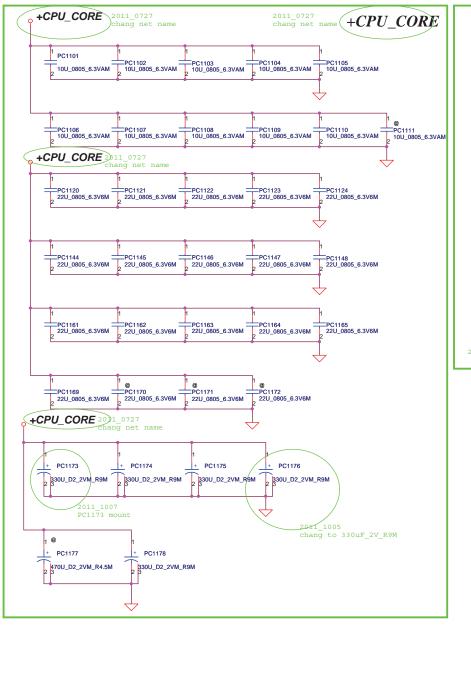


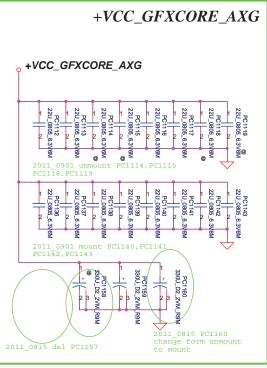




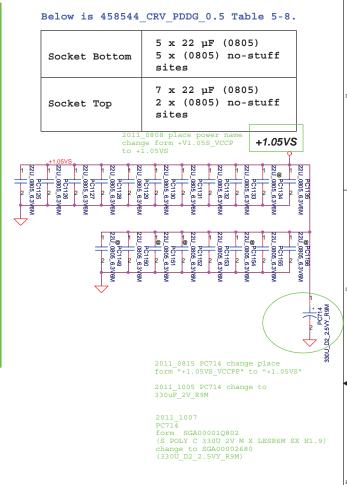




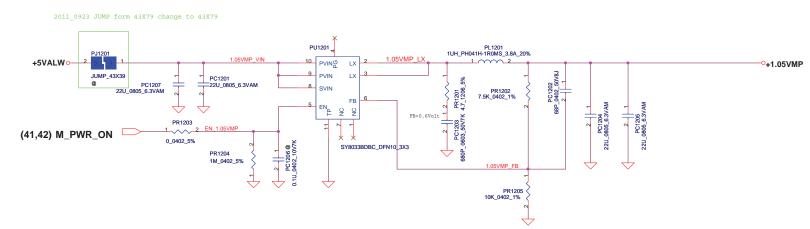




2011_07929 PC1158 non-mount

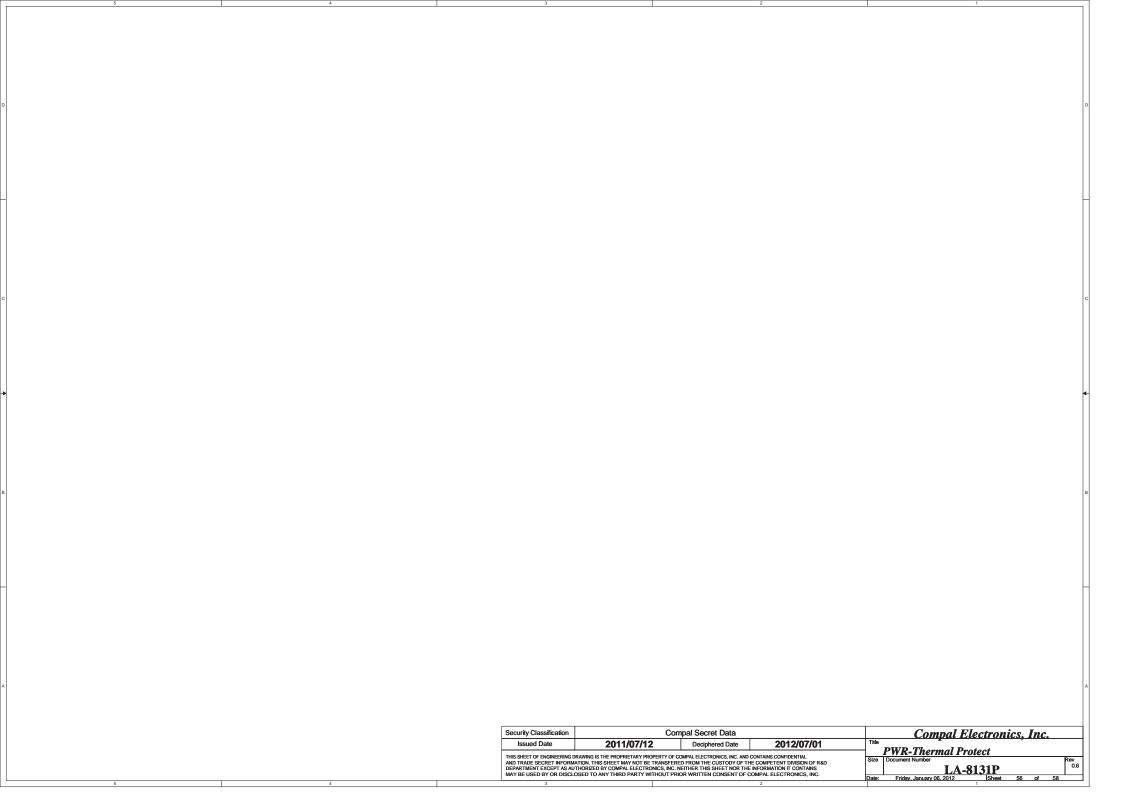






+1.05VMP 2 PJ1202 1 +1.05VM
@JUMP_43X79 +1.05VM

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Issued Date	2011/07/12	Deciphered Date	2012/07/01	Title				
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Version change list (P.I.R. List)							1
Item	Reason for change	PG#	Modify L	ist		Date	Phase
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Version	Version Change List (P.I.R. List)							
Phase	Date	No.	BOM		Layout	Description	function	
Fliase			BOM		Layout			
	2011/09/13	No1 No2		v	V	Add C2325,C2326,C2327,C2328,C2329,R2319,R2324,Q2312 Del Q2305	Add SBA function (+3VM) power Del SYSYON#	
	2011/09/15	No3		v		Add EC pin 119 (M PWR ON) for SBA function	Add SBA function	
	2011/09/15	No4		v		Add EC pin 120(PCH_SLPA#) from PCH to EC for SBA function	Add SBA function	
	2011/09/15	No5		v		Add EC pin72 (Muxless_STAT) for GPU STAT	Add Muxless_STAT function	
	2011/09/15	No6		v		Del PR310, PR311, PR312, PR313, net name: "H_PROCHOT#", +3VALW.	PWR-CHARGER-BQ24727	
	2011/09/15	No7 No8	v	v	v	mount PC832 Add R2482,Q2404,C2509,R2481,R2485,Q2400,R2483,C2501	AOAC Function	
						change net name BT OFF# to BT ON# and change PCH EN GPIO from GPIO34 to GPIO36		
	2011/09/15	No9		v	v	R280 from @ to mount,R282 from mount to @	BT Function	
	2011/09/15	No10		v	v	change net name(Mini-Express) from BT_OFF# to WLBT_OFF# PCH EN GPIO change to GPIO34	BT Function	
						change +3VS_WLAN net name to +3VS_AOAC		
	2011/09/19	No11		v	v	change +3VS_WWAN net name to +3VS_AOAC	AOAC Function	
	2011/09/19	No12		v	v	Del R1010 for LVDS CONN plug high voltage	LVDS CONN	
	2011/09/19	No13		v	v	R1102,R1104,R1105 from @ to mount fix MIC(ECR97236)issue	MIC function	
	2011/09/19 2011/09/19	No14 No15		v v	v v	Add R2470 for 80 port function Del R2476 Add Q2405	80 port function	
	2011/09/19	NOIS		*	*	Add power schematic 9/15 again modify RF PC423, PC425, PC519, PC620, PC717,	BT Function	
	2011/09/20	No16		v	v	ROBERT POWER TO SET THE SEASON POLICY POLIC		
						INDUITY FOWER任 VGAHYPWM IC 川山外参行 PR850		
	2011/09/22	No17		v	v	Add Ul0,C589,C645 for TPM function	TPM function	
	2011/09/22	No18 No19		v v	v v	Add R110,R112 for SPI POWER choose(SBA function) modify power page 44-57(PJ1201 JUMP form 43X79 change to 43X79)		
	2011/09/23	MOTA		"	v			
						change CPU footprint from TYCO_2013620-2_989P-T to TYCO_2013620-2_989P-T-A39 change PCH footprint from PANTHER-POINT_FCBGA_989P-T to PANTHER-POINT_FCBGA_989P-T-A39		
	2011/09/26	No20		v	v	change GPU footprint N13P-PES-A1 FCBGA 908P to N13P-PES-A1 FCBGA 908P-A39 change VRAM footprint K4W1G1646E-HC12_FBGA_96P to K4W1G1646E-HC12_FBGA_96P-A39		
	2011/09/26	No21 No22		v	v	change PCH_GPIO24(R288) pull up to +3V_PCH change P18 (R311,R330,R286,R329) for UMA and Optimus memon		
	2011/09/26	No22 No23		v v		change P18 (R311,R330,R286,R329) for UMA and Optimus memon change net name PCH_THRMTRIP#_R to VGA_THRMTRIP#		
						PQ702 change to TPC8065,Del PR705		
	2011/09/26	No24		v	v	PQ1001,PQ1002,PQ1005 change to TOC8065,Del PR1001,PR1002,PR1007		
	2011/09/26	No25		v	v	p43 change Q2304 dual channel 2n7002 to single channel Q2304,Q2305(Q2305 @) p43 change Q2306 dual channel 2n7002 to single channel Q2306,Q2311(Q2311 @)		
		N-07	v			modify EC Board ID R2213 to 18K		
	2011/09/27	No27 No28	V	v	v	net name CX_GPI00 connect to U1101 pin 38	*	
	2011/09/27	No29		v	v	Add C2152,C2153,D2113 for BSD		
	2011/09/27	No30		v	v	change NVIDIA N13M ROM_SCLK from 15K PU to 5K PU		
	2011/09/27	No31		v	v	change BSD part D2401,D2403,D2405 power from +5VALW to +USB VCCA		
	2011/09/27	No32 No33		v	v	Add C2108 for GPU_CLKREQA Add Q2406 , modify R2401, Change PCH_GPI019 to ODD_DET#, for zero power ODD		
	2011/09/27 2011/09/27	No34				change WLBT OFF# to PCH GPI034		
	2011/09/27	No35				change PCH_GPI034 to WLBT_OFF#(mini card pin5)		
	2011/09/27	No36				change BT_ON# connect to WLBT_OFF#(mini card pin51)		
	2011/09/28	No37				C76 , R1123 , c1131 , R2201,C2209 C84,C85 from @ to mount for RF team		
	2011/09/29	No38				R1529 change to 15K Add CONN JDB3 fo debug		
	2011/09/29 2011/09/29	No39 No40				Add CONN JDB3 to debug Add R2460,R2438,R2471,R2472,R2475,R2476 for PS8520B		
	2011/09/29	No41				change D2403 ,D2401 power to +USB_VCCB,and del D2403 ,D2401,D2405 Pin3 net		
	2011/09/29	No42				change power schematic		
						del PC606 (22U_0805_6.3V6M) PR855.1 net change form +VGA_CORE to +VGA_COREP		
	2011/09/29	No43				PR827 mount change to @(non-mount) PR839 for 47Kohm change to 147Kohm		
	2011/09/29	NO43				PR103 for Oohm change to 270ohm PC1166 non-mount,PC1173 non-mount,PC1158 non-mount		
	2011/02/22	No44				A44 00010 00000 00000 00000 00000 00000 00000 0000	H	
	2011/09/29	NO44				Add Q2313,C2305,C2306,C2307,C2308,R2318,R2320,R2320,C2322 for +3V_PCH change CRT CONN to DC061109231(footprint pin modify)		
	0000/00/00	** =				Add R954, R955 Add H16,H27		
	2011/09/29	No45				change Q2304.Q2305 to Q2304		
						modify PTH H11,H18 ,H21 Del T10 for SUS_STAT(SLP_S3# 走不出來)		
						200 Paga Paga G. (200) - 1.1 - 20 0101P		
						reserve R352,R353 for SATA re-drive PS-8131B change net name fron WLBT_OFF to WLBT_OFF_5#		
	2011/10/04	No46				modify PCH_GPIO34 connect to BT_ON# for BT module modify PCH_GPIO36 from BT_ON# connect to WLBT_OFF_51# for mini card BT combo module		
						changr Q2301 to 2N7002		
	2011/10/05	No47				Del R2469,T49,T45,T41,T37,T36,T28,T26 for ME 限高0 changer power net +3VS_FP to +3VS		
	,					update power schematics P44-P57		
	2011/10/06	No48				change Q1202 part to SB000007H10.		
						change JCARD1 PN to SP02000H810 footprint: ACES_87213-1400G_14P change some CONN part NO. for ME CONN list		
ļ						Add D2416 Security Class	ification Compal Secret Data Compal Electronics, Inc.	
						Issued Da	te 2011/07/12 Deciphered Date 2012/07/01 Tile	
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		1				2 3	4 5	