

Model Name : File Name : LA-8671P

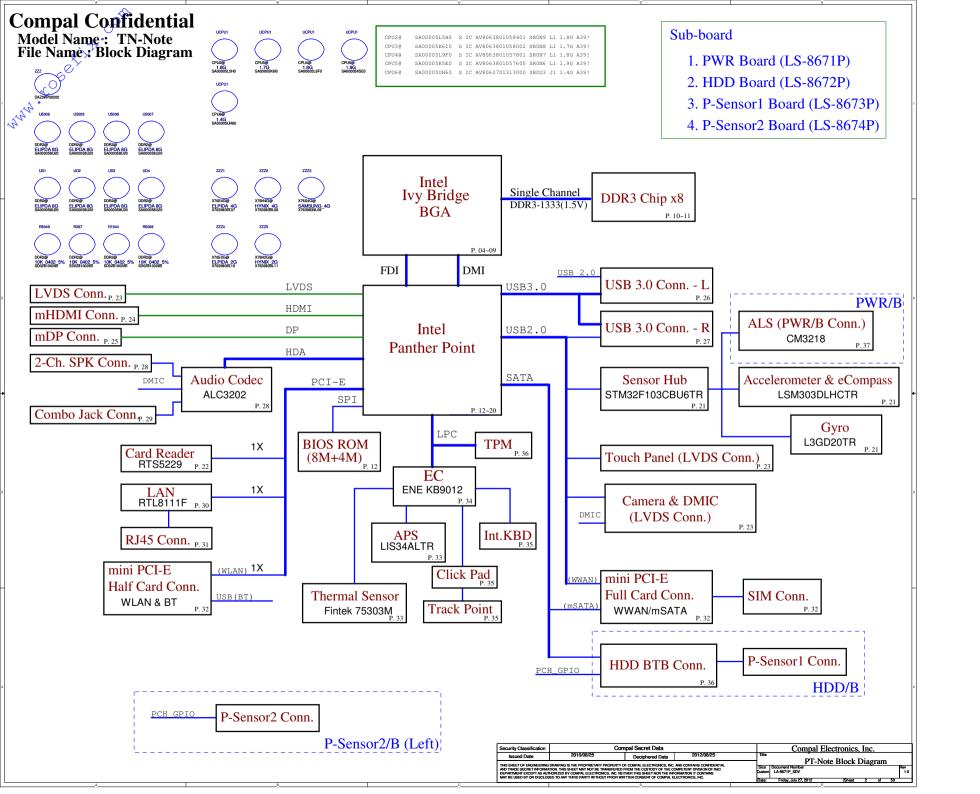
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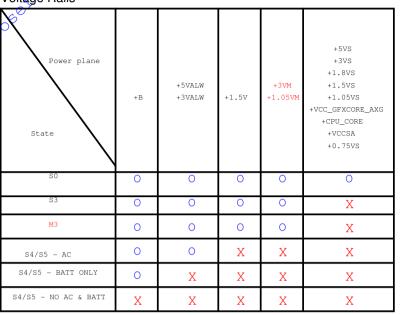
TN-Note Schematic Document

2012-07-27

REV:1.0_0727A

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STATE	SLP_S3#	SLP_S4#	SLP_S5#	+VALW	+V	+VS
Full ON	Н	Н	Н	ON	ON	ON
S3 (Suspend to RAM)	L	Н	Н	ON	ON	OFF
S4 (Suspend to Disk)	L	L	Н	ON	OFF	OFF
S5 (Soft OFF)	L	L	L	ON	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	
6	
7	

EC SM Bus1 address

EC SM Bus2 address

Device	Address	HEX	Device	Address	HEX
Smart Battery	0001-011xb	16H	Thermal sensor	1001-101xb	9AH
Charger	0001-0010b	12H	PCH (SML1DATA / GPIO75)	1001-0110 b	96H

SM Bus Controller

Device	Address	HEX	
Security Rom	1010-100x b	A8 H	
DDD DIMMO	1010 000v b	40.11	

BOM Structure

	SDV	FVT	SIT	SVT	SOVP
@ : No Stuff					
ME@ : ME components					
CPUx@ : CPU SKU	V	V	V	V	
DDRx@ : RAM SKU	V	V	V	V	
SBA@ : SBA	V	V	V	V	
NOSBA@ : NO SBA					
ID4@ : Intel Deep S4	V				
AOAC@ : AOAC	V	V	V	V	
TPM@ : TPM		V	V	V	
Short@ : Oohm short pad					

SM Bus Controller 0

Device	Address	HEX
No-use	No-use	No-use

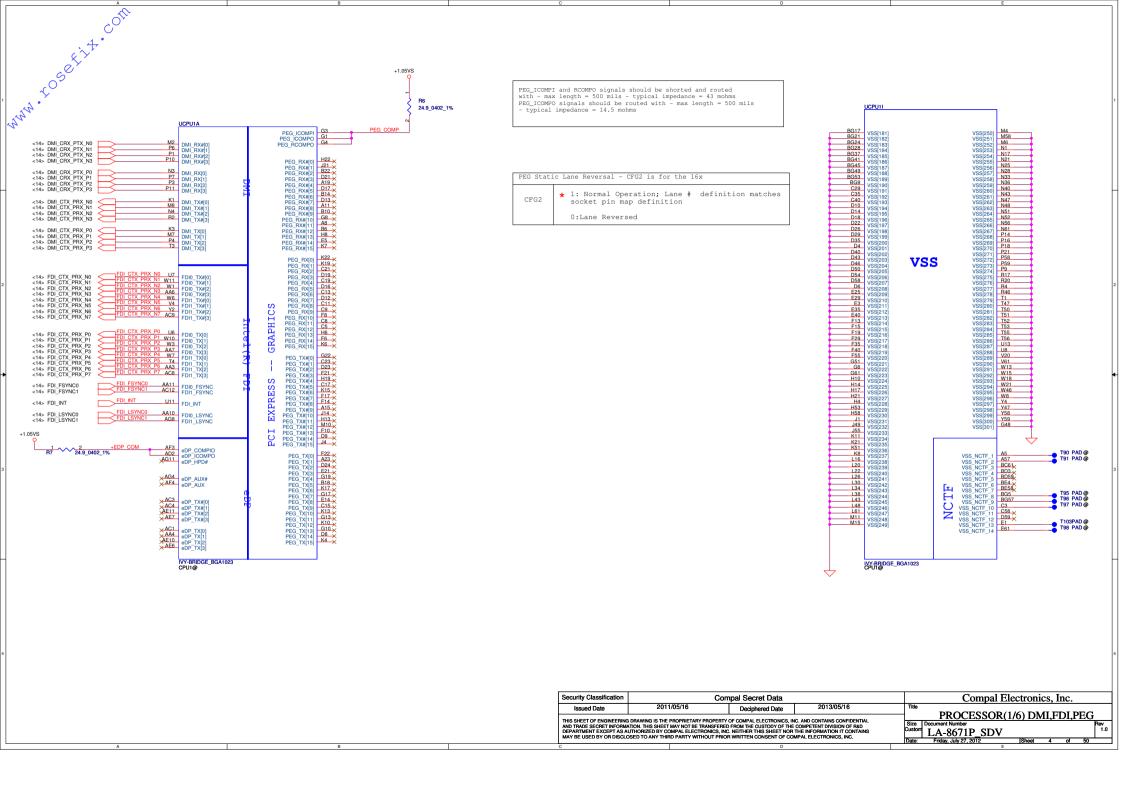
Sensor HUB

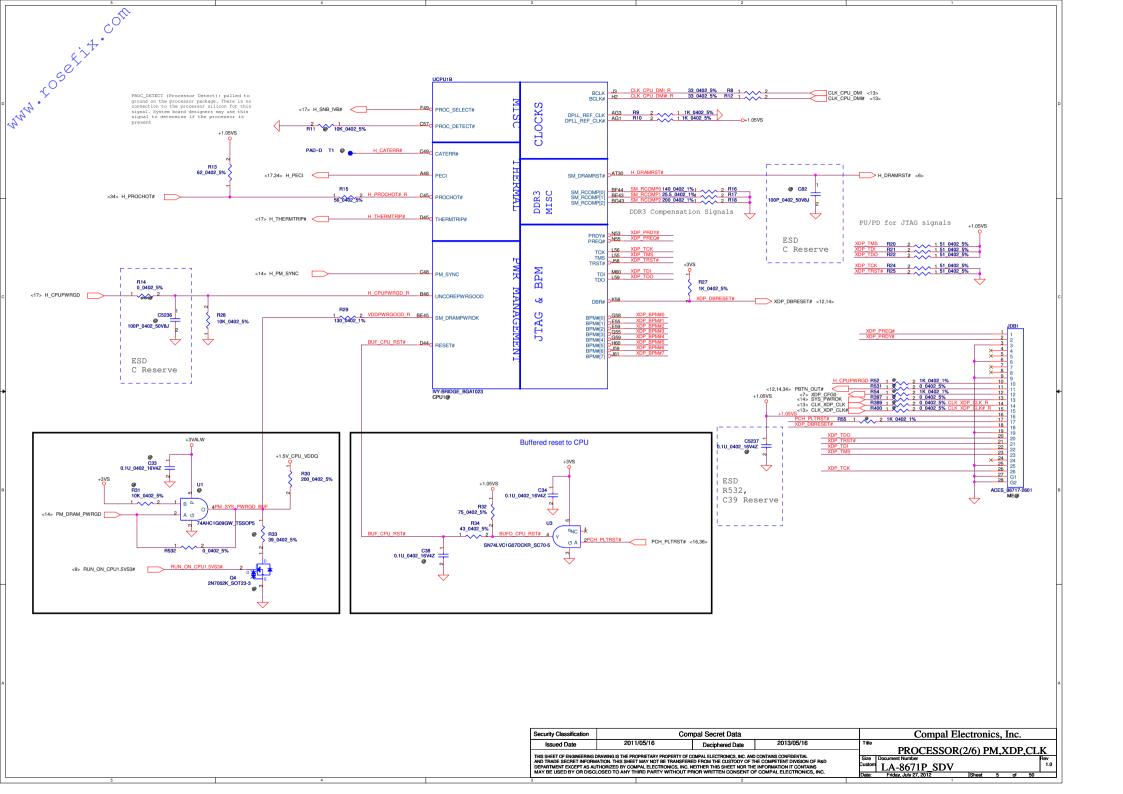
Device	Address	HEX
ALS	0100-100x b	48h
APS	0011-001xb	32h
Gyroscope	0110-101xb	6Ah
e-Compass	0011-110x b	3Ch

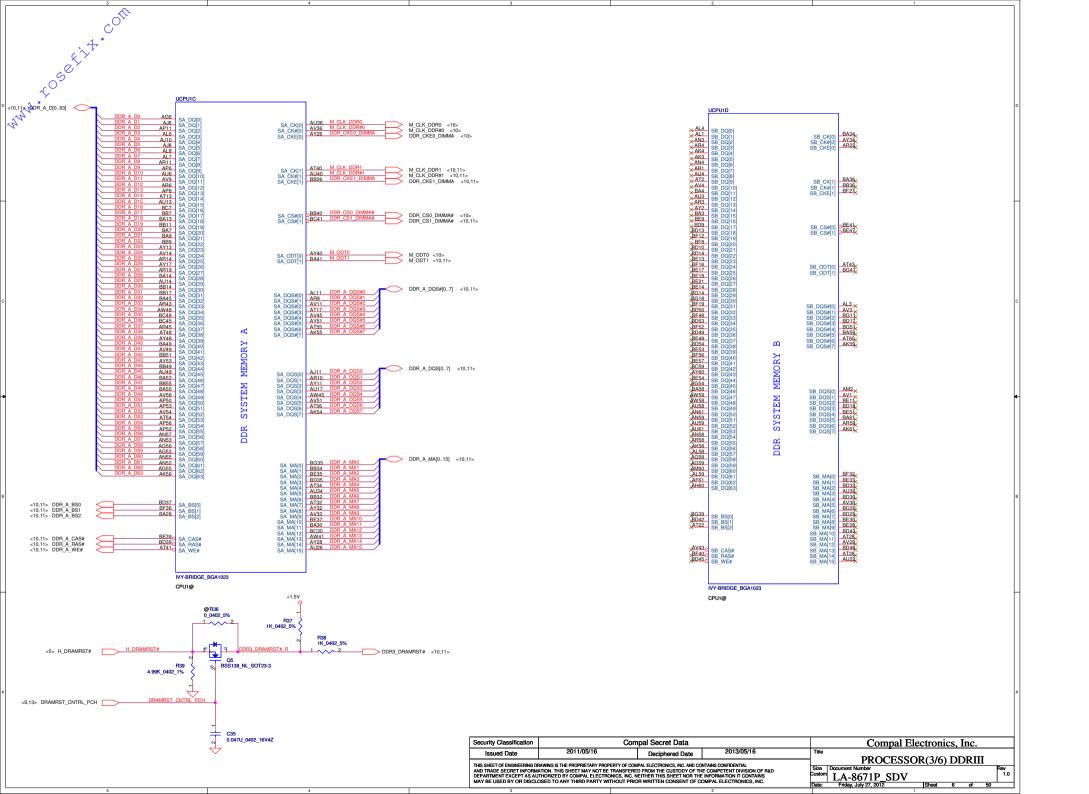
USB3.0	USB2.0	NOTE
1	0	
2	1*	USB3.0/2.0 Conn
3	2	USB3.0/2.0 Conn
4	3	
	4	Sensor Hub
	5	USB Camera
	6	X
	7	X
	8	Touch Panel
	9 *	WWAN
	10	WLAN
	11	Finger Printer**
	12	
	13	Bluetooth**

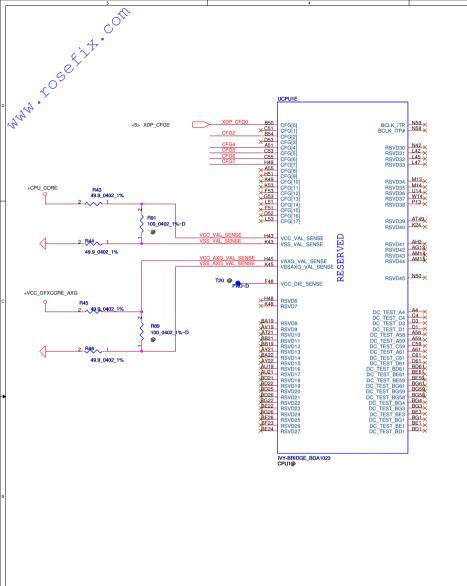
* Debug Port ** Not Use

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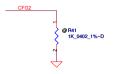








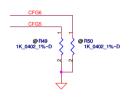
CFG Straps for Processor



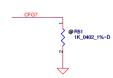
PEG Stati	.c Lane Reversal - CFG2 is for the 16x
CFG2	*1:(Default) Normal Operation; Lane # definition matches socket pin map definition 0:Lane Reversed



Display 1	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								

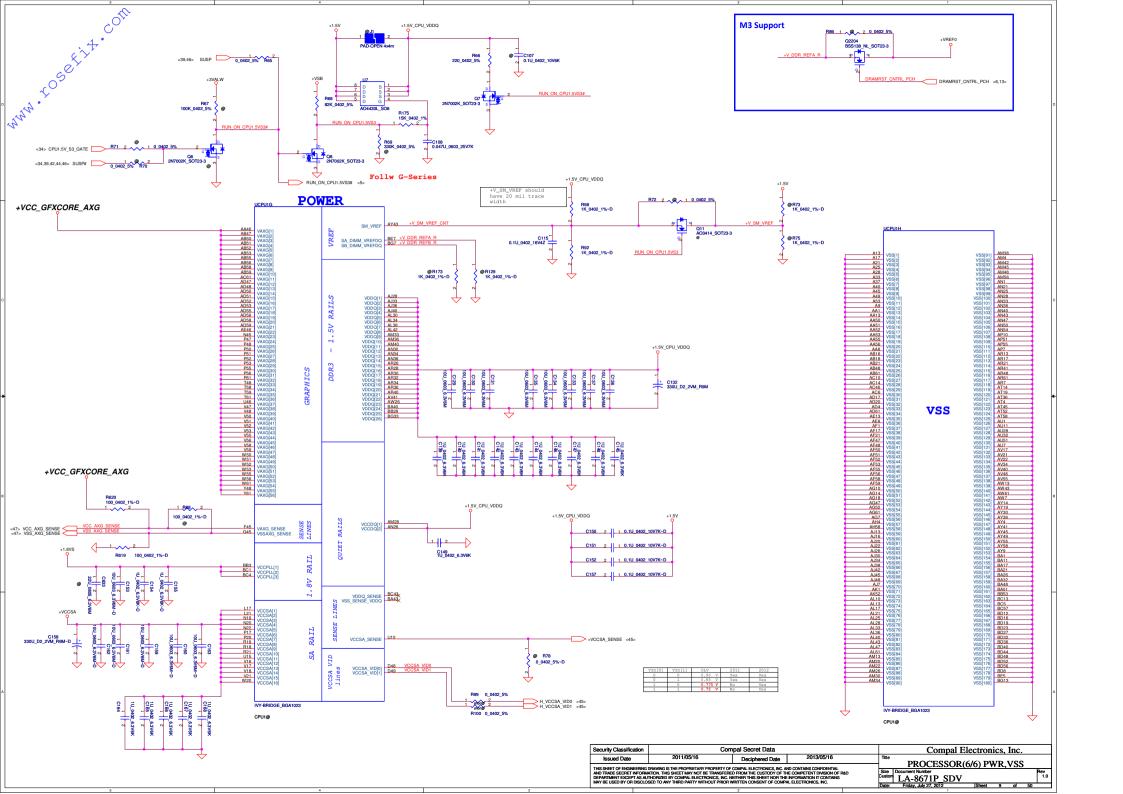


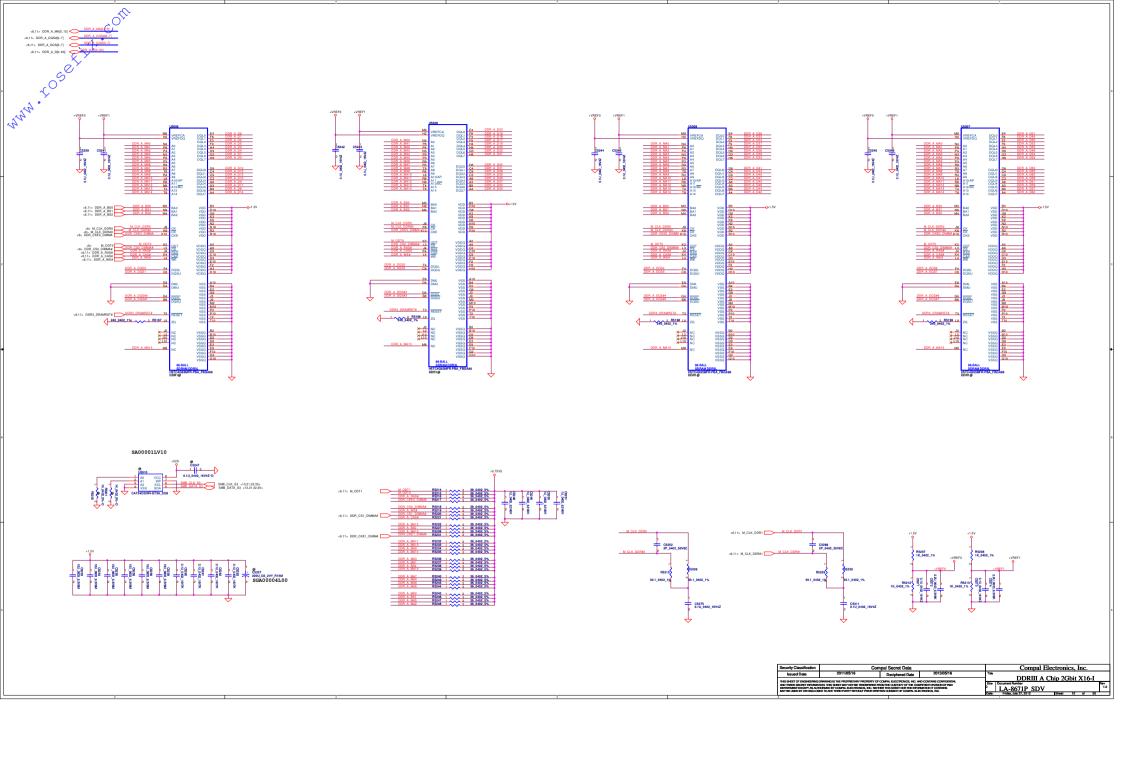
PEG DEFE	R TRAINING
CFG7	*1: (Default) PEG Train immediately following xxRESETB de assertion
	0: PEG Wait for BIOS for training

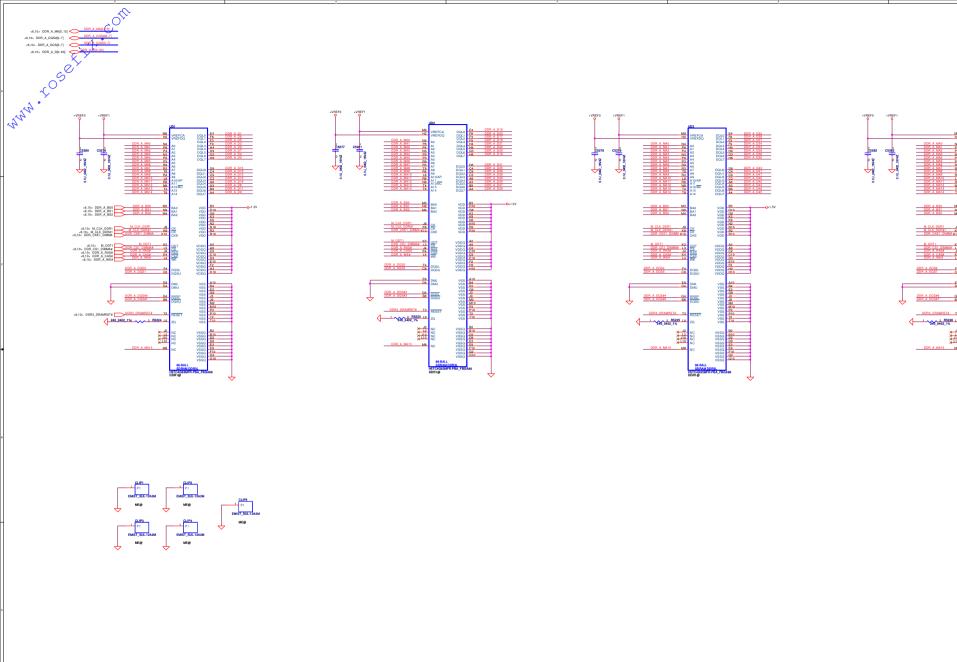
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POWER +1.05VS +CPU CORE VCC112 VCC122 VCC123 VCC124 VCC125 VCC124 VCC126 VC CPU_CORE GFX_CORE VCCP1.05 VGA_CORE All Capacitor place on Power side. DDR SUPPLYVCCIO[47] VCCIO[48] VCCIO[49] Chief river VCCIO SEL pull-H +1.05VS +3VS R5157 10K_0402_5% VCCIO_SEL BC22 H_VCCP_SEL +1.05VS QUIET RAILS 1U_0402_6.3V6K R56 Place the PU resistors 130 0402 1%~D close to CPU R58 43_0402_5% VR_SVID_ALRT# <47>
VR_SVID_CLK <47>
VR_SVID_DAT <47> +CPU_CORE Place the PU Place the 100_0402_1%-D resistors 1 R79 2 100_0402_1%~D close to CPU VCCSENSE <47> VSSSENSE <47> LINES R617 10_0402_1% SS SENSE VCCIO Place the PU 100_0402_1%~D VCCIO_SENSE <46> VSS_SENSE_VCCIO <46> resistors close to VR VSS SENSE VCCIO 1 2 R618 10_0402_1% IVY-BRIDGE_BGA1023 CPU1@ Security Classification Compal Secret Data Compal Electronics, Inc. 2011/05/16 2013/05/16 Issued Date Deciphered Date PROCESSOR(5/6) PWR,BYPASS THIS SHEET OF ENGINEERING DOWNING IS THE PROPRIETION PROPERTY OF COMPAL ELECTRONICS, INC. AND CONTAINS CONTRIBUTION AND TRADE SCIENT INFORMATION. THIS SHEET MAN FOR THE TRANSPERS FROM THE CUSTOD OF THE COMPATION OF THE D Size Document Number

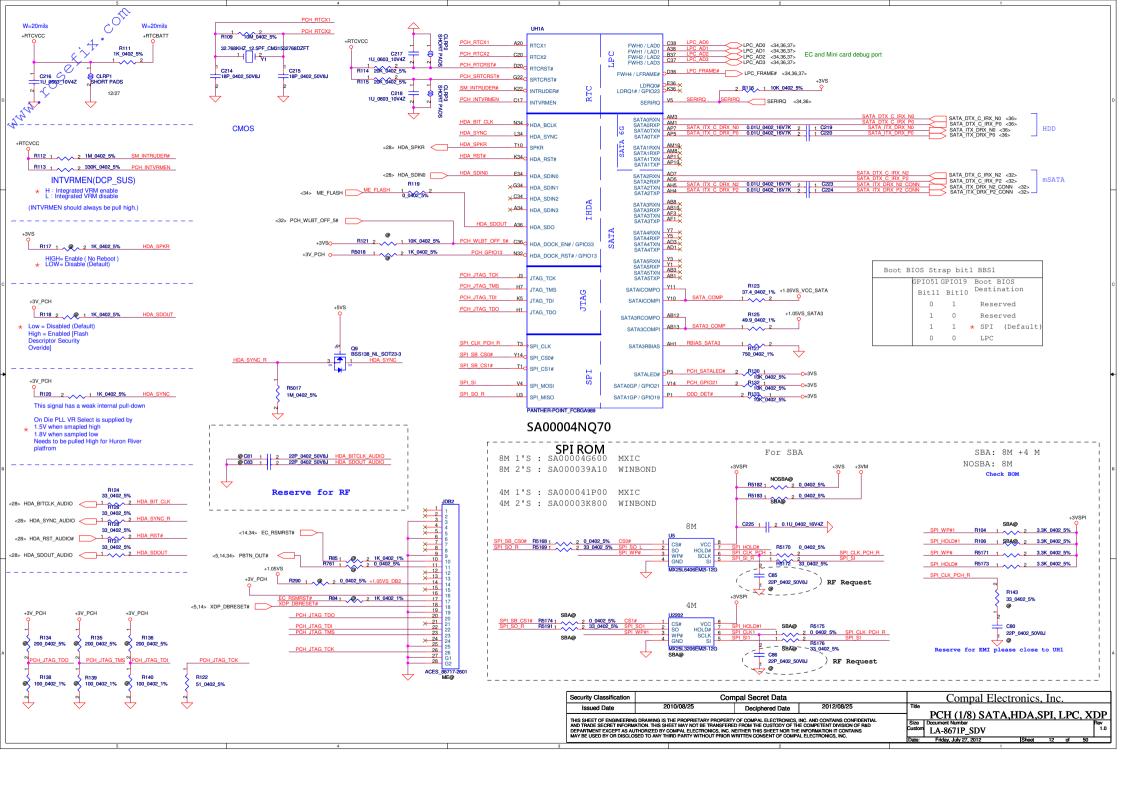
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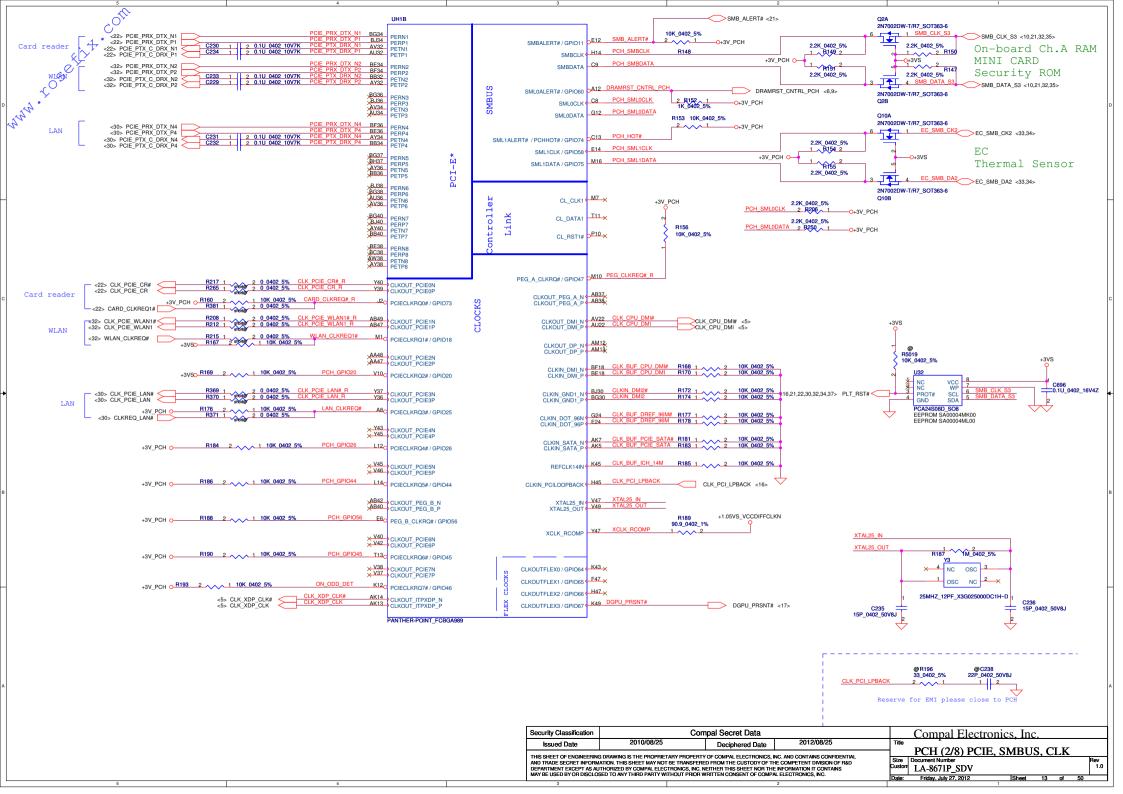


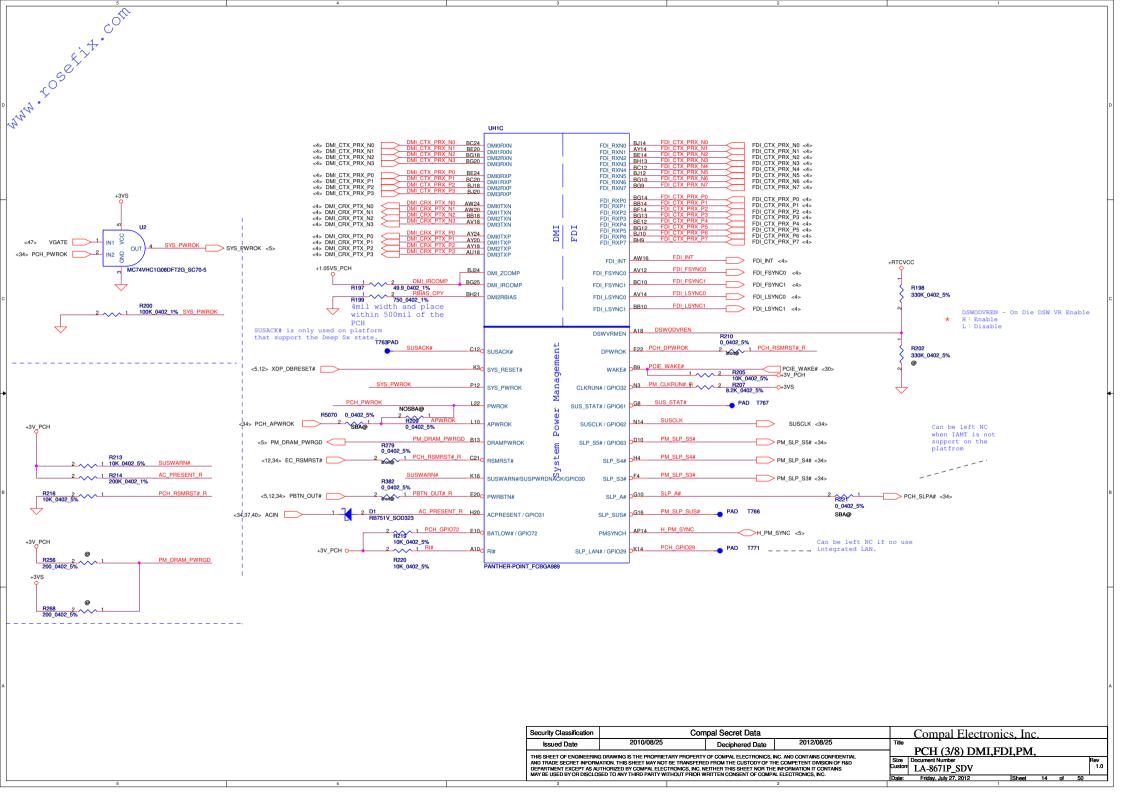


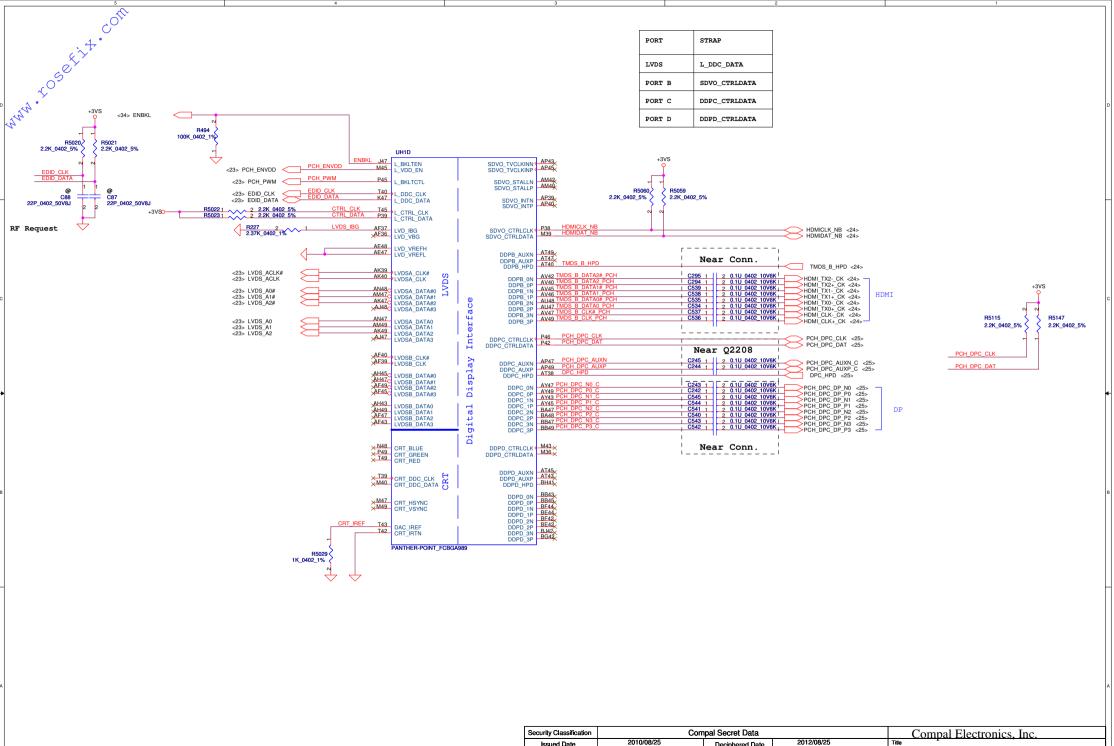


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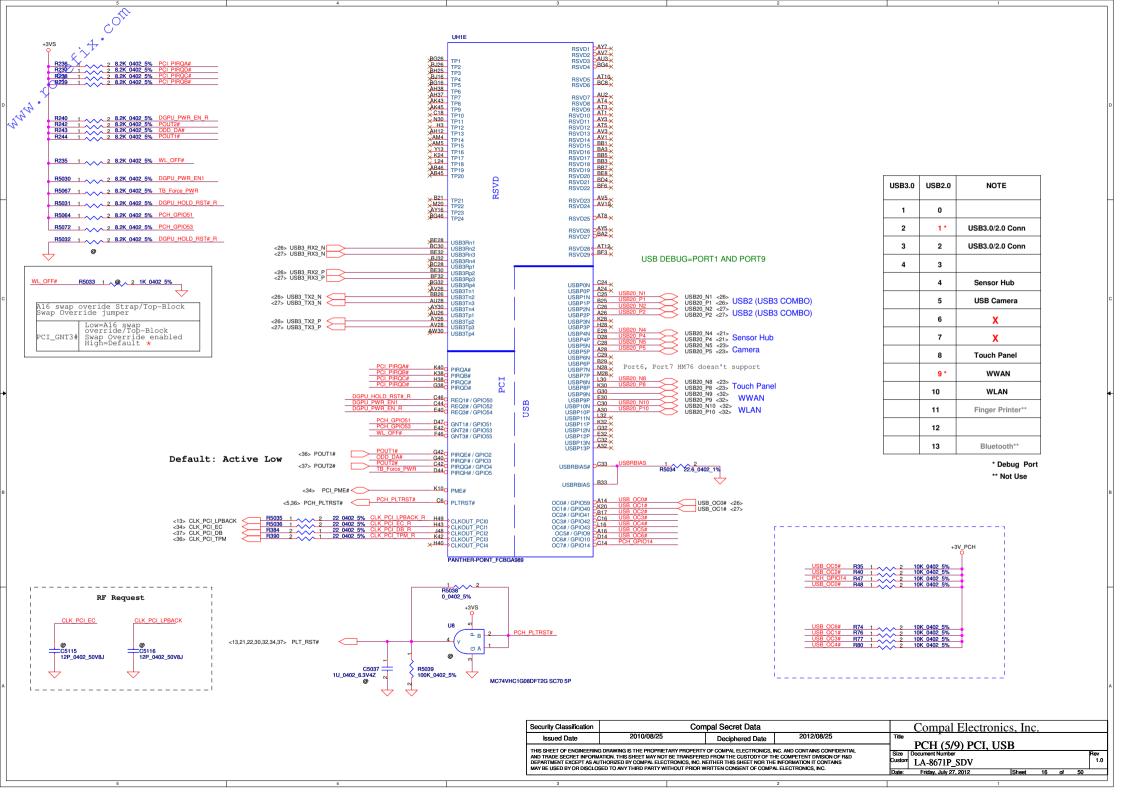


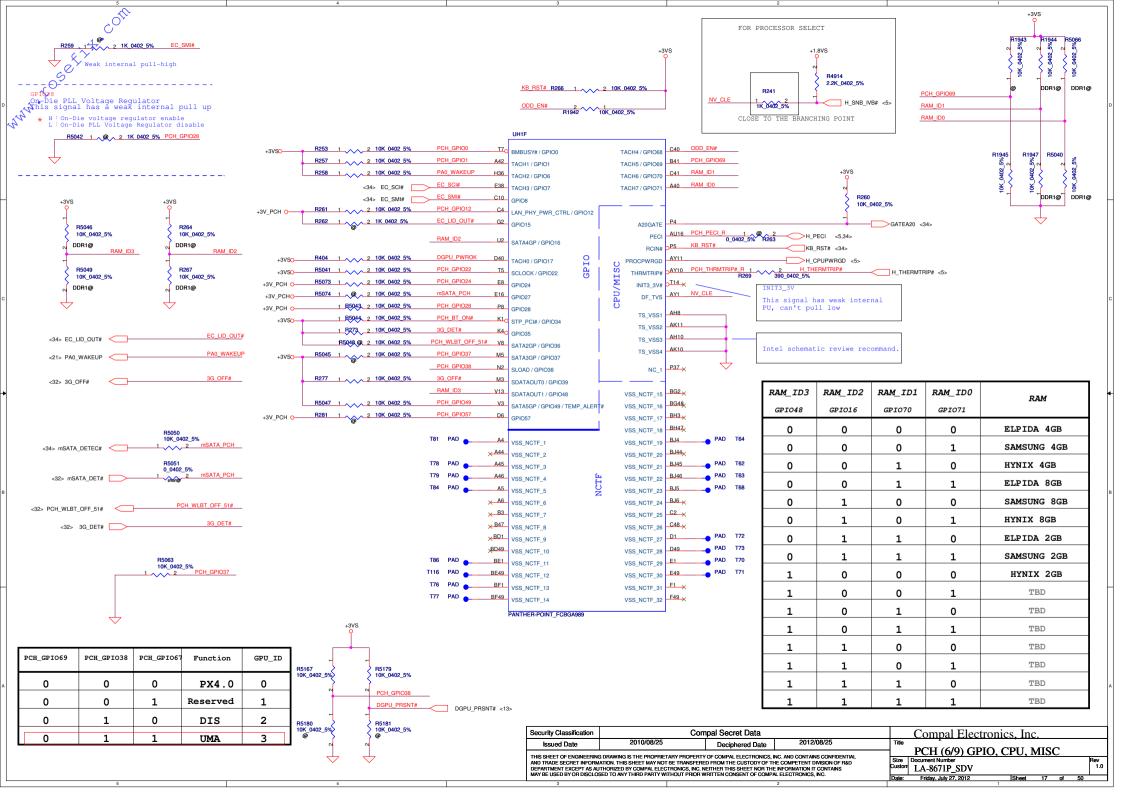


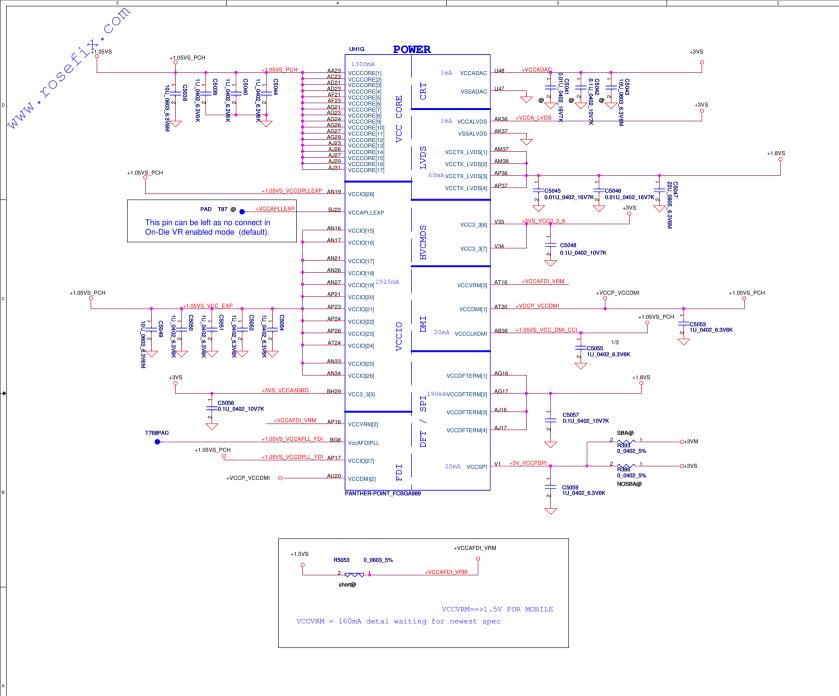




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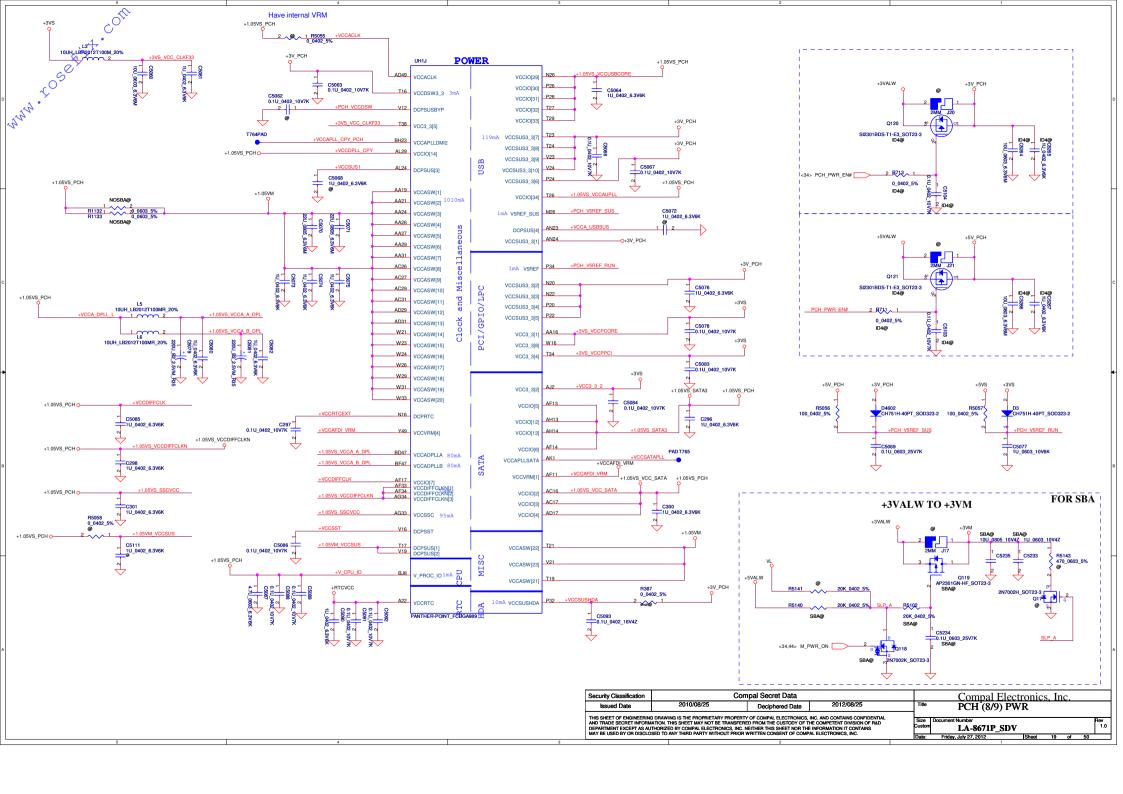




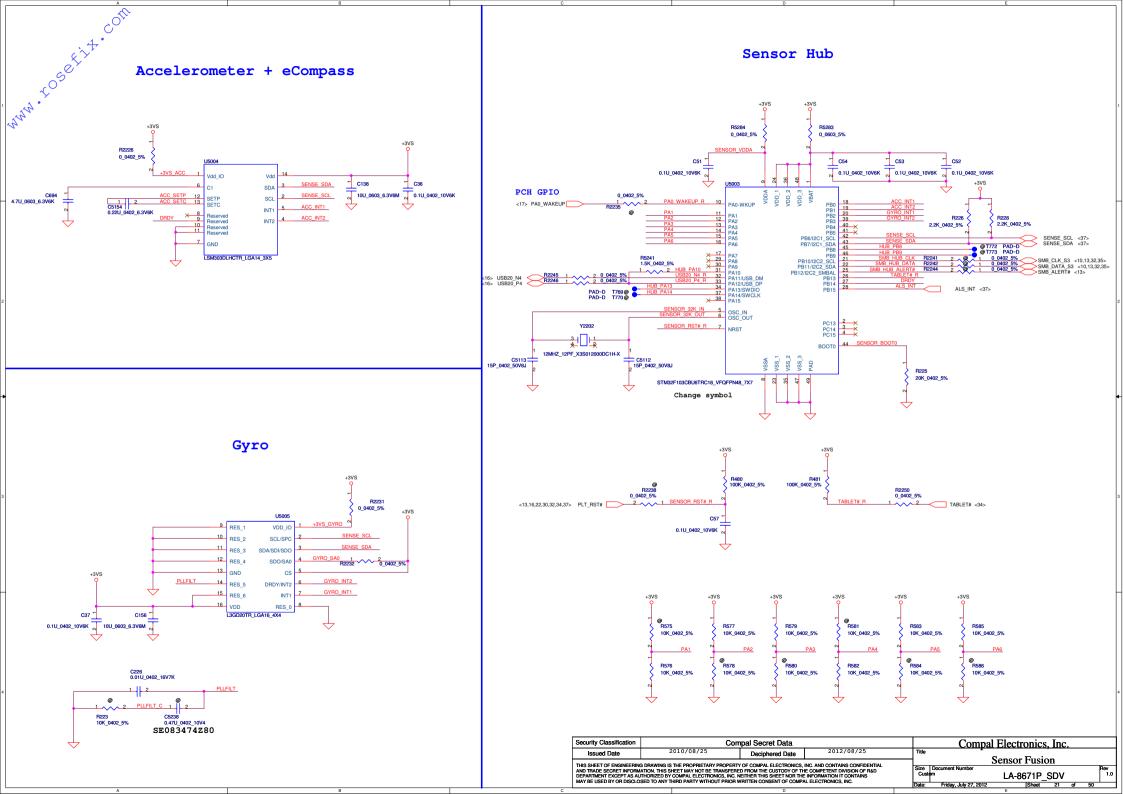


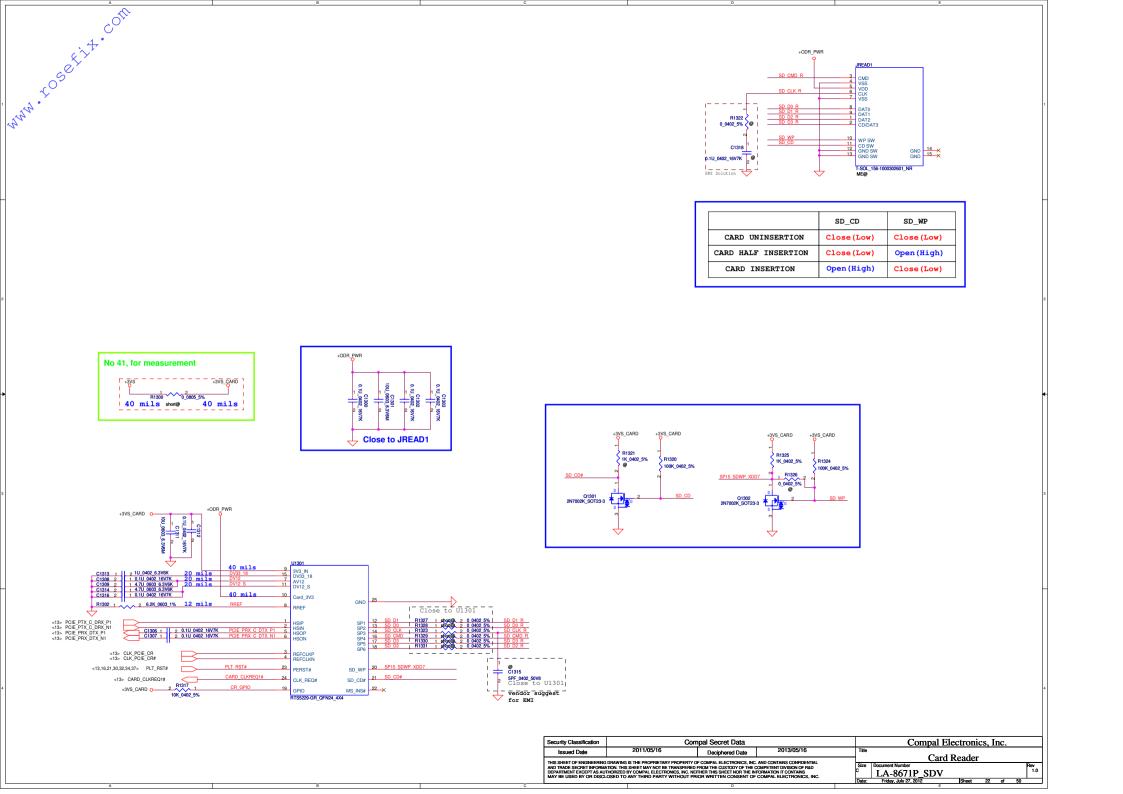
PCH P	ower Rail	
Voltage Rail	Voltage	S0 Iccmax Current (A)
V_PROC_IO	1.05	0.001
V5REF	5	0.001
V5REF_Sus	5	0.001
Vcc3_3	3.3	0.266
VccADAC	3.3	0.001
VccADPLLA	1.05	0.08
VccADPLLB	1.05	0.08
VccCore	1.05	1.3
VccDMI	1.05	0.042
VccIO	1.05	2.925
VccASW	1.05	1.01
VccSPI	3.3	0.02
VccDSW	3.3	0.003
VccpNAND	1.8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

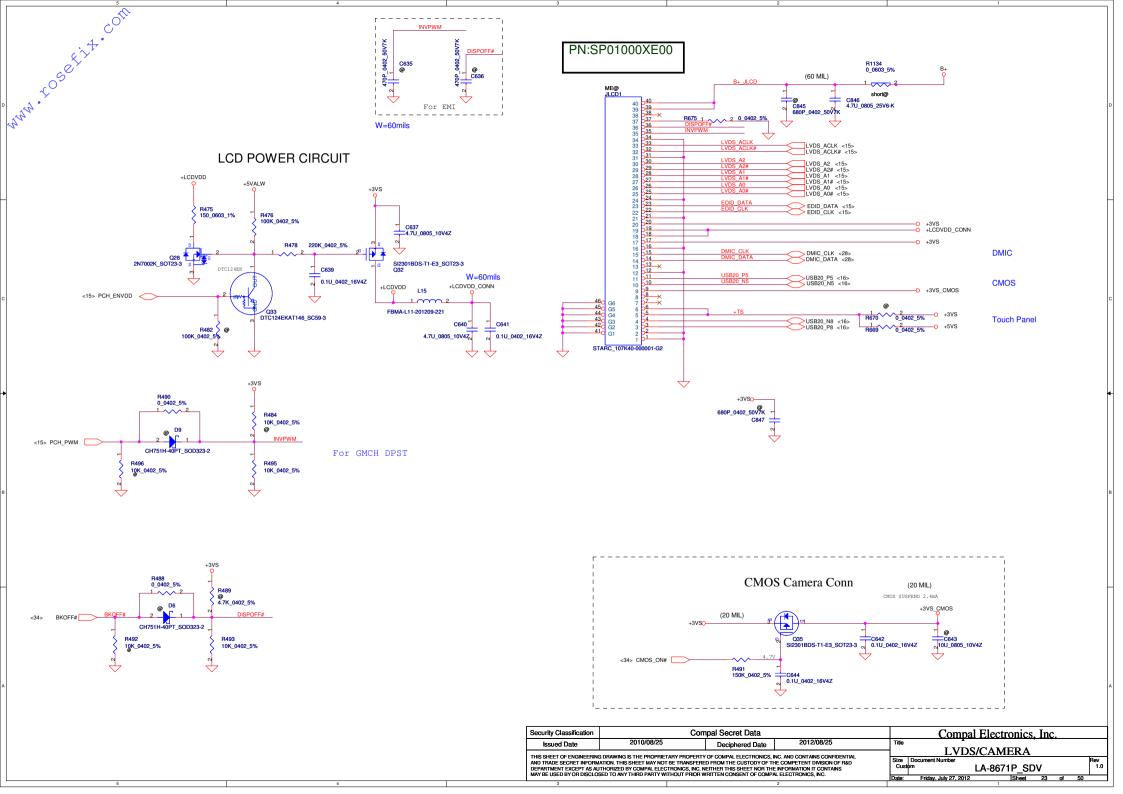
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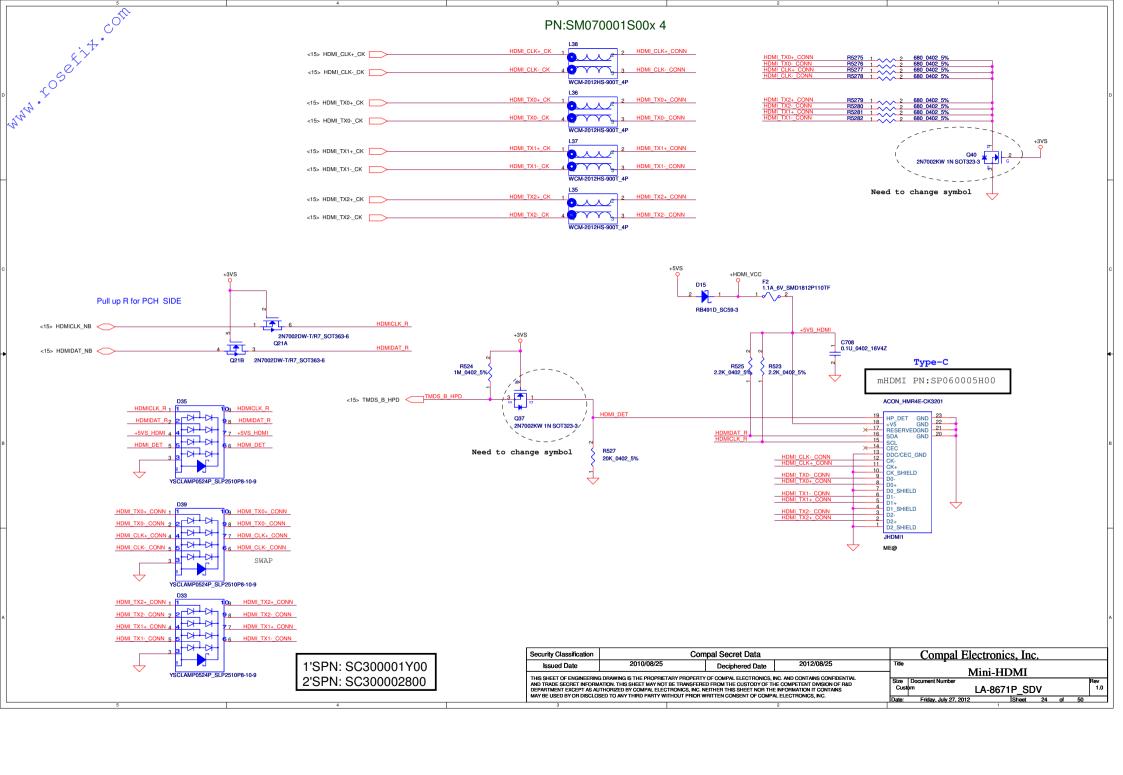


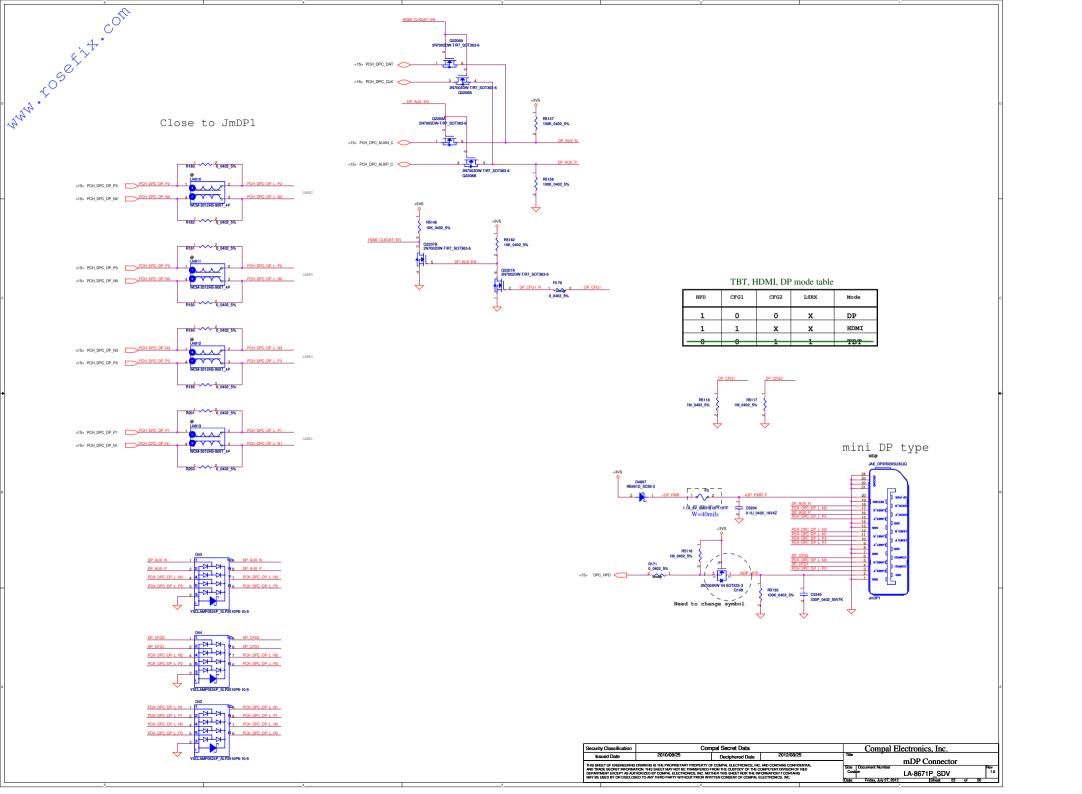
UH1I H46 K18 K26 VSS[259 VSS[260 AY42 AY46 VSS[261 VSS[262 VSS[263 VSS[264 VSS[265 VSS[267 VSS[277 VSS[272 VSS[271 VSS[274 VSS[275 VSS[275 VSS[277 VSS[277 VSS[277 VSS[277 VSS[277 VSS[277 VSS[277 VSS[277 K26 K39 K46 K7 L18 AY8 B11 UH1H B15 B19 B23 B27 B31 B35 B39 B7 F45 BB12 VSS[0] L2 L20 AK38 AK4 AK42 AK46 AK8 VSS[80] VSS[81] VSS[82] VSS[83] VSS[84] VSS[85] VSS[86] VSS[87] VSS[88] VSS[89] VSS[90] AA2 AA3 AA33 AA34 L26 L28 L36 L48 VSS[2 VSSI5 VSS[171 M12 P16 M18 M22 AB11 AB14 AL16 AL17 AL19 AL2 AL21 AL23 AL26 AL27 AL31 AL33 AL34 AL48 AM11 AM11 AB39 AB4 VSS[8] VSS[9] VSS[10 VSS[11 VSS[12 BB16 BB20 VSS[173] VSS[174] VSS[175] VSS[176] VSS[177] VSS[178] AB43 AB5 AB7 BB22 BB24 M24 M30 M32 BB28 M32 M34 M38 M4 M42 M46 M8 N18 AC19 AC2 AC21 AC24 VSS[12 VSS[14 VSS[14 VSS[15 VSS[16 VSS[17 VSS[18 VSS[91 VSS[92 VSS[93 VSS[94 VSS[95 VSS[96 VSS[97 VSS[98 VSS[100 VSS[101 BB30 BB38 VSS[178] VSS[179] VSS[180] VSS[181] VSS[182] VSS[183] VSS[184] VSS[185] VSS[186] VSS[187] VSS[188] VSS[278 VSS[279 VSS[280 VSS[281 VSS[282 VSS[283 VSS[284 VSS[285 VSS[286 VSS[287 VSS[287 BB4 BB46 AC33 AC34 AC48 BC14 BC18 BC2 P30 N47 P11 P18 T33 P40 P43 BC22 BC26 BC32 BC34 AD10 AD11 AD12 AM36 AM39 AM43 vssi22 AD13 AD19 AD24 AD26 VSS[101] VSS[102] VSS[103] VSS[104] VSS[105] VSS[106] VSS[107] VSS[108] VSS[109] VSS[110] VSS[111] VSS[188] VSS[190] VSS[191] VSS[192] VSS[193] VSS[194] VSS[195] VSS[196] VSS[197] VSS[198] VSS[288] VSS[289] VSS[291] VSS[292] VSS[293] VSS[294] VSS[295] VSS[296] VSS[297] VSS[298] AM45 AM46 AM7 AN2 AN31 AP19 AP28 AP30 AP30 AP32 AP38 AP4 AP42 AP46 AP8 AR8 AR8 AR8 AR11 AT13 AT13 AT13 AT22 AT26 AT28 VSS[23 VSS[24 VSS[25 BC36 BC40 BC42 BC48 VSS[26 AD27 P47 P7 R2 VSS[27 VSS[28 VSS[29 AD33 AD34 BD46 BD5 R48 T12 T31 T37 AD36 AD37 AD38 AD39 BF22 VSS[30 VSS[31 VSS[32 BE26 BE40 BF10 VSS[111 VSS[112 VSS[113 VSS[115 VSS[116 VSS[117 VSS[118 VSS[119 VSS[120 VSS[121 VSS[33 VSS[34 VSS[35 VSS[36 AD39 AD40 AD42 AD43 /SS[199] /SS[200] /SS[201] VSS[299] VSS[301] VSS[301] VSS[302] VSS[303] VSS[306] VSS[306] VSS[307] VSS[310] VSS[311] VSS[311] VSS[315] VSS[315] VSS[315] VSS[315] VSS[316] VSS[317] VSS[317] VSS[318] VSS[318] VSS[318] T4 W34 T46 T47 BF12 BF16 BF20 BF22 SSI202 VSS[37 VSS[38 VSS[39 VSS[40 VSS[203] VSS[204] VSS[205] AD45 AD46 AD8 BF24 BF26 V11 V17 V26 V27 V29 V31 V36 V39 V43 BF28 BD3 BF30 BF38 VSS[206] VSS[207] VSS[208] AE2 AE3 AF10 VSS[41 VSS[42 VSS[43 VSS[44 VSS[122 VSS[123 AF12 AD14 AD16 AF16 BF40 BF8 BG17 VSS[123] VSS[124] VSS[125] VSS[126] VSS[127] VSS[128] VSS[129] VSS[46 /SSİ212 BG21 AT28 AT30 AT32 AT34 AT39 AT42 AT46 AT7 AU24 AU30 AV16 VSS[4] /SS[213 AF19 AF24 V7 W17 AF26 BG8 W19 /SSI216 AF27 AF29 AF31 AF38 BH11 BH15 BH17 BH19 W2 W27 W48 Y12 Y38 VSS[130] VSS[131] VSS[132 VSS[133 VSS[219] VSS[220] AF4 AF42 AF46 H10 BH27 BH31 VSS[55 VSS[56 VSS[57 VSS[134 VSS[135 VSS[136 VSS[321 VSS[322 VSS[323 VSS[324 VSS[325 VSS[329 VSS[331 VSS[331 VSS[334 VSS[334 VSS[344 VSS[344 VSS[346 VSS[36 Y4 Y42 AV16 AV20 AV24 AV30 AV38 AV4 AV43 AV8 AW14 AW18 AW22 vssi223 AF5 AF7 AF8 Y46 Y8 BG29 VSS[136] VSS[137] VSS[138] VSS[139] VSS[140] VSS[141] VSS[142] VSS[143] VSS[144] VSS[58 VSS[59 BH39 BH39 BH43 BH7 D3 D12 D16 D18 VSS[60 VSS[61 AG19 N24 AJ3 AD47 B43 BE10 BG41 G14 AG2 AG31 AG48 VSSI64 /SSI2301 AH11 AH3 AH36 VSSIG SSI231 VSS[144] VSS[145] VSS[146] VSS[147] VSS[148] VSS[149] iS[145] AW2
SS[146] AW2
SS[147] AW22
SS[147] AW26
SS[148] AW26
SS[149] AW26
SS[151] AW26
VSS[151] AW34
VSS[153] AW40
VSS[153] AW40
VSS[154] AW48
VSS[155] AY12
VSS[158] AY22
VSS[158] AH39 AH40 AH42 D24 D26 D30 D32 D34 D38 D42 D8 E18 E26 G18 G20 G26 G28 G36 G48 H12 H16 T36 VSS[68 BG22 BG24 AH46 AH7 AJ19 AJ21 AJ24 AJ33 AJ34 C22 AP13 M14 AP3 AP1 BE16 BC16 BG28 BJ28 /SSI241 VSS[76 VSS[77 VSS[78 VSS[348] VSS[349] AK12 VSS[350] VSSI244 VSSI79 VSS[351 VSS[352 VSS[246] VSS[247] PANTHER-POINT_FCBGA989 VSS1248 VSS[251 H22 H24 H26 H30 H32 H34 F3 PANTHER-POINT_FCBGA989 Security Classification Compal Secret Data Compal Electronics, Inc. 2010/08/25 2012/08/25 Issued Date Deciphered Date PCH (9/9) VSS Document Number THIS SHEET OF ENGINEERING DRAWING IS THE PROPRIETARY PROPERTY OF COMPAL ELECTRONICS, N.C. 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, N.C. NEITHER THIS SHEET NORT THE PROPRIATION IC CONTAINS MAY BE USED BY OR DISCLOSED TO ANY THIRD PARTY WITHOUT PRIOR WRITTEN CONSENT OF COMPAL ELECTRONICS, N.C. Rev 1.0 LA-8671P_SDV Friday, July 27, 2012 Sheet 20 of

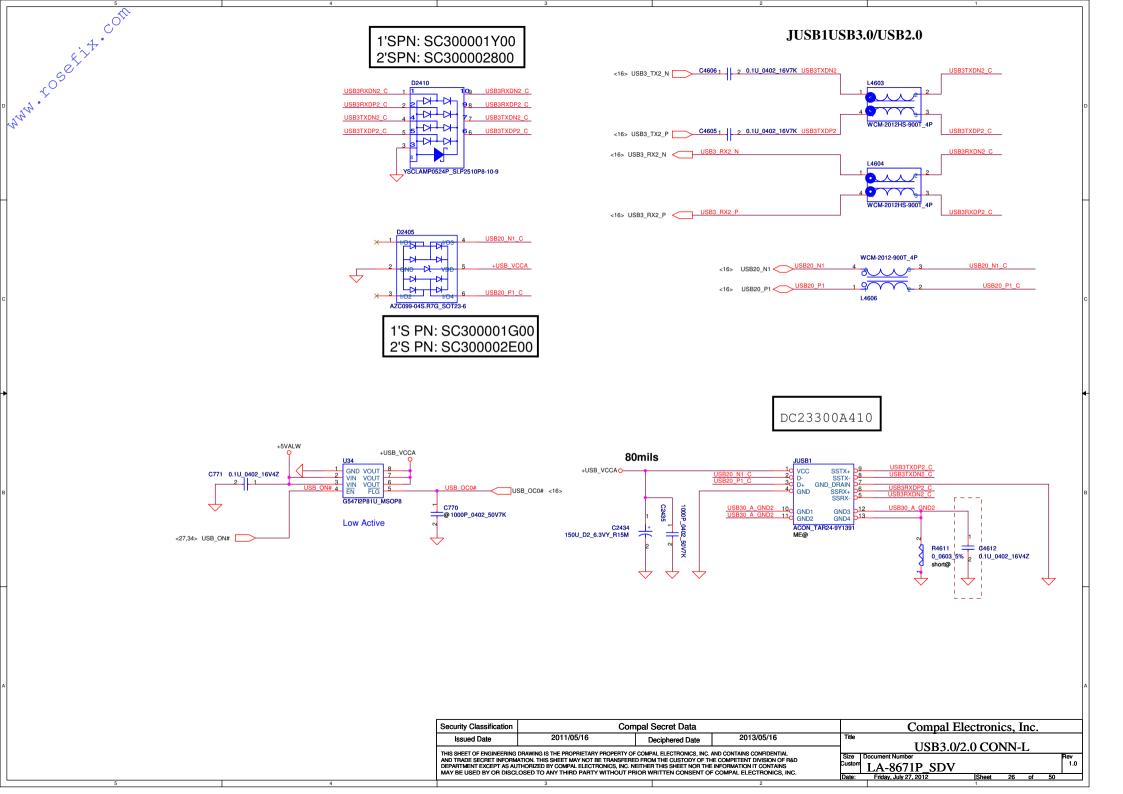


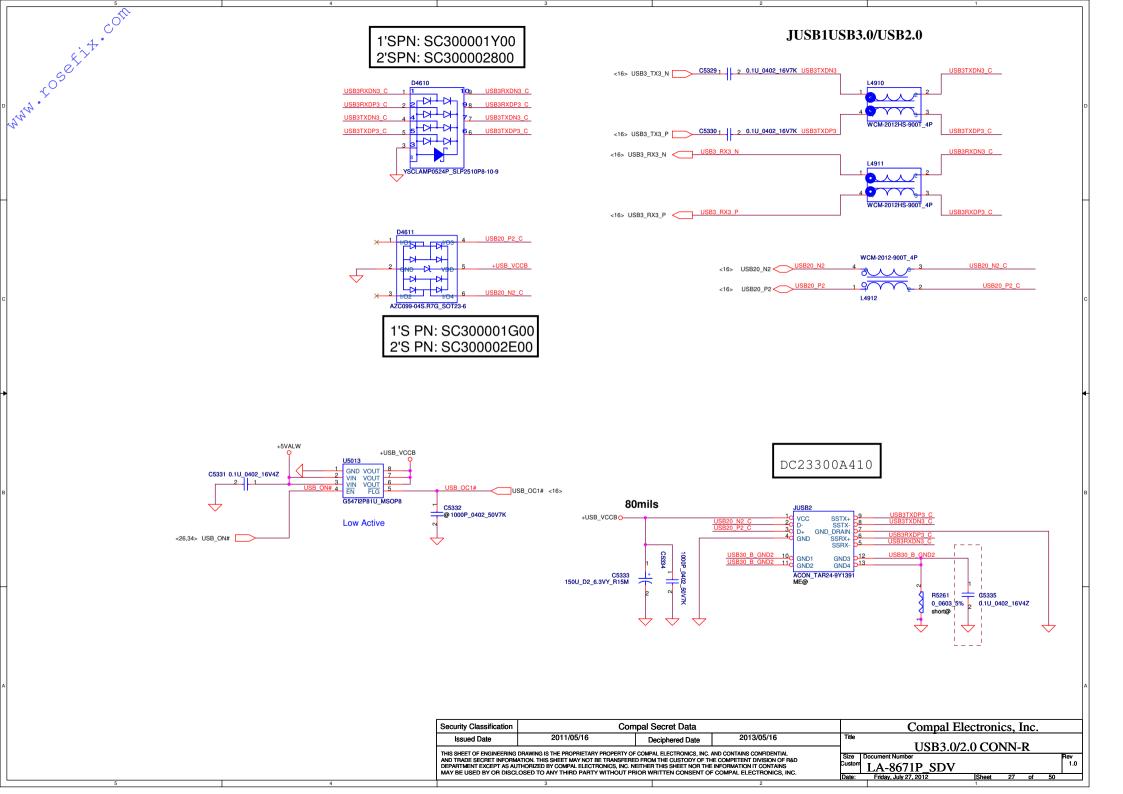


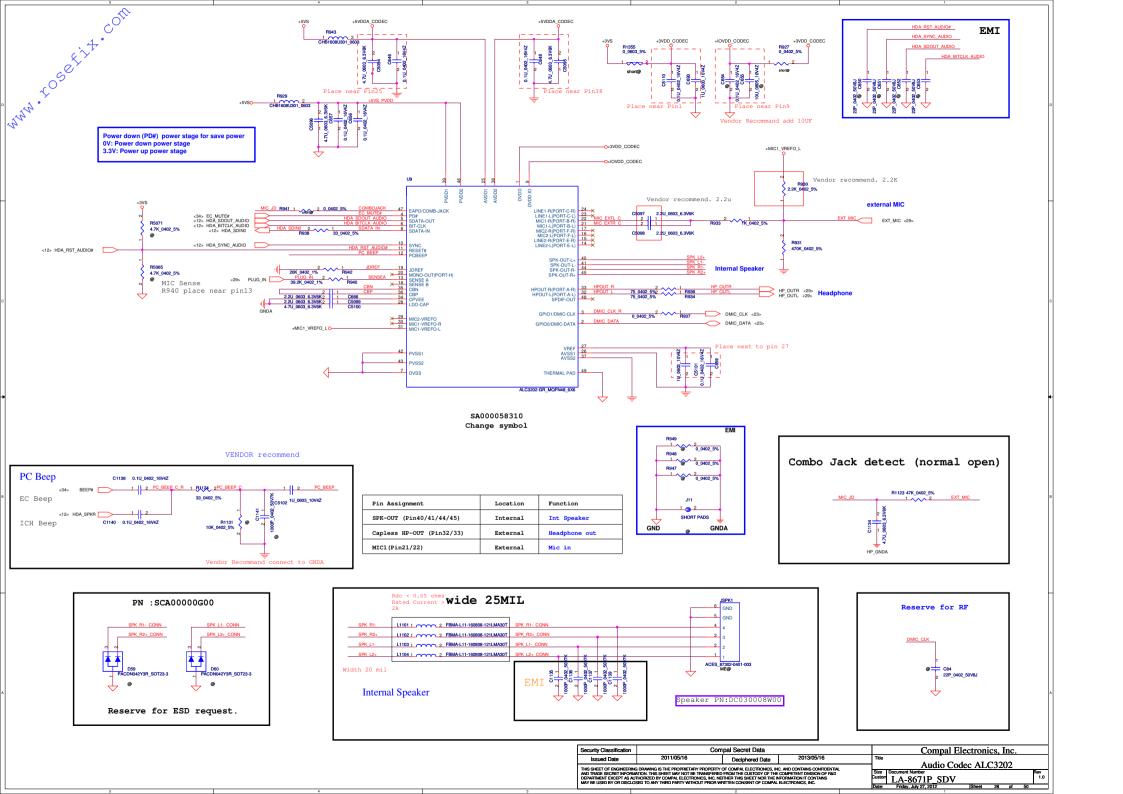




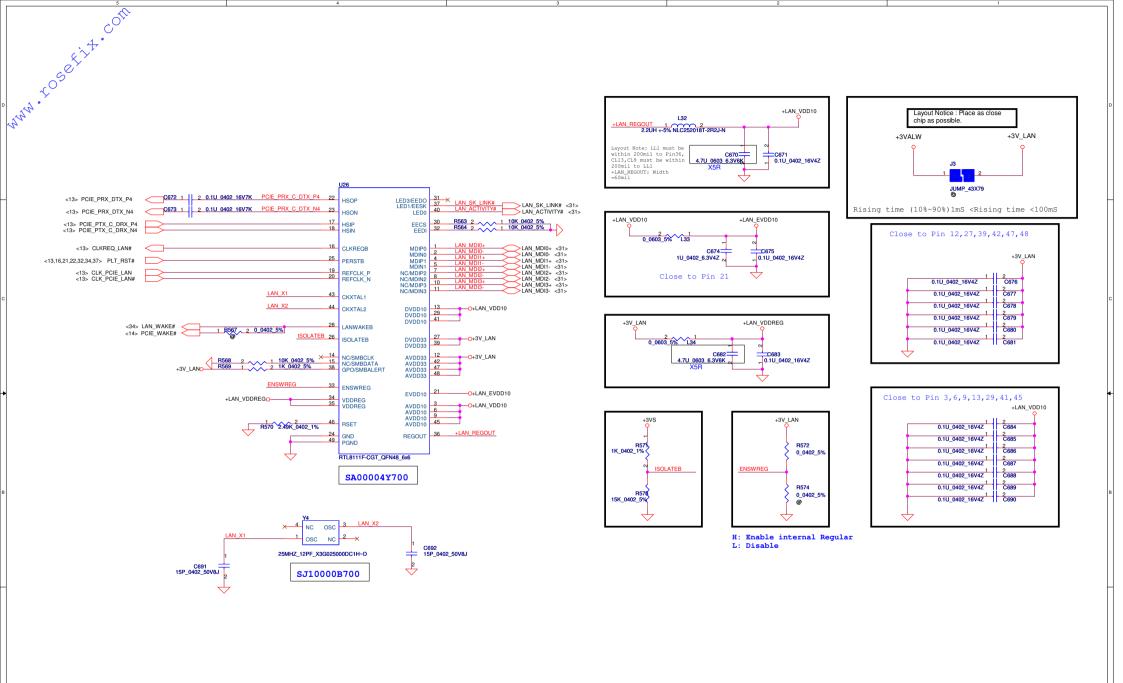




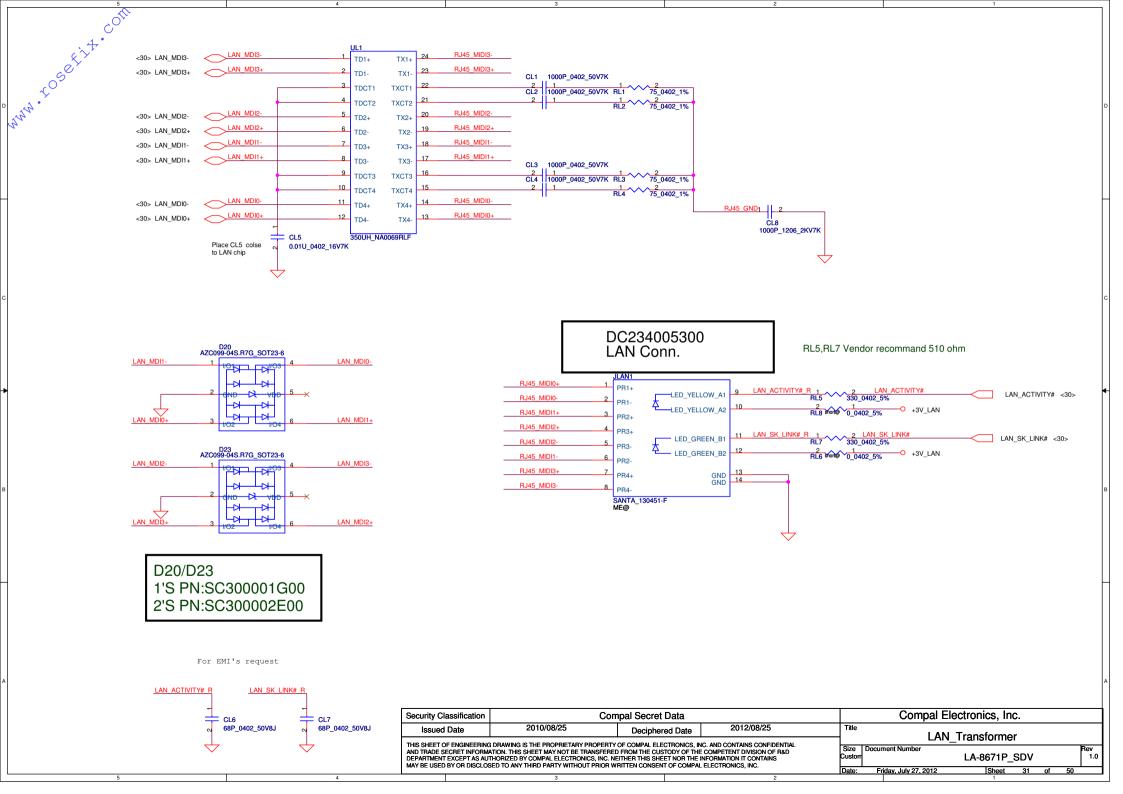


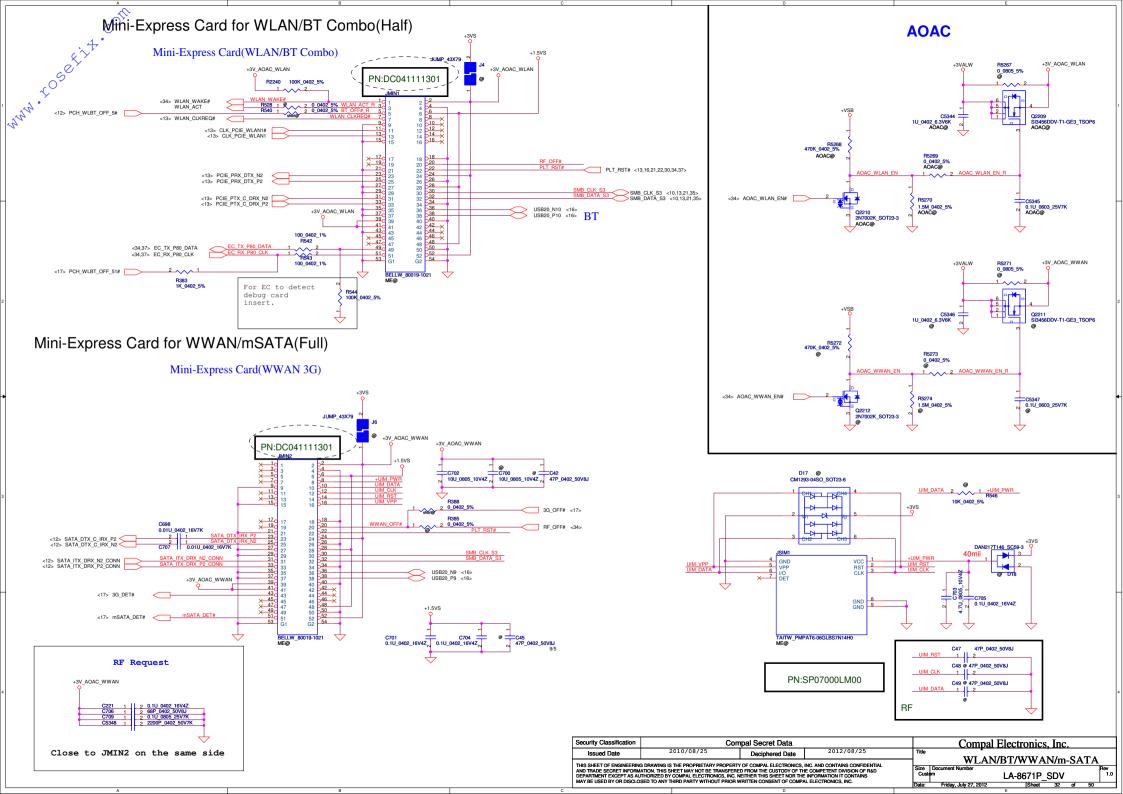


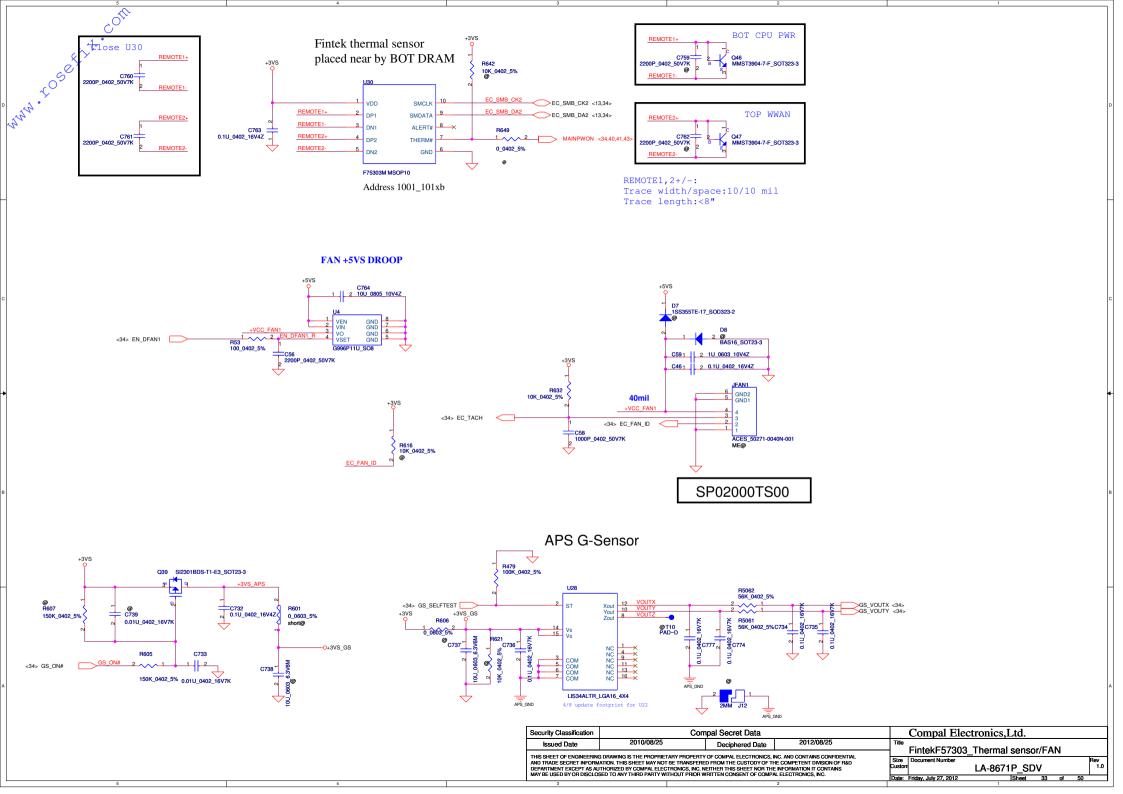
PN:DC230008E00 Choose normal-open type! 20 mils <28> EXT_MIC 7:MIC 5:GND 4:L 3:normal close 20 mils <28> HP_OUTL ____ 20 mils S <28> PLUG_IN SINGA_2SJ3005-007211 ME@ HP GNDA HP GNDA HP_GNDA HP_GNDA C356 1 2 0.1U 0402 16V7K D302 AZ5125-02S.R7G_SOT23-3 C358 1 2 0.1U 0402 16V7K SHORT PADS PN: SCA00001I00 **GND** D303 L30ESDL5V0C3-2 C/A SOT23 PN: SCA00001L00 Security Classification Compal Secret Data Compal Electronics, Inc. Deciphered Date Combo Jack LA-8671P_SDV
Friday, July 27, 2012

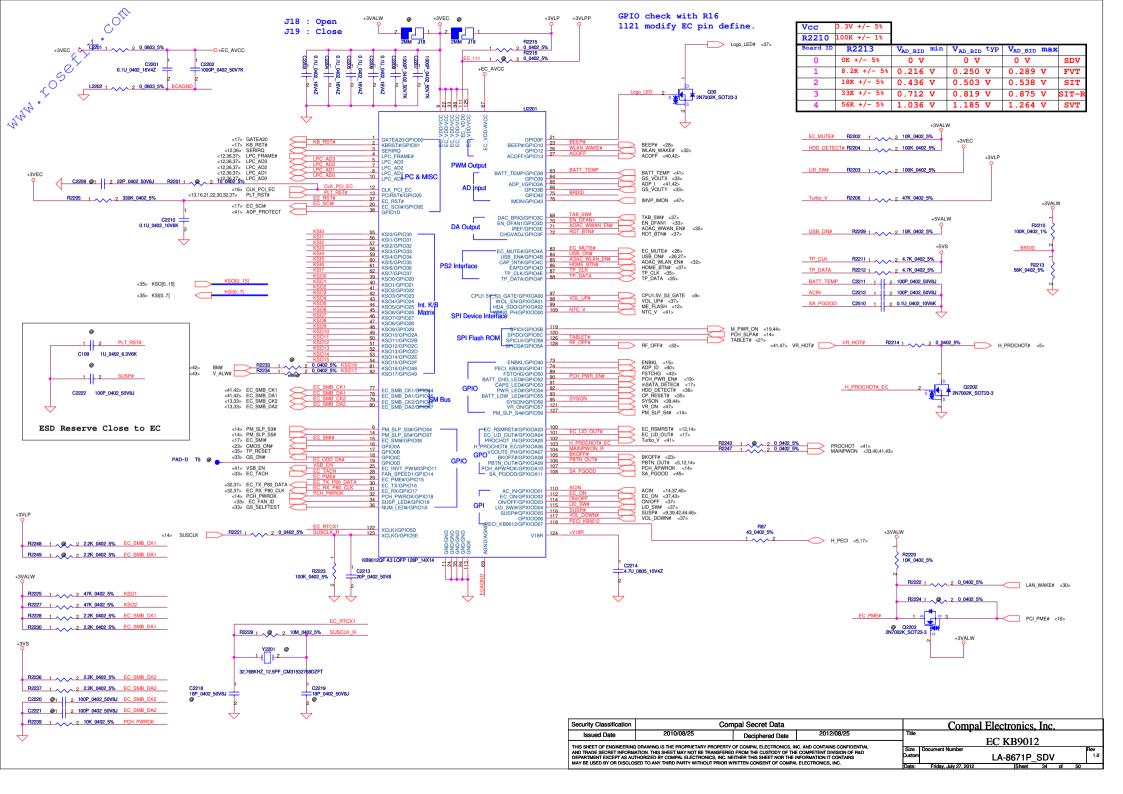


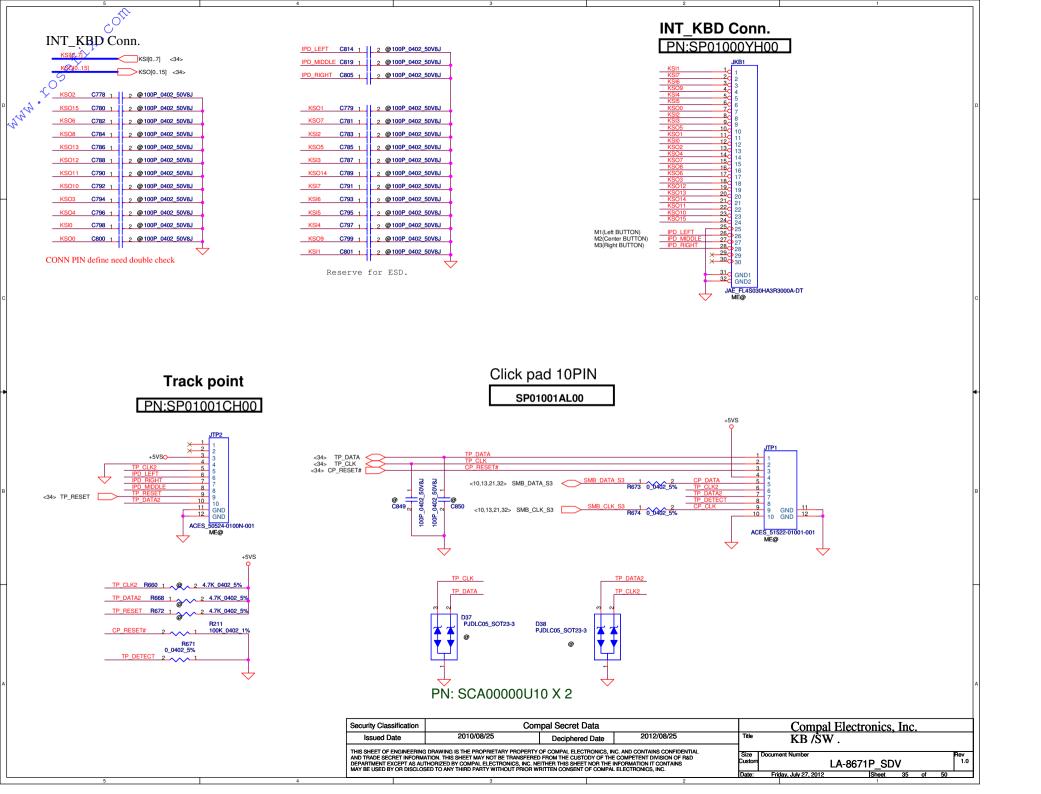
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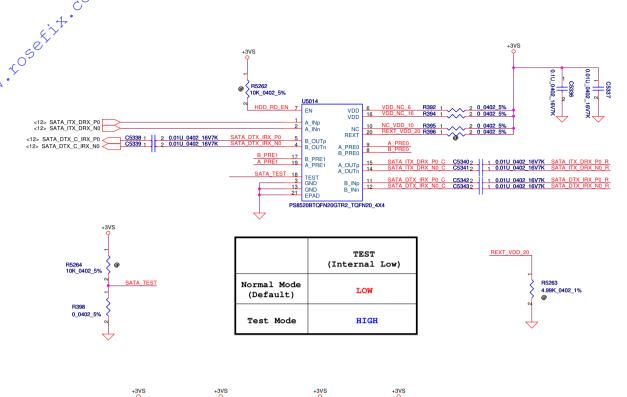


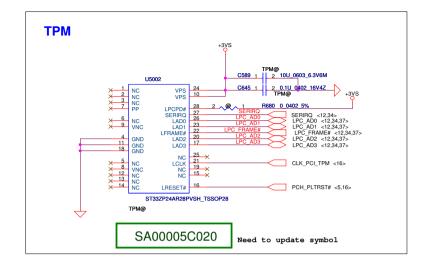






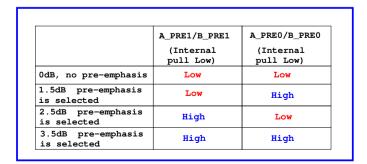


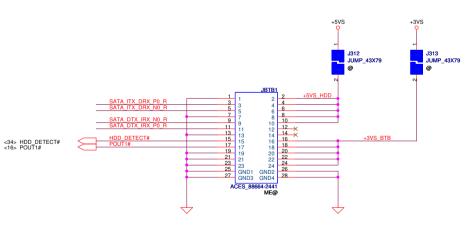






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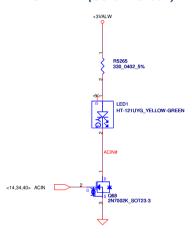


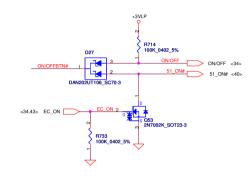


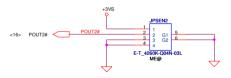
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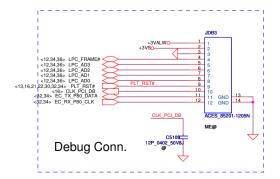
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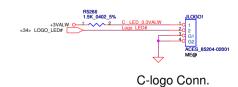
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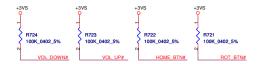




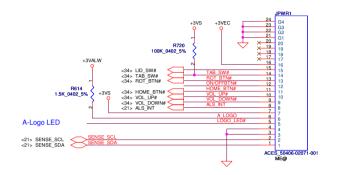


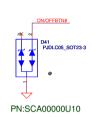




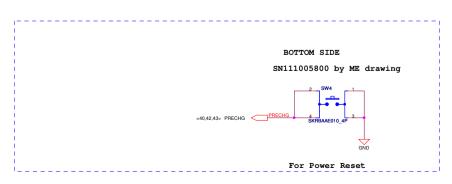


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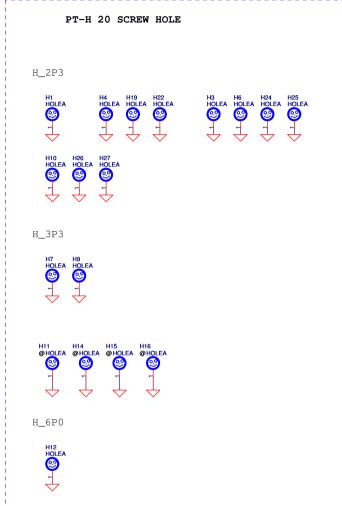


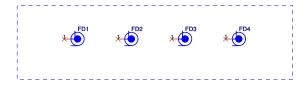
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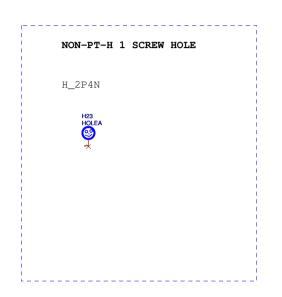


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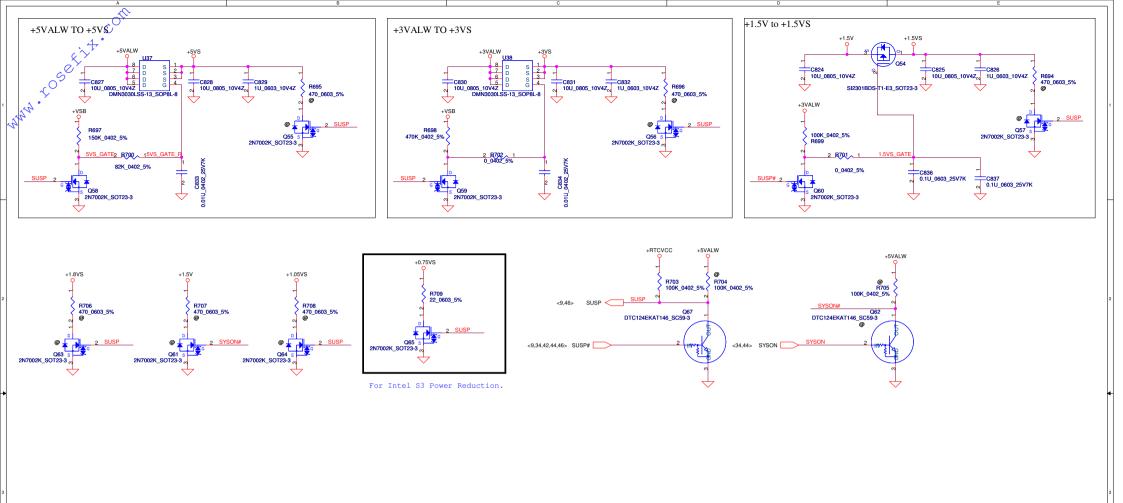
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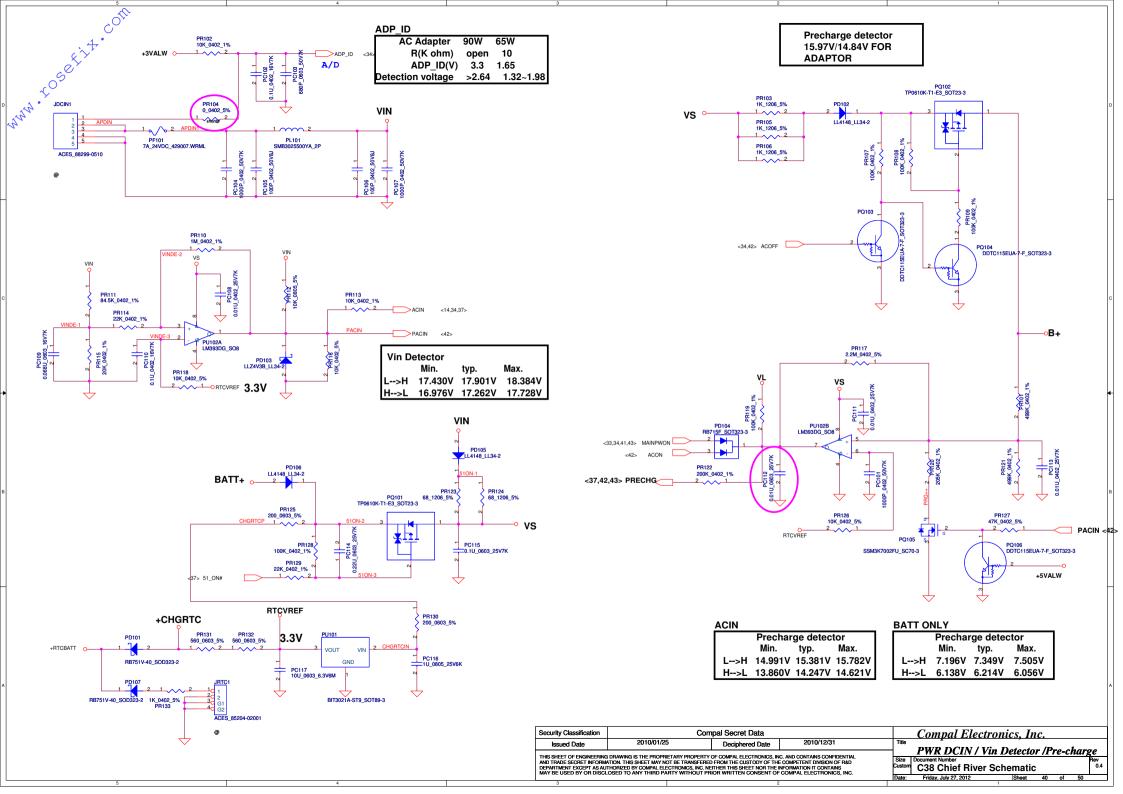


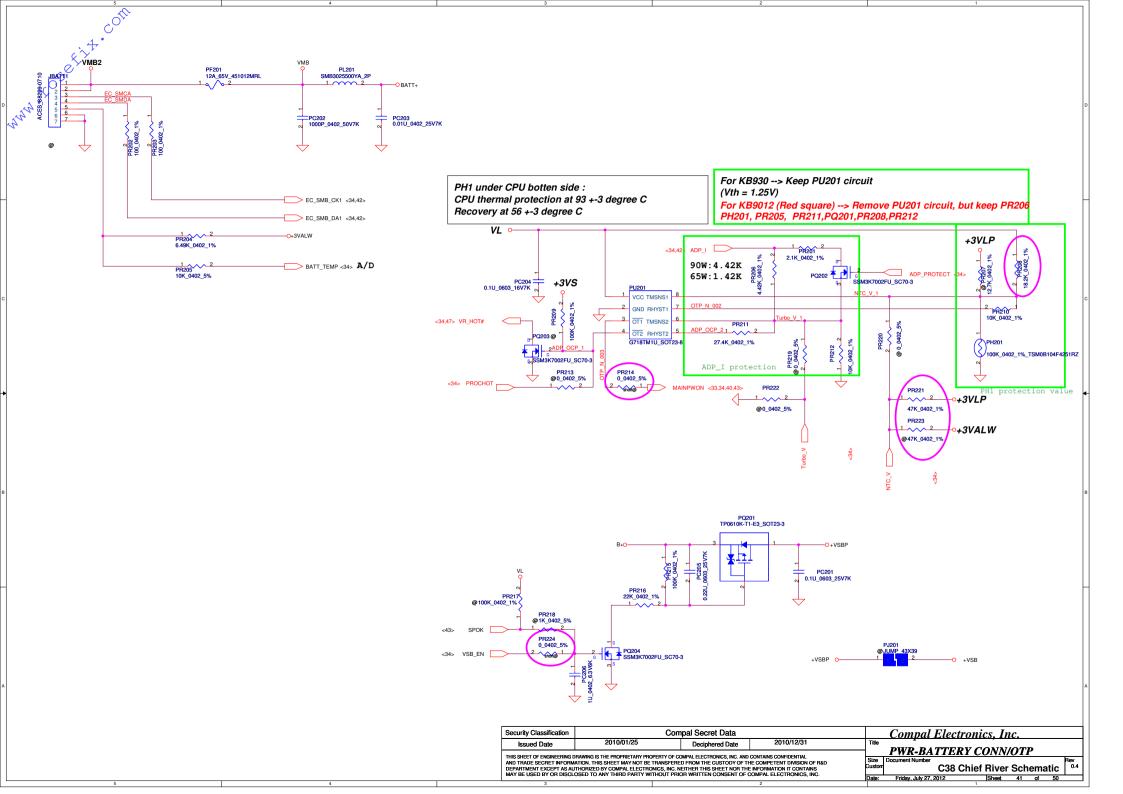


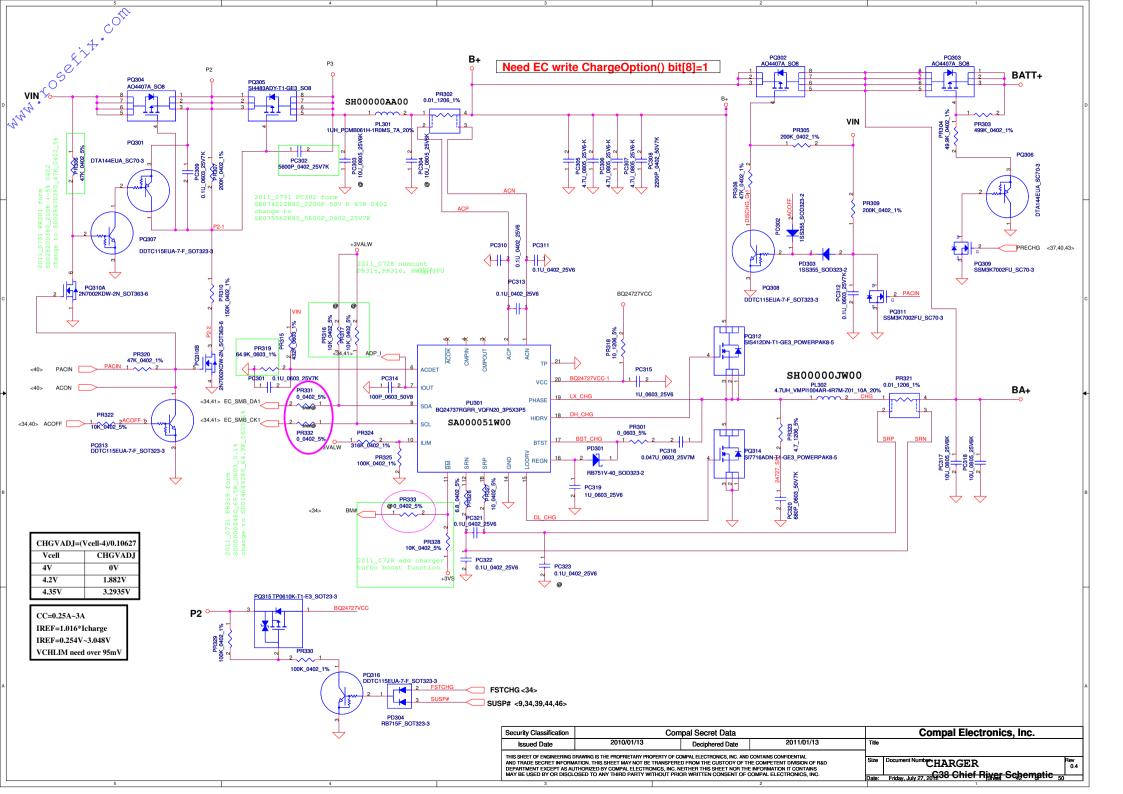
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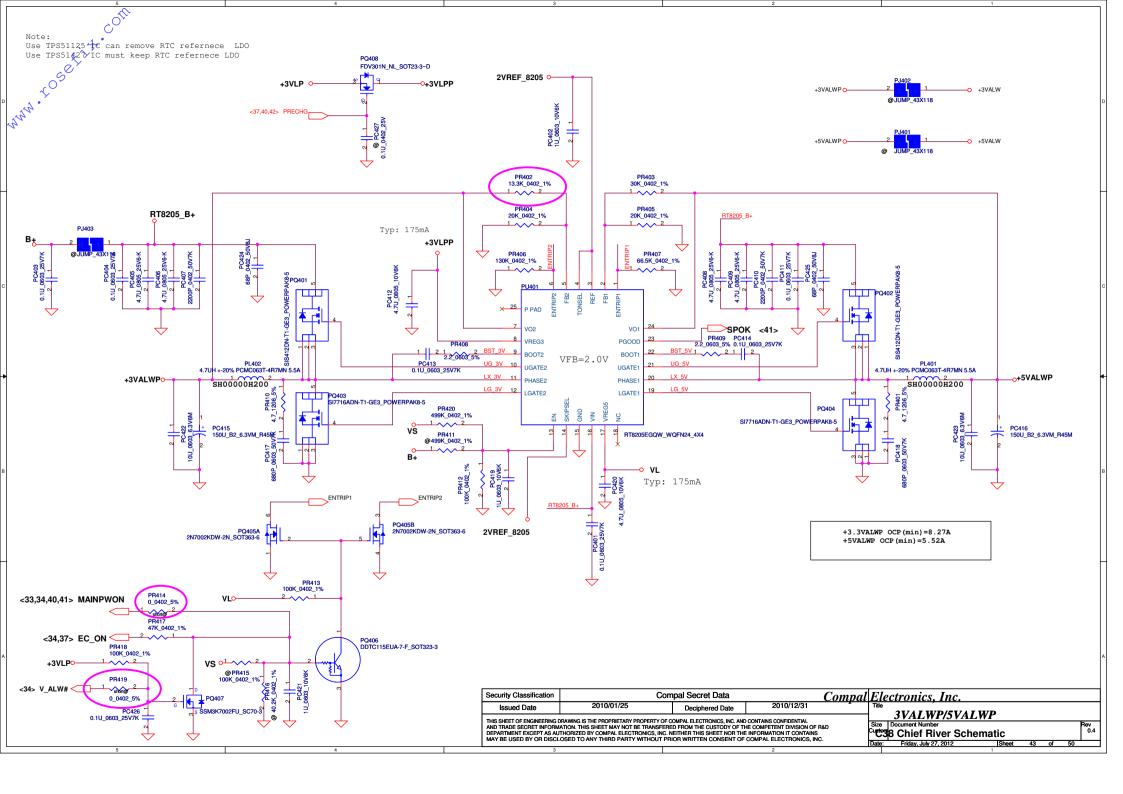


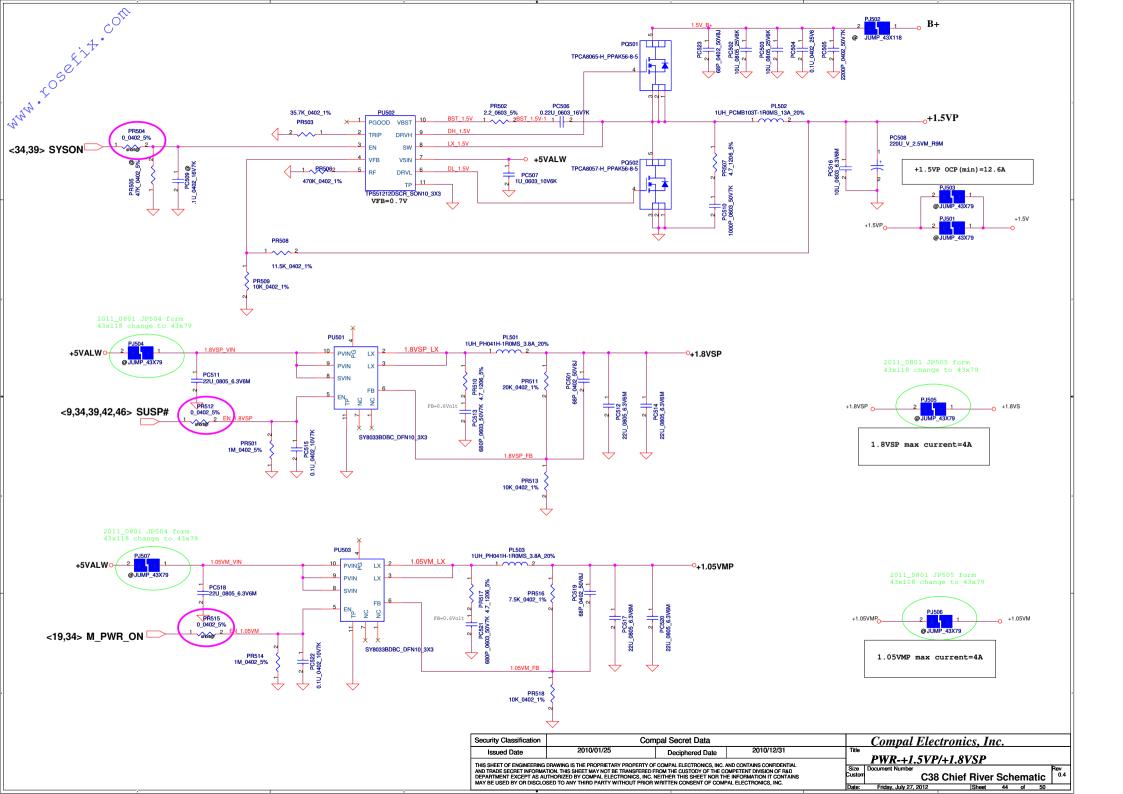
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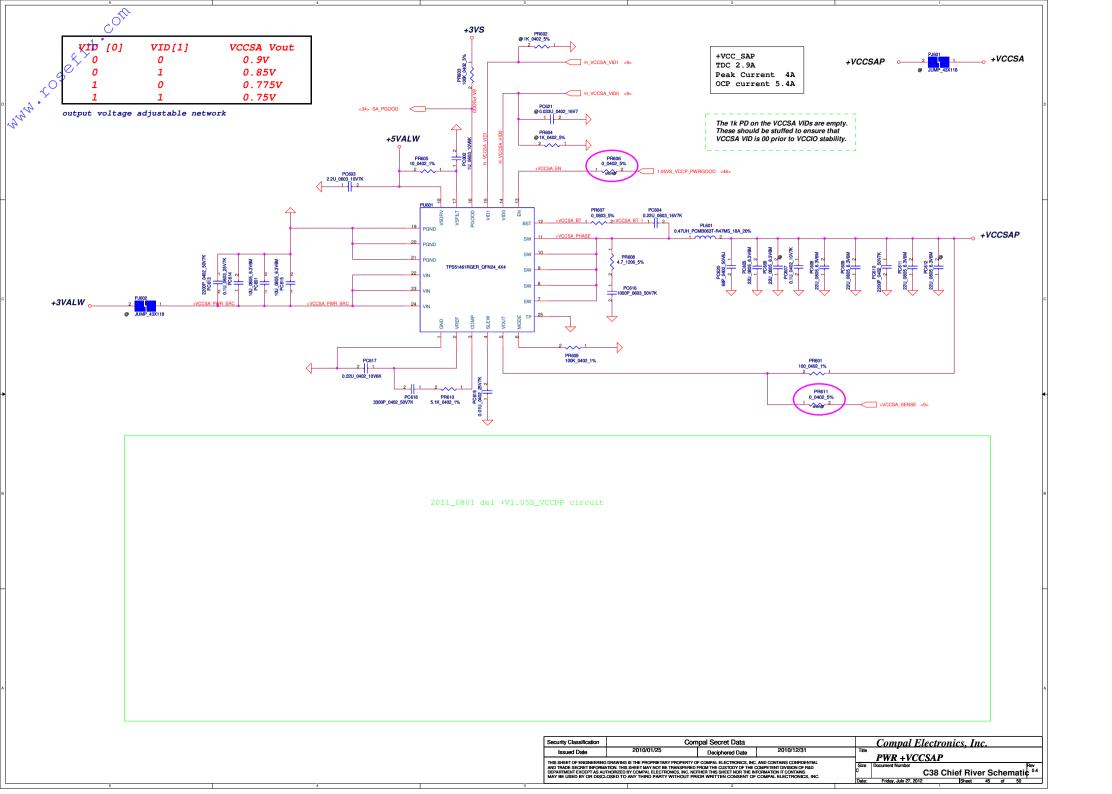


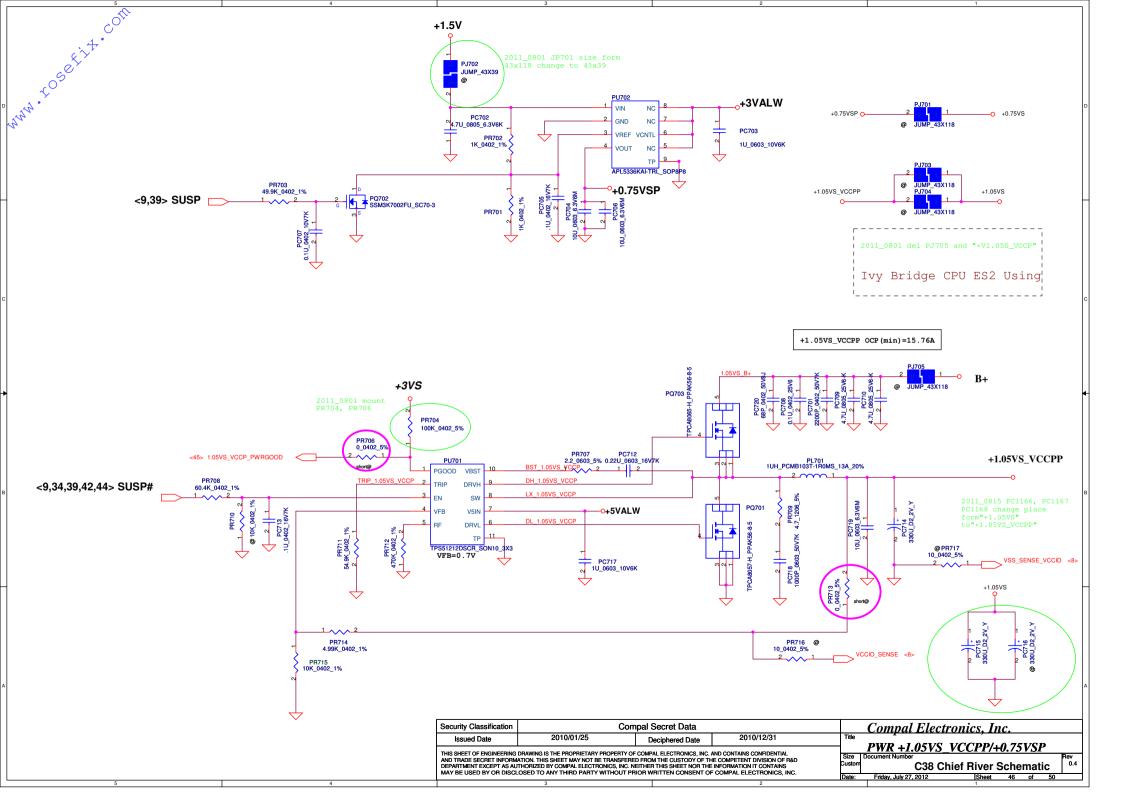


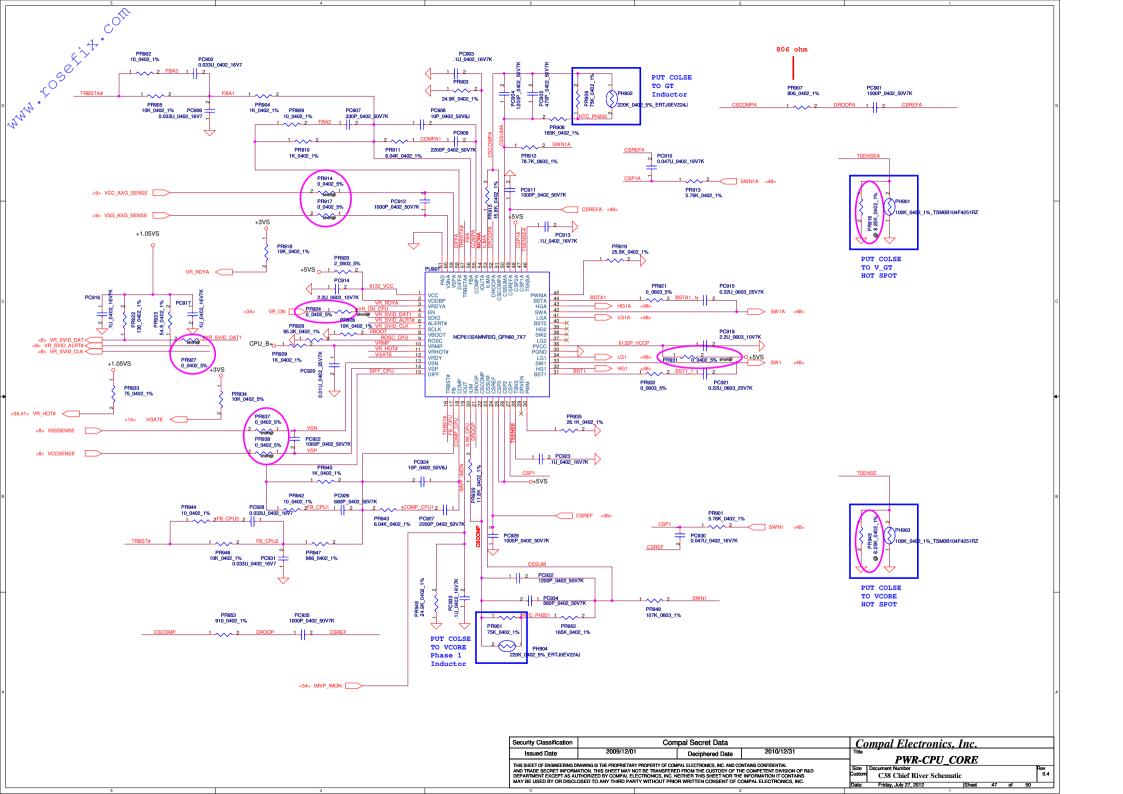


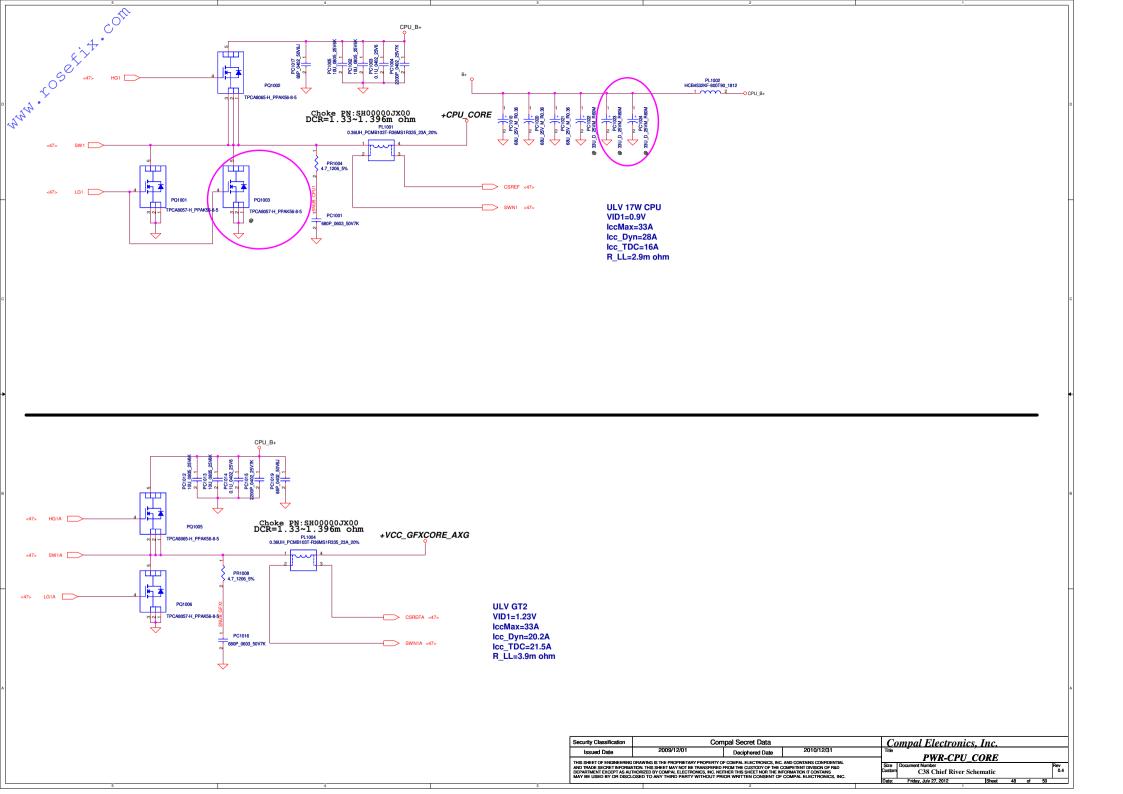


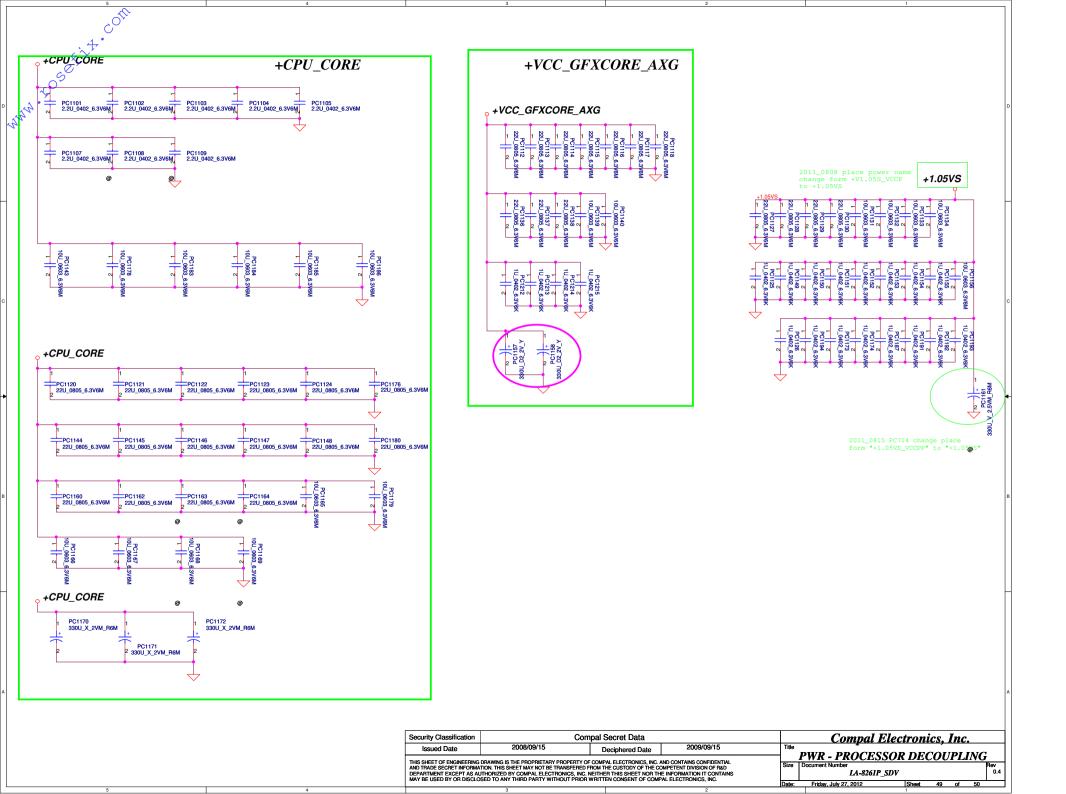












Version change list (P.I.R. List) Page 1 of 1 for PWR P*G*# Modify List Item Reason for change Phase Date NCP6132A update SPEC Remove PR916, PR945 2012/06/05 Thermal verfy PH1 setting point Change PR208 value to 18.2K 2012/06/08 3 ME demand : Keyboard assembly issue Change PL401, PL402 to High=2.4mm (SH00000H200) 2012/06/08 Noise is PASS, Don't need 33u CAP Remove PC1023, PC1024 2012/06/08 9 11 12 13 14 15 16 17 Compal Electronics, Inc. Security Classification Compal Secret Data 2009/01/06 Issued Date 2009/01/06 Deciphered Date PIR (PWR)

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