

Compal Confidential

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

QILE1:
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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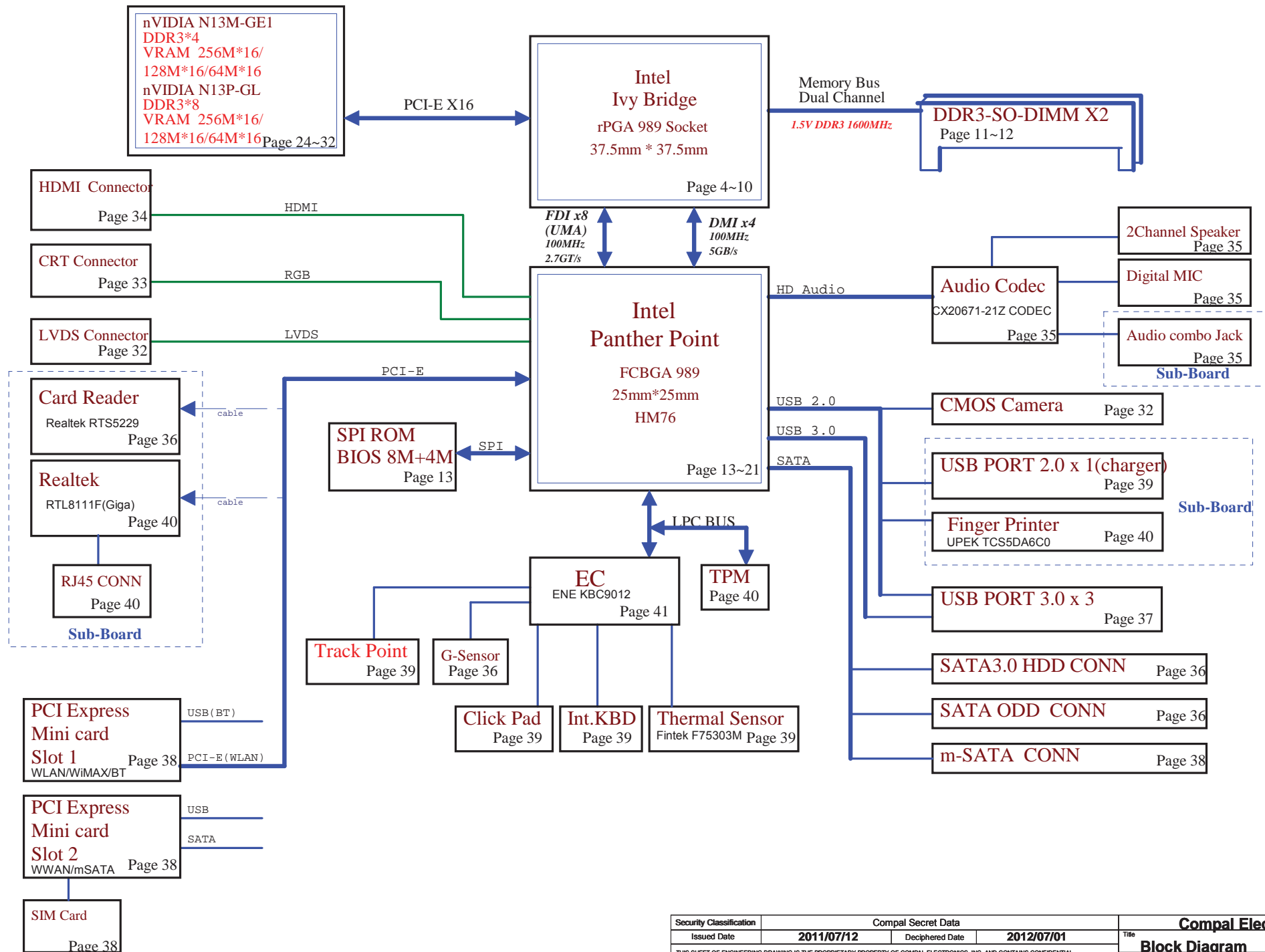
M/B Schematics Document

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

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
S0		○	○	○	○	○ M3 Supported
S3		○	○	○	✗	○ M3 Supported
S5 S4/AC		○	○	✗	✗	○ M3 Supported
S5 S4/ Battery only		✗	✗	✗	✗	
S5 S4/AC & Battery don't exist		✗	✗	✗	✗	

STATE	SIGNAL	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	

EC SM Bus1 address

Device	Address
Smart Battery	0001 011X b

EC SM Bus2 address

Device	Address
Thermal Sensor Fintek F75303M	1001_101xb

PCH SM Bus address

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

USB Port Table

	USB 2.0	Port	3 External USB Port
EHCI1 USB3.0	UHCI0	0	
		1	USB 3.0 Port (Left Side)
	UHCI1	2	USB 3.0 Port (Left Side)
		3	USB 3.0 Port (Left Side)
	UHCI2	4	
		5	Camera
EHCI2	UHCI3	6	
		7	
	UHCI4	8	
		9	USB Port (Right Side)
	UHCI5	10	Mini Card(WLAN/BT)
		11	FPR
	UHCI6	12	Mini Card(WWAN)
		13	Blue Tooth

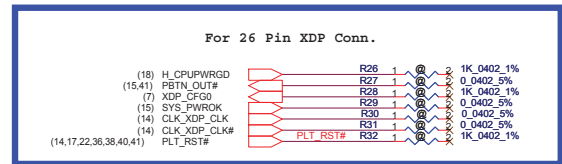
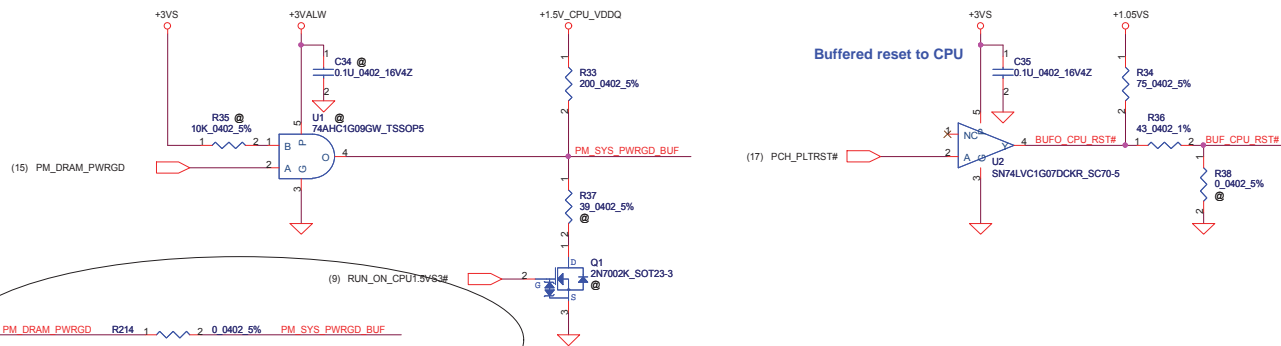
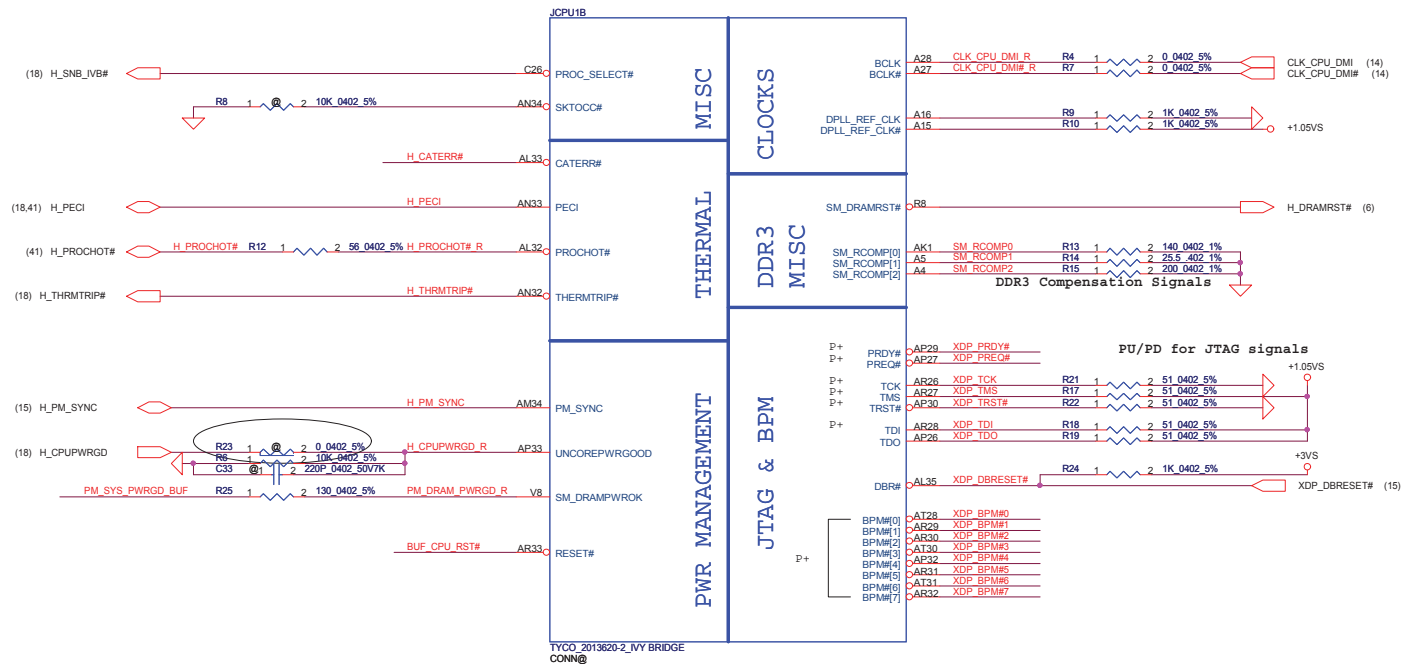
BOM Structure Table

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

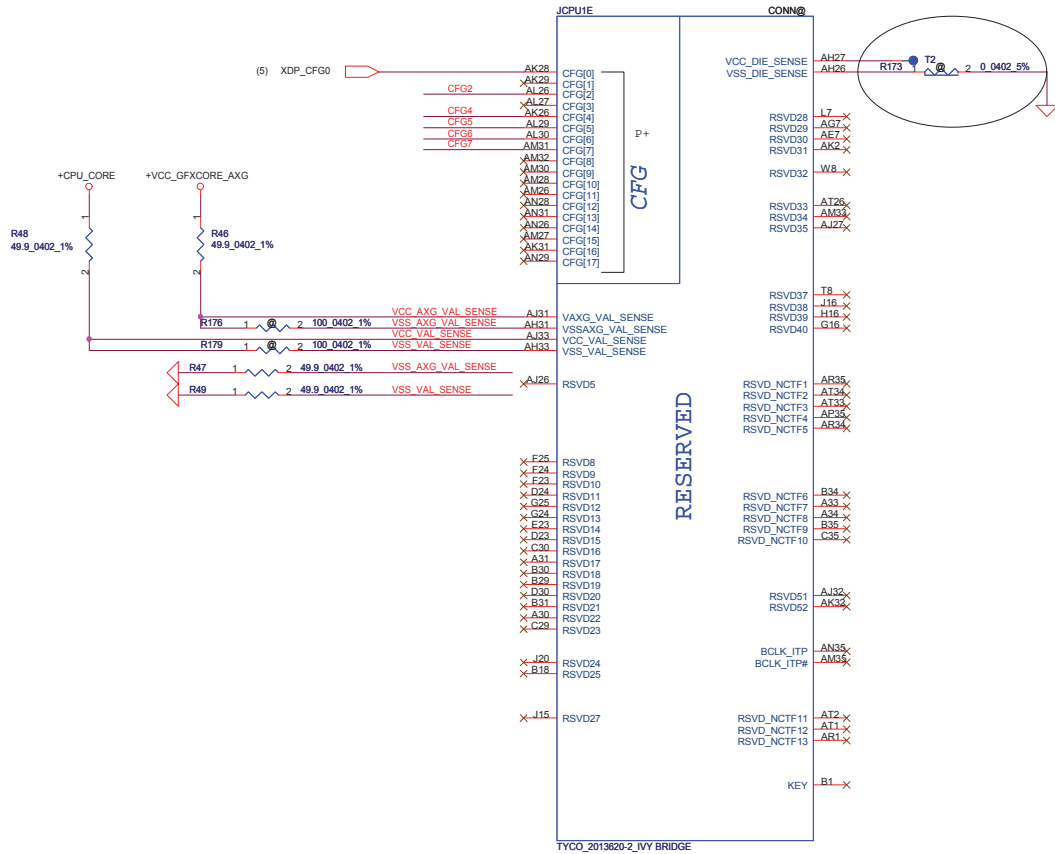
SMBUS Control Table

	SOURCE	VGA	BATT	KE9012	SODIMM	WLAN WWAN	Thermal Sensor	PCH
SMB_EC_CK1	KB9012	X	V	X	X	X	X	X
SMB_EC_DA1	+3VALW		+3VALW					
SMB_EC_CK2	KB9012	X	X	X	X	X	X	V
SMB_EC_DA2	+3VALW							+3VS
SMBCLK	PCH	X	X	X	V	V	X	X
SMBDATA	+3VALW				+3VS	+3VS		
SMLCLK	PCH	X	X	X	X	X	X	X
SMLDATA	+3VALW							
SML1CLK	PCH	V	X	V	X	X	V	X
SML1DATA	+3VALW	+3VS		+3VS			+3VS	

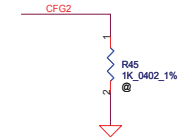
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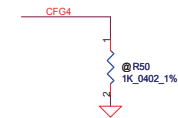


CFG Straps for Processor



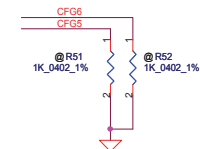
PEG Static Lane Reversal - CFG2 is for the 16x

CFG2	<p>★ 1: Normal Operation; Lane # definition matches socket pin map definition</p> <p>0: Lane Reversed</p>
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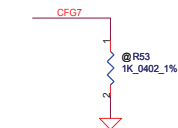
Display Port Presence Strap

CFG4	<p>★ 1 : Disabled; No Physical Display Port attached to Embedded Display Port</p> <p>0 : Enabled; An external Display Port device is connected to the Embedded Display Port</p>
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PCIe Port Bifurcation Straps

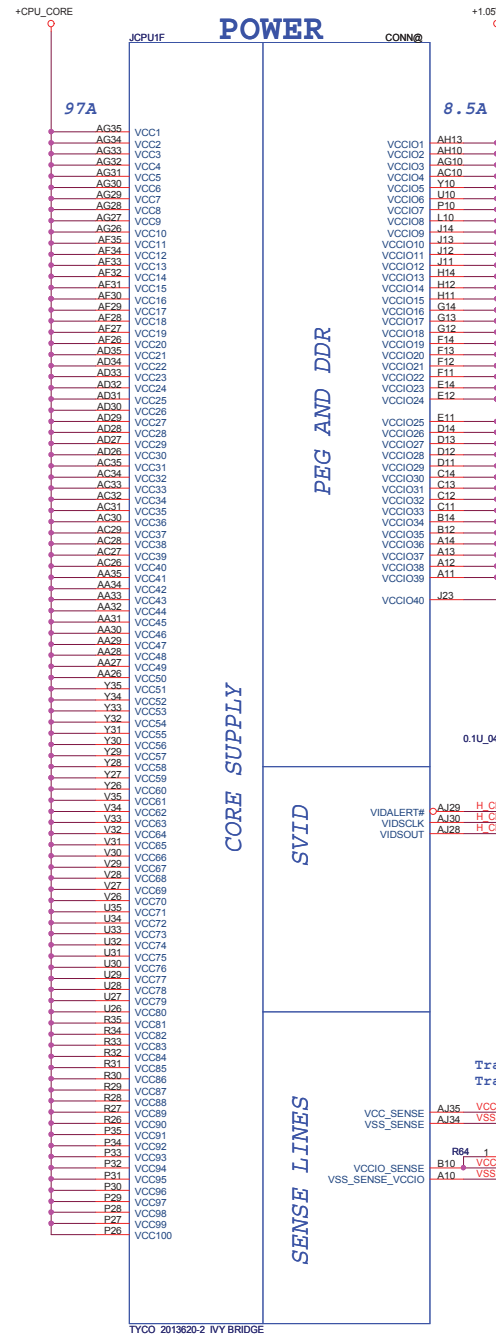
CFG[6:5]	<p>★ 11: (Default) x16 - Device 1 functions 1 and 2 disabled</p> <p>10: x8, x8 - Device 1 function 1 enabled ; function 2 disabled</p> <p>01: Reserved - (Device 1 function 1 disabled ; function 2 enabled)</p> <p>00: x8,x4,x4 - Device 1 functions 1 and 2 enabled</p>
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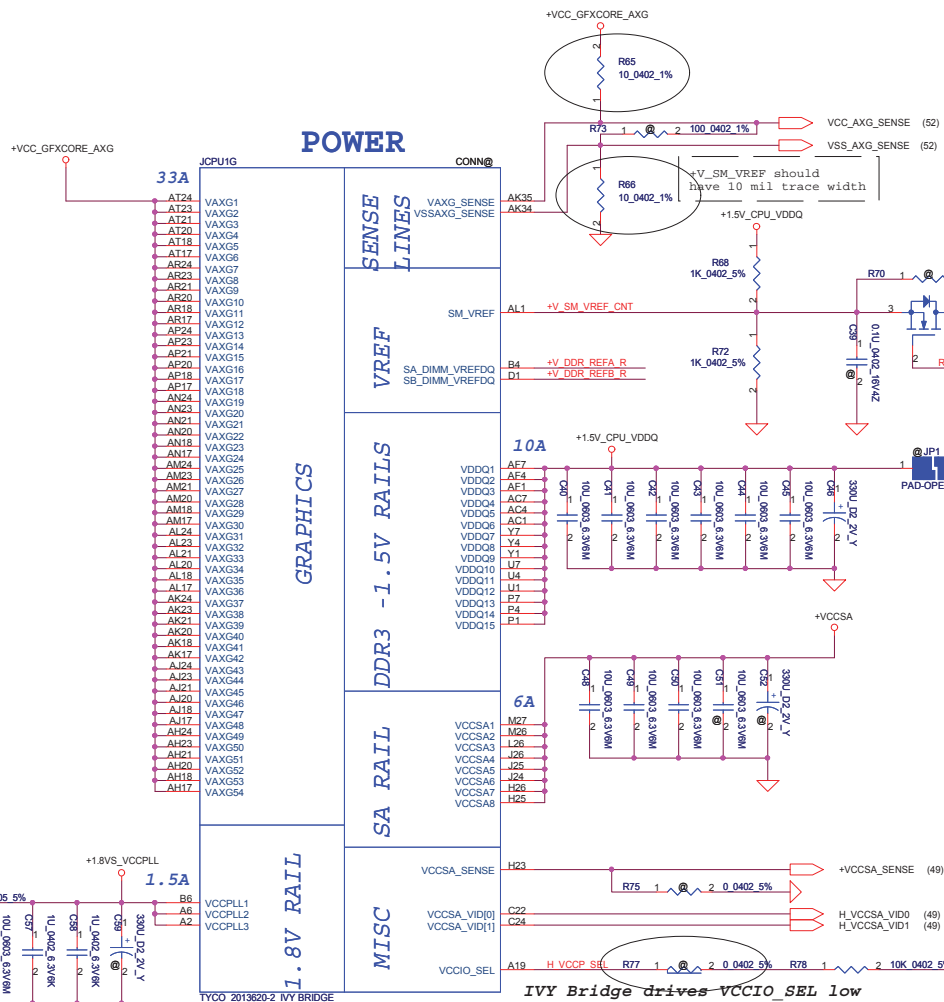
PEG DEFER TRAINING

CFG7	<p>1: (Default) PEG Train immediately following xxRESETB de assertion</p> <p>0: PEG Wait for BIOS for training</p>
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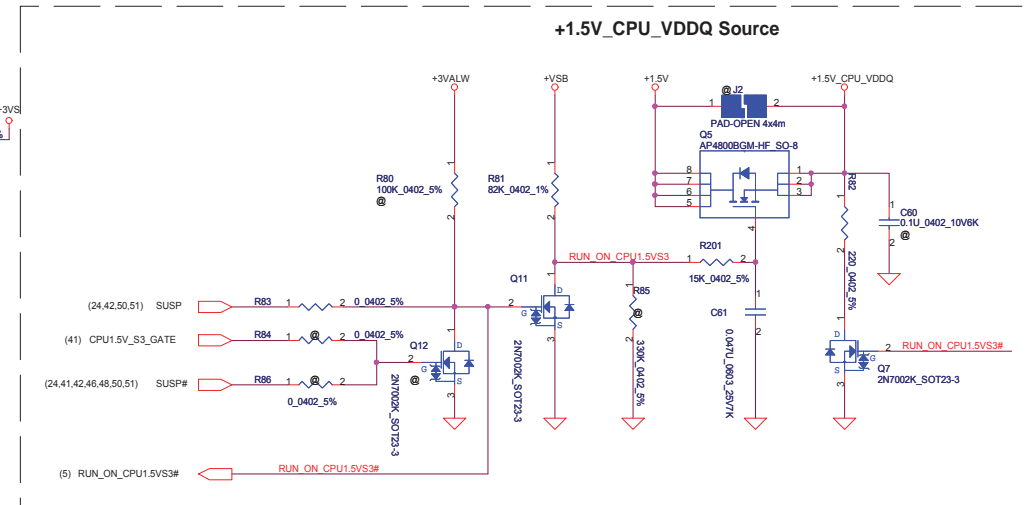
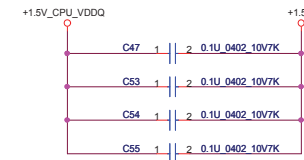
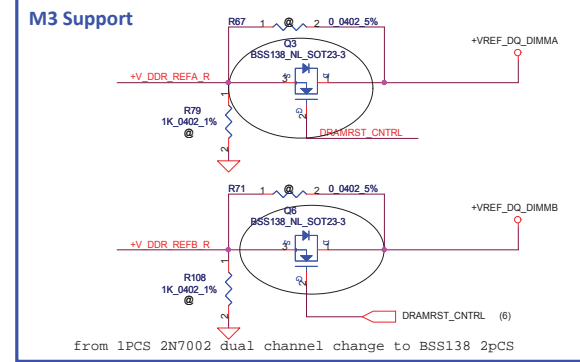


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IVY Bridge drives VCCIO_SEL low
VCCP_PWRCTRL:0

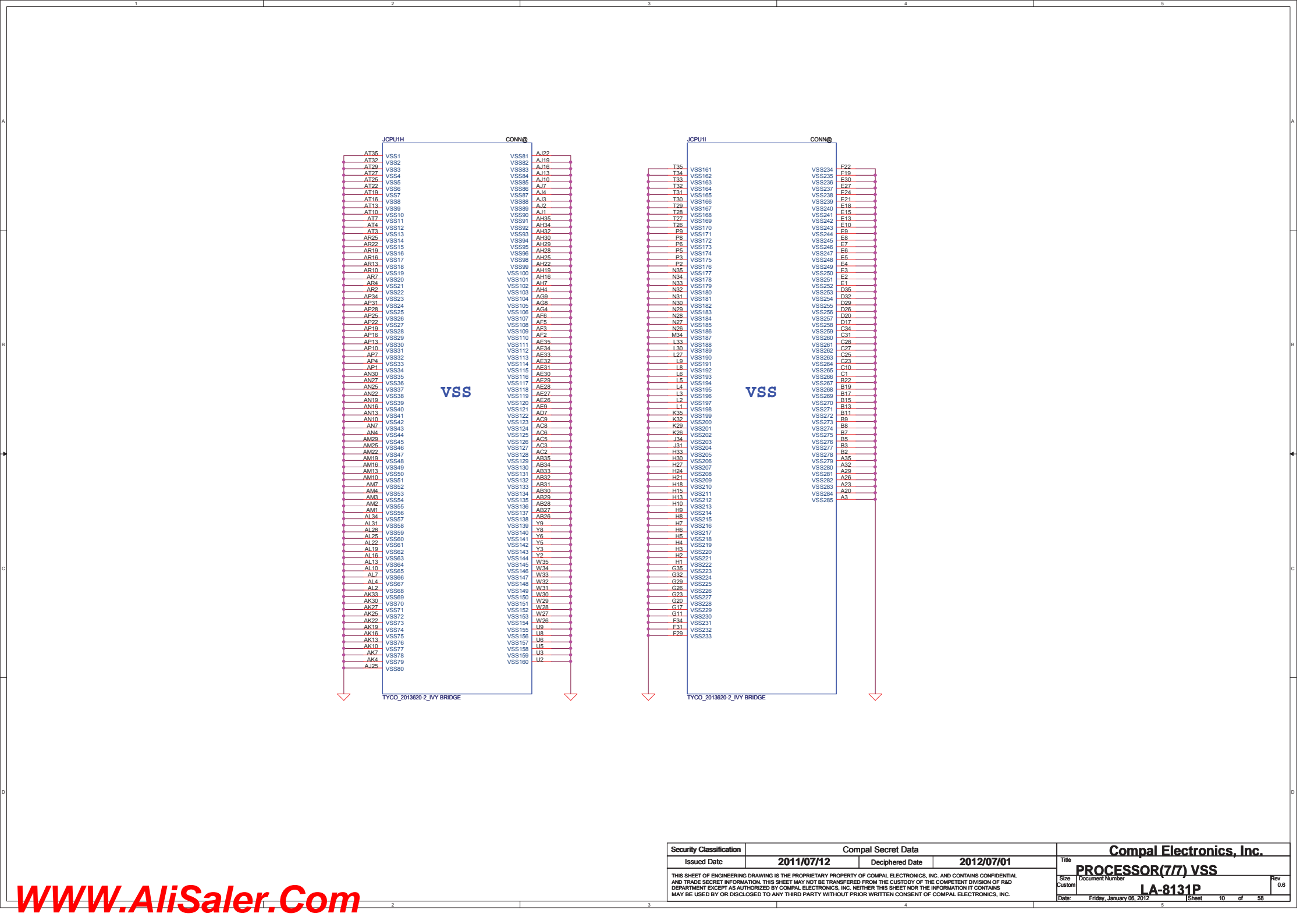
Sandy Bridge is NC for A19
VCCP_PWRCTRL:1

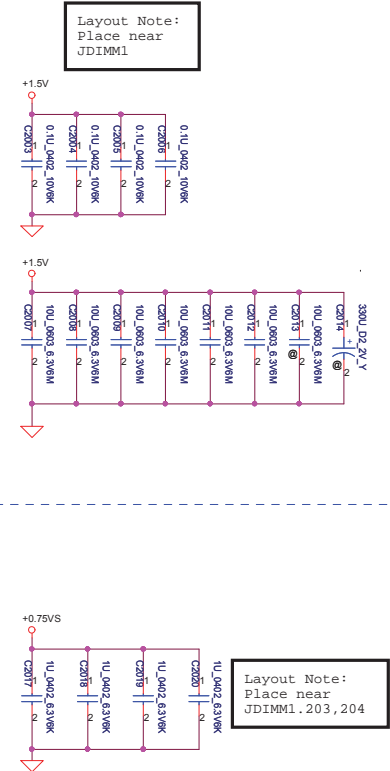
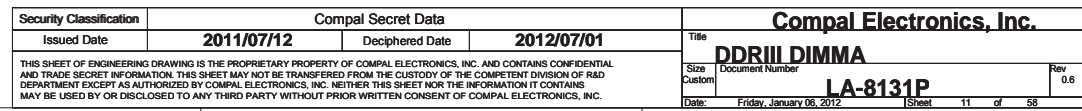


Vaxg

- Can connect to GND if motherboard only supports external graphics and if GFX VR is not stuffed in a common motherboard design,
- VAXG can be left floating in a common motherboard design (Gfx VR keeps VAXG from floating) if the VR is stuffed

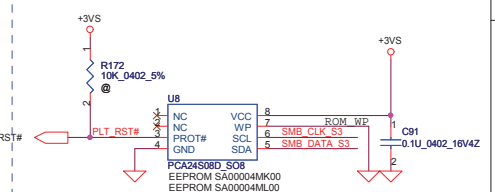
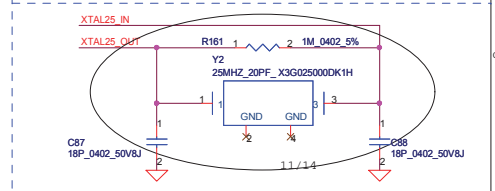
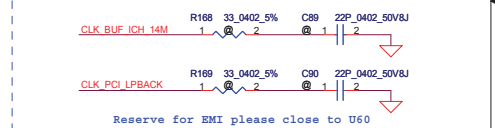
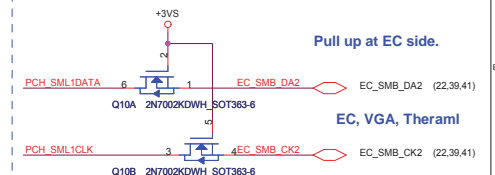
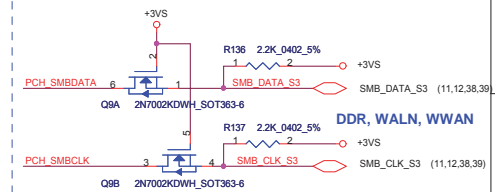
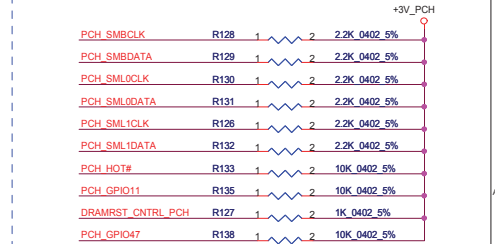
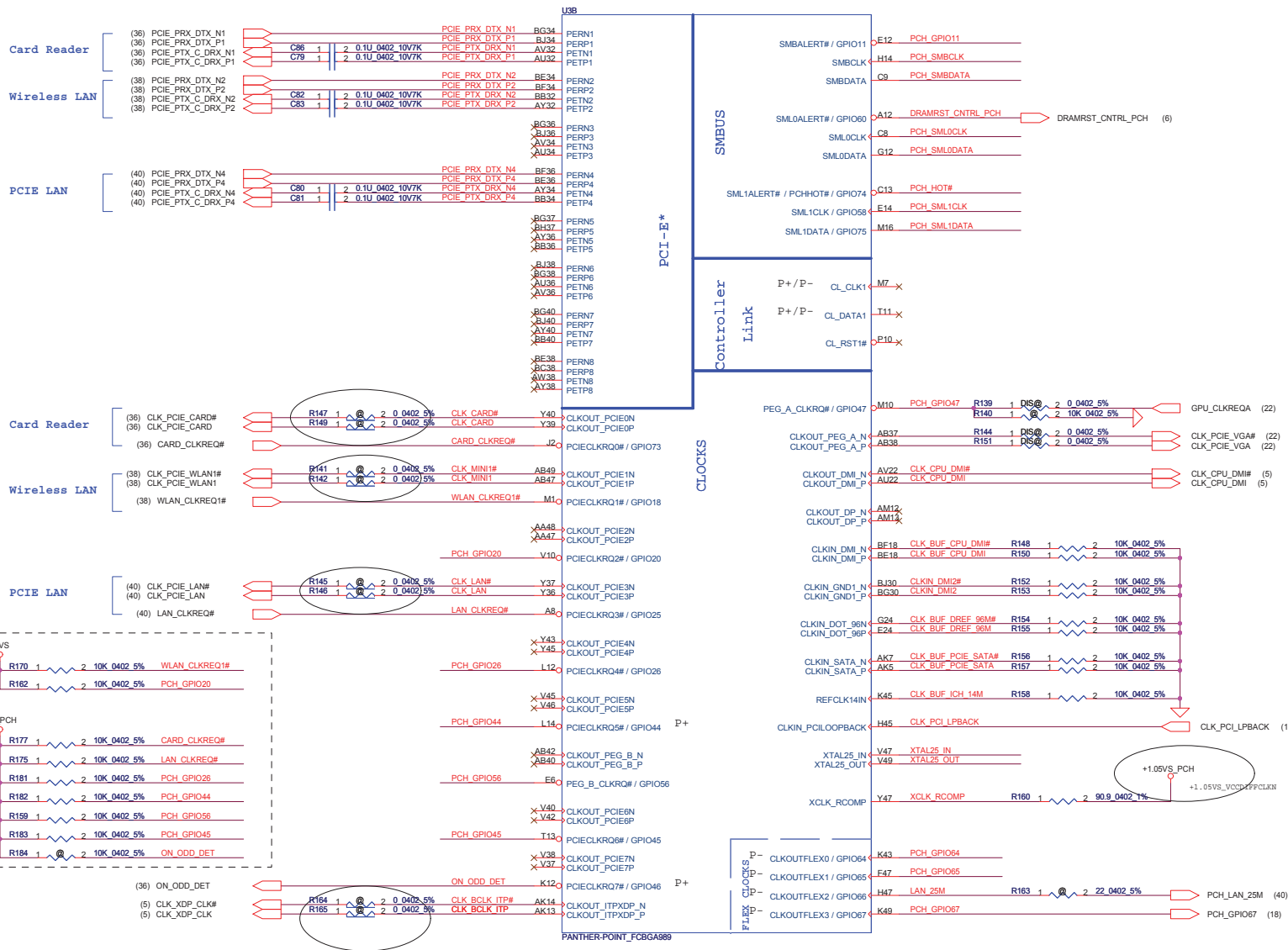
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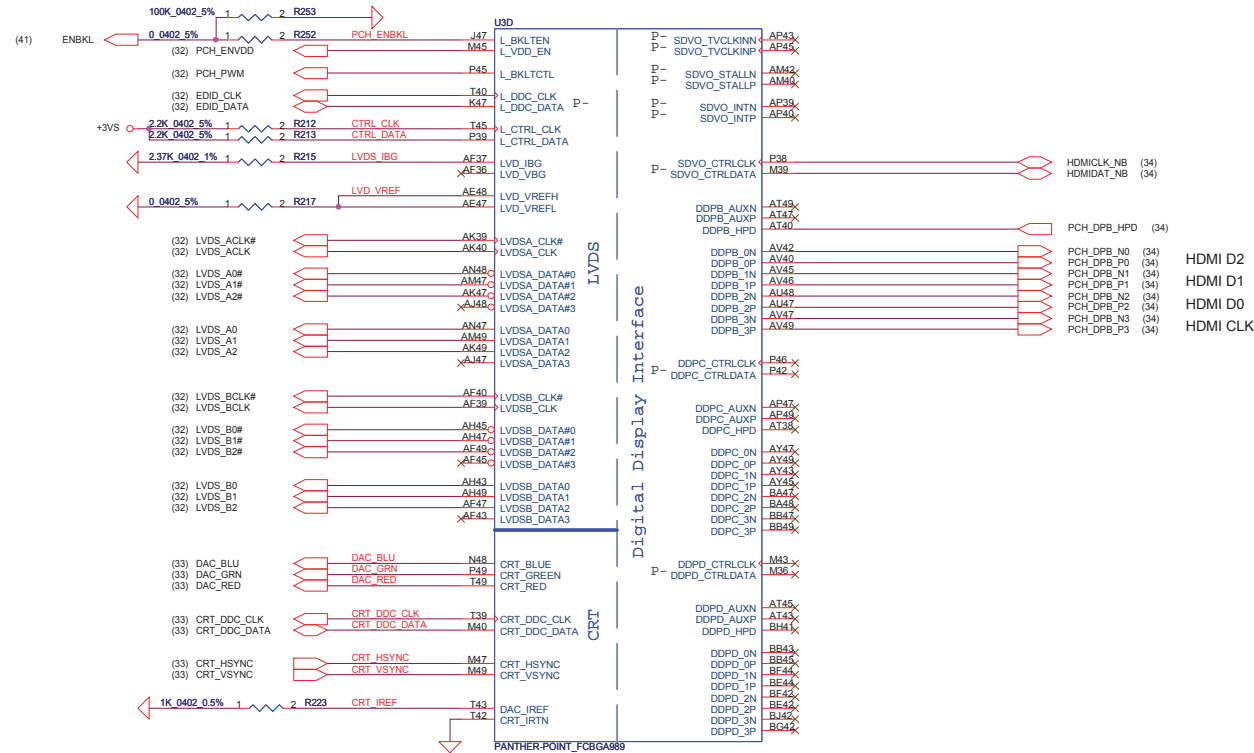


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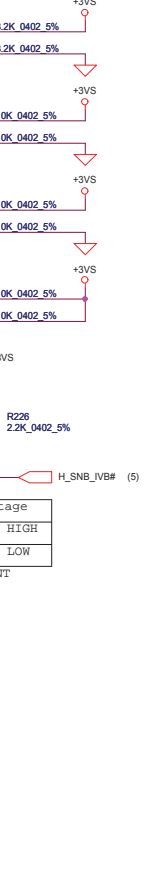
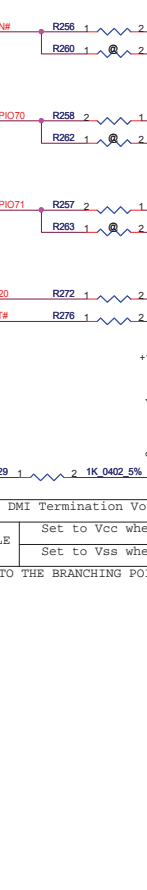
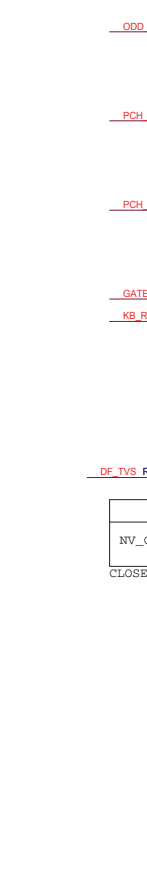
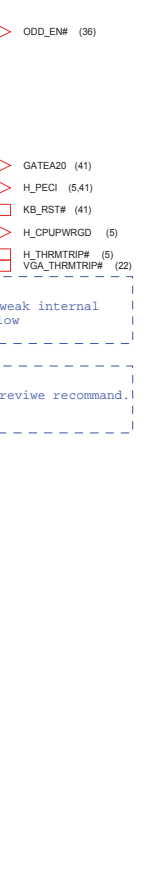
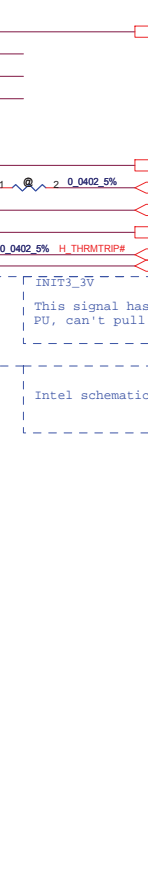
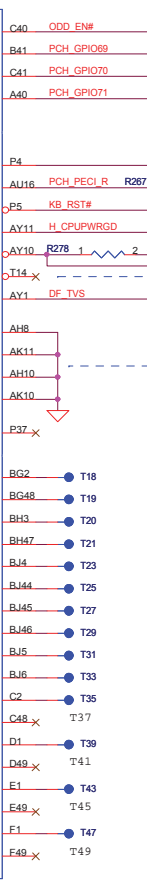
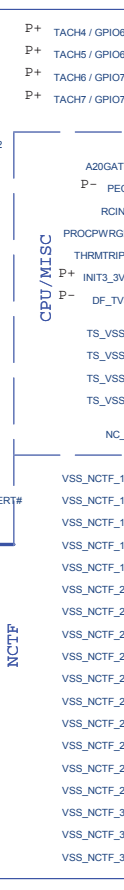
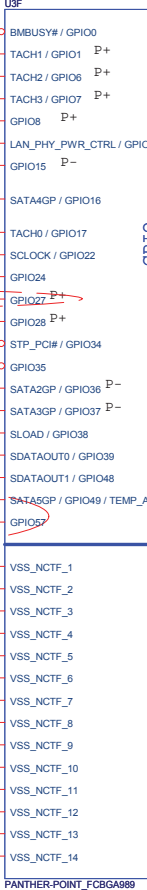
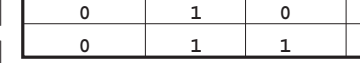
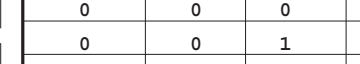
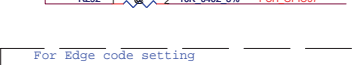
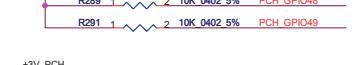
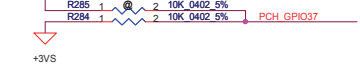
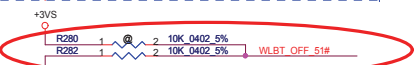


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GPIO28
On-Die PLL Voltage Regulator
This signal has a weak internal pull up
* H: On-Die voltage regulator enable
L: On-Die PLL Voltage Regulator disable



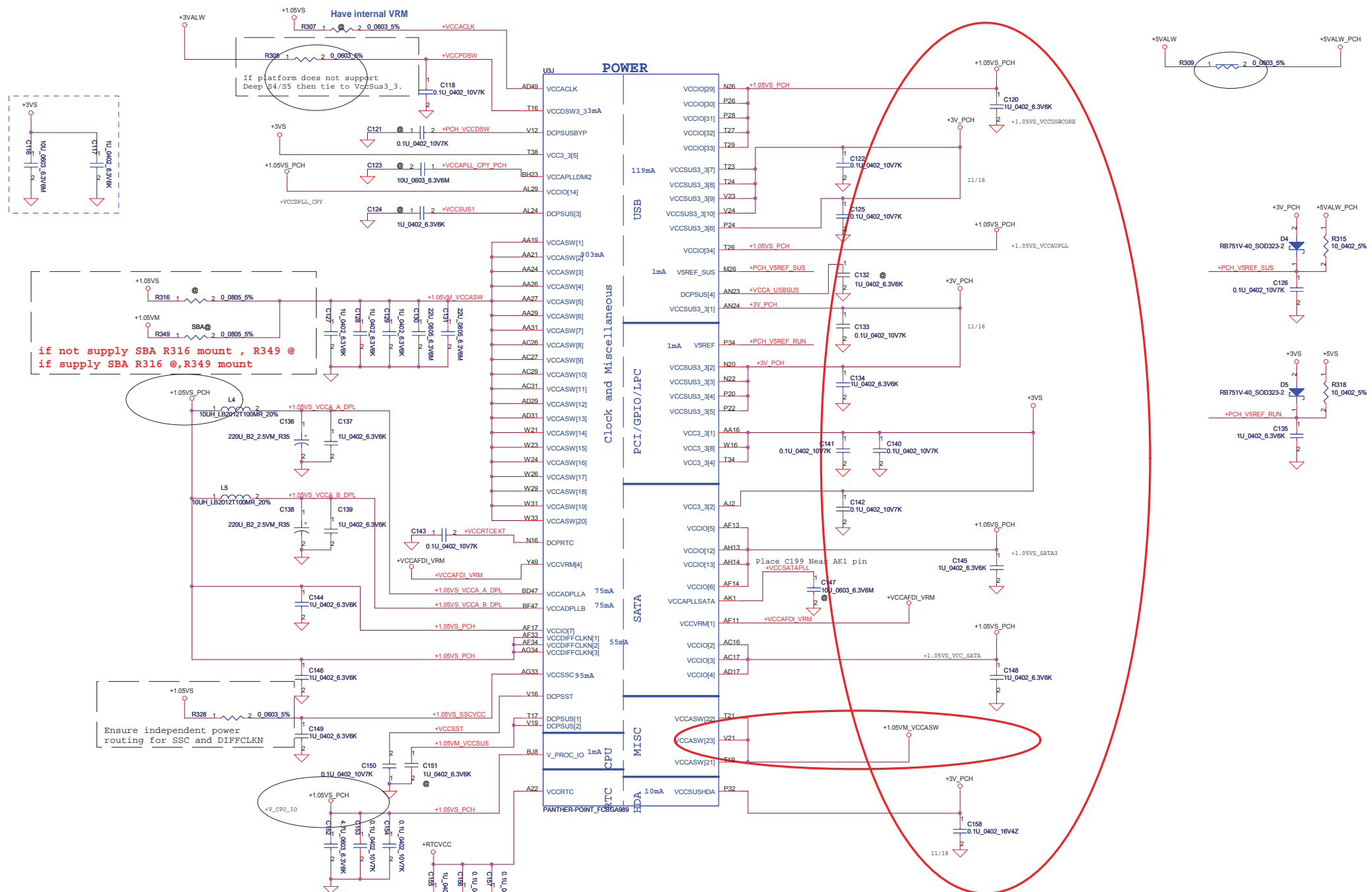
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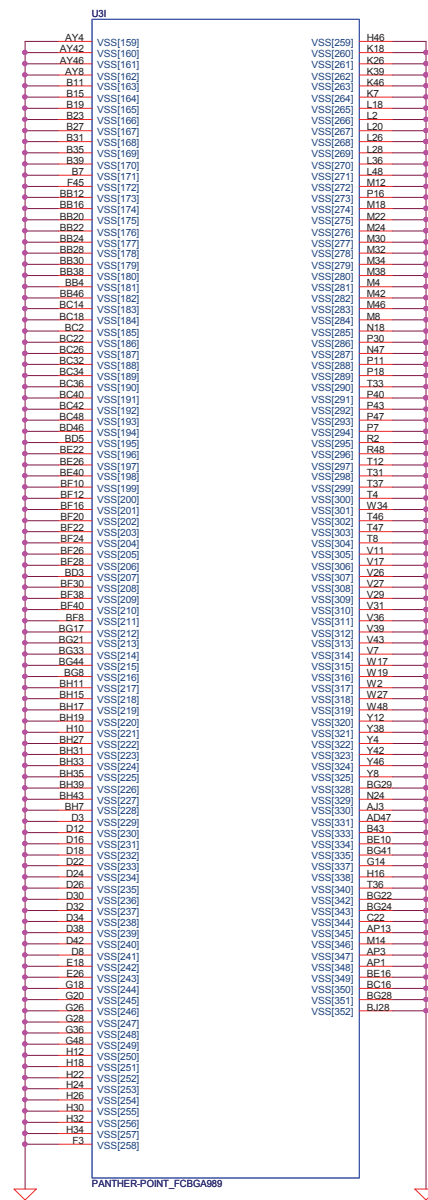
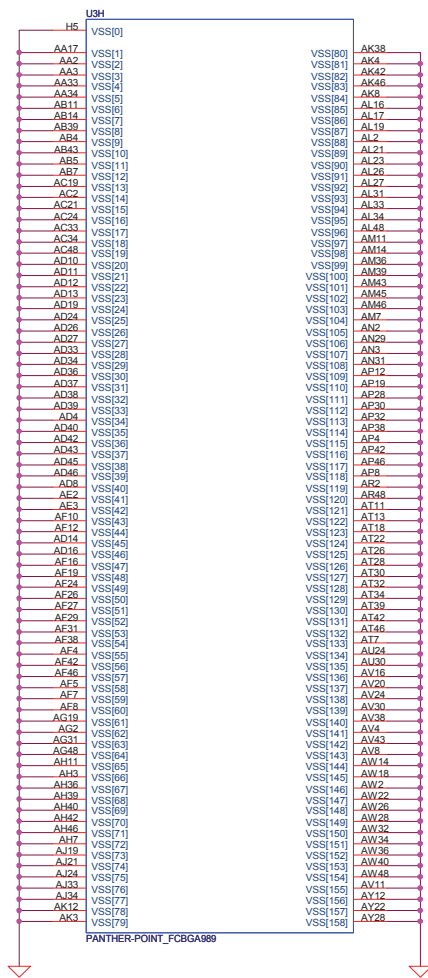
For Edge code setting

PCH_GPIO69	PCH_GPIO38	PCH_GPIO67	Function
0	0	0	Optimus
0	0	1	Reserved
0	1	0	DIS
0	1	1	UMA

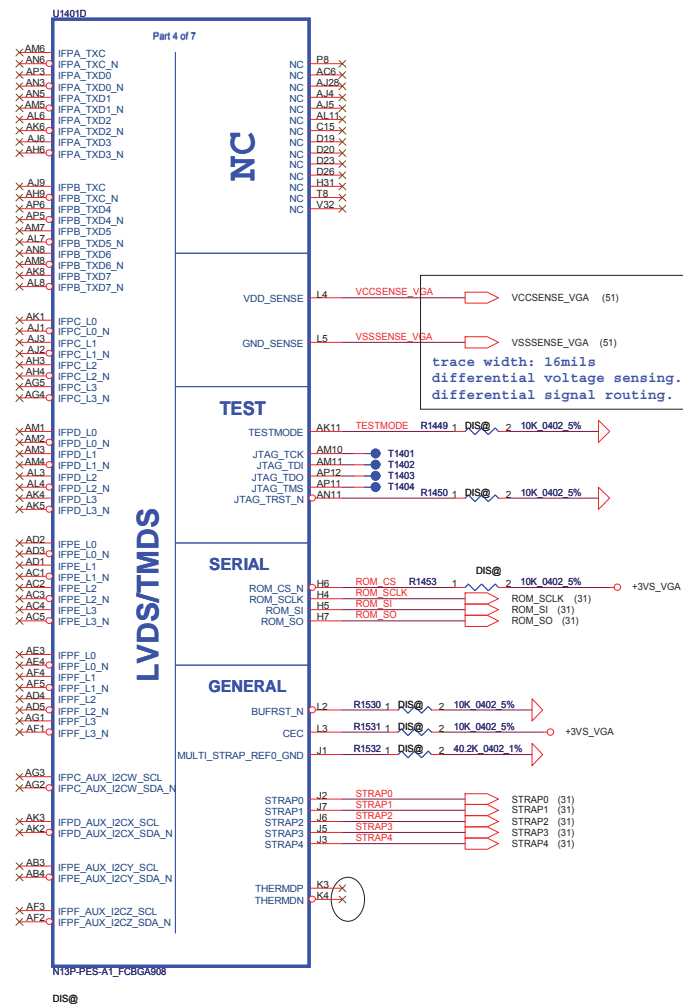
VCC3_3 = 266mA detal waiting for newest spec
VCCDMI = 42mA detal waiting for newest spec

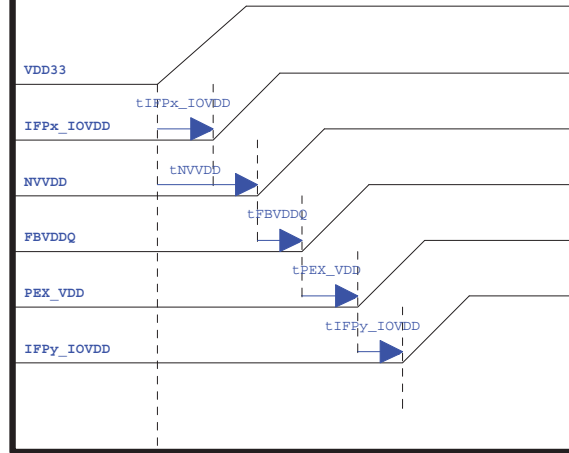
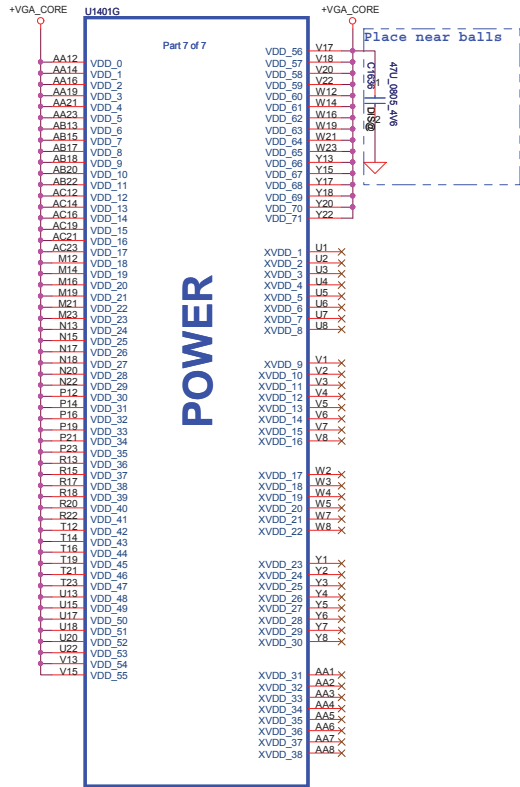


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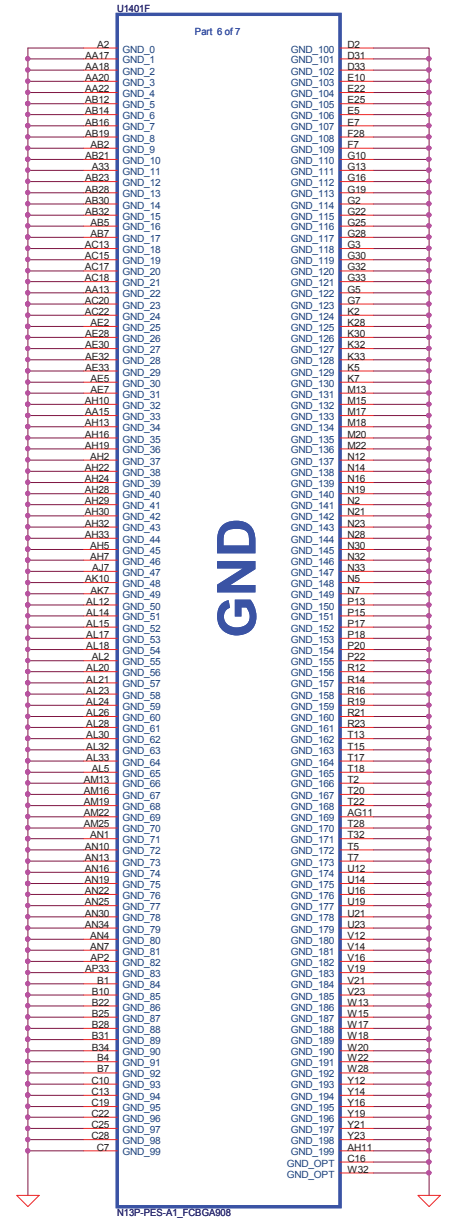






NV Recommended Power On Sequencing Order

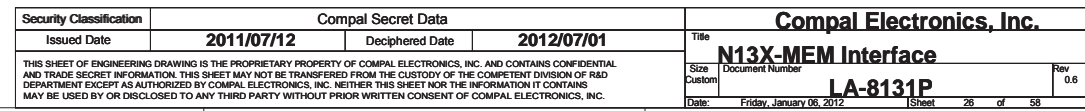
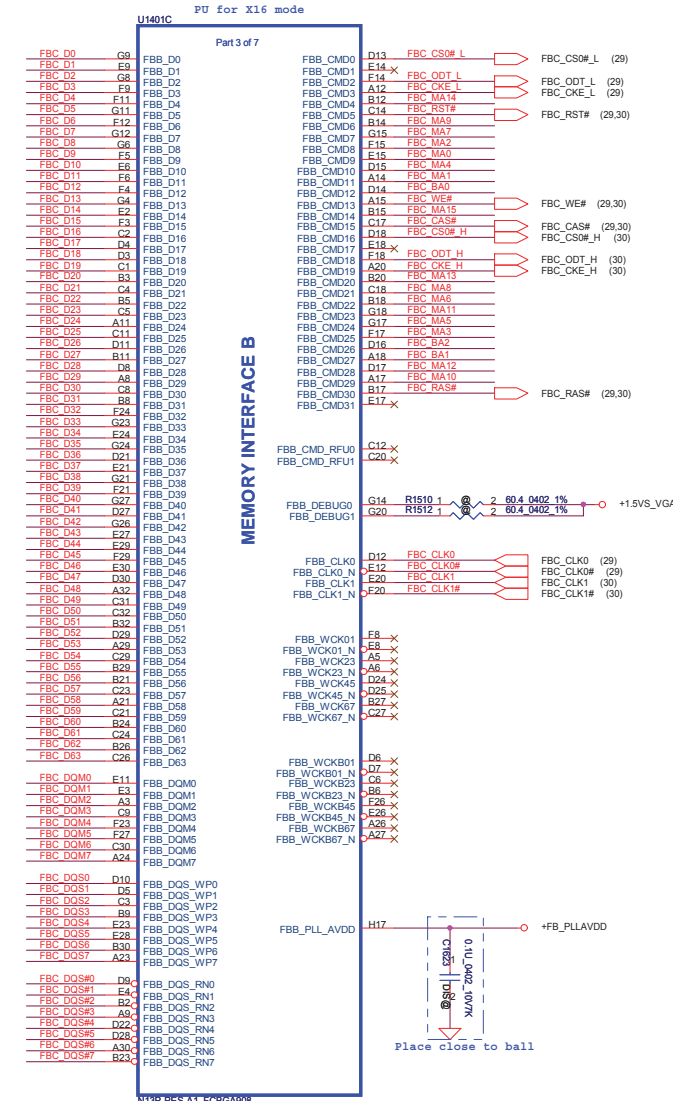
X=A and B
Y=C,D,E and F



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				Date	Friday, January 08, 2012
				Sheet	25 of 58
				Rev	0.6

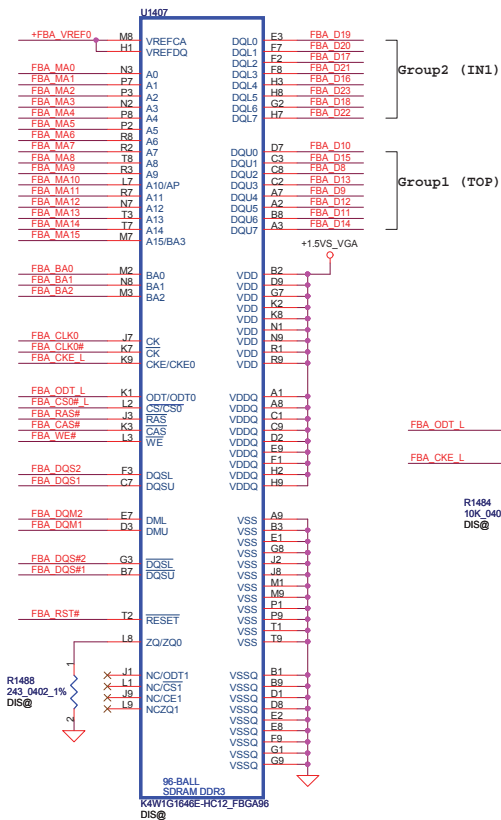
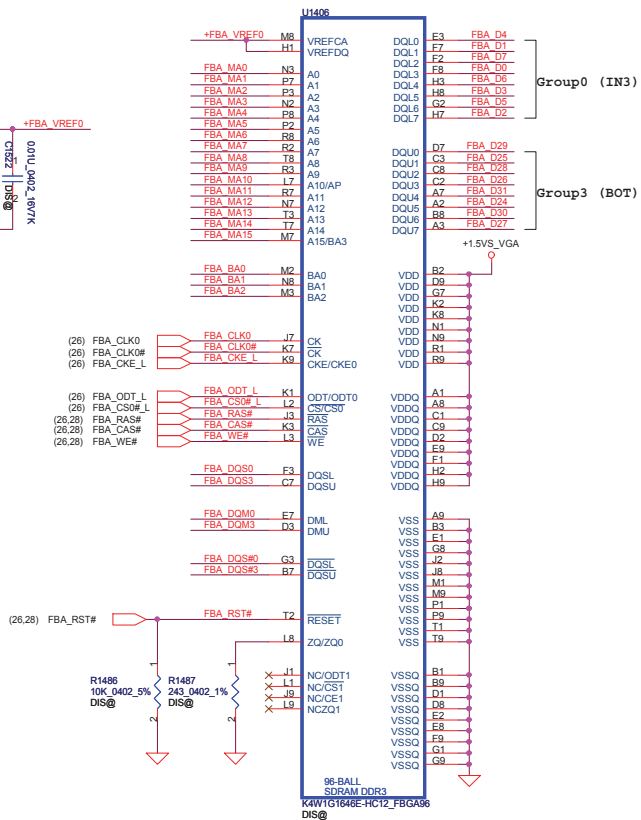


	DATA Bus	
Address	0..31	32..63
FBx_CMD0	CS0#_L	
FBx_CMD1		
FBx_CMD2	ODT_L	
FBx_CMD3	CKE_L	
FBx_CMD4	A14	A14
FBx_CMD5	RST	RST
FBx_CMD6	A9	A9
FBx_CMD7	A7	A7
FBx_CMD8	A2	A2
FBx_CMD9	A0	A0
FBx_CMD10	A4	A4
FBx_CMD11	A1	A1
FBx_CMD12	BA0	BA0
FBx_CMD13	WE#	WE#
FBx_CMD14	A15	A15
FBx_CMD15	CAS#	CAS#
FBx_CMD16		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#



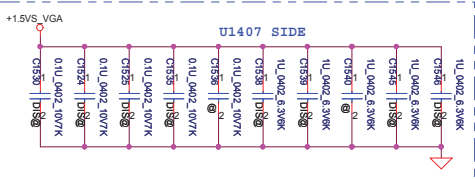
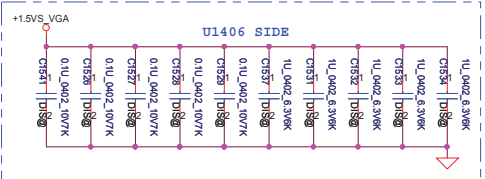
Memory Partition A - Lower 32 bits

- FBA_MA[15..0] (26,28)
- FBA_BA[2..0] (26,28)
- FBA_D[0..63] (26,28)
- FBA_DQM[7..0] (26,28)
- FBA_DQS[7..0] (26,28)
- FBA_DQS# [7..0] (26,28)

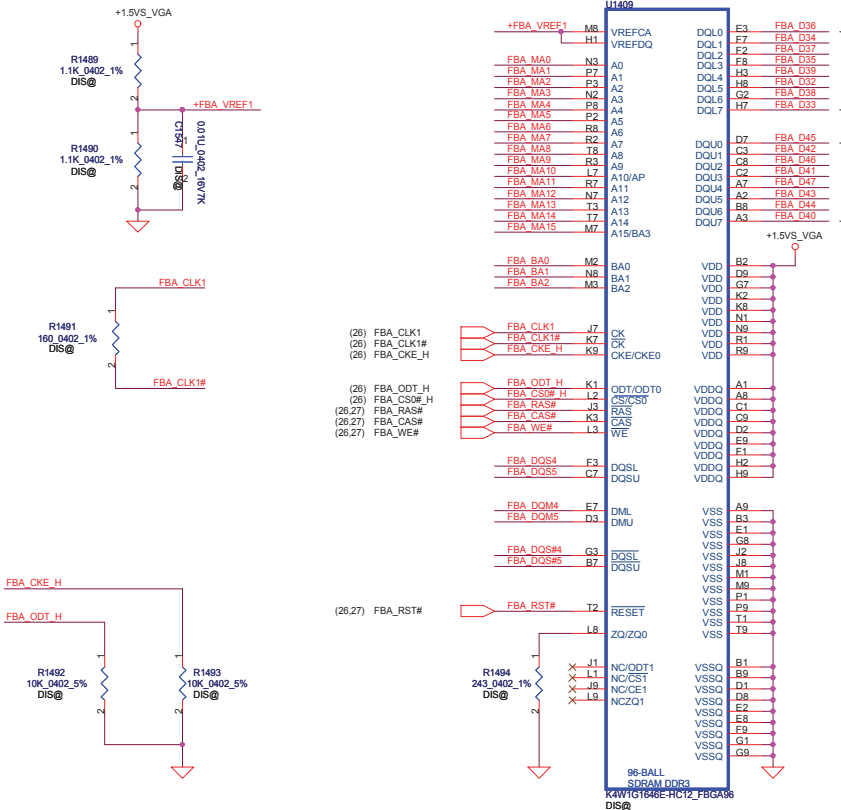


Mode D - Mirror Mode Mapping

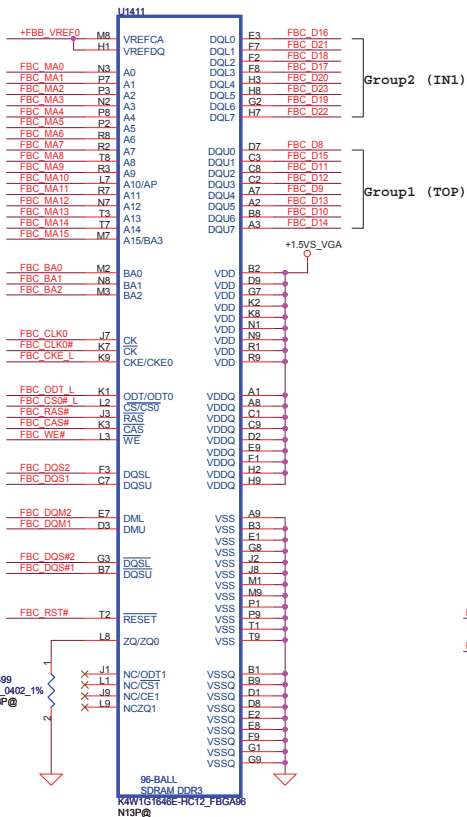
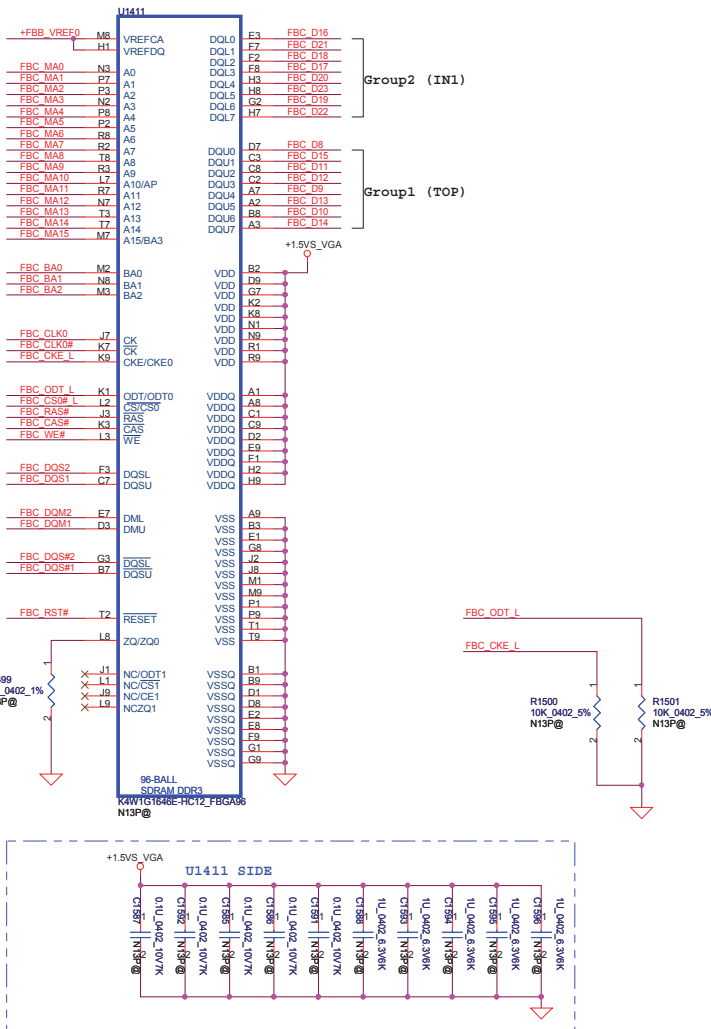
DATA Bus	
Address	0..31 32..63
FBx_CMD0	CS0#_L
FBx_CMD1	
FBx_CMD2	ODT_L
FBx_CMD3	CKE_L
FBx_CMD4	A14 A14
FBx_CMD5	RST RST
FBx_CMD6	A9 A9
FBx_CMD7	A7 A7
FBx_CMD8	A2 A2
FBx_CMD9	A0 A0
FBx_CMD10	A4 A4
FBx_CMD11	A1 A1
FBx_CMD12	BA0 BA0
FBx_CMD13	WE# WE#
FBx_CMD14	A15 A15
FBx_CMD15	CAS# CAS#
FBx_CMD16	CS0#_H
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#



Memory Partition A - Upper 32 bits

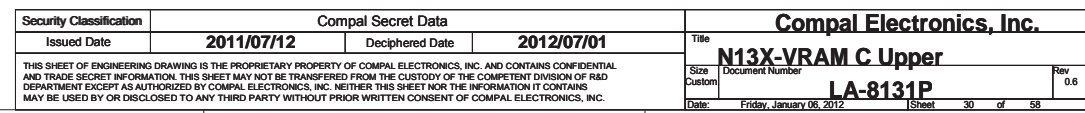


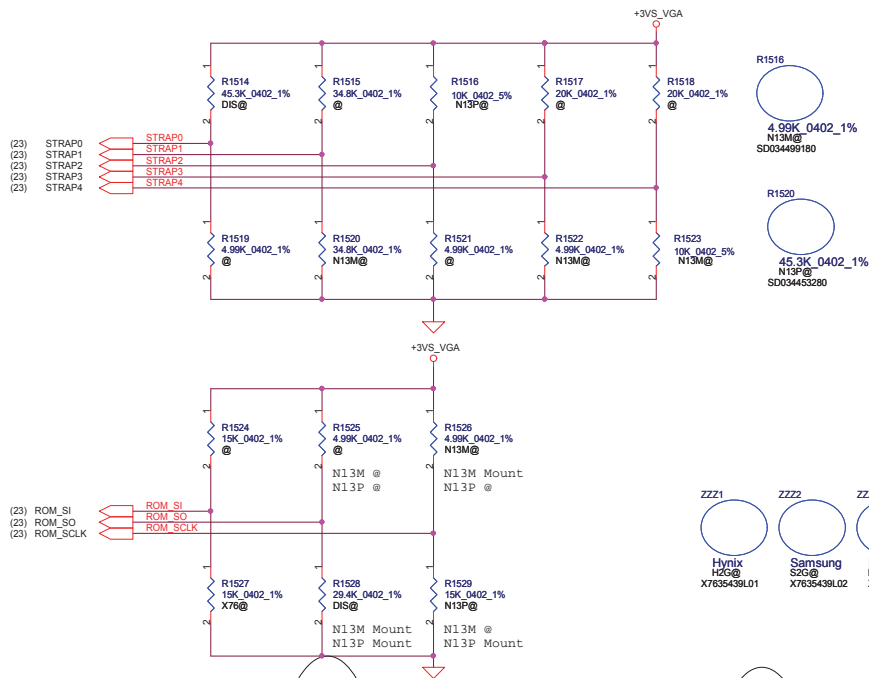
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	DATA Bus	
Address	0..31	32..63
FBx_CMD0	CS0#_L	
FBx_CMD1		
FBx_CMD2	ODT_L	
FBx_CMD3	CKE_L	
FBx_CMD4	A14	A14
FBx_CMD5	RST	RST
FBx_CMD6	A9	A9
FBx_CMD7	A7	A7
FBx_CMD8	A2	A2
FBx_CMD9	A0	A0
FBx_CMD10	A4	A4
FBx_CMD11	A1	A1
FBx_CMD12	BA0	BA0
FBx_CMD13	WE#	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 Strapping pin	Power Rail	Logical Strapping Bit3	Logical Strapping Bit2	Logical Strapping Bit1	Logical 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

XCLK_417	
0	277MHz (Default)
1	Reserved

FB_0_BAR_SIZE	
0	Reserved
1	Reserved
2	256MB (Default)
3	Reserved

SLOT_CLK_CFG	
0	GPU and MCH don't share a common reference clock
1	GPU and MCH share a common reference clock (Default)

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

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

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

PCIE_MAX_SPEED	
0	Limit to PCIE Gen1
1	PCIE Gen 2/3 Capable

PEX_PLL_EN_TERM	
0	Disable (Default)
1	Enable

GPU	FB Memory gDDR3		ROM_SO	ROM_SCLK	ROM_SI	STRAP0	STRAP1	STRAP2	STRAP3	STRAP4
N13P-GL	Samsung 900MHz	K4W1G1646G-BC11	PD 10K	PD 15K	PD 20K	PU 45K	PD 45K	PU 10K	NC	NC
		64Mx16						PU 45K (ES)		
	Hynix 900MHz	H5TQ1G63DFR-11C	PD 10K	PD 15K	PD 15K	PU 45K	PD 45K	PU 10K	NC	NC
		64Mx16						PU 45K (ES)		
	Samsung 900MHz	K4W2G1646C-HC11	PD 10K	PD 15K	PD 45K	PU 45K	PD 45K	PU 10K	NC	NC
		128Mx16						PU 45K (ES)		
	Hynix 900MHz	H5TQ2G63BFR-11C	PD 10K	PD 15K	PD 35K	PU 45K	PD 45K	PU 10K	NC	NC
		128Mx16						PU 45K (ES)		

GPU	FB Memory gDDR3		ROM_SO	ROM_SCLK	ROM_SI	STRAP0	STRAP1	STRAP2	STRAP3	STRAP4
N13M-GE1	Samsung 900MHz	K4W1G1646G-BC11	PD 30K	PU 5K	PD 20K	PU 45K	PD 35K	PU 5K	PD 5K	PD 10K
		64Mx16								
	Hynix 900MHz	H5TQ1G63DFR-11C	PD 30K	PU 5K	PD 15K	PU 45K	PD 35K	PU 5K	PD 5K	PD 10K
		64Mx16								
	Samsung 900MHz	K4W2G1646C-HC11	PD 30K	PU 5K	PD 45K	PU 45K	PD 35K	PU 5K	PD 5K	PD 10K
		128Mx16								
	Hynix 900MHz	H5TQ2G63BFR-11C	PD 30K	PU 5K	PD 35K	PU 45K	PD 35K	PU 5K	PD 5K	PD 10K
		128Mx16								

9/27
from 15K to 5K

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				Date	Friday, January 08, 2012
				Sheet	31 of 58
				Rev	0.6
				LA-8131P	

LCD POWER CIRCUIT

LCD POWER CIRCUIT

LCD POWER CIRCUIT

LCD/LED PANEL Conn.

PN:SP01000XE00

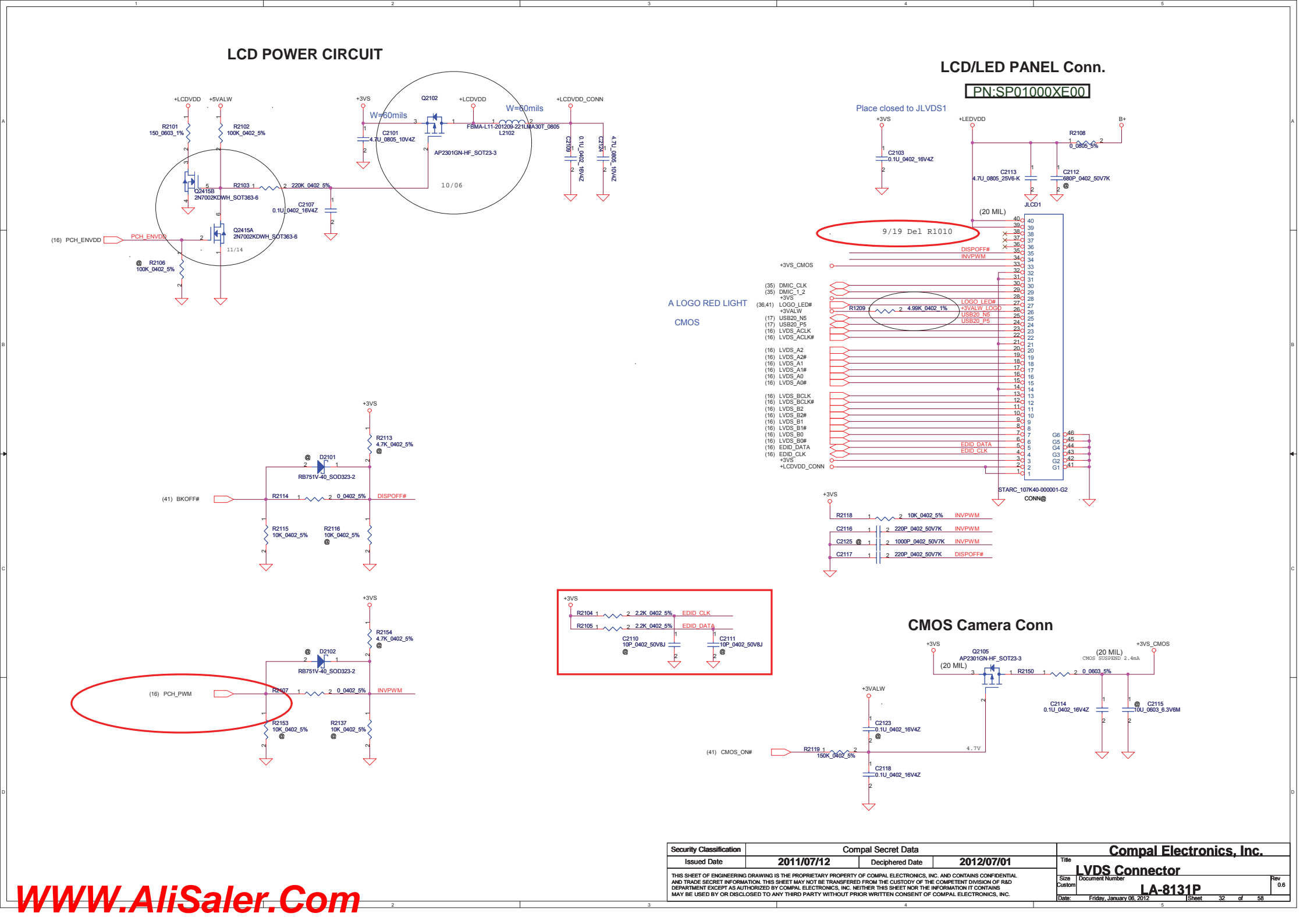
Place closed to JLVDS1

CMOS Camera Conn

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Date:	Friday, January 08, 2012	Sheet	32 of 58	Rev	0.6

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LCD POWER CIRCUIT



LCD POWER CIRCUIT

A LOGO RED LIGHT
CMOS

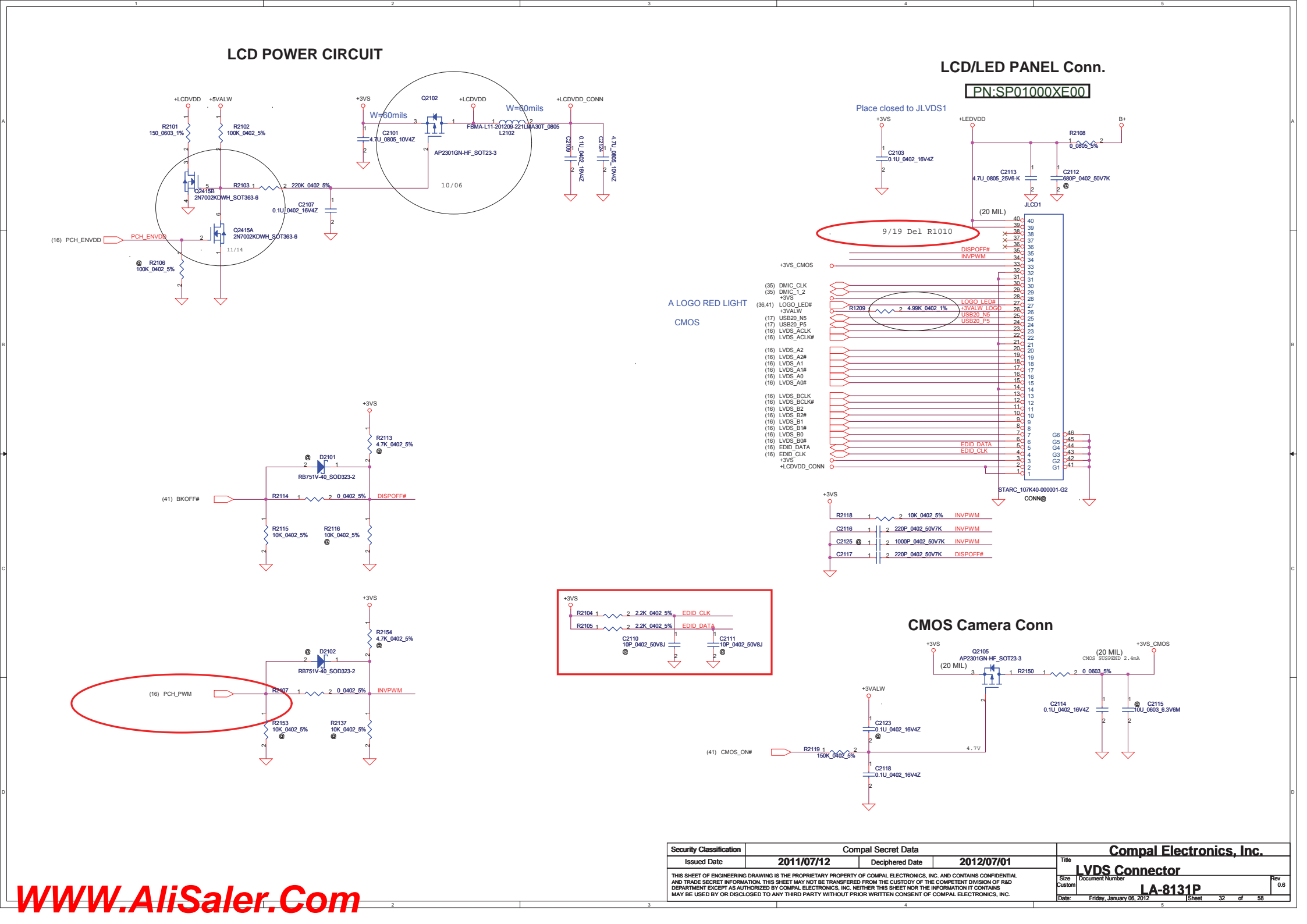
LCD/LED PANEL Conn.

PN:SP01000XE00

CMOS Camera Conn

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				Custom	LA-8131P
				Date	Friday, January 08, 2012
				Sheet	32 of 58
				Rev	0.6

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LCD POWER CIRCUIT

A LOGO RED LIGHT
CMOS

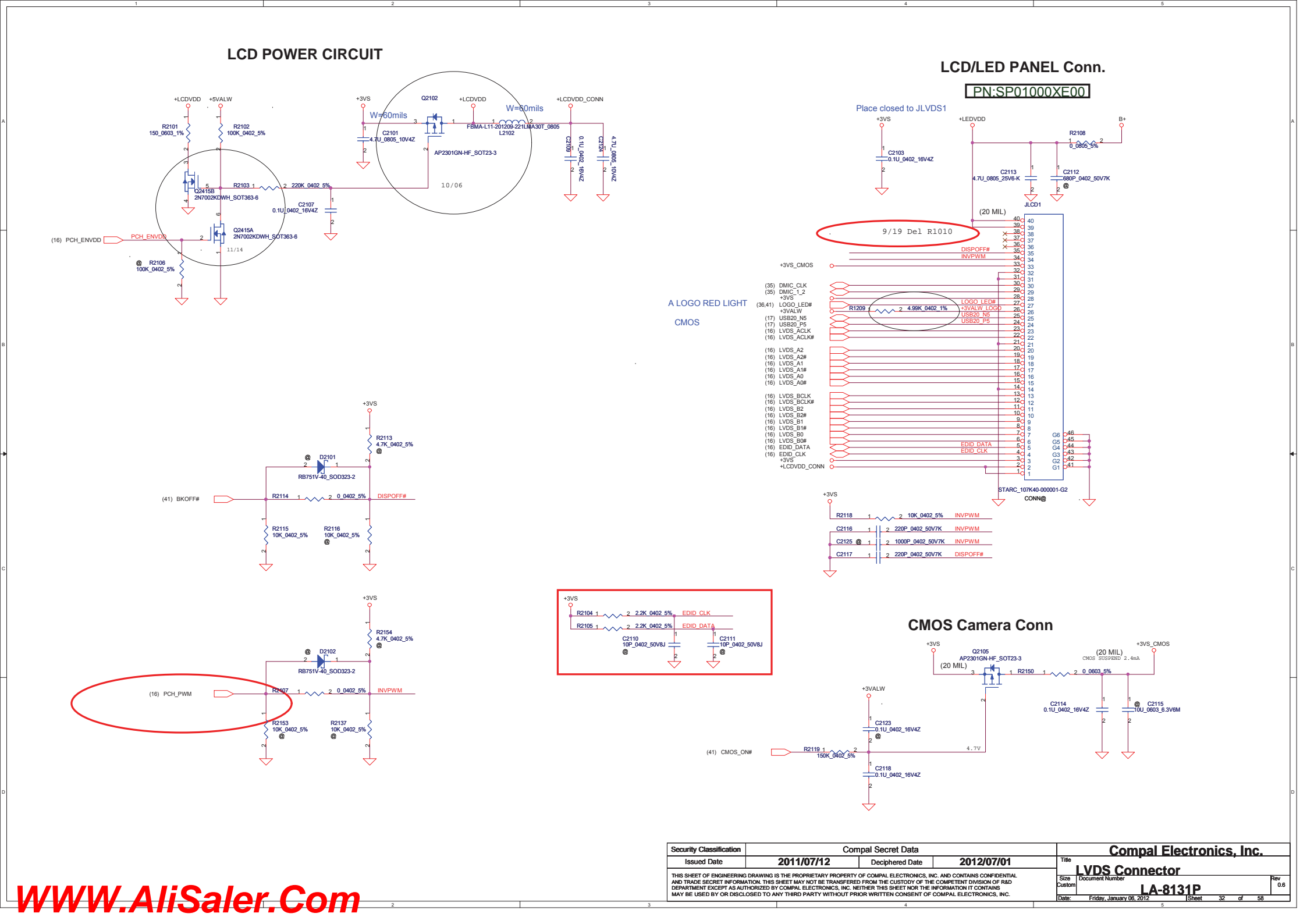
LCD/LED PANEL Conn.

PN:SP01000XE00

CMOS Camera Conn

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LCD POWER CIRCUIT

A LOGO RED LIGHT
CMOS

LCD/LED PANEL Conn.

PN:SP01000XE00

CMOS Camera Conn

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				Date	Friday, January 08, 2012
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				Rev	0.6

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(16) DAC_RED
(16) DAC_GRN
(16) DAC_BLU

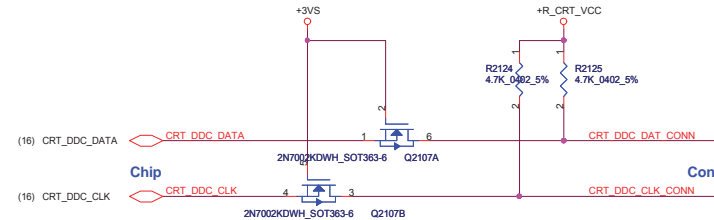
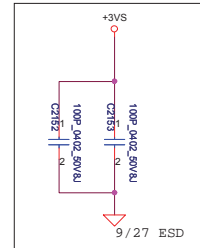
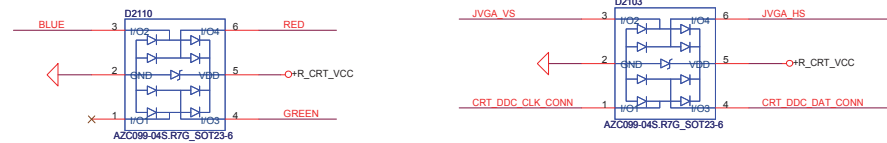
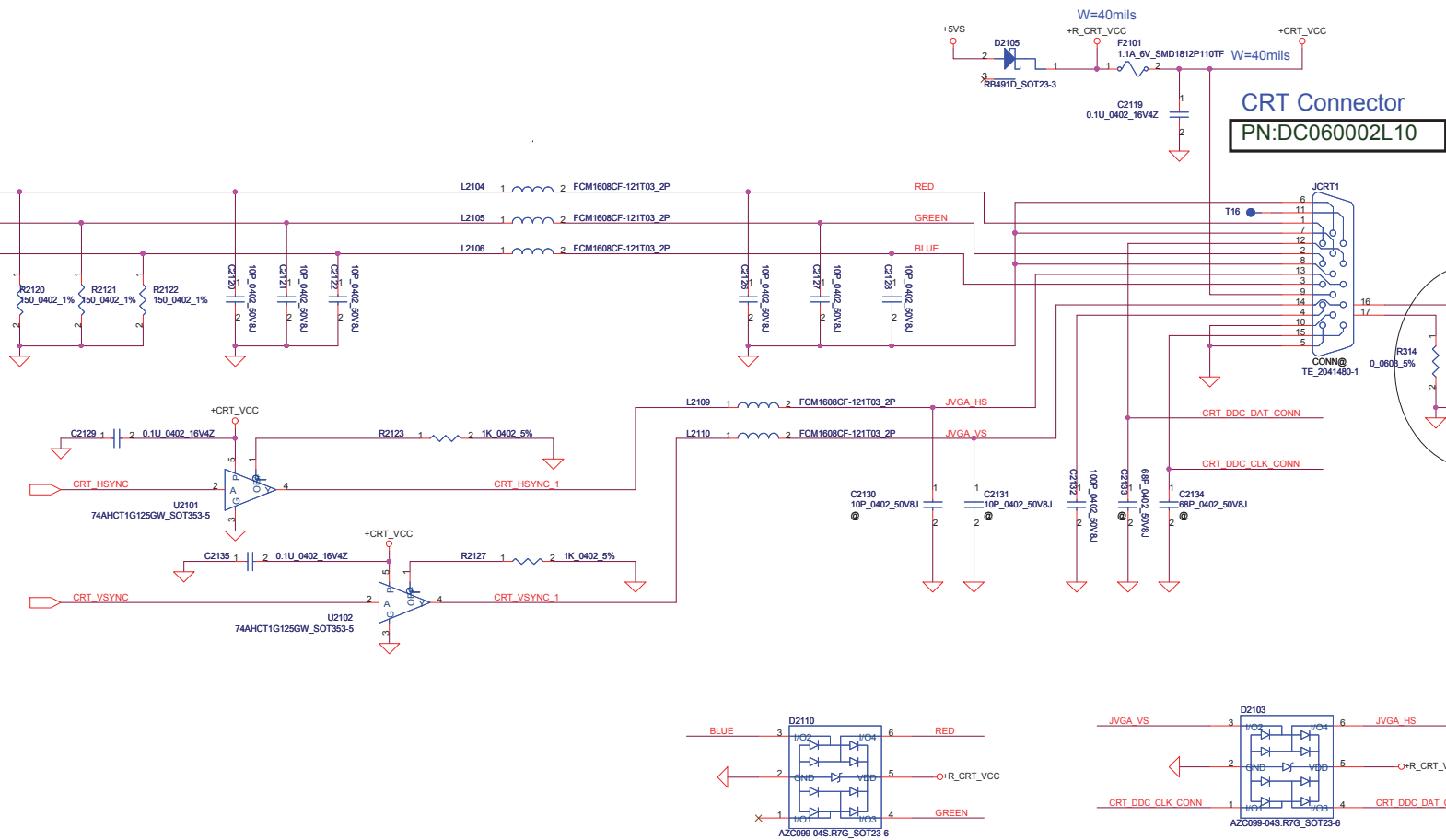
DAC_RED
DAC_GRN
DAC_BLU

(16) CRT_HSYNC

CRT_HSYNC

(16) CRT_VSYNC

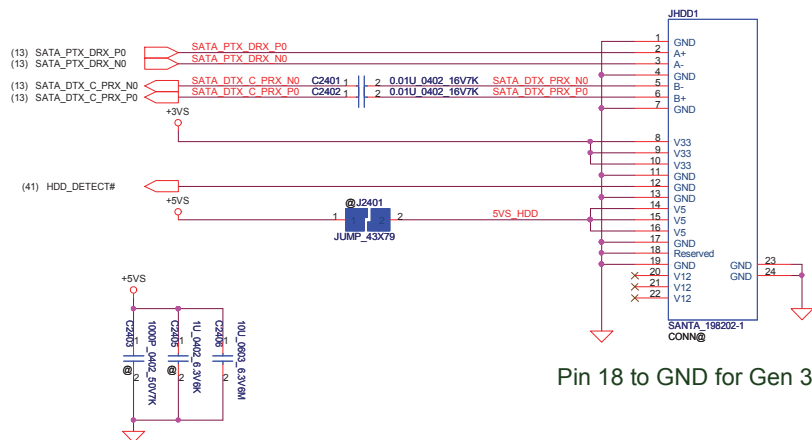
CRT_VSYNC



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				Document Number	LA-8131P
				Date	Tuesday, January 10, 2012
				Sheet	33 of 58
				Rev	0.6

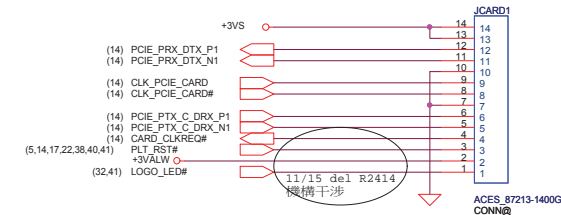
SATA HDD CONN.

PN:DC010004C00



Card Reader CONN.

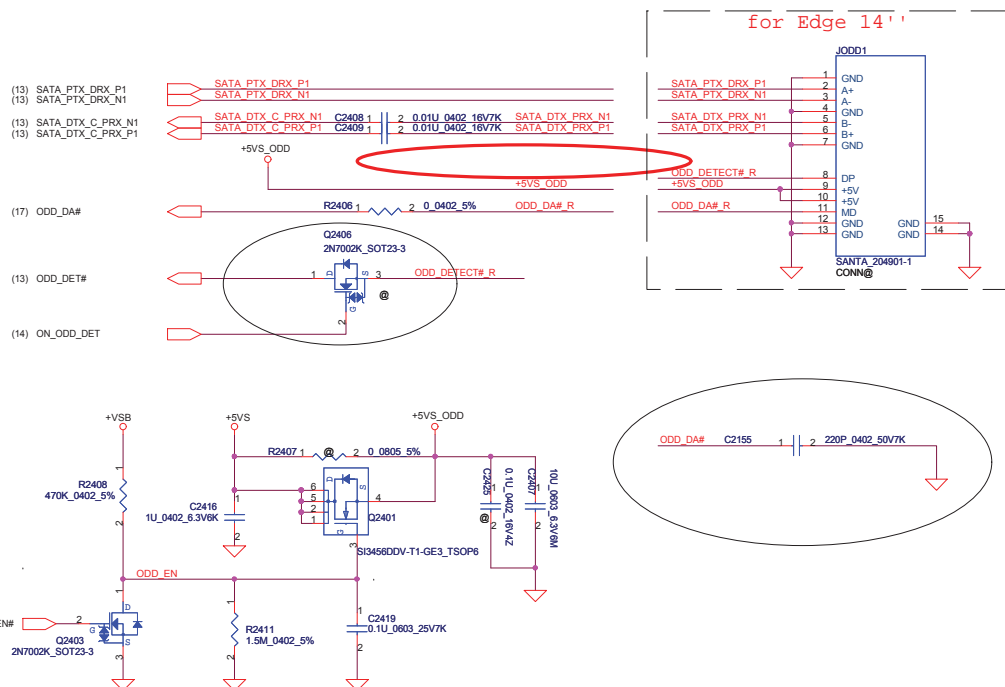
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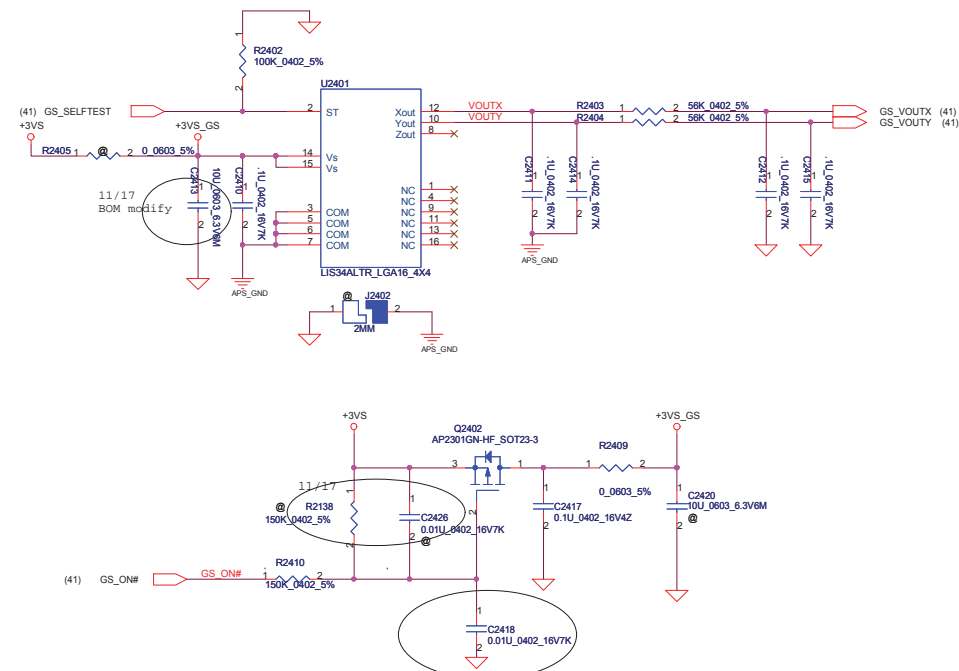
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change PN to SP02000H810
footprint: ACES_87213-1400G_14P

SATA ODD CONN.

PN:SP01000TU10



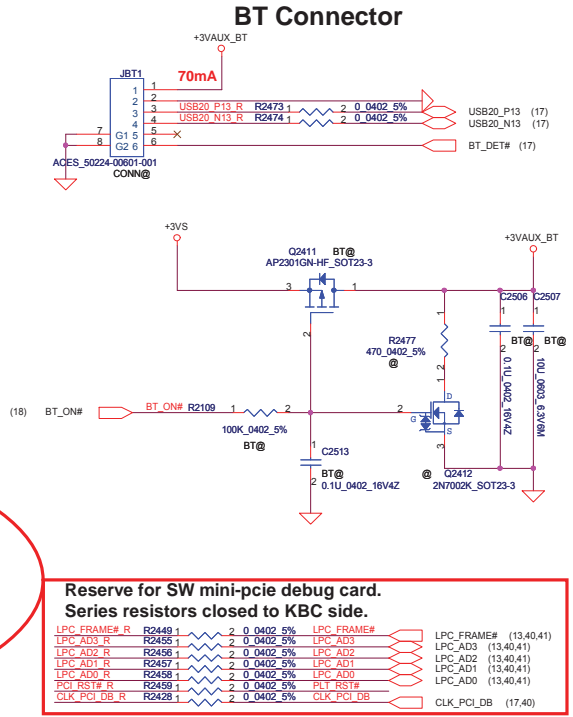
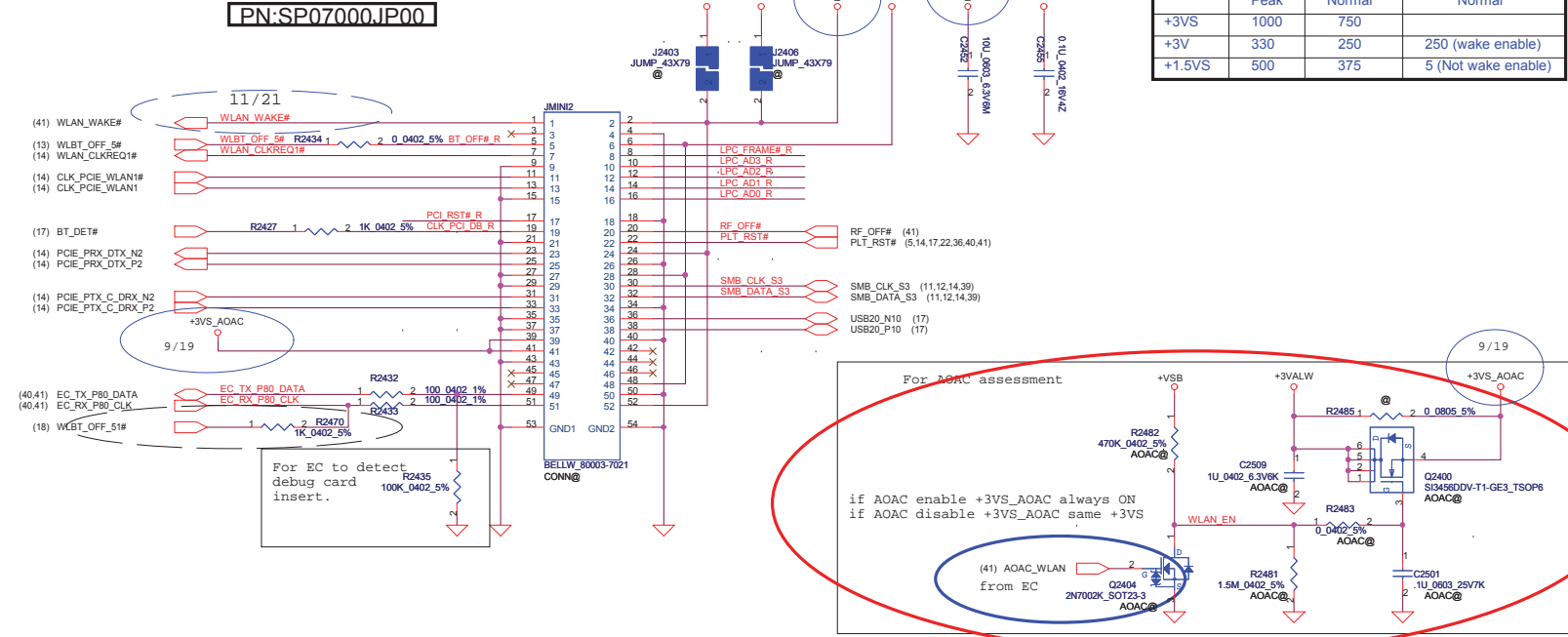
APS G-Sensor



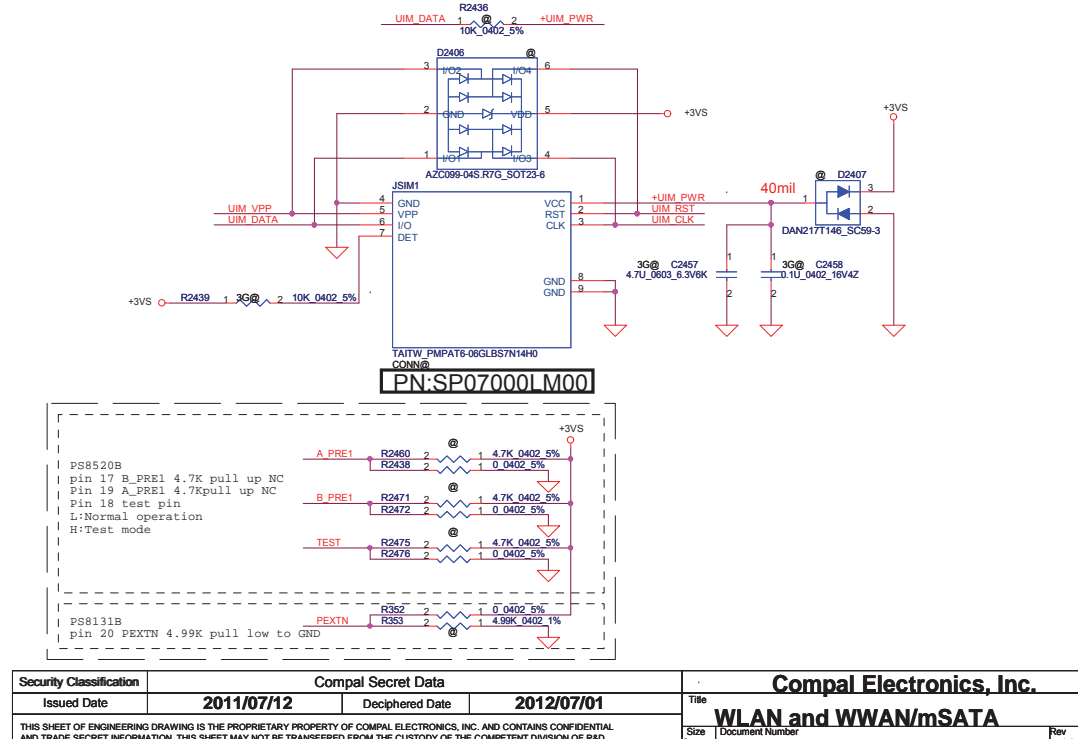
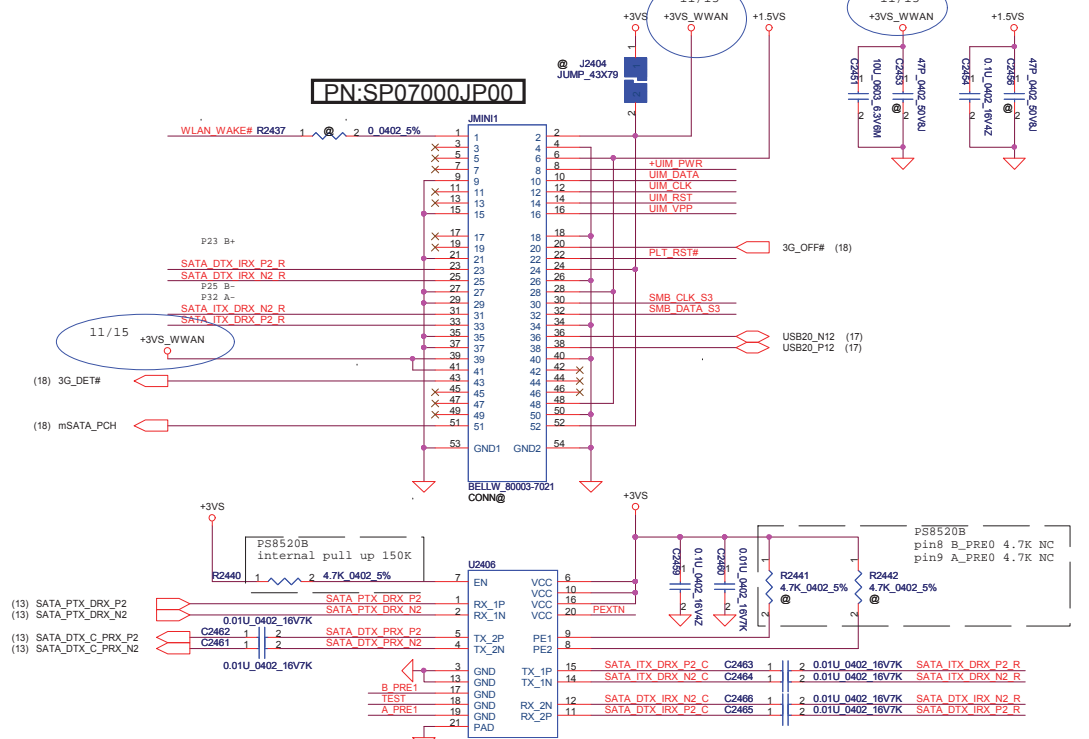
Security Classification		Compal Secret Data		Compal Electronics, Inc.	
Issued Date	2011/07/12	Deciphered Date	2012/07/01	Title	HDD/ODD/Card reader/G-Sensor
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Mini-Express Card for WLAN/WiMAX(Half)

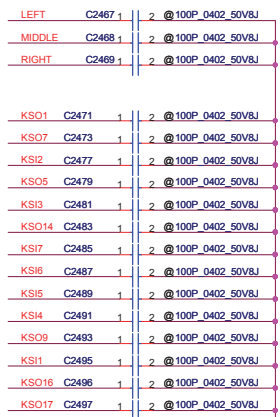
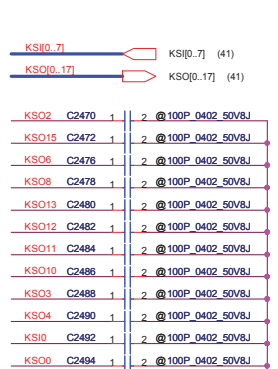
Mini-Express Card(WLAN/WiMAX)



Mini-Express Card for WWAN/mSATA(Full)

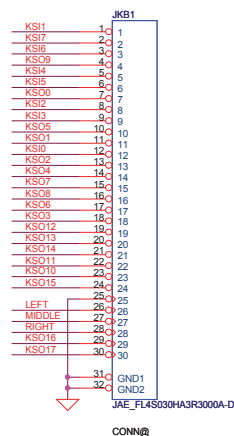


INT_KBD Conn.



M1(Left BUTTON)
M2(Center BUTTON)
M3(Right BUTTON)

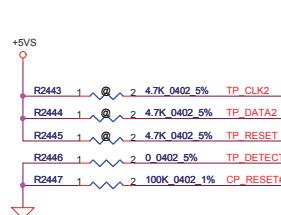
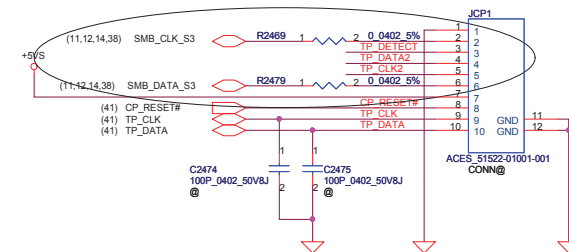
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CONN@

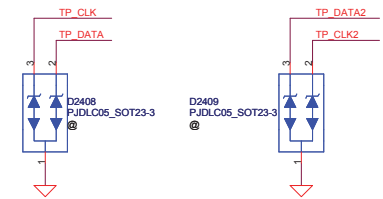
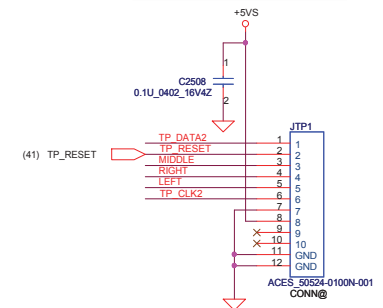
Click pad

PN:SP01001AL00



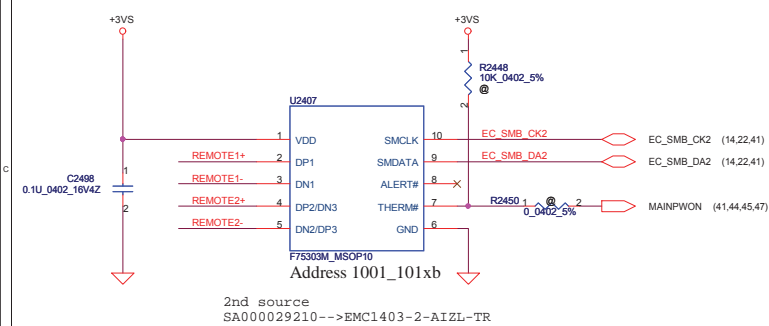
Track point

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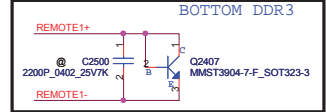
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Fintek thermal sensor placed near by TOP DDR3

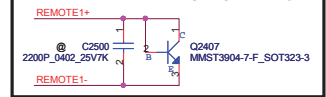


2nd source
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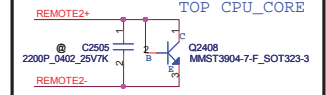
Close U2407



BOTTOM DDR3

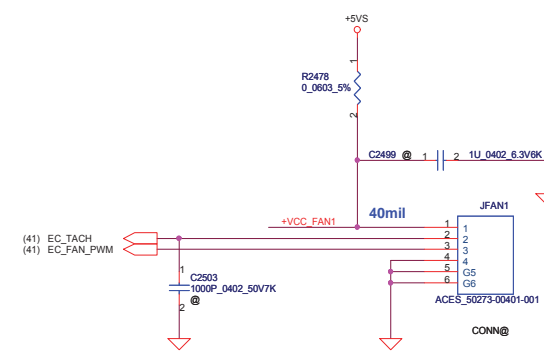


TOP CPU_CORE



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

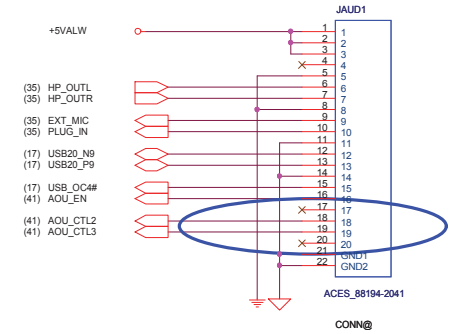
FAN CONN.



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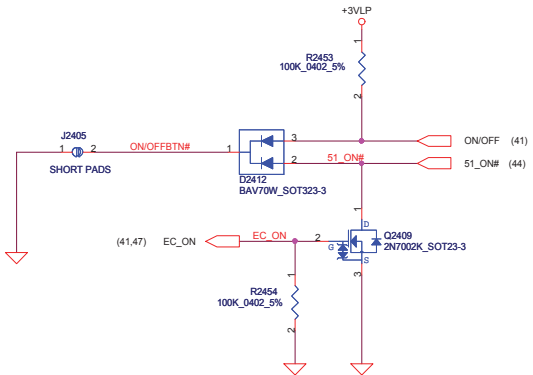
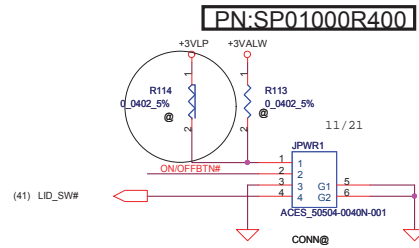
Audio Board

PN:SP011108040

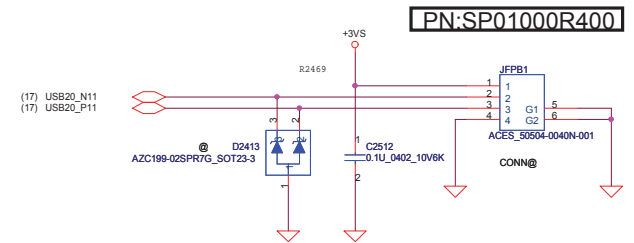


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				LA-8131P	

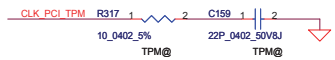
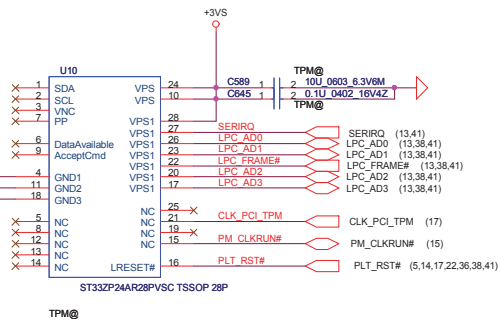
Power Button

**Power Button CONN.**

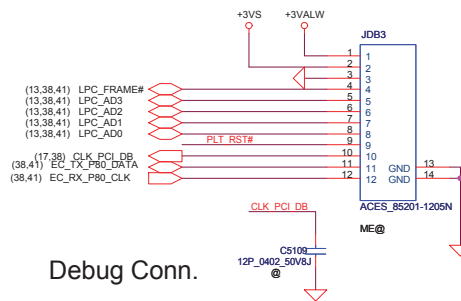
Finger Print Board



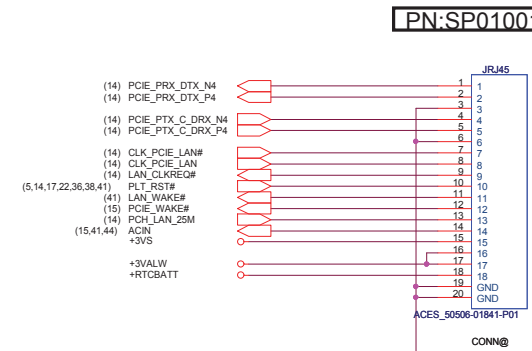
TPM



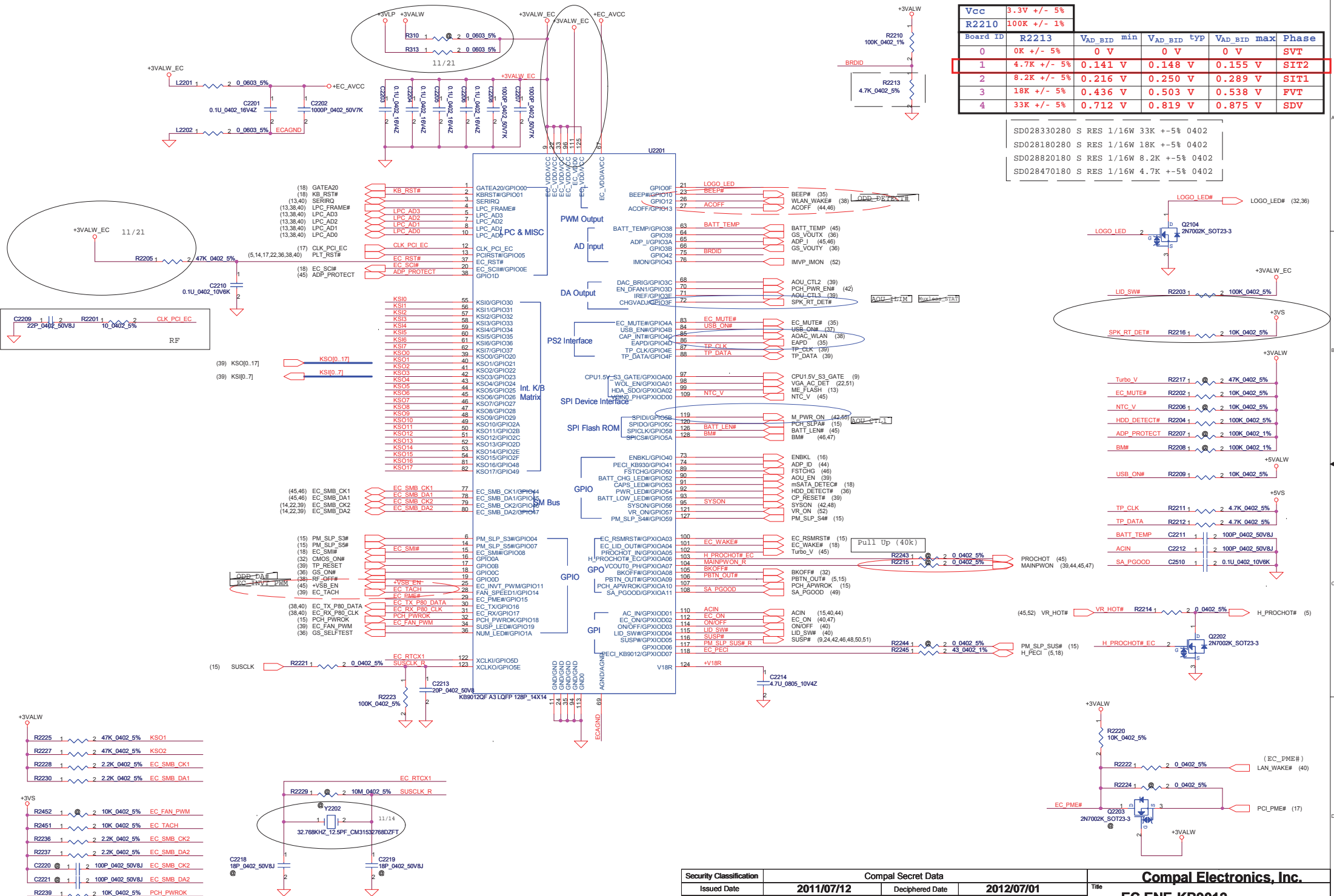
Debug Conn.



RJ45 Board

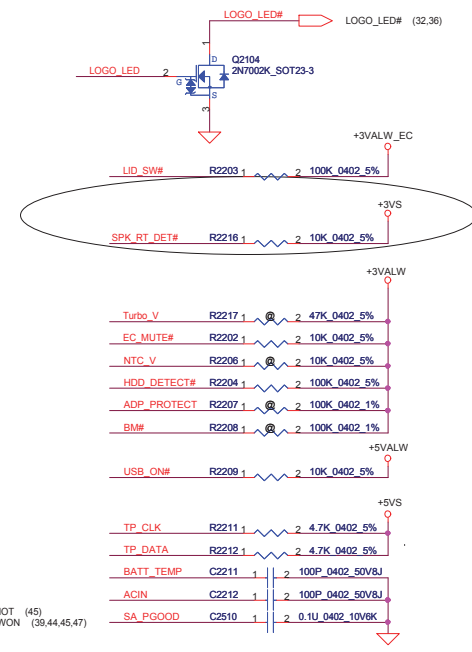


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				Custom	LA-8131P	
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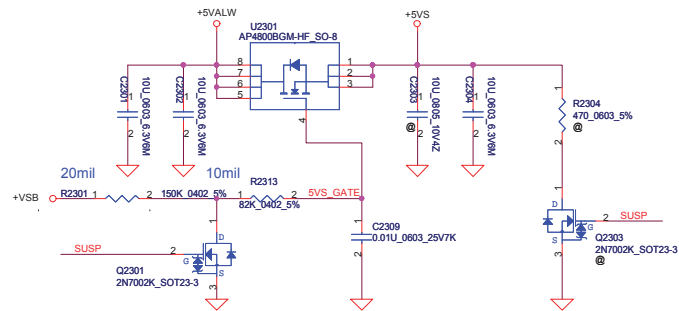
Vcc	3.3V +/- 5%				
R2210	100K +/- 1%				
Board ID	R2213	V _{AD_BID} min	V _{AD_BID} typ	V _{AD_BID} max	Phase
0	0K +/- 5%	0 V	0 V	0 V	SVT
1	4.7K +/- 5%	0.141 V	0.148 V	0.155 V	SIT2
2	8.2K +/- 5%	0.216 V	0.250 V	0.289 V	SIT1
3	18K +/- 5%	0.436 V	0.503 V	0.538 V	FVT
4	33K +/- 5%	0.712 V	0.819 V	0.875 V	SDV

SD028330280 S RES 1/16W 33K +-5% 0402
SD028180280 S RES 1/16W 18K +-5% 0402
SD028820180 S RES 1/16W 8.2K +-5% 0402
SD028470180 S RES 1/16W 4.7K +-5% 0402

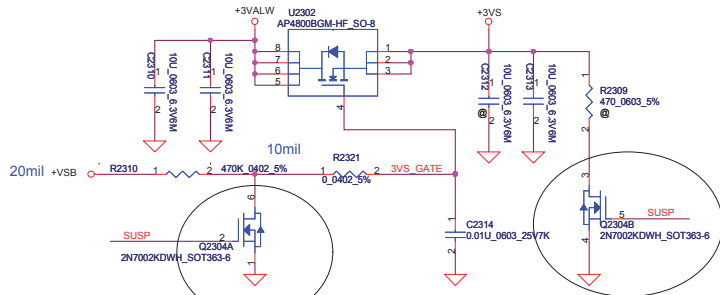


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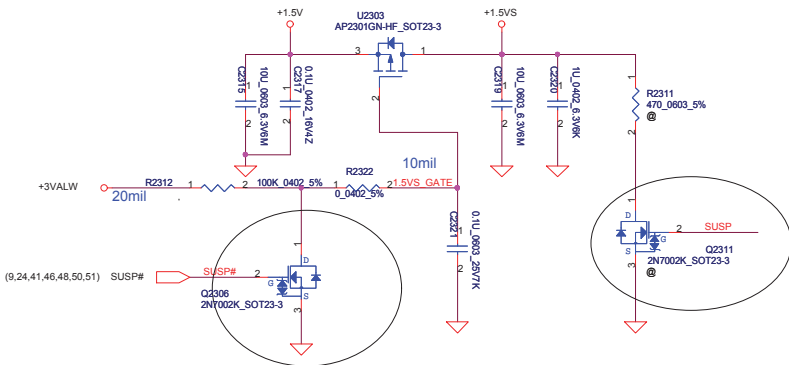
+5VALW TO +5VS



+3VALW TO +3VS

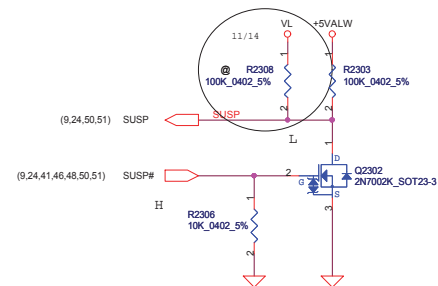
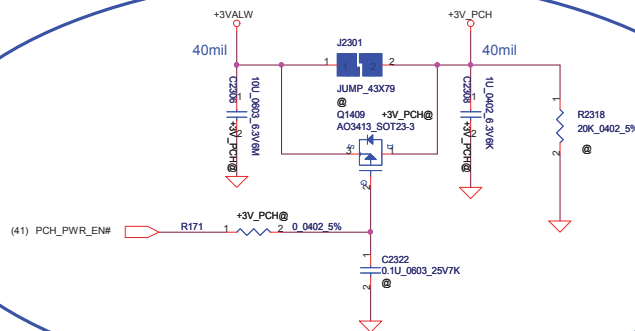


+1.5V to +1.5VS

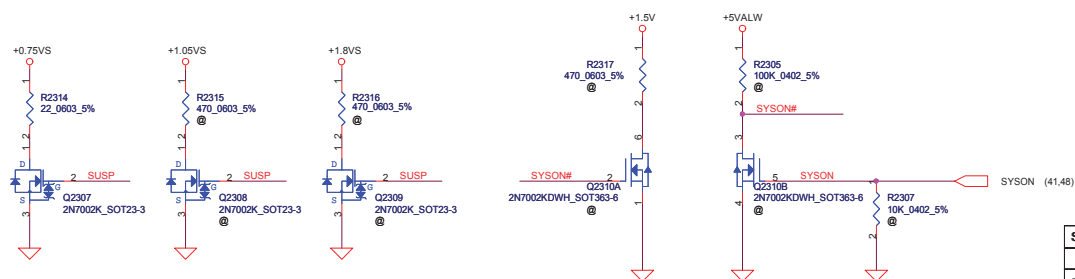
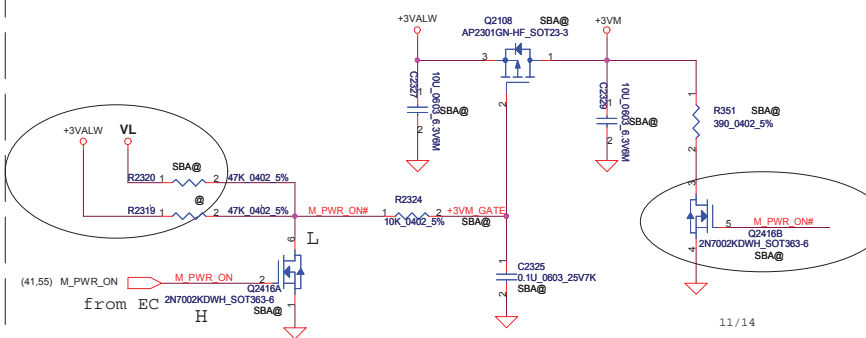


+3VALW TO +3VALW(PCH AUX Power)

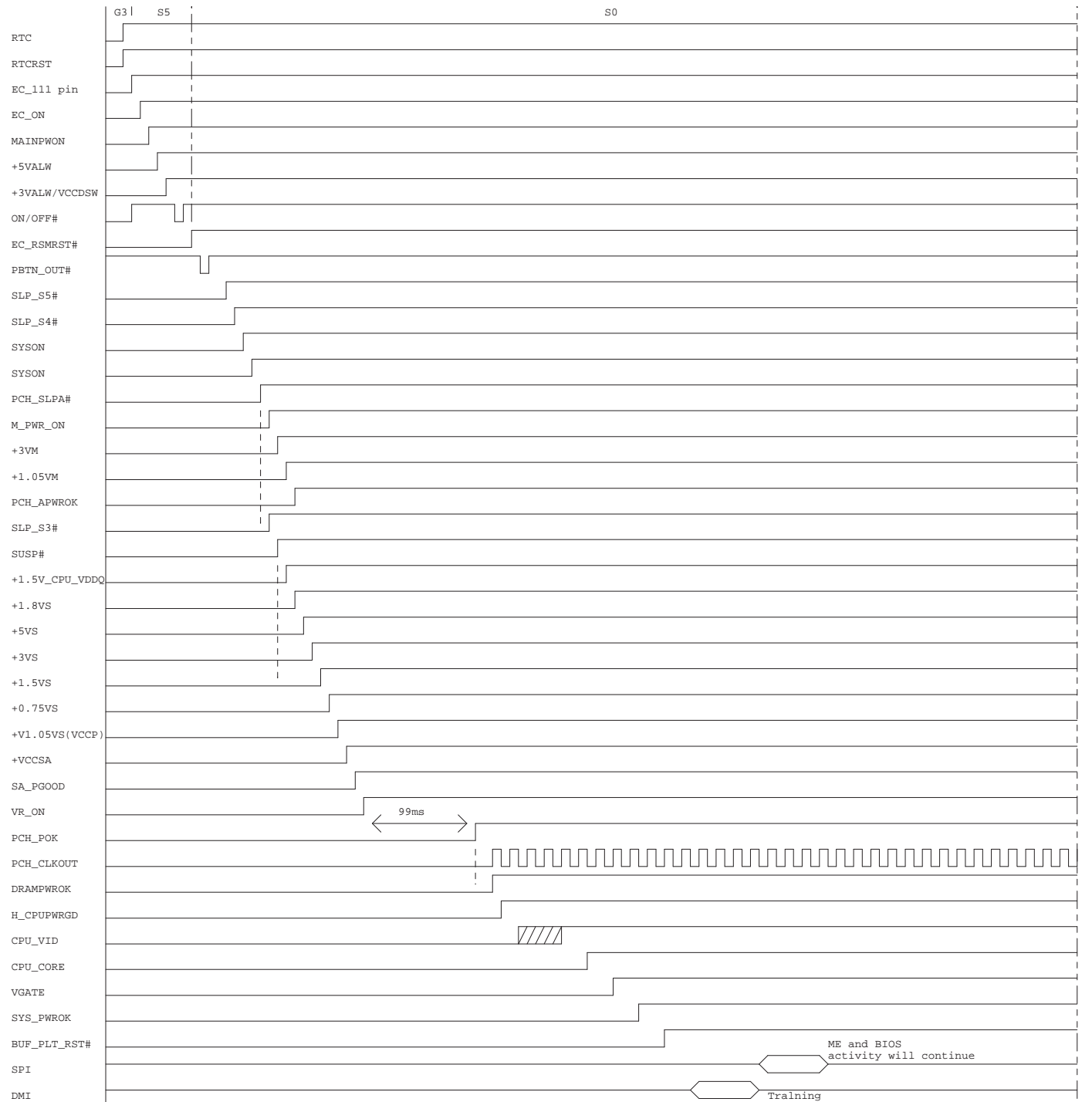
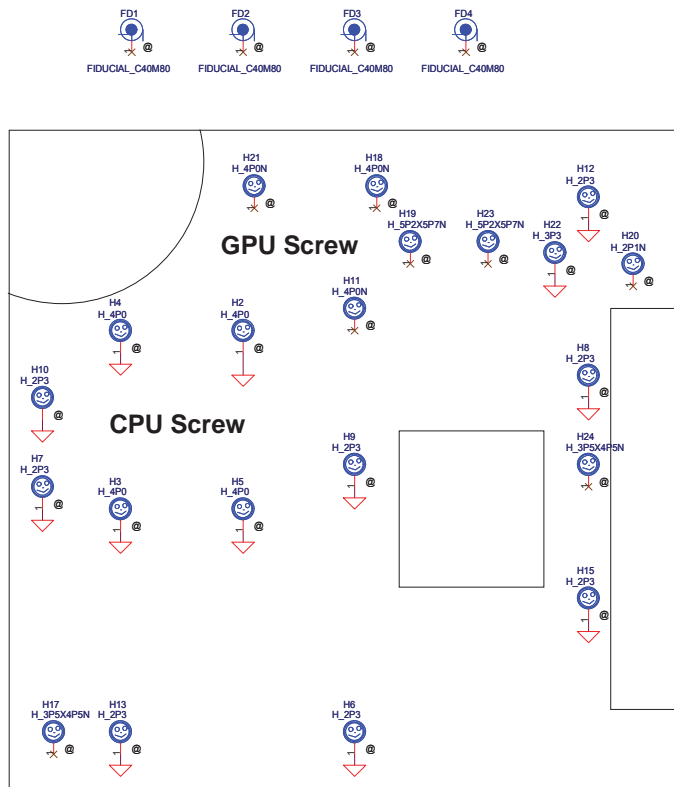
Short J2301 for PCH VCCSUS3.3



FOR SBA Function POWER(always mount)



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Screw Hole

LA-8131P

Rev 0.6

ME and BIOS activity will continue

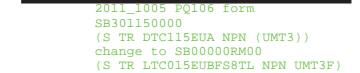
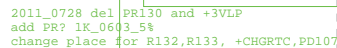
Training

99ms

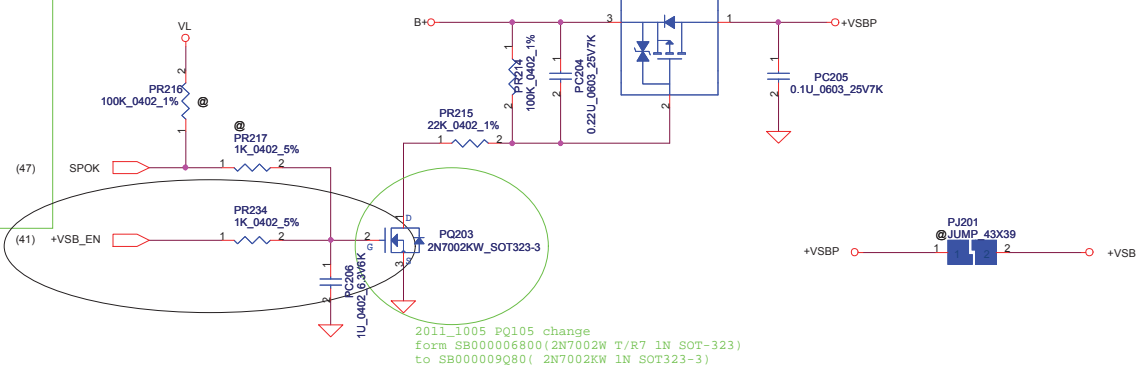
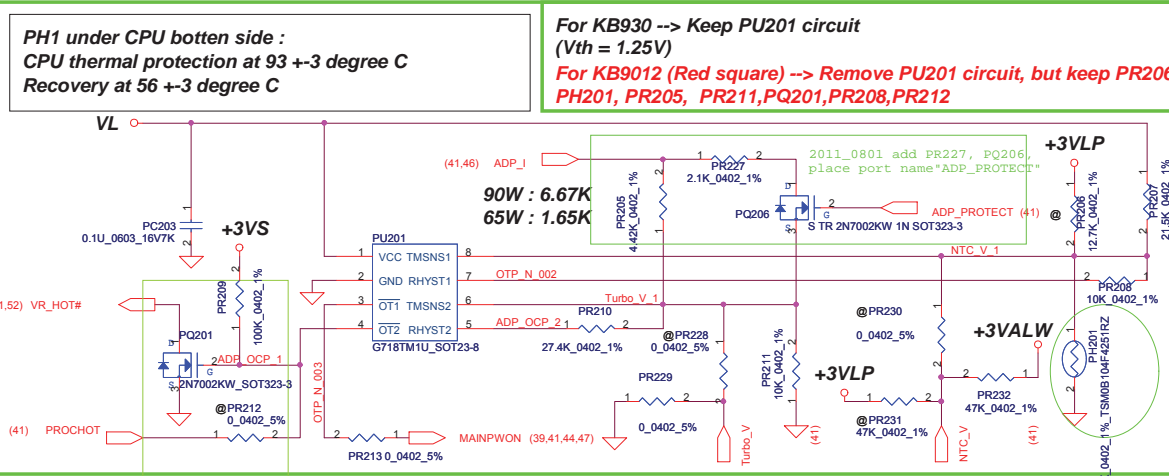
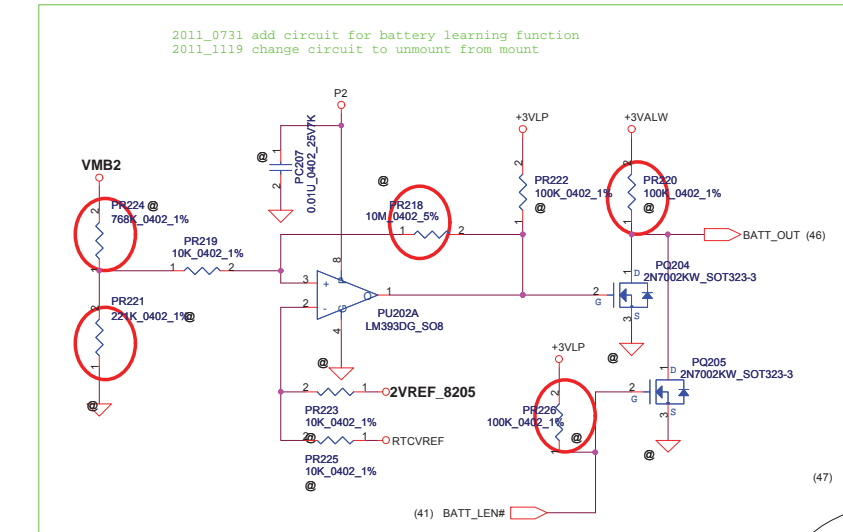
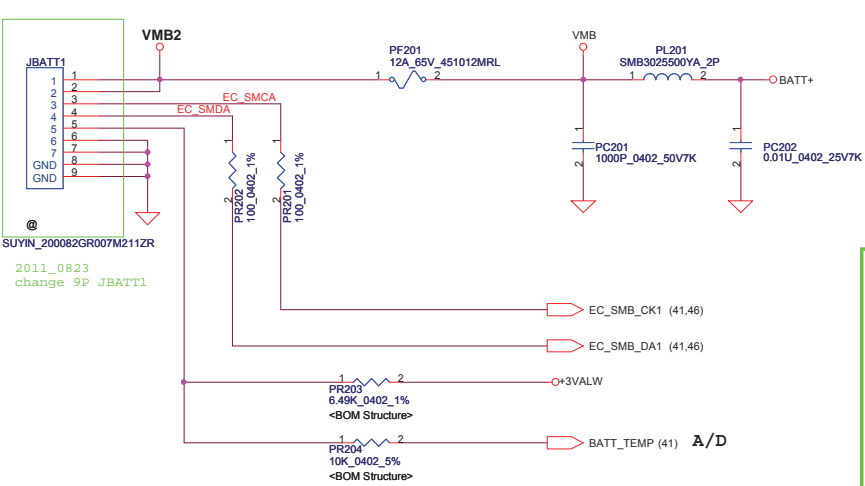
///



Vin Detector			
	Min.	typ.	Max.
L-->H	17.430V	17.901V	18.384V
H-->L	16.976V	17.262V	17.728V

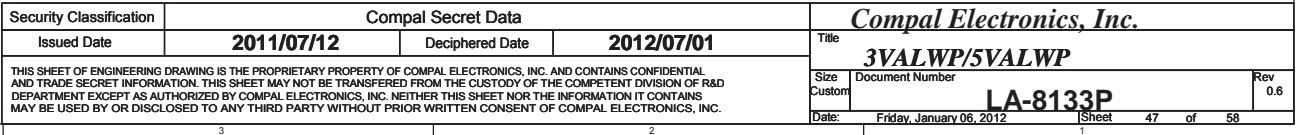


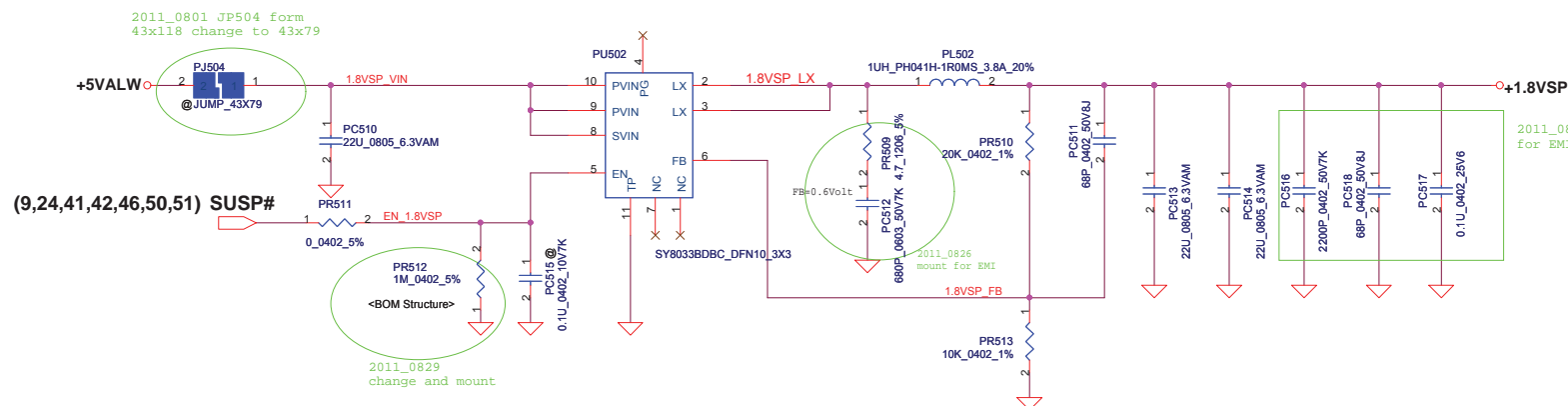
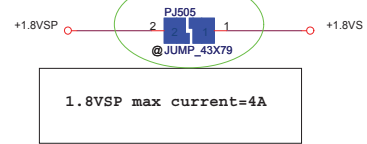
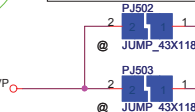
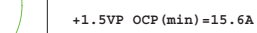
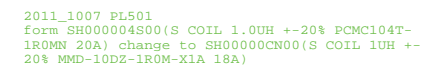
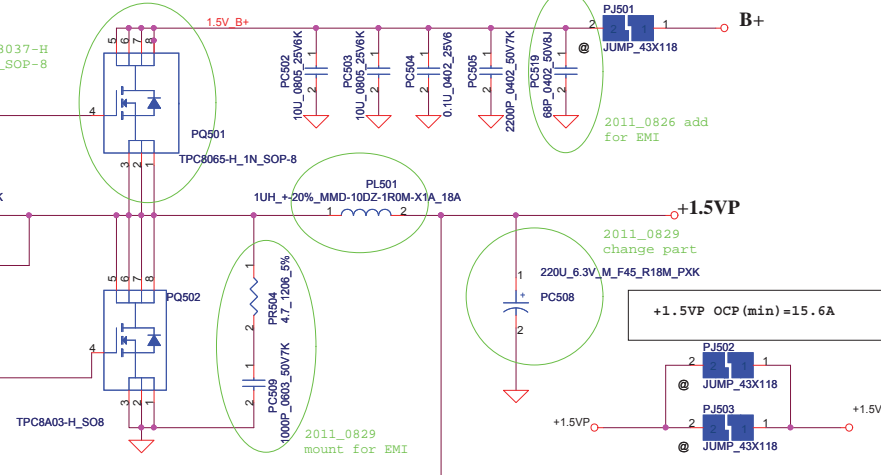
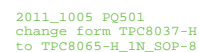
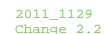
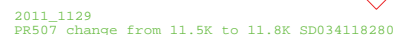
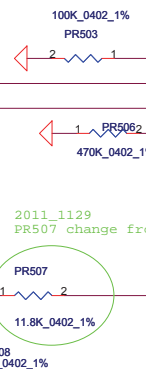
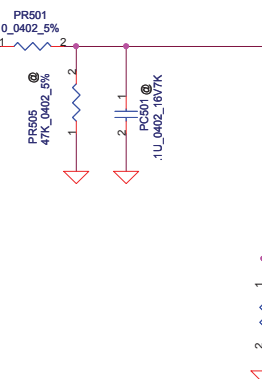
Compal Electronics, Inc.			
Title PWR DCIN / Vin Detector /Pre-charge			
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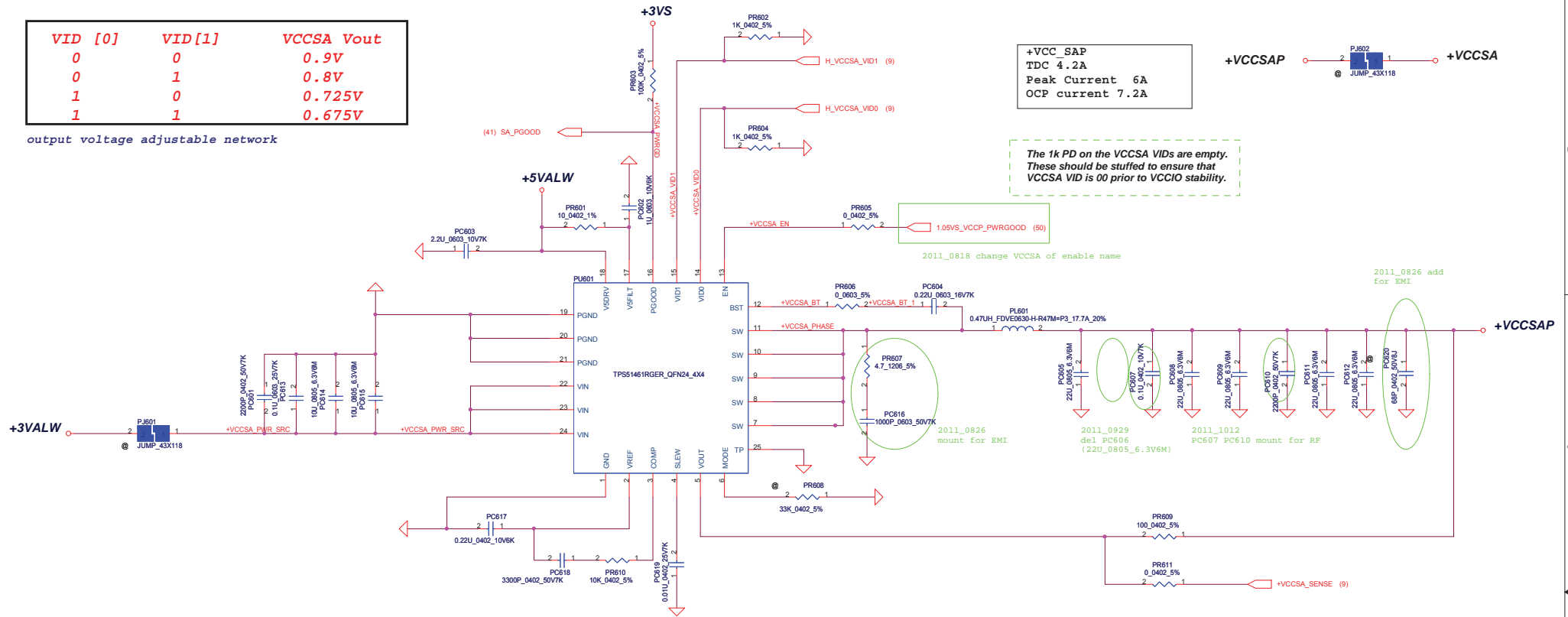


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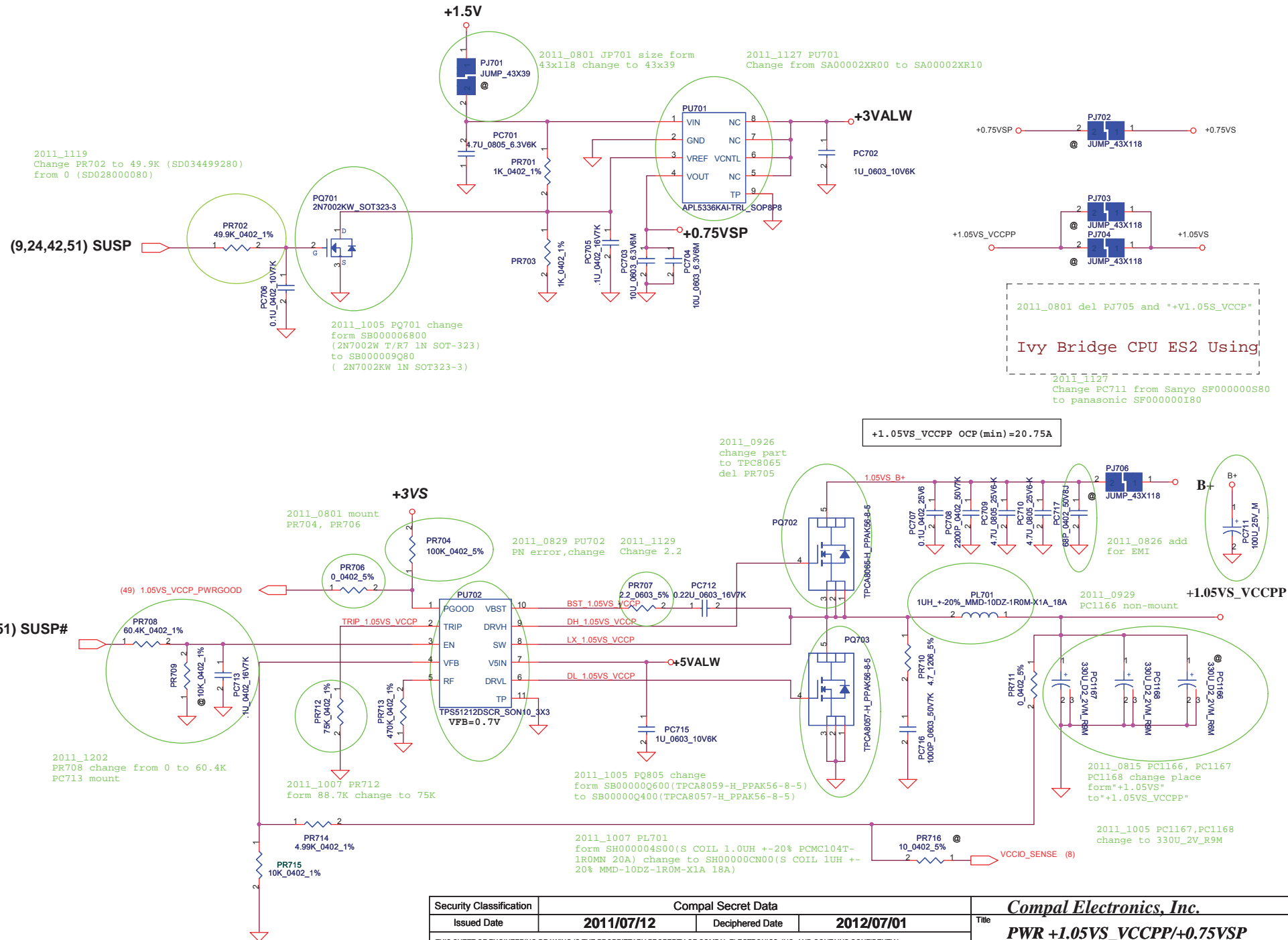
VID [0]	VID[1]	VCCSA Vout
0	0	0.9V
0	1	0.8V
1	0	0.725V
1	1	0.675V

output voltage adjustable network

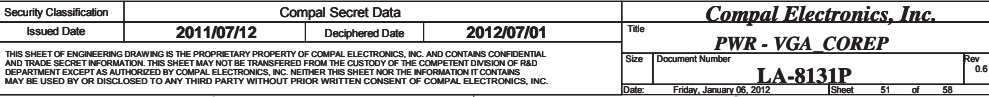


2011_0801 del +V1.05S_VCCPP circuit

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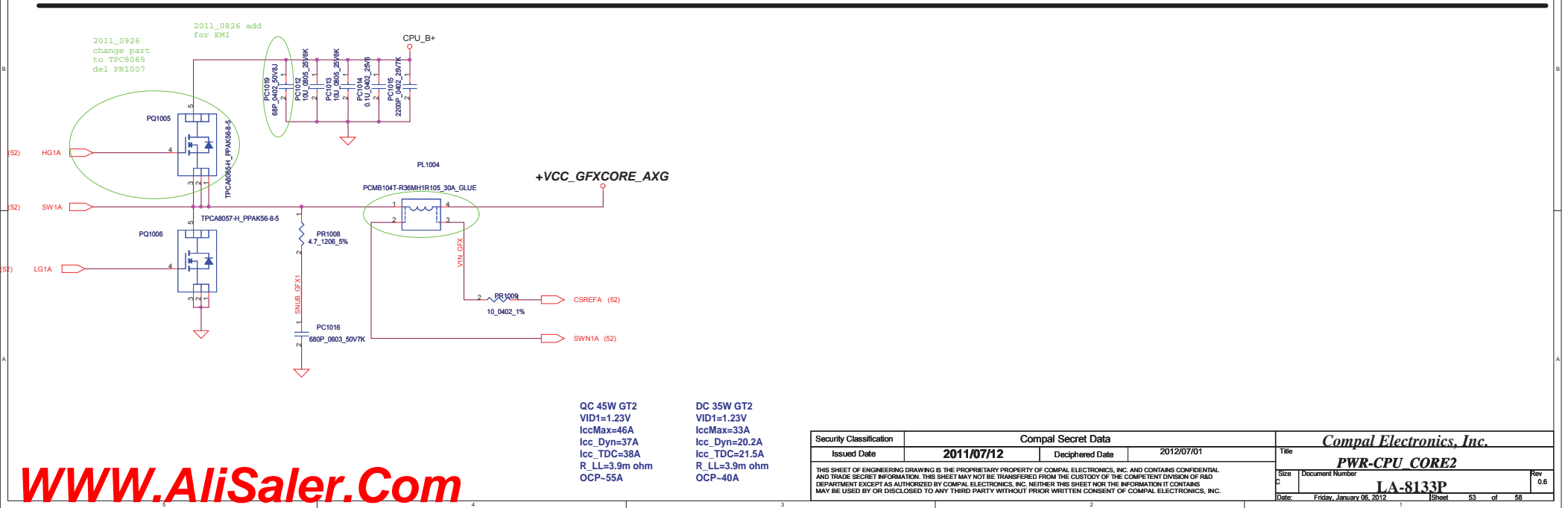
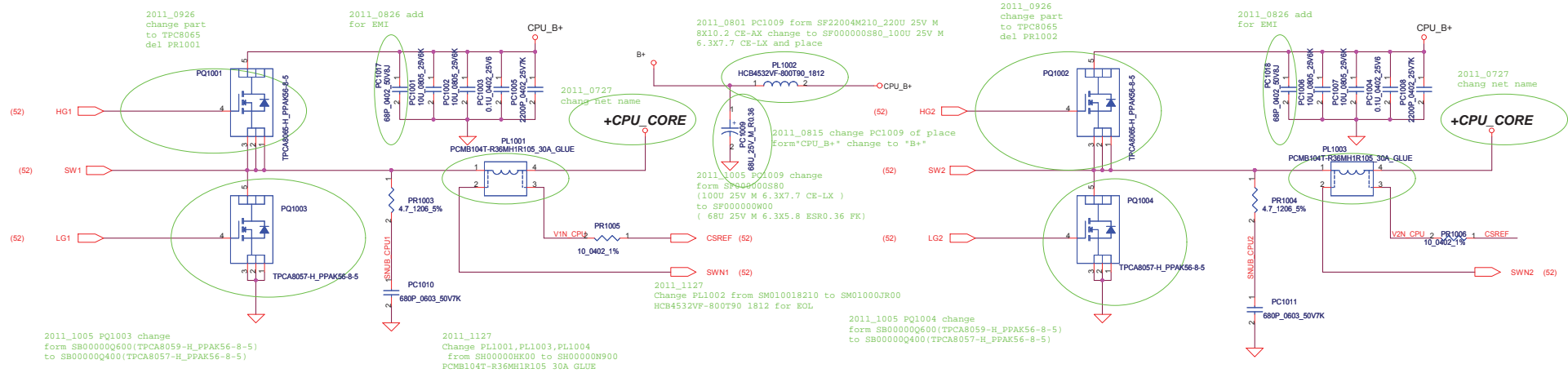
2011_0830
PC901, PC905, PR901, PR903, PR904 mount

2011_1119
Change PC901, PC905 to 0.033u (SE076333K80)
from 0.033u (SE076333KN0)

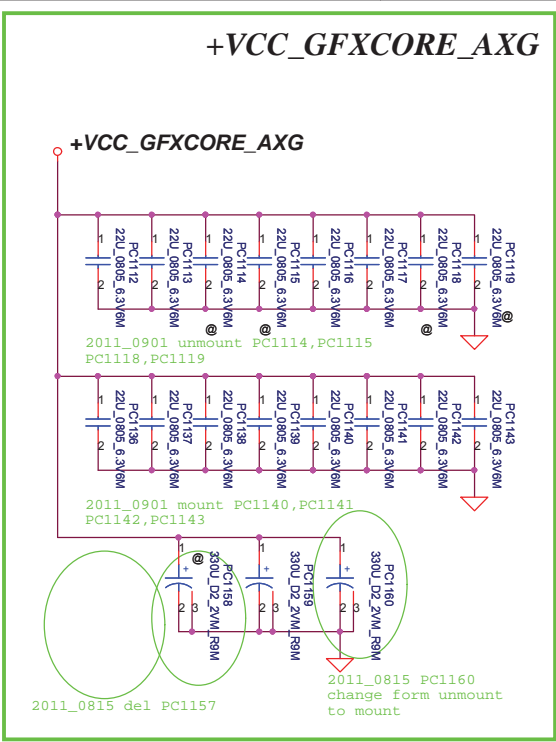
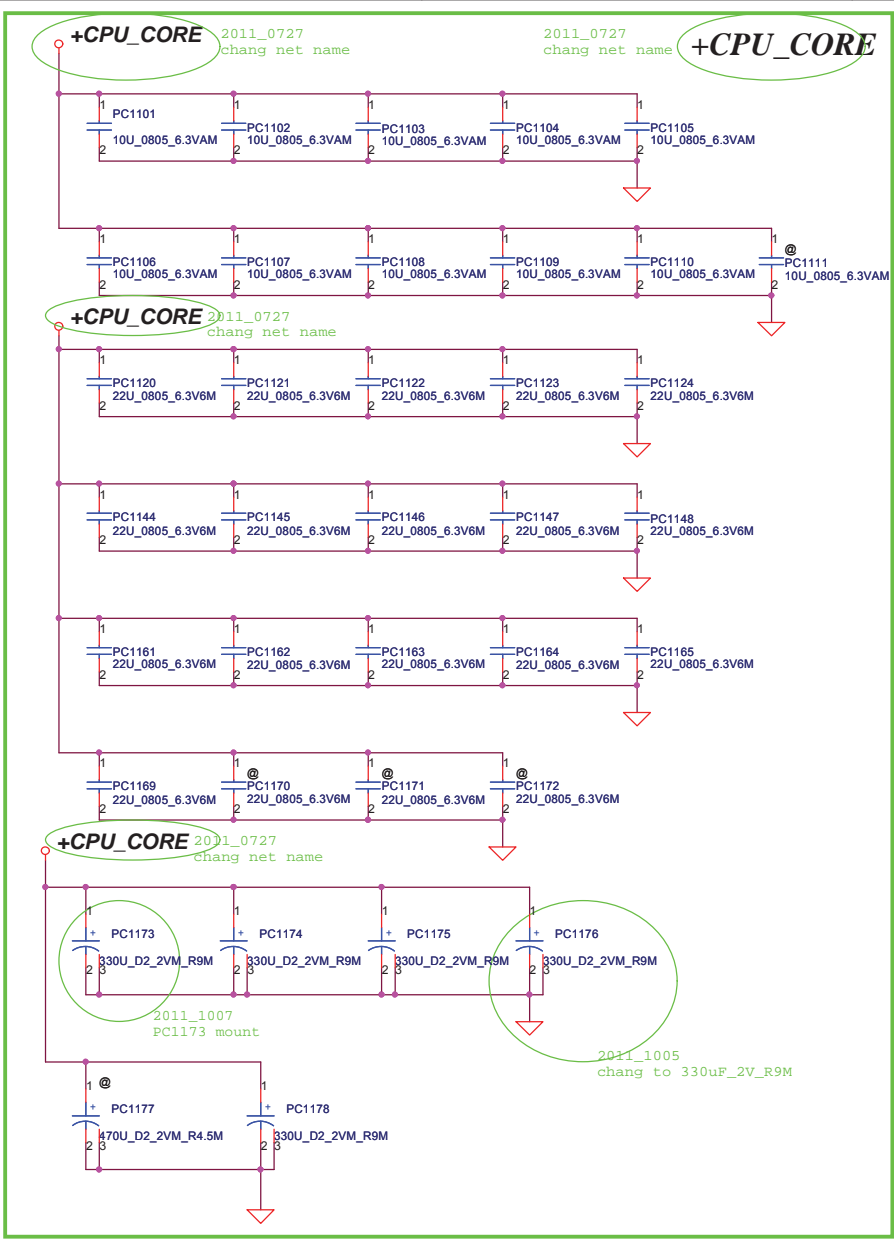
2011_0829
PC909
change part

1. modify PR903 form 1.21K to 8.2K,
2. PC905 form 4700p to 33n,
3. PC901 form 680p to 33n,
4. PR904 form 10.7K to 806,
5. PC907 form 330p to 560p
6. PC909 form 3300p to 1500p
7. PC904 form 330p to 820p
8. PR911 form 63.4K to 66.5K
9. PR942 form 4.32K to 6.04K
10. PC927 form 3300p to 2200p
11. PC934 330p to 820p

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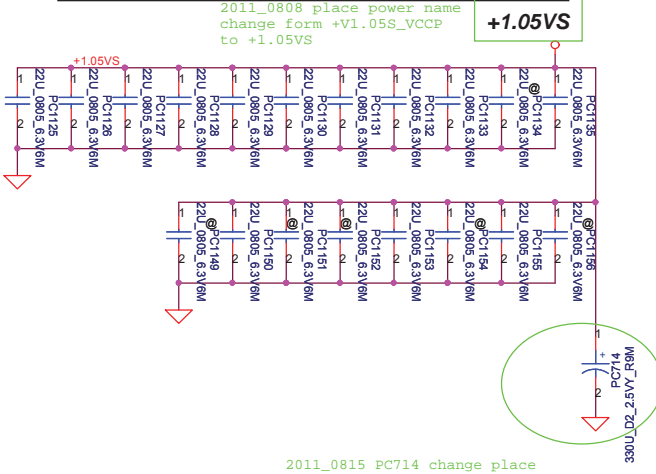


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Below is 458544_CRV_PDDG_0.5 Table 5-8.

Socket Bottom	5 x 22 μ F (0805) 5 x (0805) no-stuff sites
Socket Top	7 x 22 μ F (0805) 2 x (0805) no-stuff sites

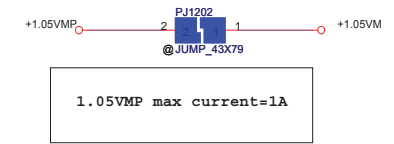
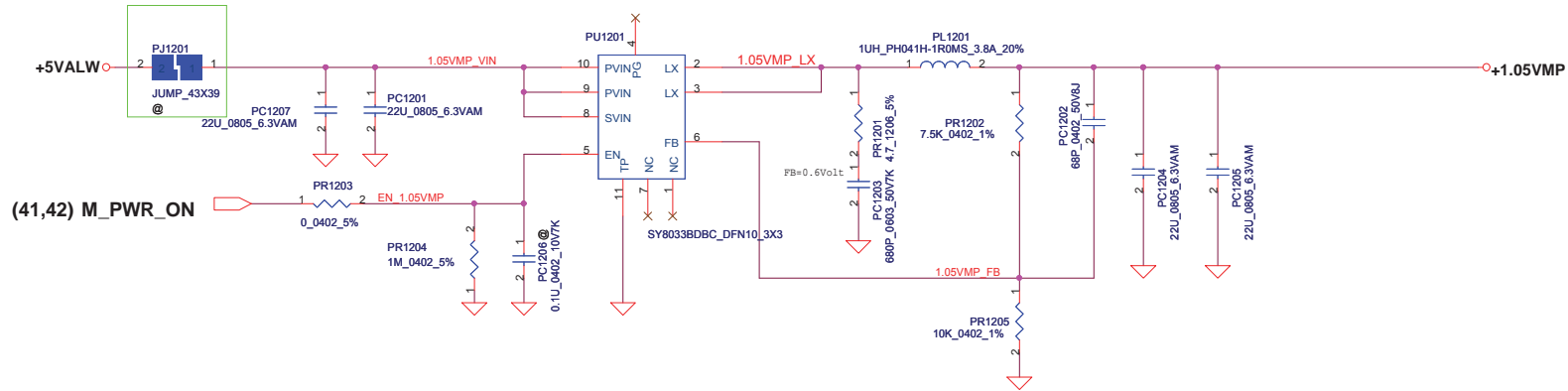


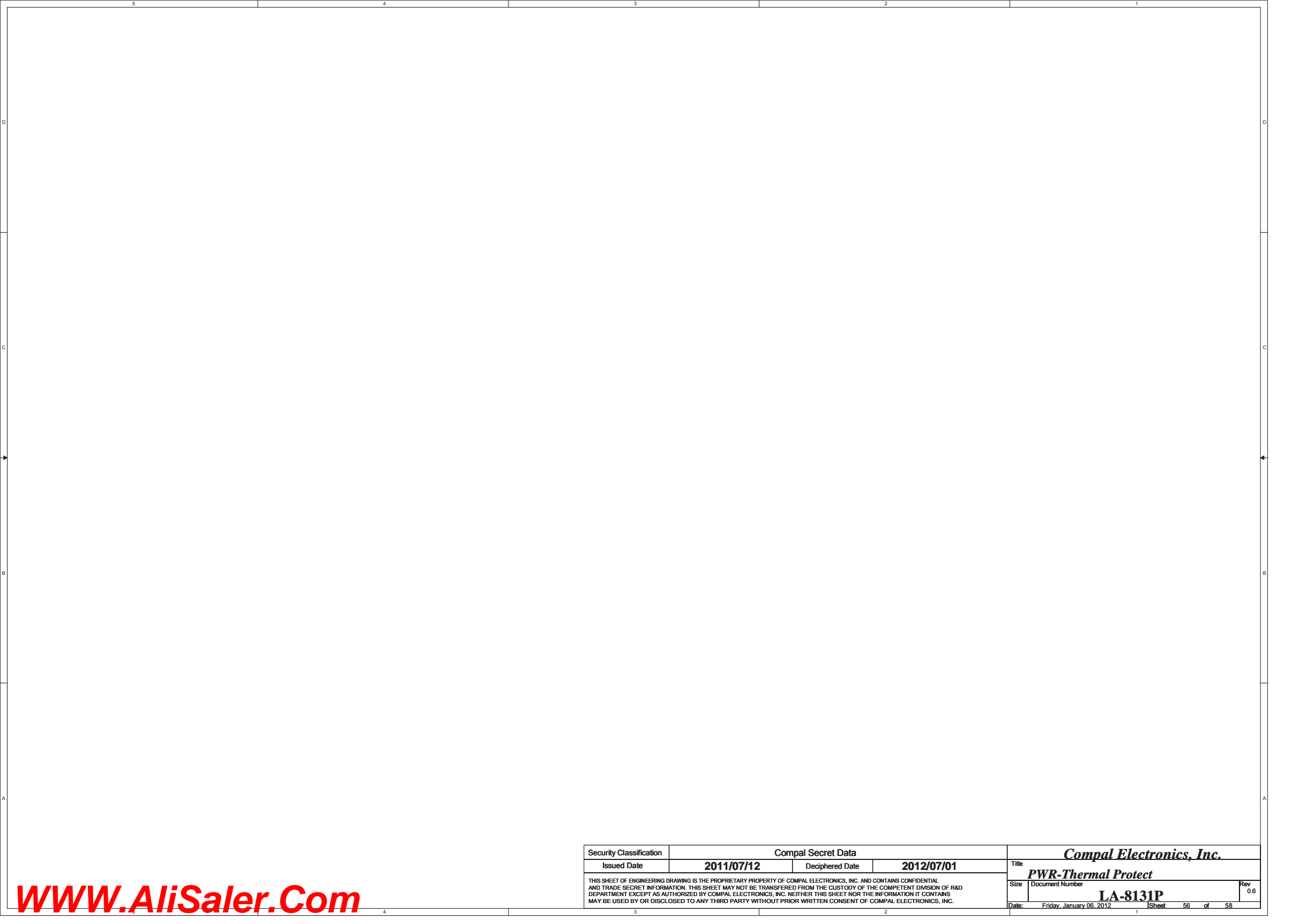
2011_0815 PC714 change place form "+1.05VS_VCCPP" to "+1.05VS"

2011_1005 PC714 change to 330uF_2V_R9M

2011_1007 PC714 form SGA00001Q802 (S POLY C 330U 2V M X LESR6M SX H1.9) change to SGA00002680 (330U_D2_2.5VY_R9M)

2011_0923 JUMP form 43X79 change to 43X79





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Version change list (P.I.R. List)

Item	Reason for change	PG#	Modify List	Date	Phase
1					
2					
3					
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5					
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8					
9					
10					
11					
12					
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14					
15					
16					
17					

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Version Change List (P.I.R. List)

Phase	Date	No.	BOM	Sch	Layout	Description	function
	2011/09/13	No1		V	V	Add C2325,C2326,C2327,C2328,C2329,R2319,R2324,Q2312	Add SBA function (+3VM) power
	2011/09/15	No2		V		Del Q2305	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_SLP#) 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	V			mount PC832	
	2011/09/15	No8		V	V	Add R2482,Q2404,C2509,R2481,R2485,Q2400,R2483,C2501	AOAC Function
	2011/09/15	No9		V	V	change net name BT_OFF# to BT_ON# and change PCH EN GPIO from GPIO34 to GPIO36 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
	2011/09/19	No11		V	V	change +3VS_WLAN net name to +3VS_AOAC 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	No14		V	V	Add R2470 for 80 port function	80 port function
	2011/09/19	No15		V	V	Del R2476 Add Q2405	BT Function
	2011/09/20	No16		V	V	Add power schematic 9/15 again modify RF PC423, PC425, PC519, PC620, PC717, PC893, PC874, PC424, PC518, PC1017, PC1018, PC1019, PC422, PC516, PC517 modify POWER在VGA的PWM IC 加的零件PR869, PR870	
	2011/09/22	No17		V	V	Add U10,C589,C645 for TPM function	TPM function
	2011/09/22	No18		V	V	Add R110,R112 for SPI POWER choose(SBA function)	
	2011/09/23	No19		V	V	modify power page 44-57(PJ1201 JUMP form 43X79 change to 43X79)	
	2011/09/26	No20		V	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 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		V	V	change PCH_GPIO24(R288) pull up to +3V_PCH	
	2011/09/26	No22		V		change P18 (R311,R330,R286,R329) for UMA and Optimus memon	
	2011/09/26	No23		V		change net name PCH_THRMTRIP#_R to VGA_THRMTRIP#	
	2011/09/26	No24		V	V	PQ702 change to TPC8065,Del PR705 PQ1001,PQ1002,PQ1005 change to TPC8065,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 @)	
	2011/09/27	No27	V			modify EC Board ID R2213 to 18K	
	2011/09/27	No28		V	V	net name CX_GPIO0 connect to U1101 pin 38	
	2011/09/27	No29		V	V	Add C2152,C2153,D2113 for ESD	
	2011/09/27	No30		V	V	change NVIDIA N13W ROM_SCLK from 15K PU to 5K PU	
	2011/09/27	No31		V	V	change ESD part D2401,D2403,D2405 power from +5VALW to +USB VCCA	
	2011/09/27	No32		V	V	Add C2108 for GPU_CLKREQA	
	2011/09/27	No33				Add Q2406 , modify R2401,Change PCH_GPIO19 to ODD_DET#,for zero power ODD	
	2011/09/27	No34				change WLBT_OFF# to PCH_GPIO34	
	2011/09/27	No35				change PCH_GPIO34 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	
	2011/09/29	No39				Add CONN JDB3 fo debug	
	2011/09/29	No40				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 PR827 mount change to @(non-mount) PR839 for 47Kohm change to 147Kohm PR103 for 0ohm change to 270ohm PC1166 non-mount,PC1173 non-mount,PC1158 non-mount	
	2011/09/29	No43					
	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) Add PR954,PR955	
	2011/09/29	No45				Add H16,H27 change Q2304,Q2305 to Q2304 modify PTH H11,H18 ,H21 Del T10 for SUS_STAT(SLP_S3# 走不出来)	
	2011/10/04	No46				reserve R352,R353 for SATA re-drive PS-8131B change net name from WLBT_OFF to WLBT_OFF_5# 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 change 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 SB0000007H10. change JCARD1 PN to SP02000H810 footprint: ACES_87213-1400G_14P change some CONN part NO. for ME CONN list Add D2416	

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