# **COMPAL CONFIDENTIAL**

MODEL NAME: NCL01

PCB NO: LA-5472P ( DAA00001100)

# **E2** Rothschild DSC

rPGA Arrandale +
FCBGA PCH IBEXPEAK-M
+ N10M-NS-S

2010-01-20

REV: 1.0(A00)

@: Nopop Component

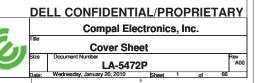
MD Turo	BOM P/N	PCMCIA	Express	TC	M	-	ГРМ		ATG	BOM CONFIG
MB Type	BOIN P/N	1@	2@	W(3@)	W/O(4@)	W(5@)	W/O(6@)	7@	8@ 9@	BOIVI CONFIG
EXPRESS CARD ,Enble TPM ,Disable TCM	43177831L01		*		*	*				2@,4@,5@
EXPRESS CARD ,Disable TPM ,Enble TCM	43177831L02		*	*			*			2@,3@,6@
EXPRESS CARD ,Disable TPM ,Disable TCM	43177831L03		*		*		*			2@,4@,6@
PCMCIA CARD ,Enble TPM ,Disable TCM	43177831L04	*			*	*				1@,4@,5@
PCMCIA CARD ,Disable TPM ,Enble TCM	43177831L05	*		*			*			1@,3@,6@
PCMCIA CARD ,Disable TPM ,Disable TCM	43177831L06	*			*		*			1@,4@,6@

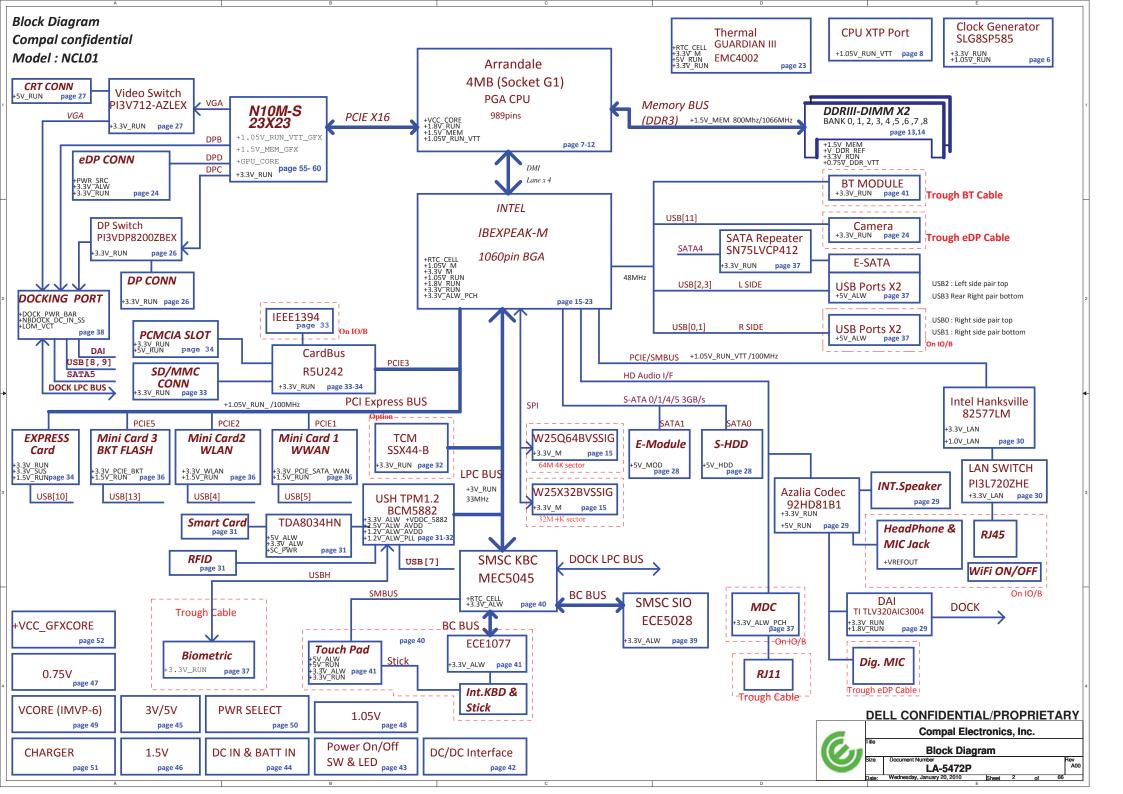
 MB PCB

 Part Number
 Description

 DAZ0AZ00100
 PCB NCL01 La-5472P Ls-5471P/5473P/5574P

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### **POWER STATES**

State	SLP S3#	SLP S4#	SLP S5#	S4 STATE#	SLP M#	ALWAYS PLANE	M PLANE	SUS PLANE	RUN PLANE	CLOCKS
S0 (Full ON) / M0	HIGH	HIGH	HIGH	HIGH	HIGH	ON	ON	ON	ON	ON
S3 (Suspend to RAM) / M1	LOW	HIGH	HIGH	HIGH	HIGH	ON	ON	ON	OFF	OFF
S4 (Suspend to DISK) / M1	LOW	LOW	HIGH	LOW	HIGH	ON	ON	OFF	OFF	OFF
S5 (SOFT OFF) / M1	LOW	LOW	LOW	LOW	HIGH	ON	ON	OFF	OFF	OFF
S3 (Suspend to RAM) / M-OFF	LOW	HIGH	HIGH	HIGH	LOW	ON	OFF	ON	OFF	OFF
S4 (Suspend to DISK) / M-OFF	LOW	LOW	HIGH	LOW	LOW	ON	OFF	OFF	OFF	OFF
S5 (SOFT OFF) / M-OFF	LOW	LOW	LOW	LOW	LOW	ON	OFF	OFF	OFF	OFF

## **PM TABLE**

power	+15V_ALW +5V_ALW +3.3V_ALW_PCH +3.3V_RTC_LDO	+3.3V_SUS +1.5V_MEM	+5V_RUN +3.3V_RUN +1.8V_RUN +1.5V_RUN +0.75V_DDR_VTT +VCC_CORE +1.05V_RUN_VTT +1.05V_RUN	+3.3V_M +1.05V_M	+3.3V_M +1.05V_M (M-OFF)
S0	ON	ON	ON	ON	ON
S3	ON	ON	OFF	ON	OFF
S5 S4/AC	ON	OFF	OFF	ON	OFF
S5 S4/AC don't exist	OFF	OFF	OFF	OFF	OFF

	USB PORT#	DESTINATION		
	0	JUSB1 (Ext Right Side Top)		
	1	JUSB1 (Ext Right Side Bottom)		
	2	JESA1 (Ext Left Side Top)		
	3	JESA1 (Ext Left Side Bottom)		
РСН	4	WLAN		
	5	WWAN		
	6	Bluetooth		
	7	USH->BIO		
	8	DOCKING		
	9	DOCKING		
	10	Express card		
	11	Camera		
	12	none		
	13	JMINI3(PCIE/BKT CARD)		

PCI EXPRESS	DESTINATION		
Lane 1	MINI CARD-1 WWAN		
Lane 2	MINI CARD-2 WLAN		
Lane 3	PCMCIA		
Lane 4	EXPRESS CARD		
Lane 5	MINI CARD-3 PCIE/BKT		
Lane 6	10/100/1G LAN		
Lane 7	None		
Lane 8	None		

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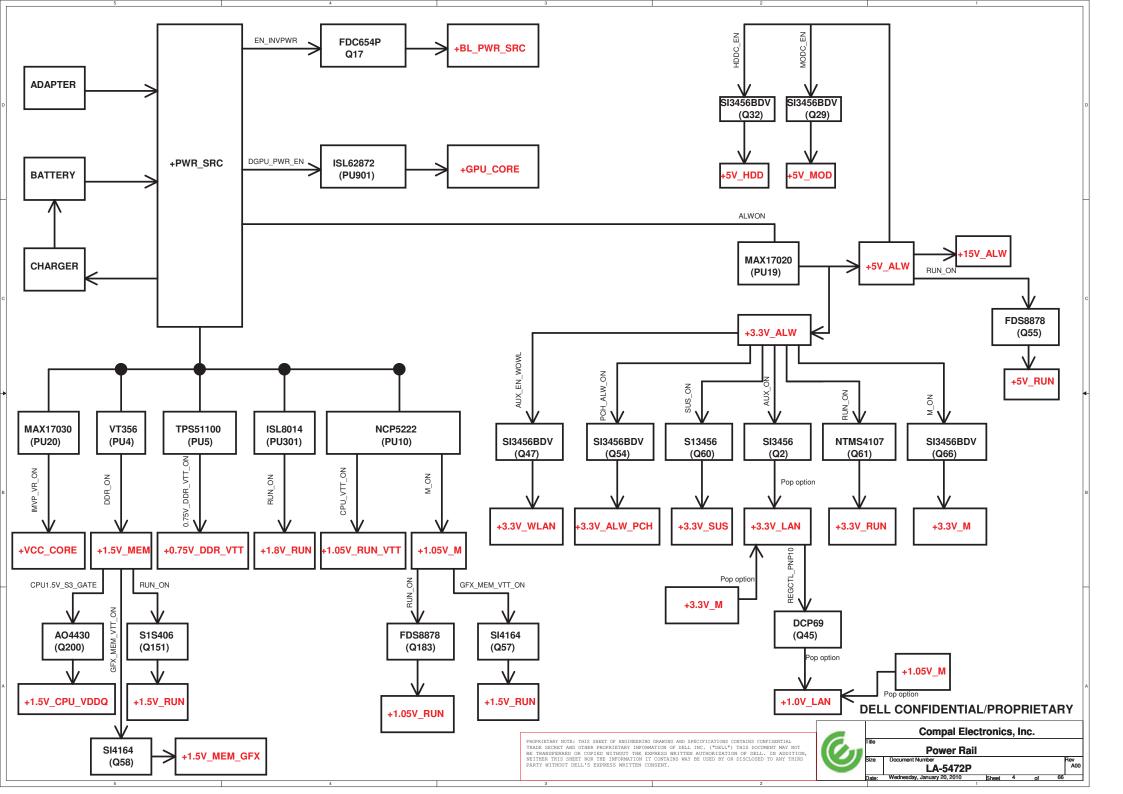
Rev A00

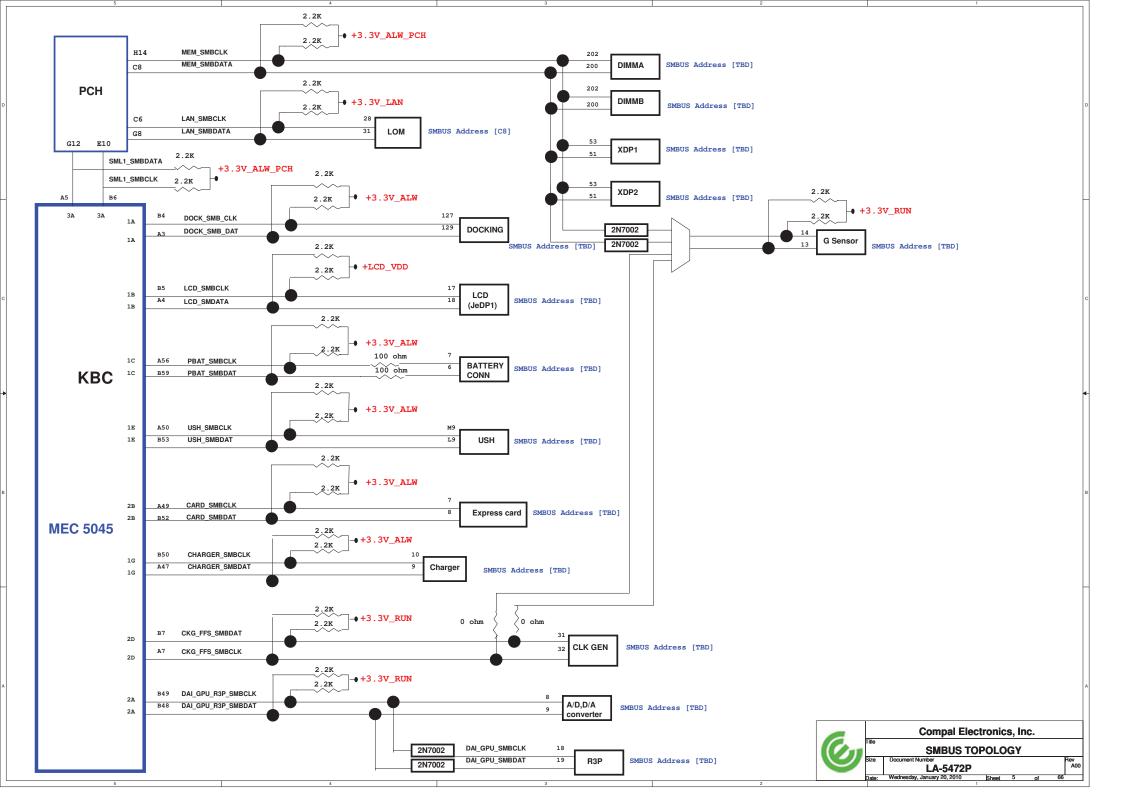
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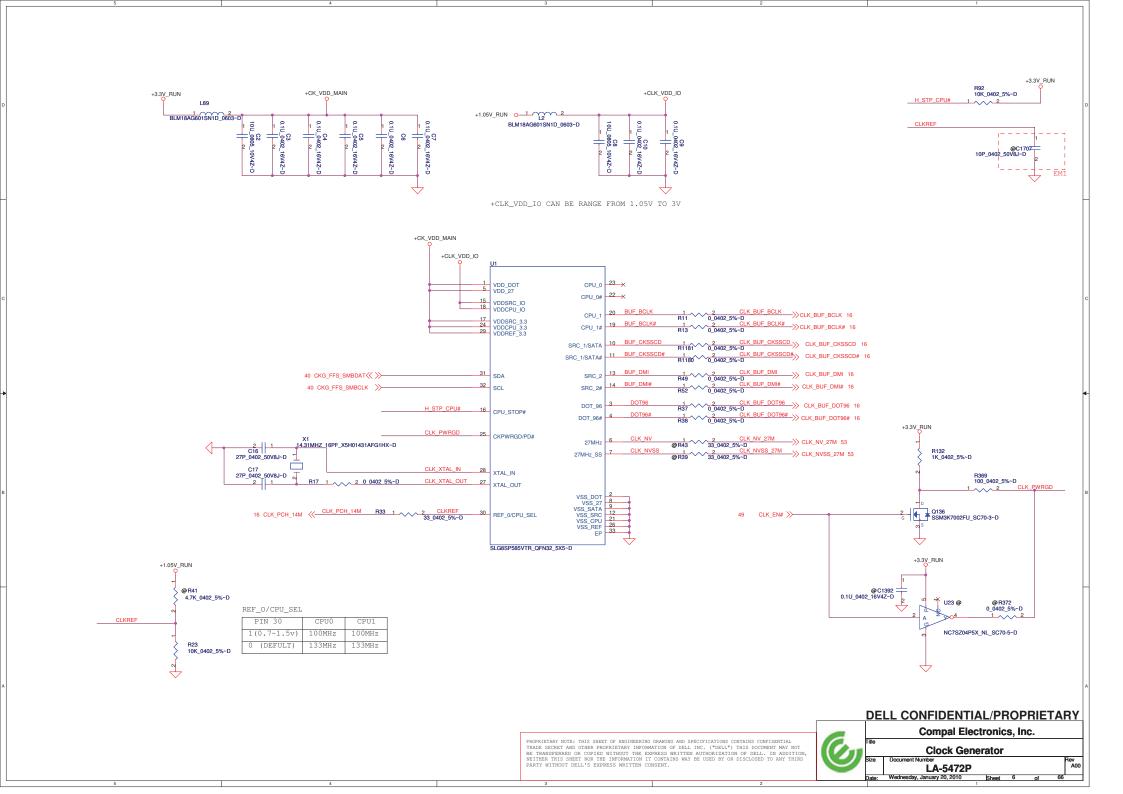
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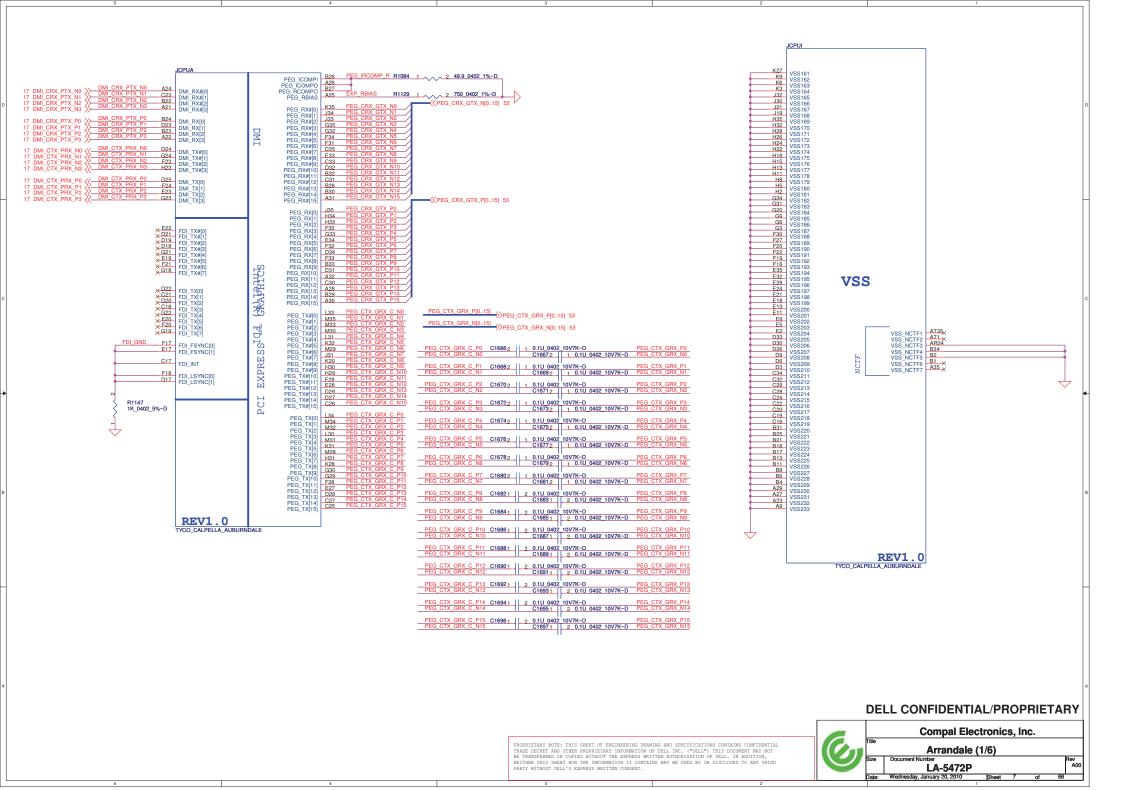
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LA-5472P

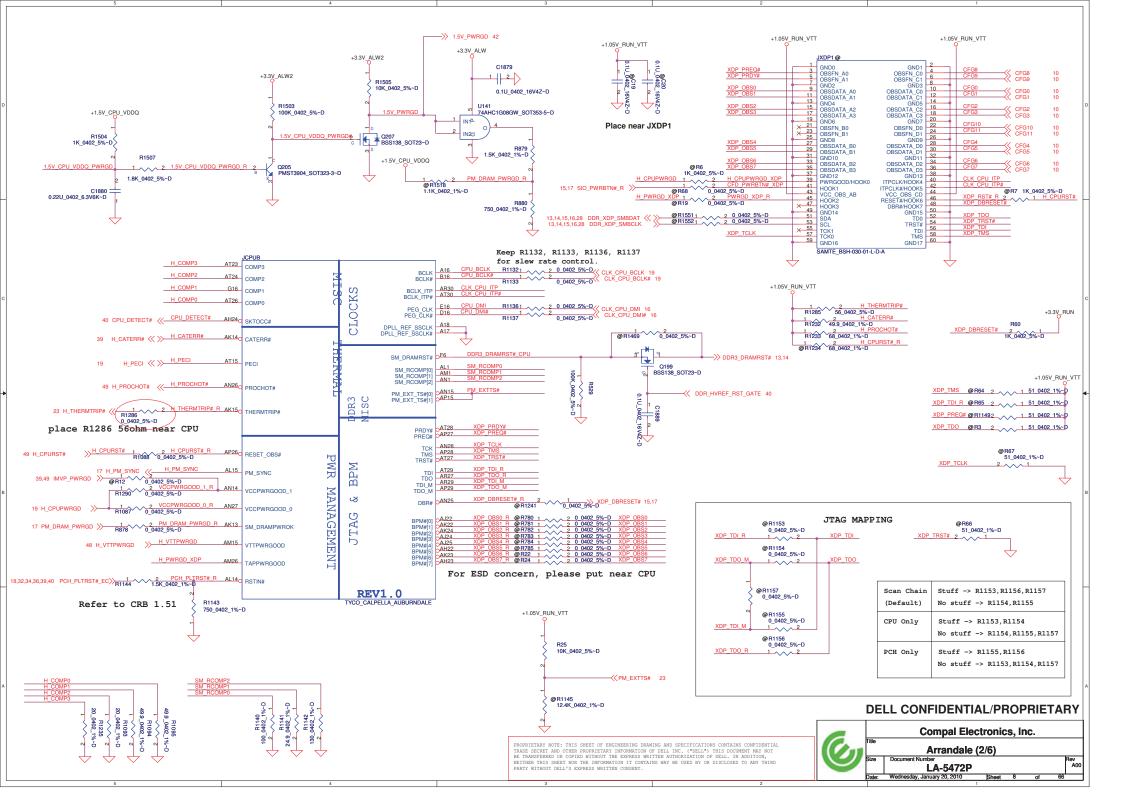
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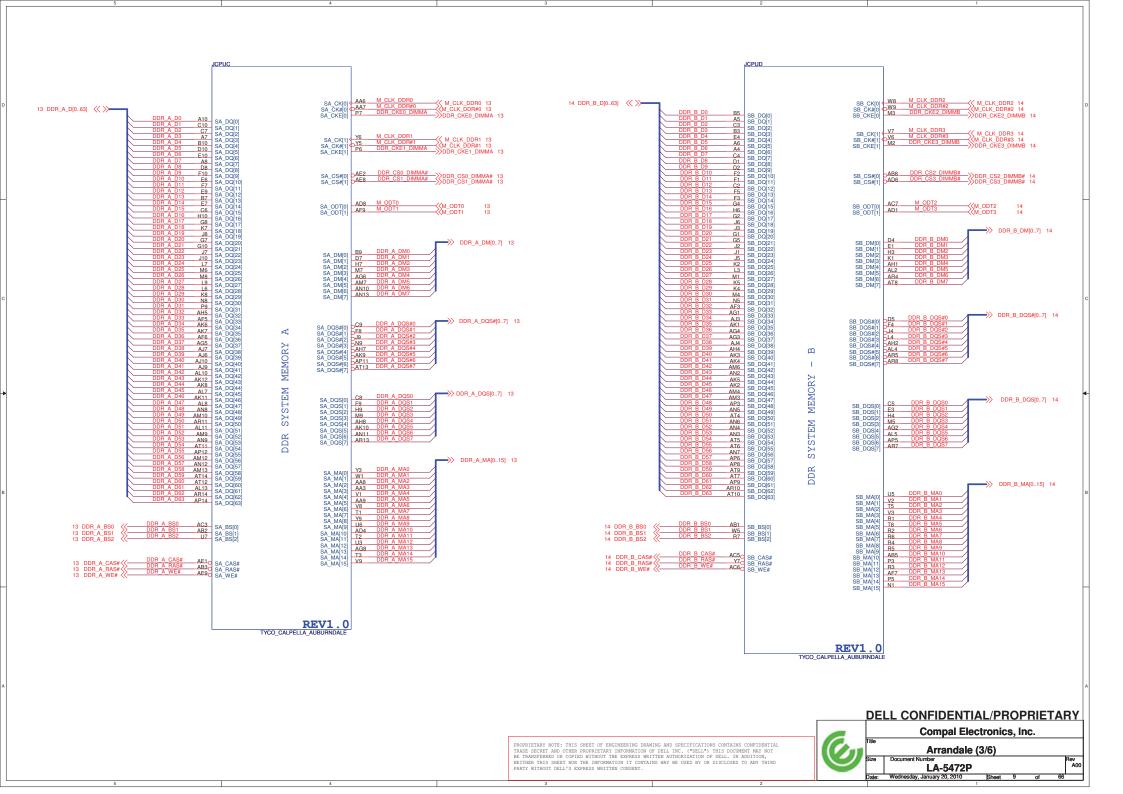


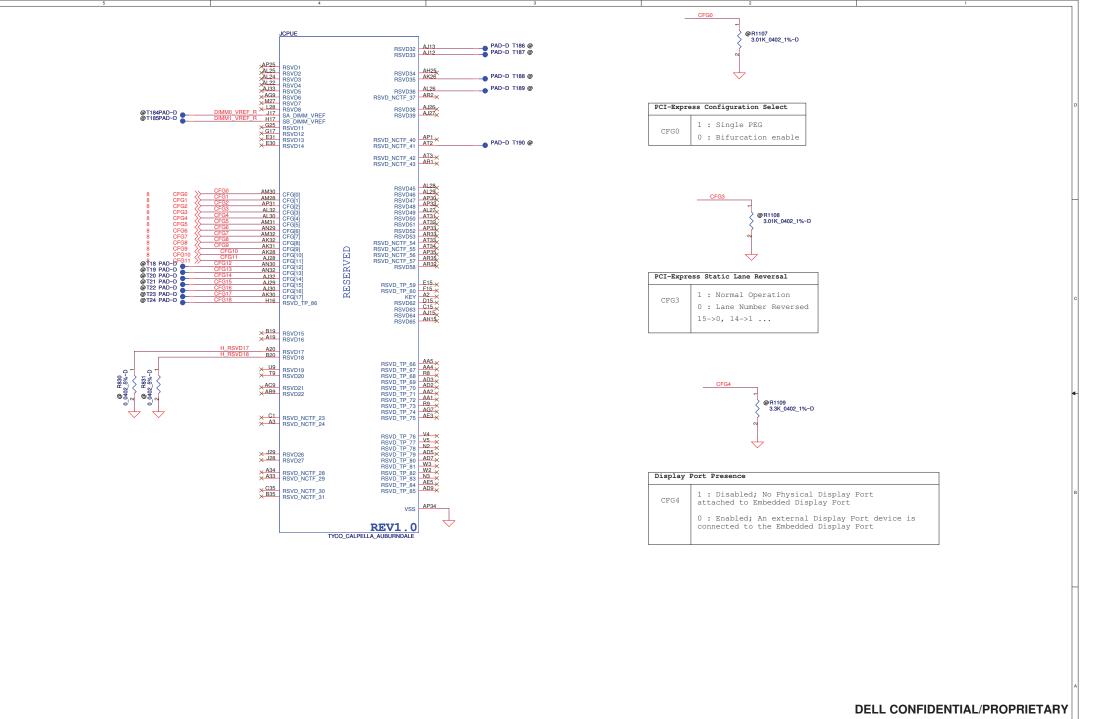




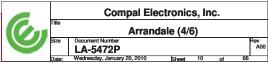


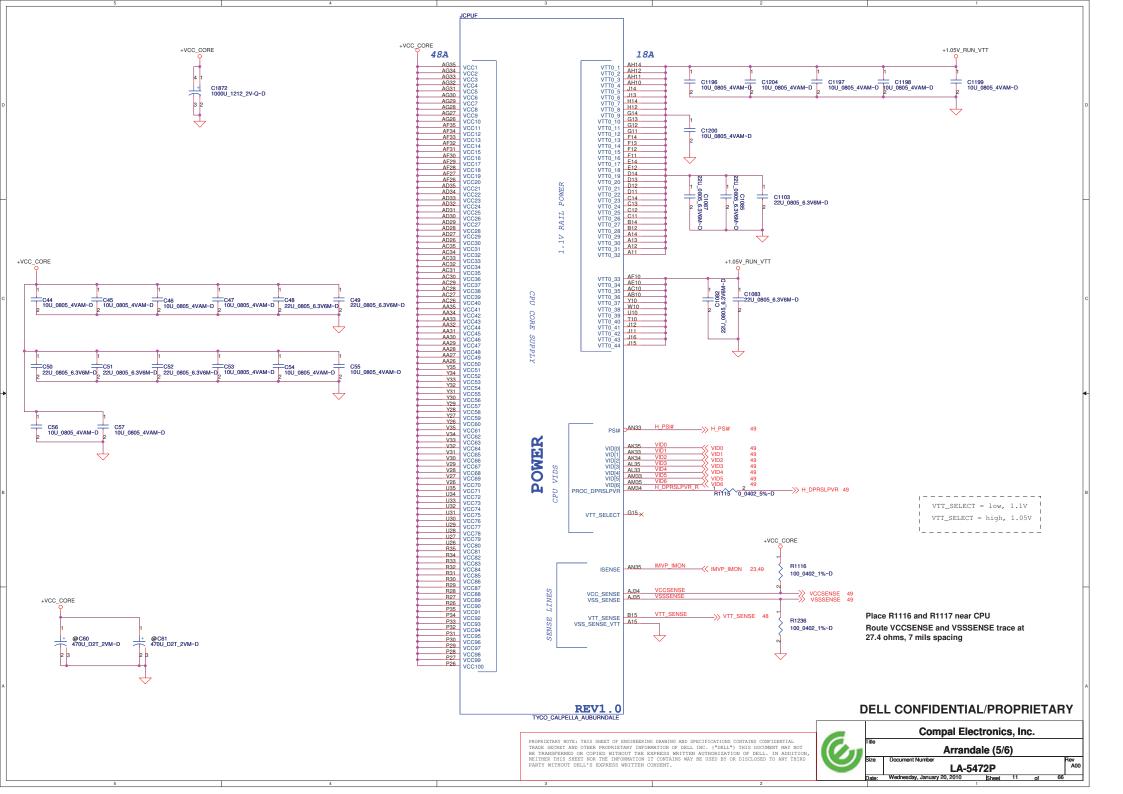


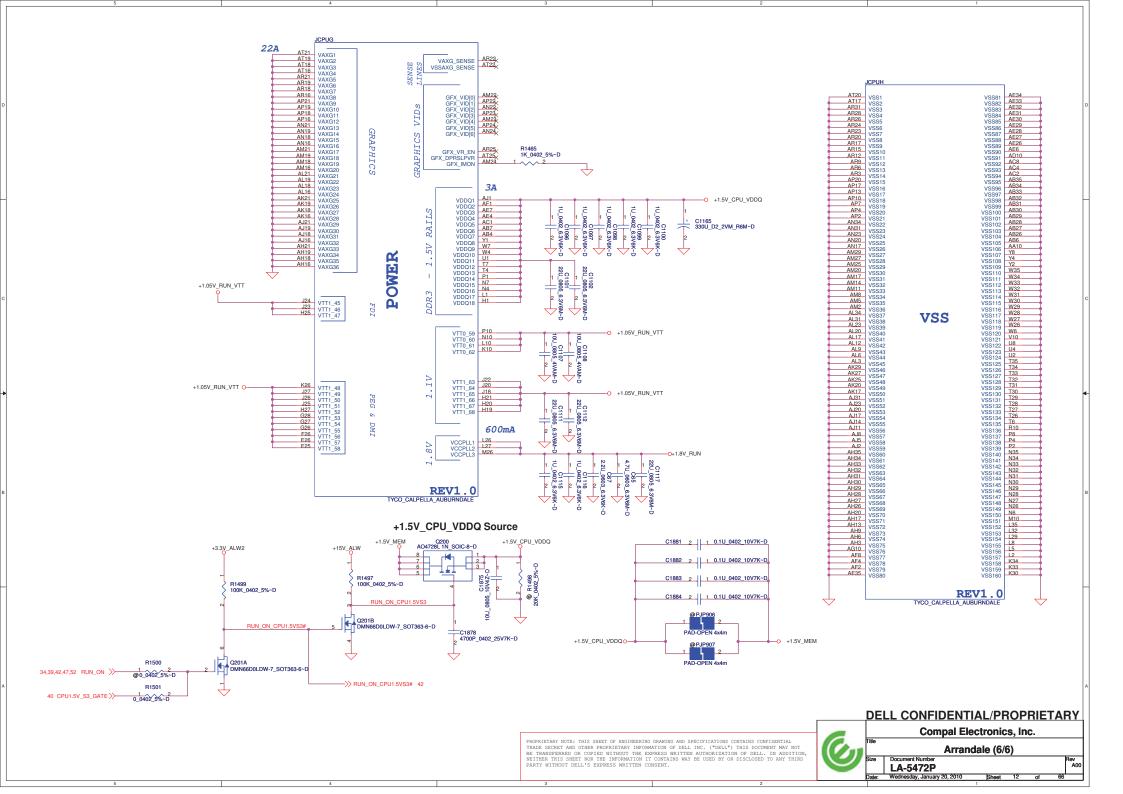


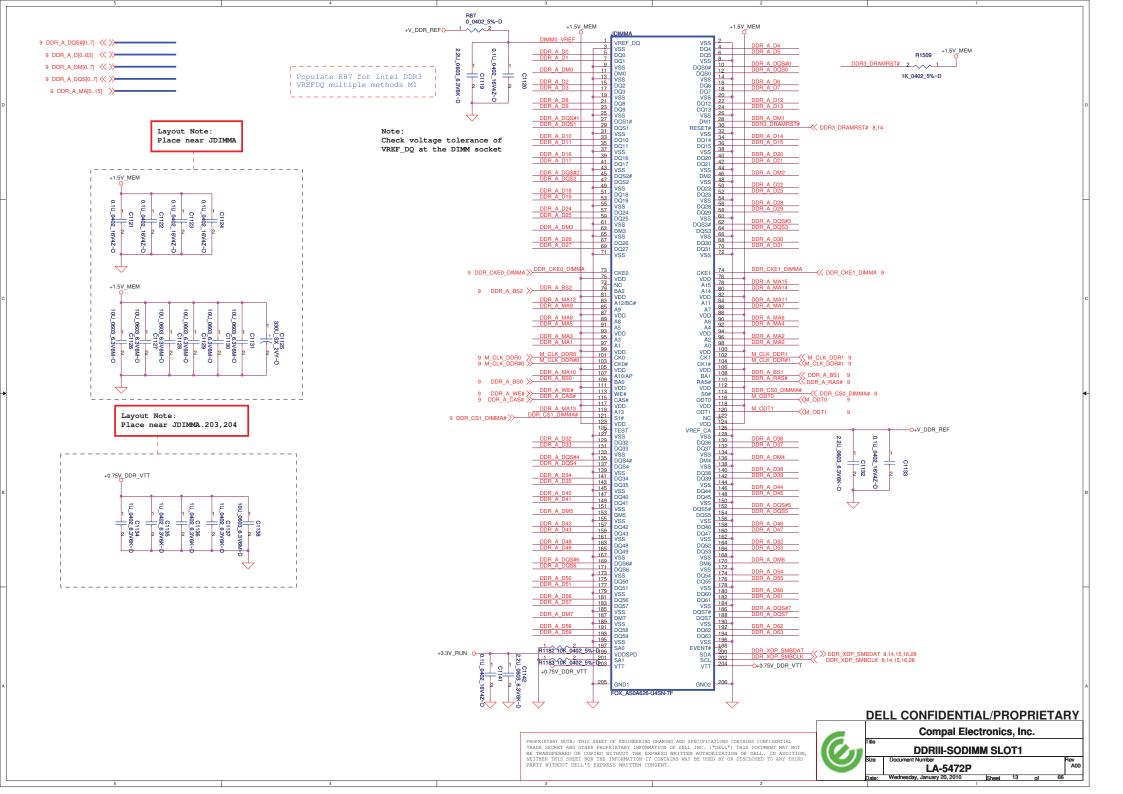


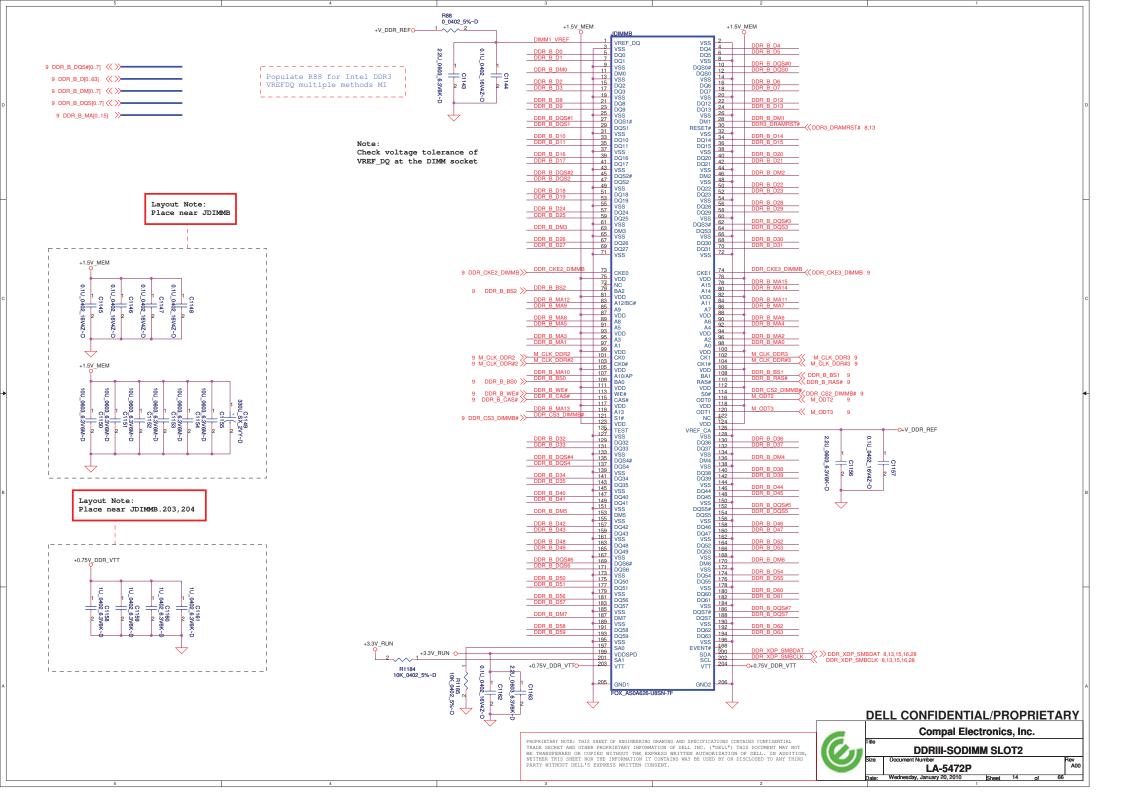
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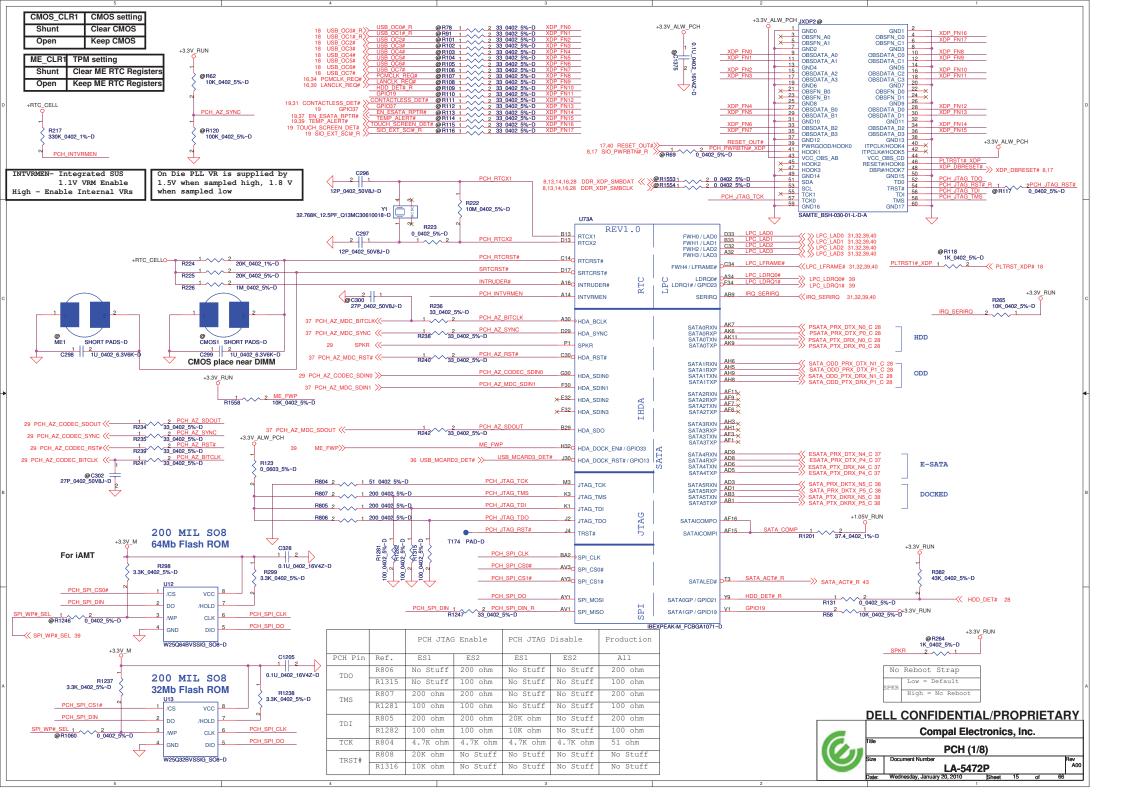


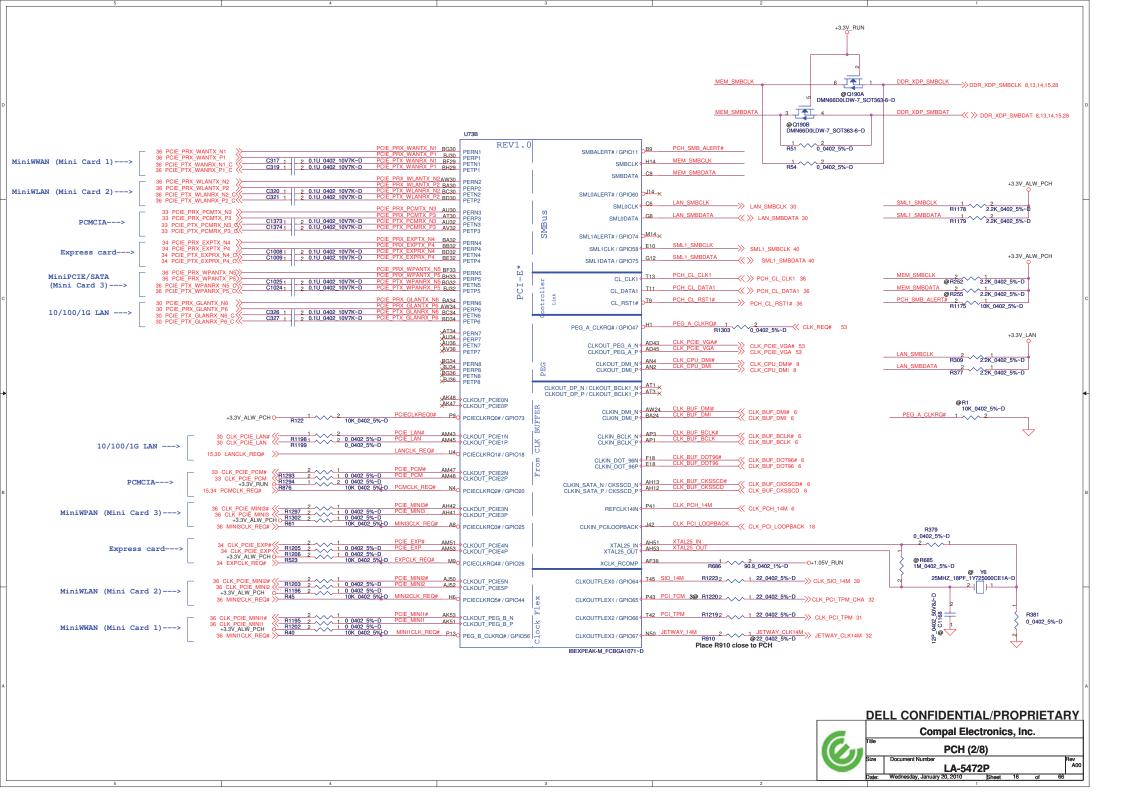


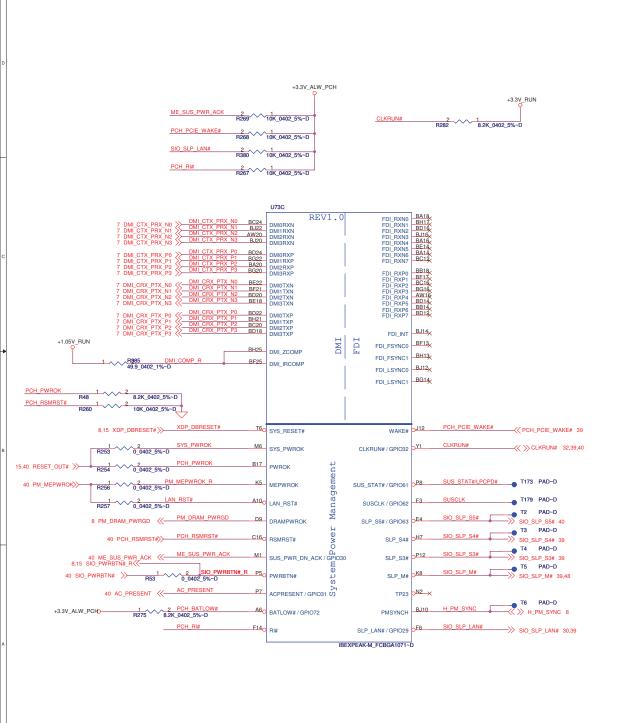








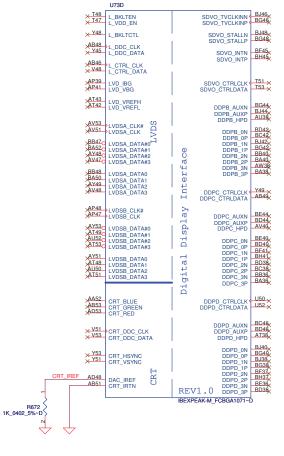


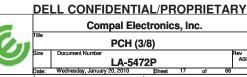


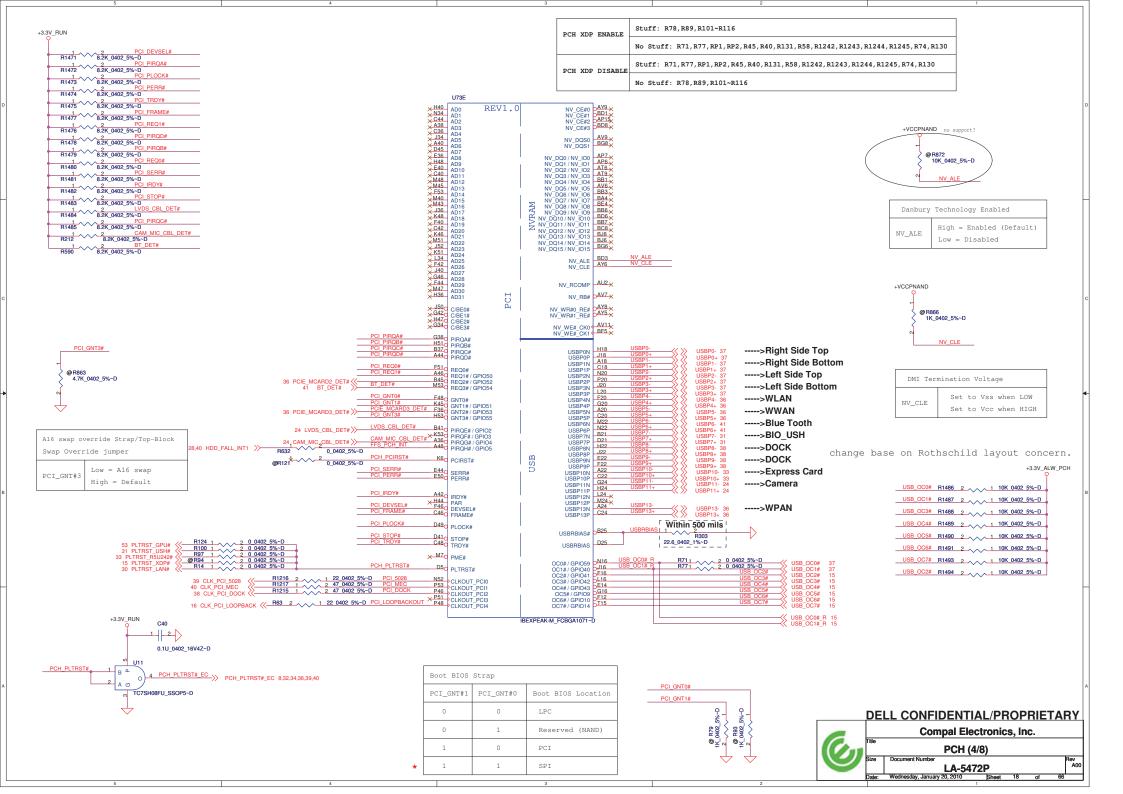
Intel WW18 Strapping option

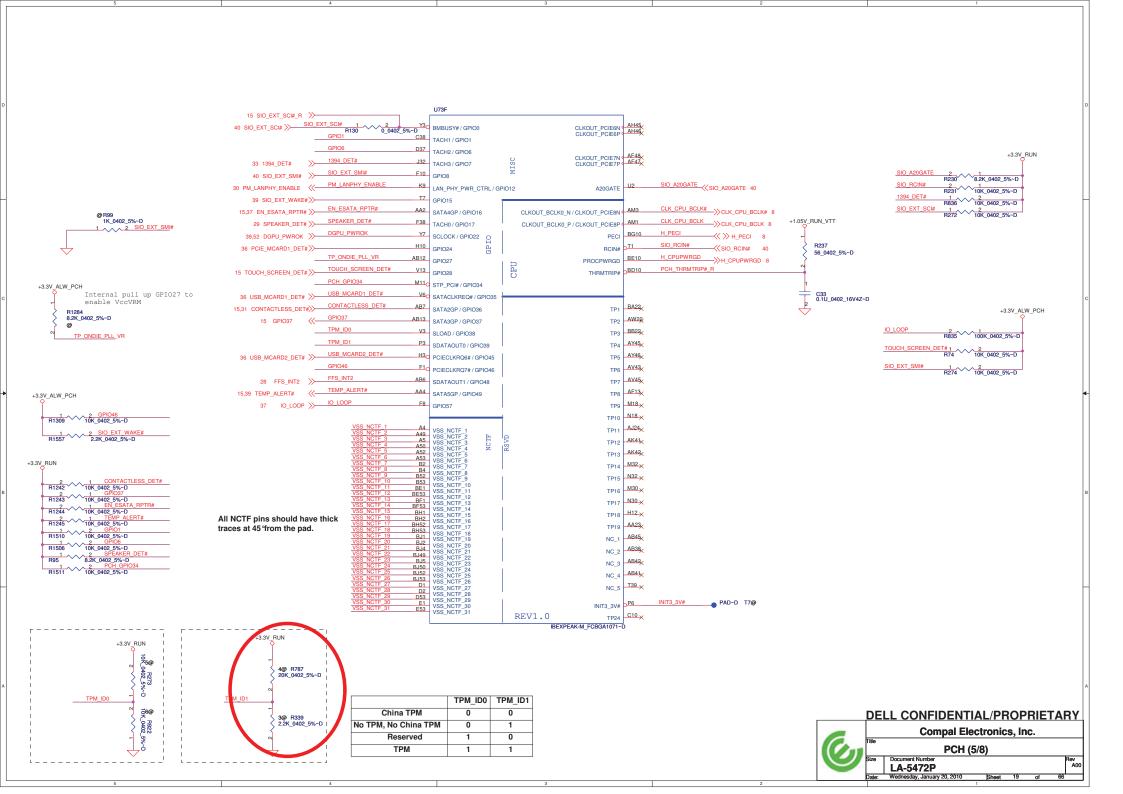
	- · · · Pr - 2 · Pr - ·		
PORT	STRAP	ENABLE	DISABLE
LVDS	L_DDC_DATA	PU to 3.3V thoough 2.2Kohm	NC
PORT B	SDVO_CTRLDATA	PU to 3.3V thoough 2.2Kohm	NC
PORT B	DDPC_CTRLDATA	PU to 3.3V thoough 2.2Kohm	NC
PORT B	DDPD_CTRLDATA	PU to 3.3V thoough 2.2Kohm	NC
eDP on CPU	CFG[4] (at CPU)	PD to GND thoough 3.3Kohm	NC

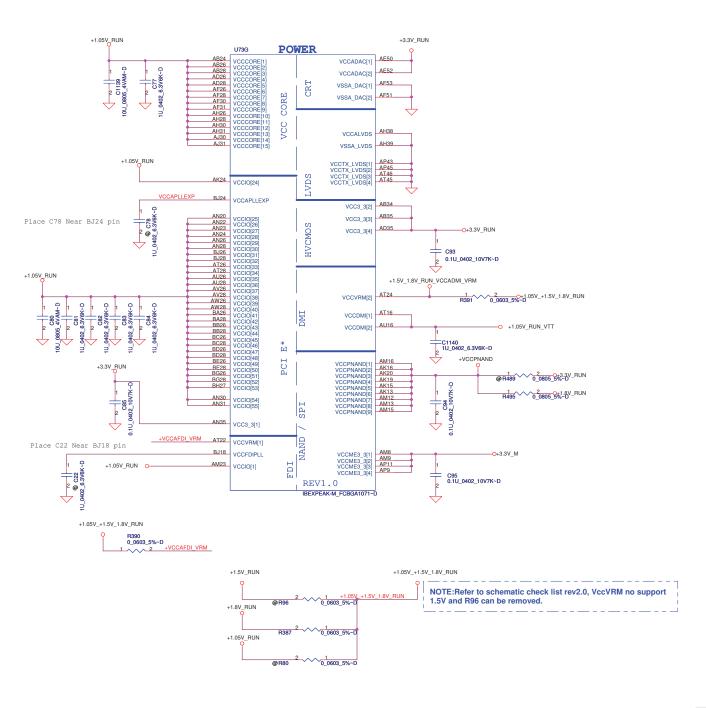
#### Intel request DDPB can not support eDP



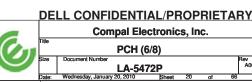


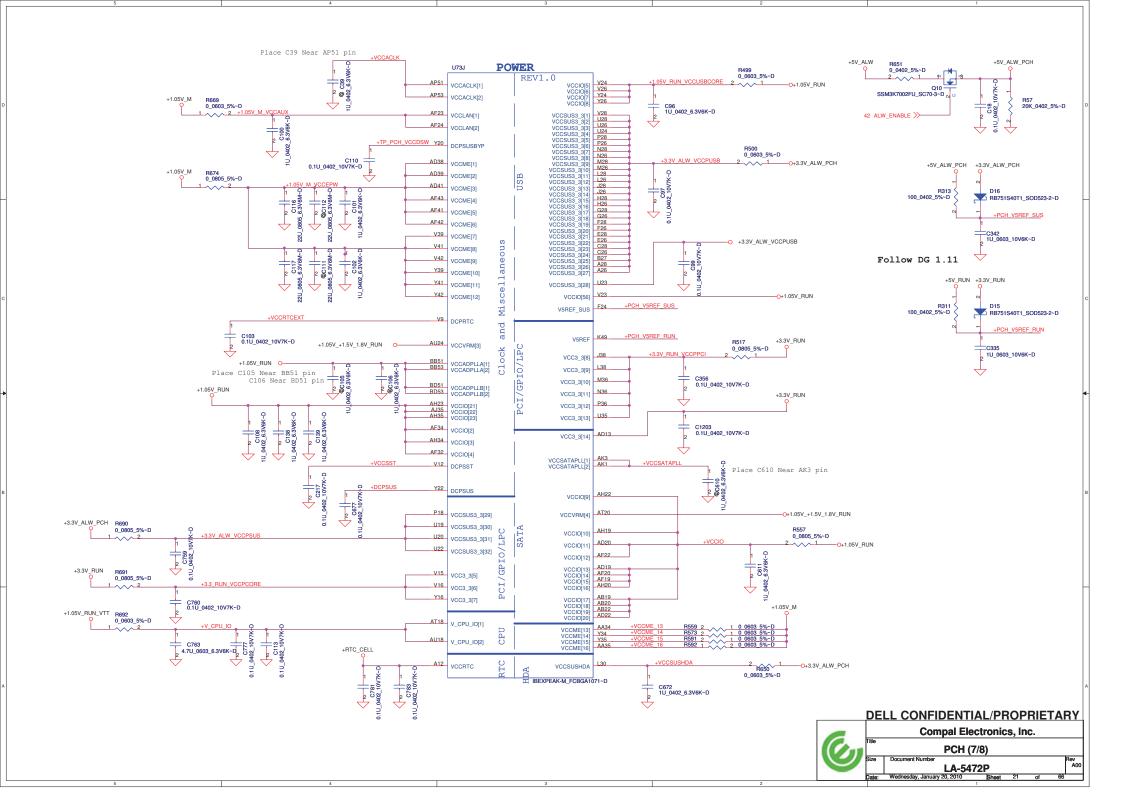


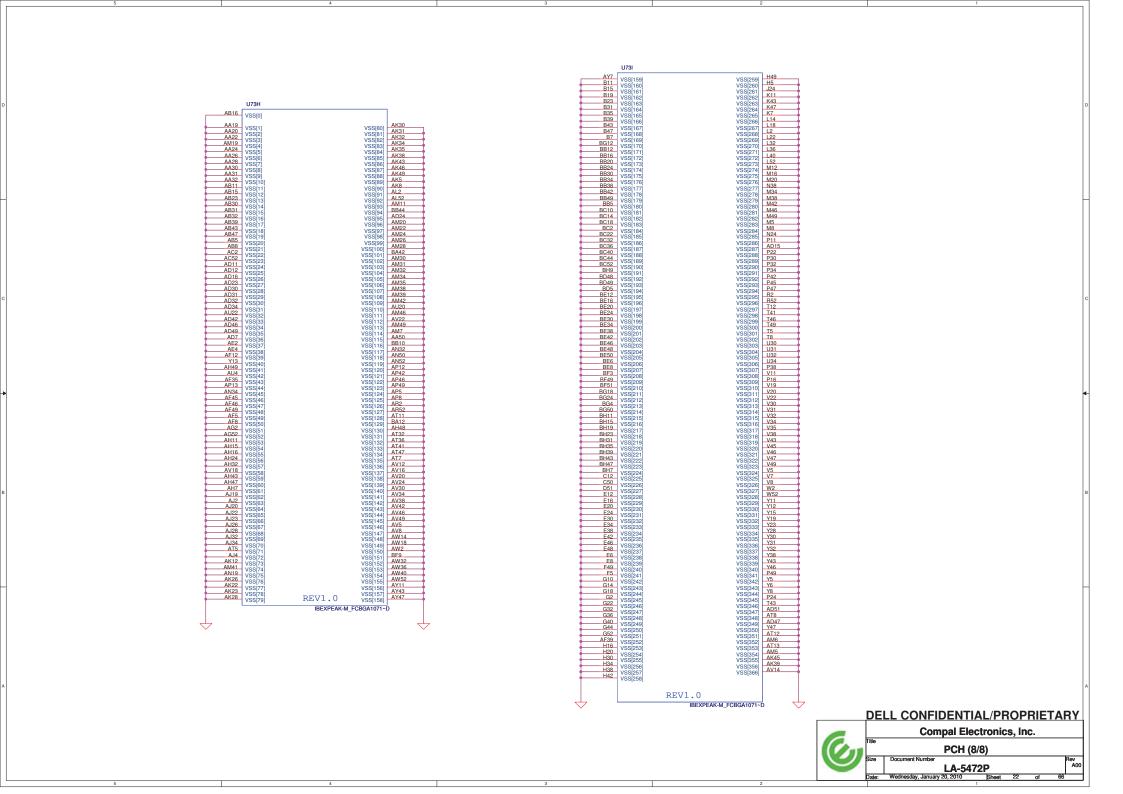


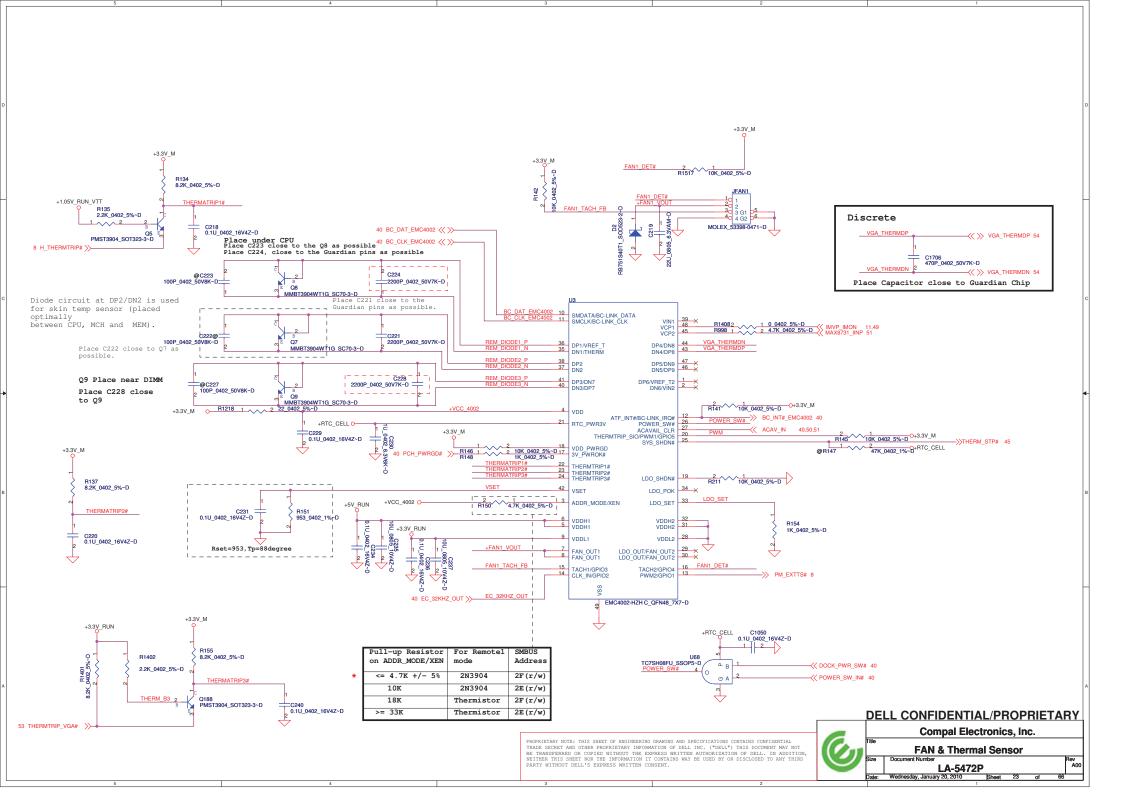


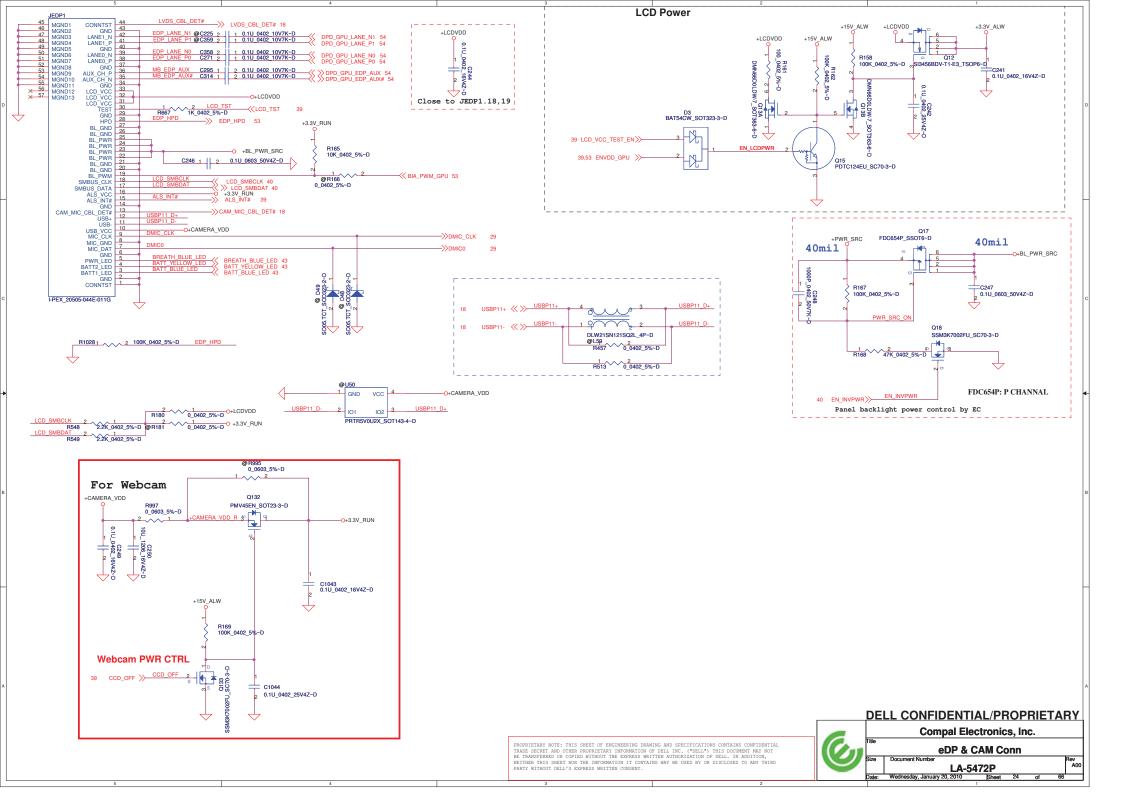
PCH Power Rail Table						
Voltage Rail	Voltage	S0 Iccmax Current (A)				
V_CPU_IO	1.1/1.05	< 1 (mA)				
V5REF	5	< 1 (mA)				
V5REF_Sus	5	< 1 (mA)				
Vcc3_3	3.3	0.357				
VccAClk	1.1	0.052				
VccADAC	3.3	0.069				
VccADPLLA	1.1	0.068				
VccADPLLB	1.1	0.069				
VccapllEXP	1.1	0.04				
VccCore	1.1	1.432				
VccDMI	1.1	0.058				
VccDMI	1.1	0.061				
VccFDIPLL	1.1	0.037				
VccIO	1.1	3.062				
VccLAN	1.1	0.32				
VccME	1.1	1.849				
VccME3_3	3.3	0.085				
VccpNAND	1.8	0.156				
VccRTC	3.3	2 (mA)				
VccSATAPLL	1.1	0.031				
VccSus3_3	3.3	0.163				
VccSusHDA	3.3	0.006				
VccVRM	1.8 / 1.5	0.196				
VccVRM	1.05	< 1 (mA)				
VccALVDS	3.3	< 1 (mA)				
VccTX_LVDS	1.8	0.059				

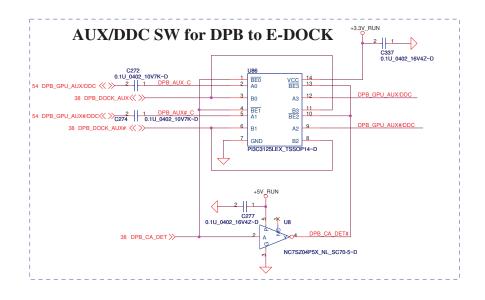














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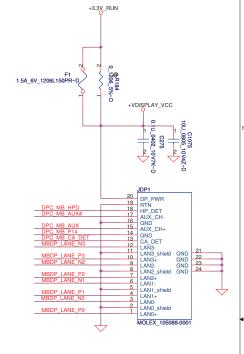
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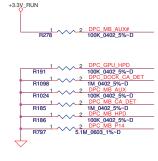
**DPB AUX SW for DOCK** 

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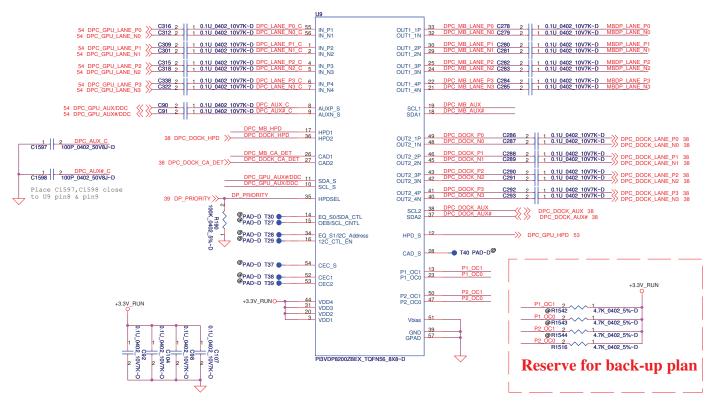
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# **Display port Connector**

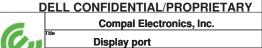




## **DPB SW for MB & DOCK**



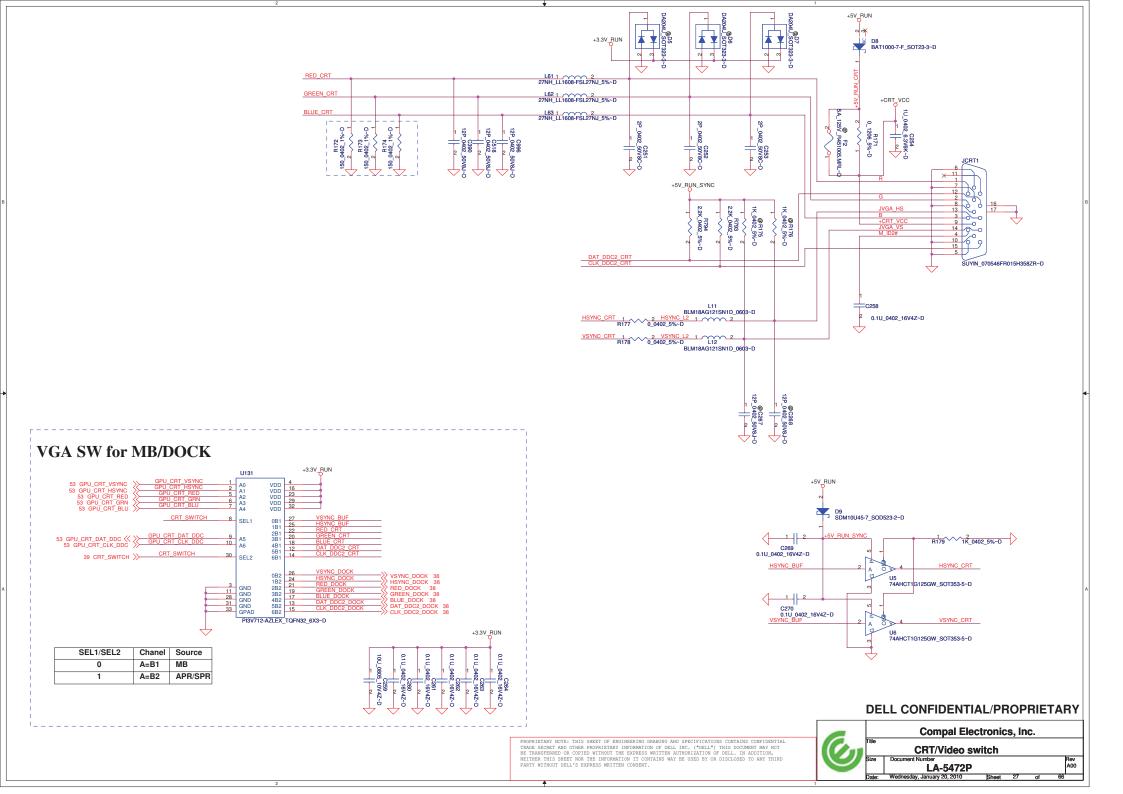
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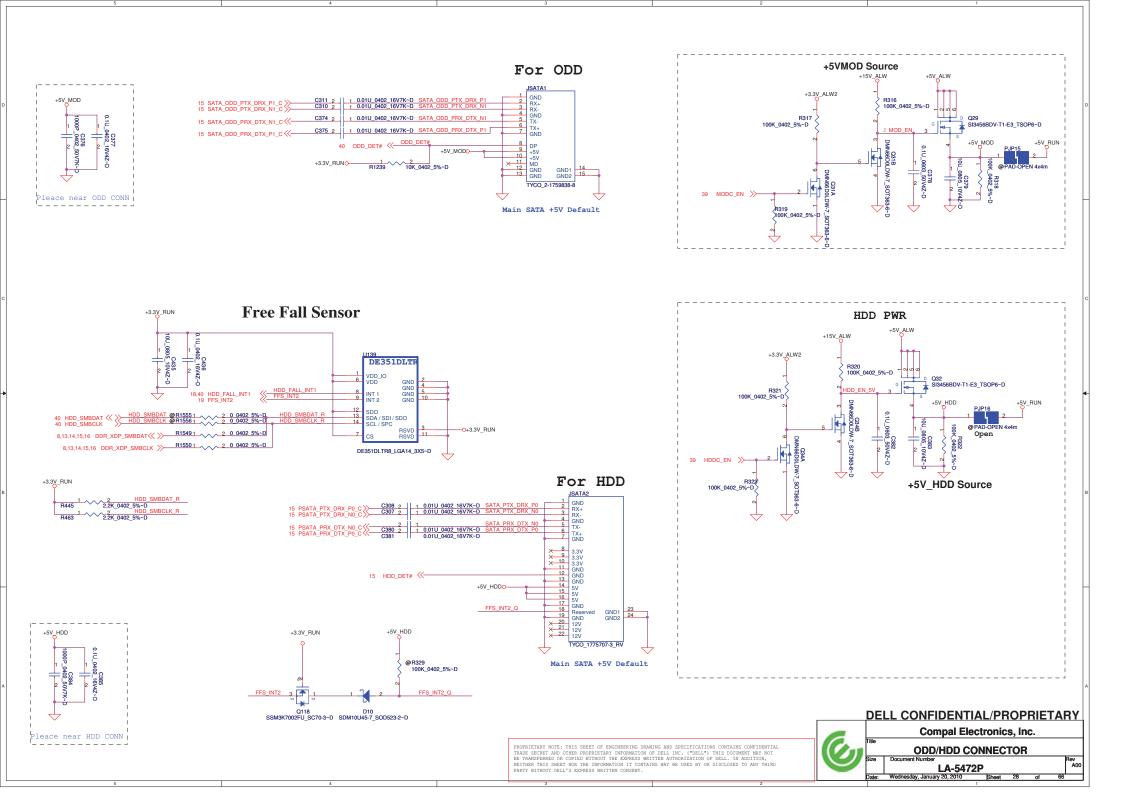


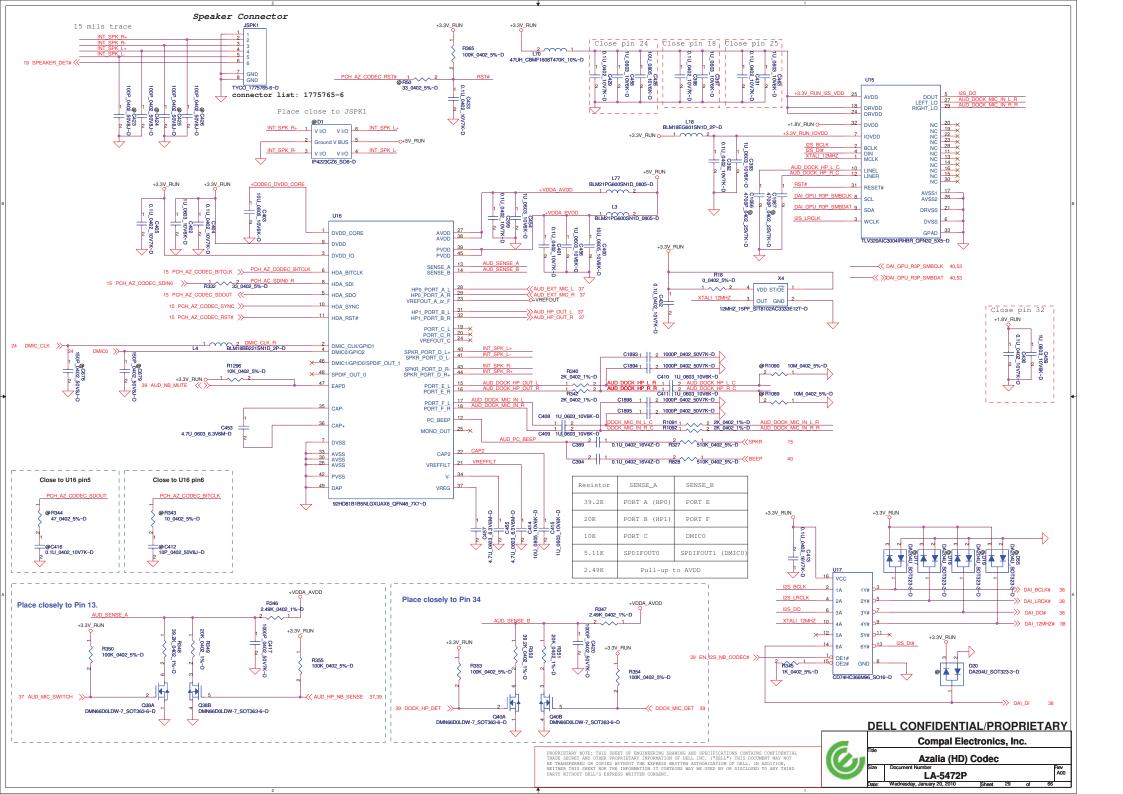
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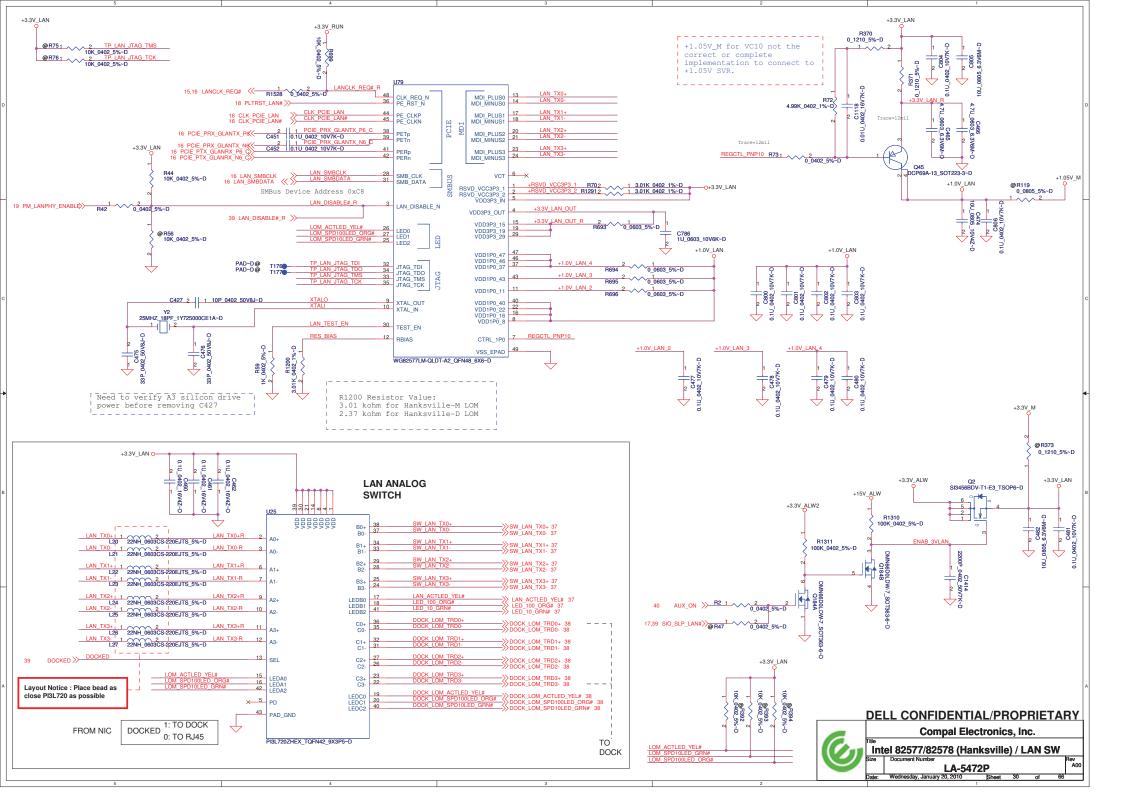
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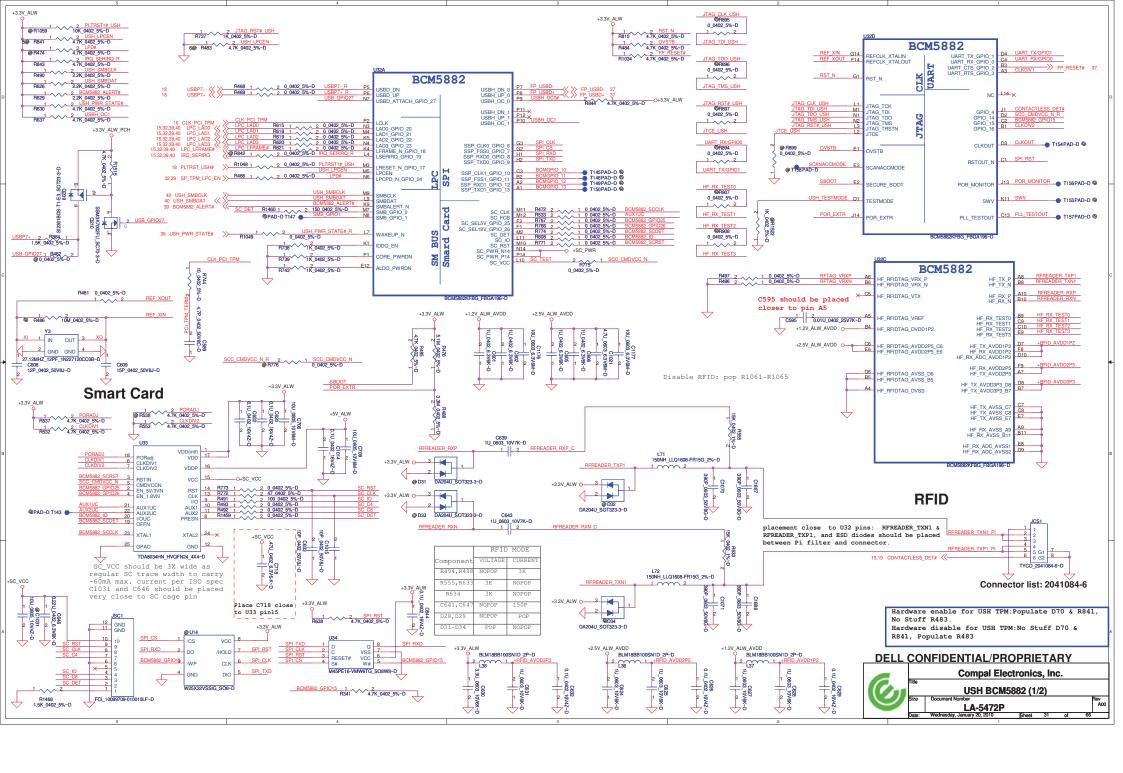
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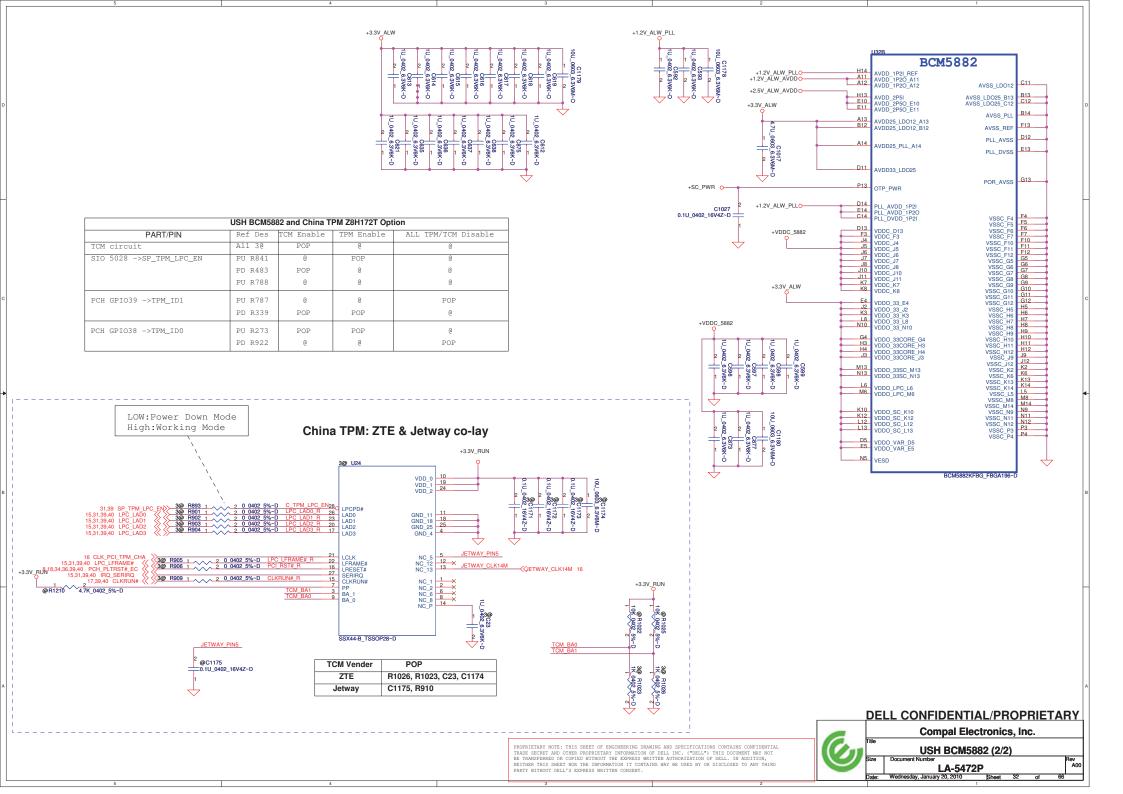


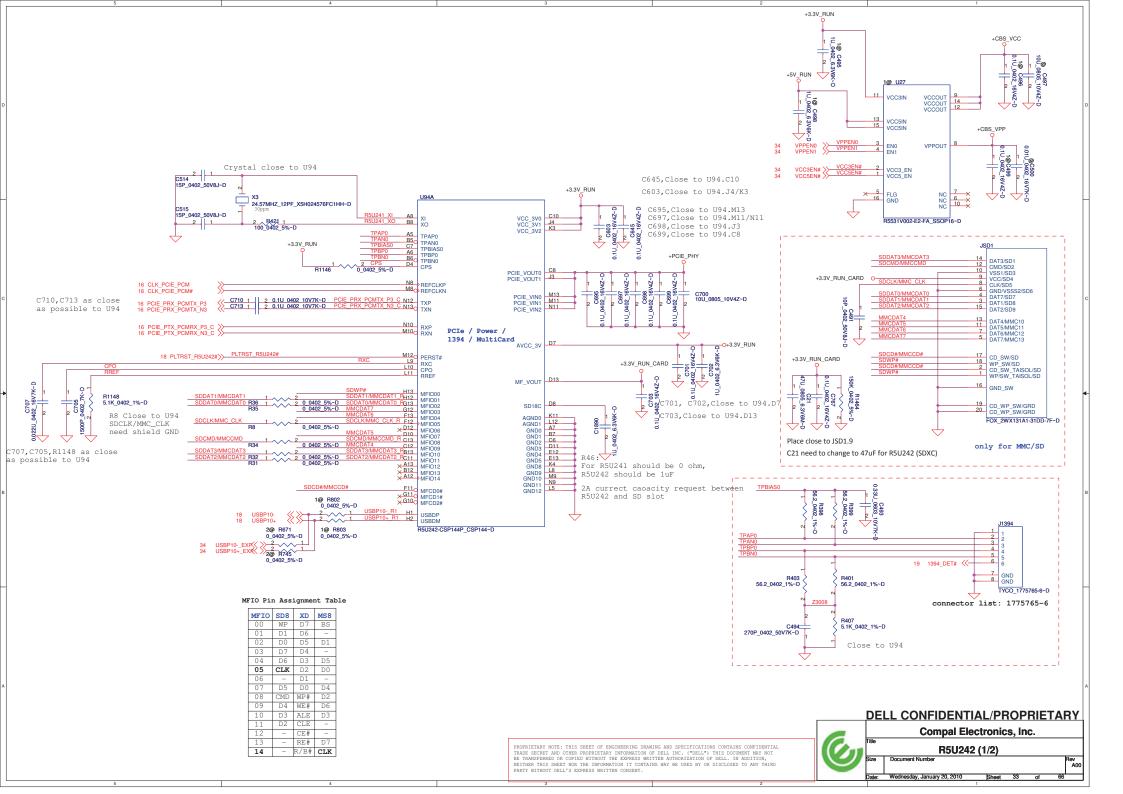


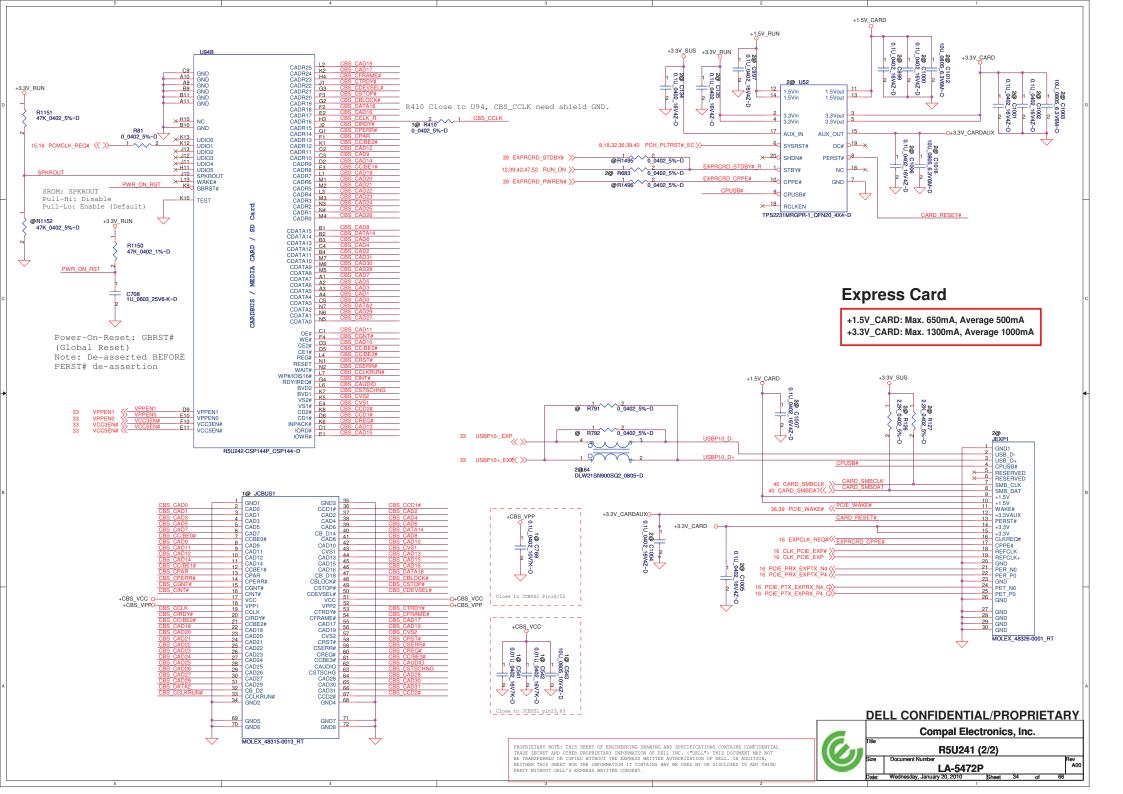


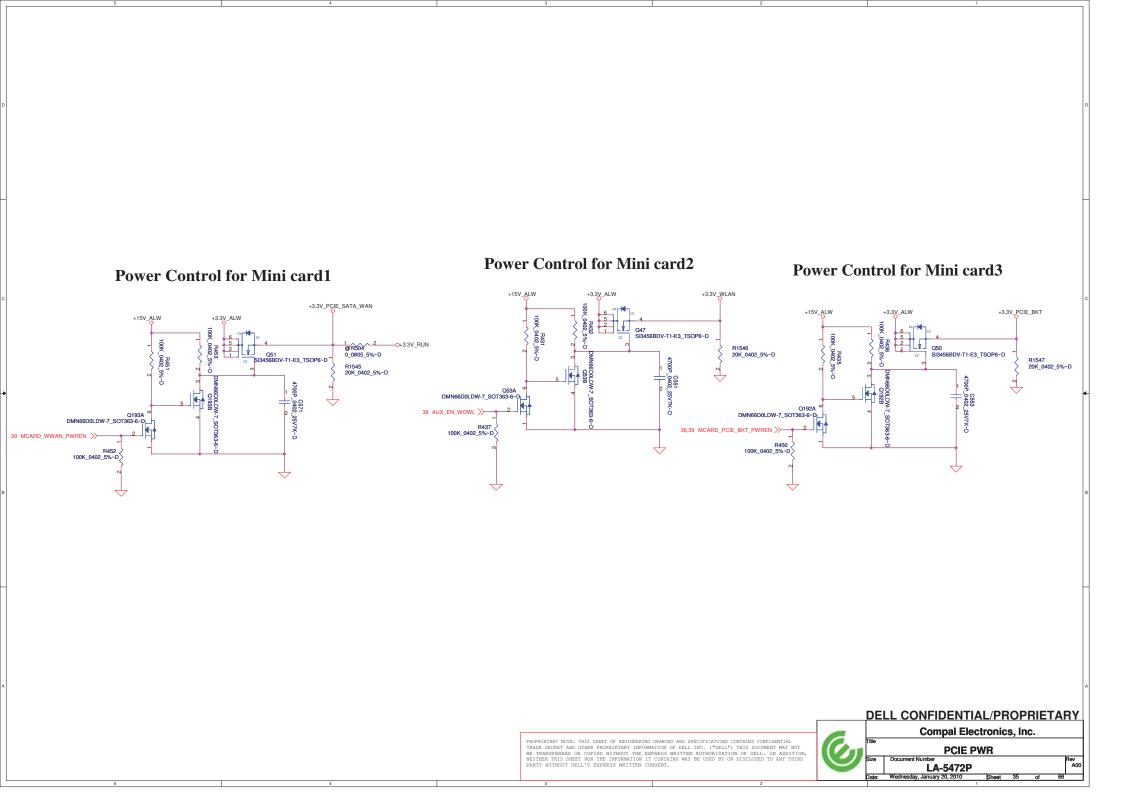


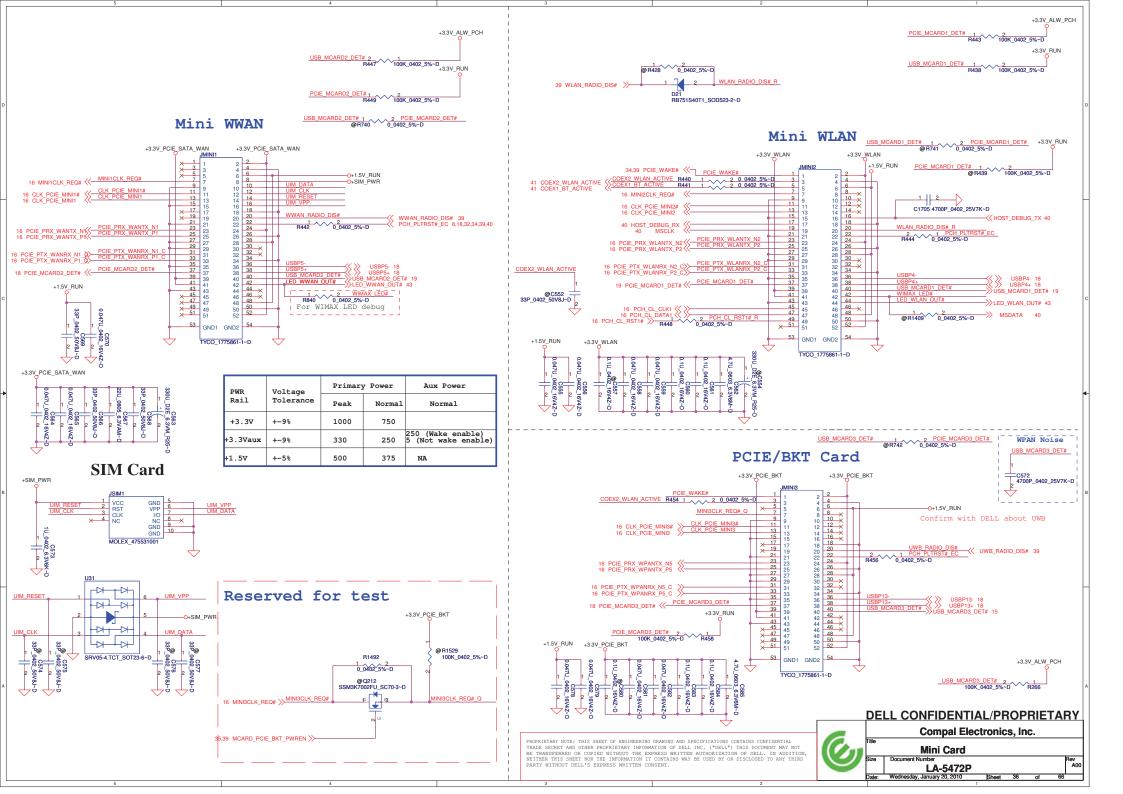


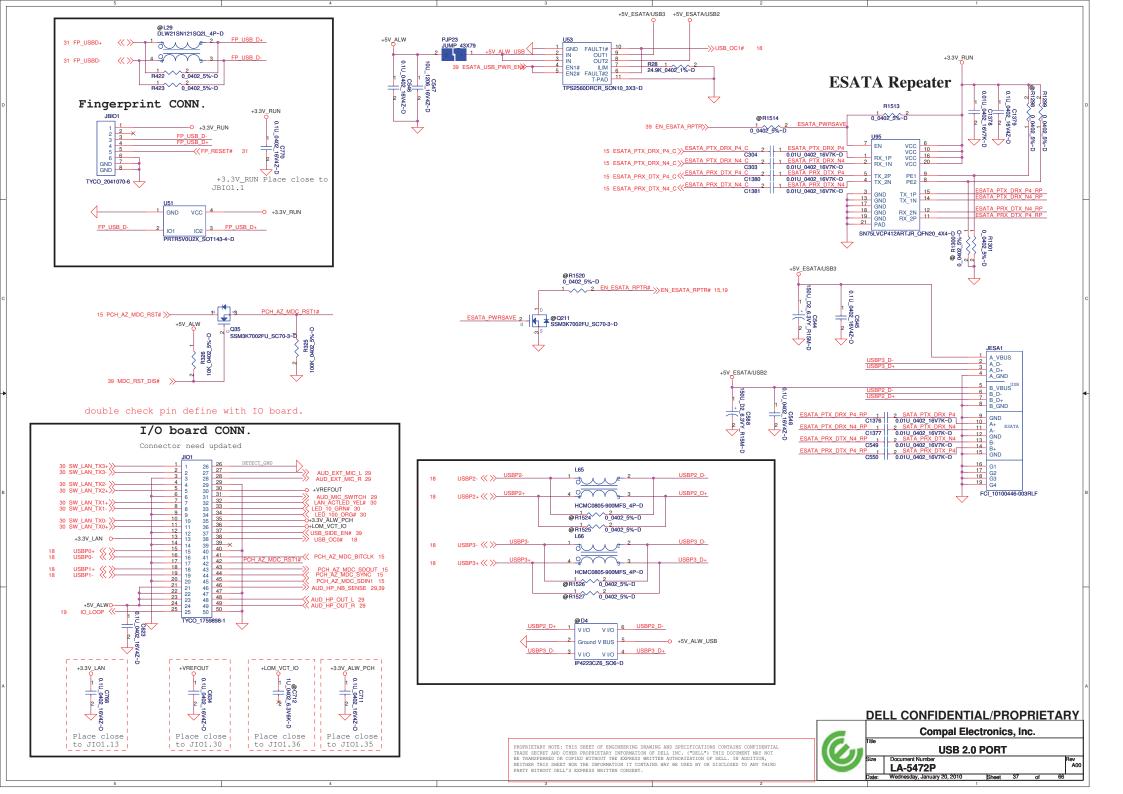


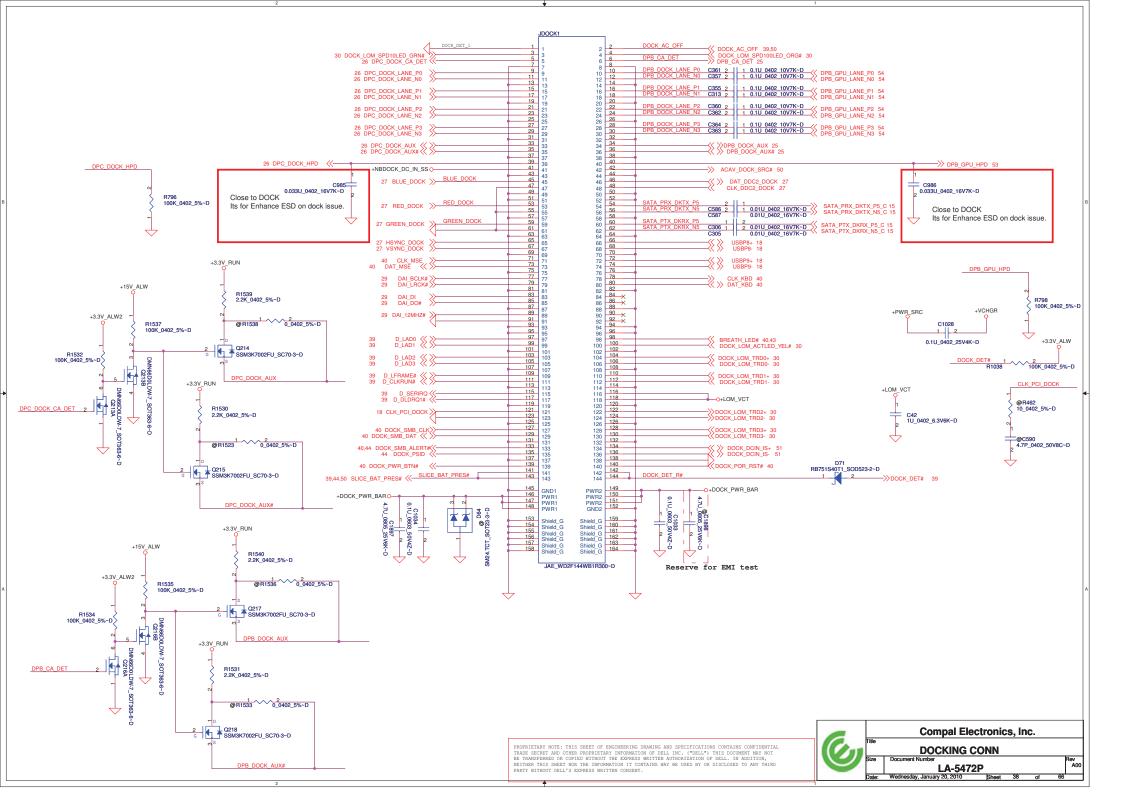


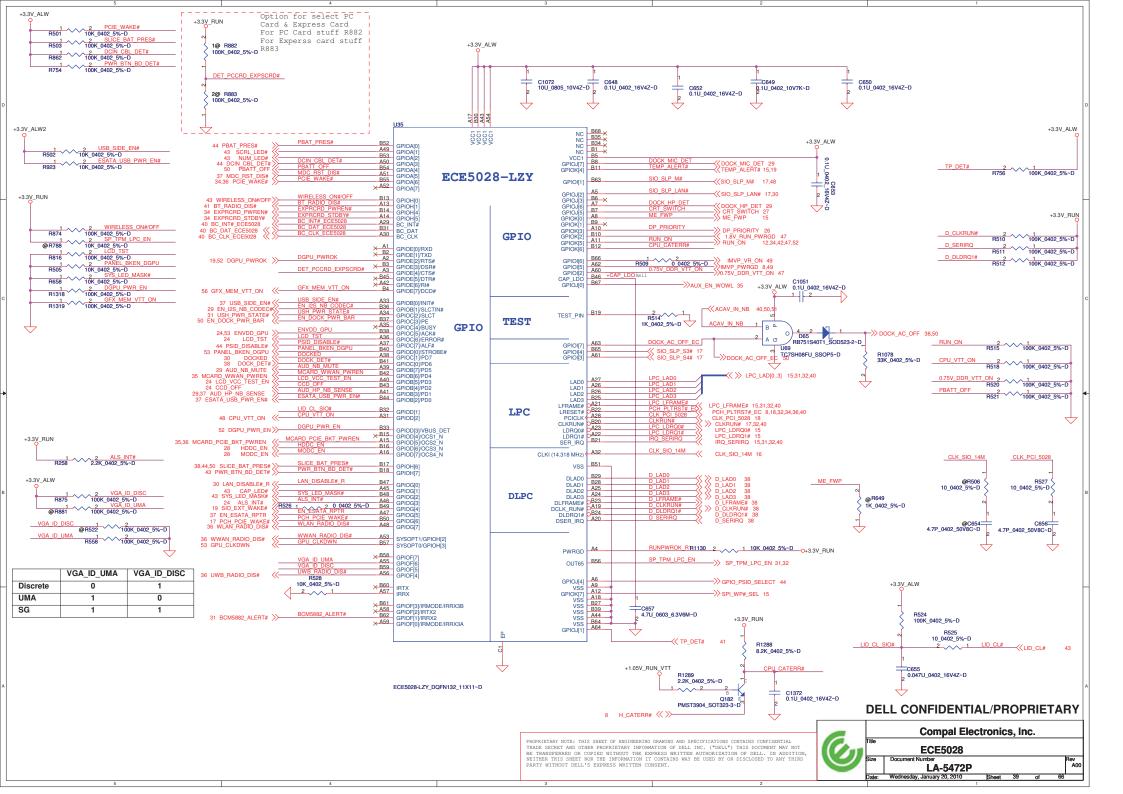


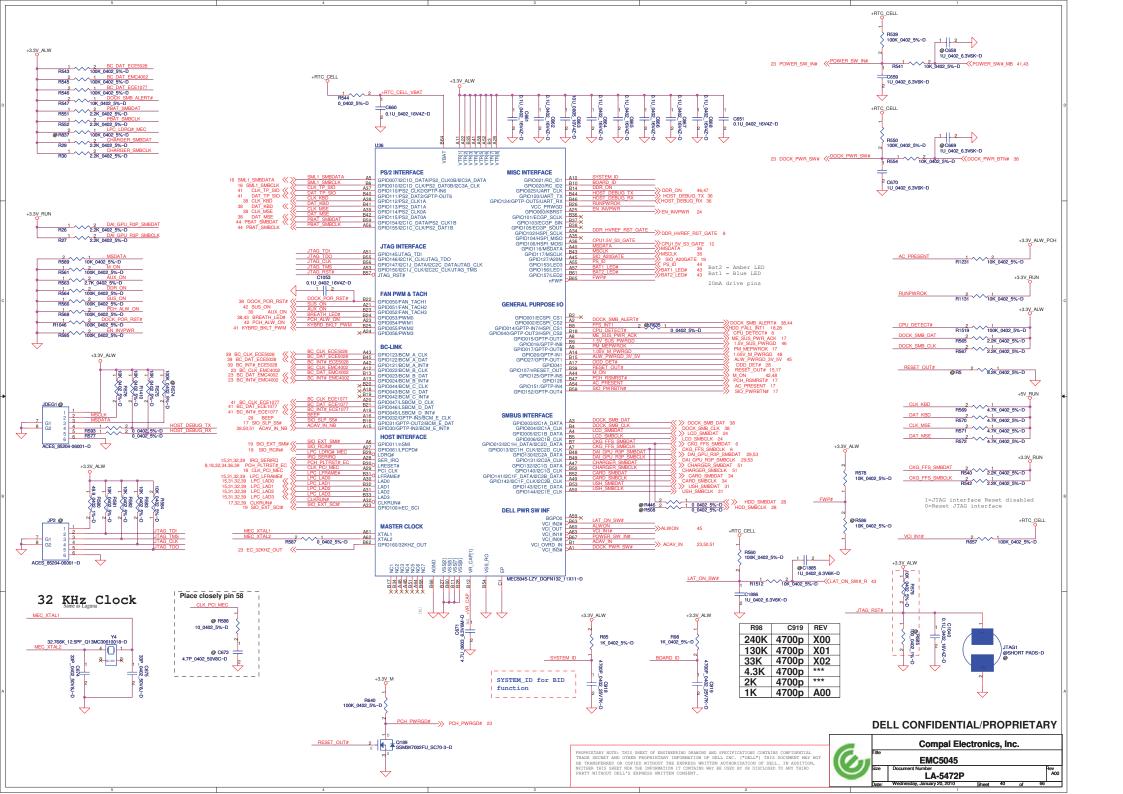




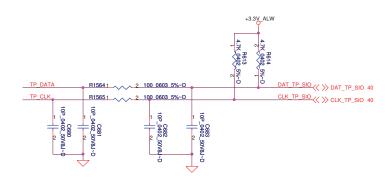




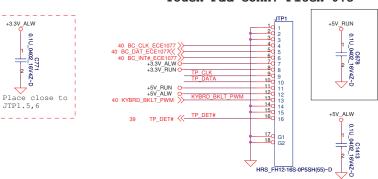


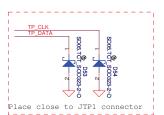


### **Touch Pad**

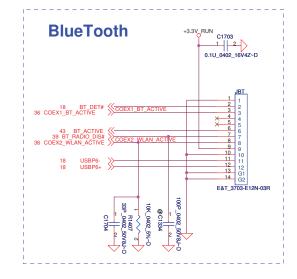


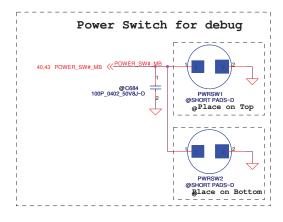
#### Touch Pad Conn. Pitch=0.5





+3.3V\_ALW







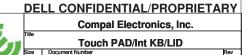
@MDC wire set cable							
Part Number	Description						
DC02000CS0L	H-CONN SET ZGX MB-MDC						

@T/P wire set cal	ole
Part Number	Description
DC02000840L	H-CONN SET ZJX MR_R/T_TD_FD

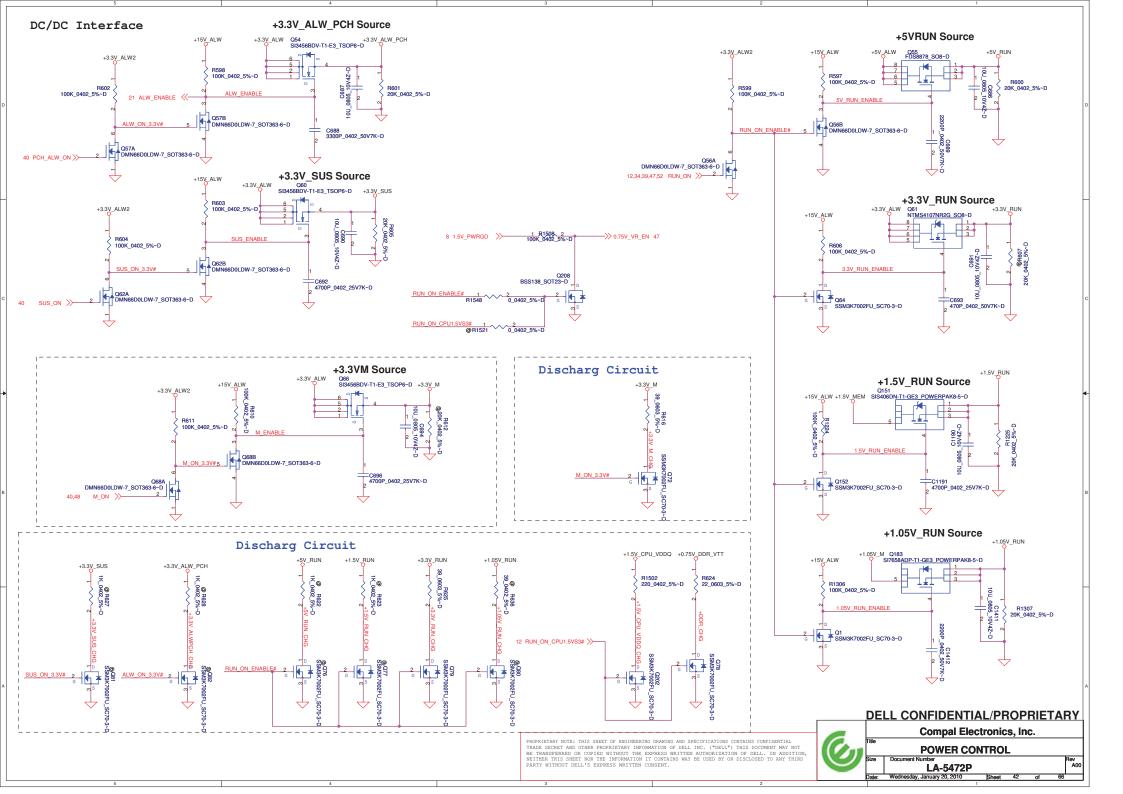
Part Number	Description
DC020003Y0L	H-CONN SET ZJX MB-LCD 14 WXGA+(-1ch)
@LVDS cable	
Part Number	Description
DC02000870L	H-CONN SET ZJX MB-LCD 14 WXGA+(-2ch)
@RTC BATT	
Part Number	Description
000000000000	DATE 000000 00

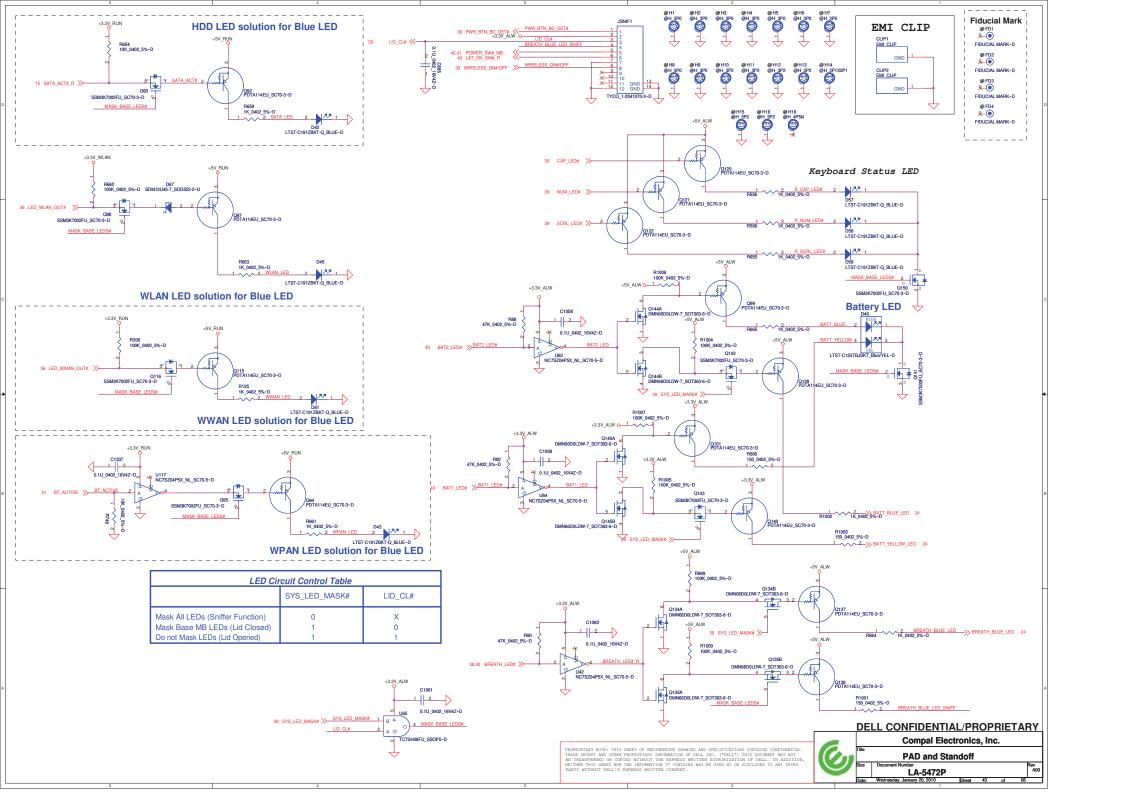
BATT CR2032 3V 220MAH MAXELL

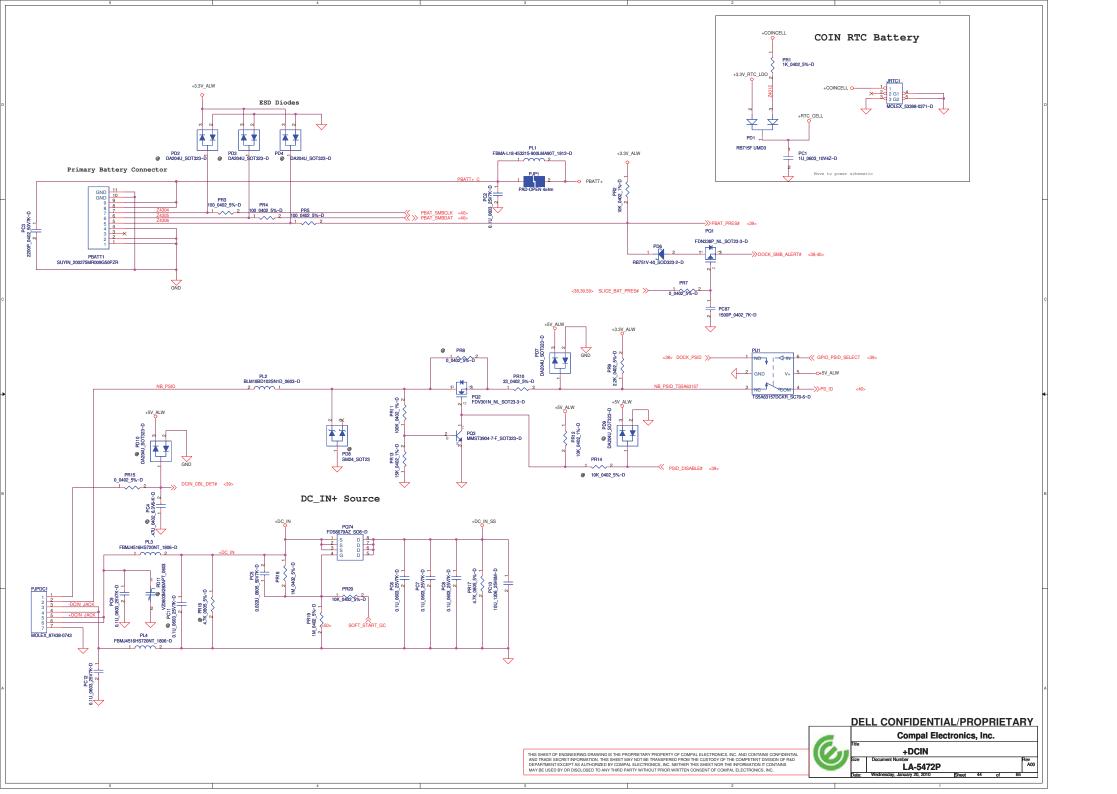
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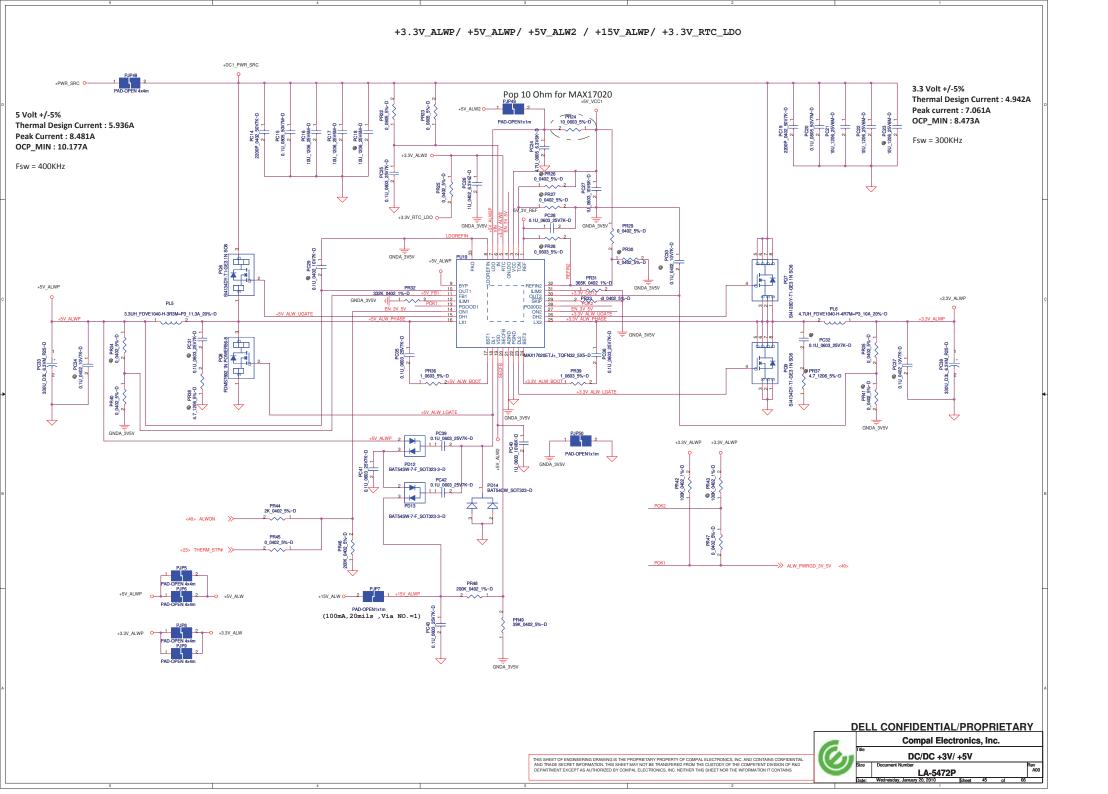


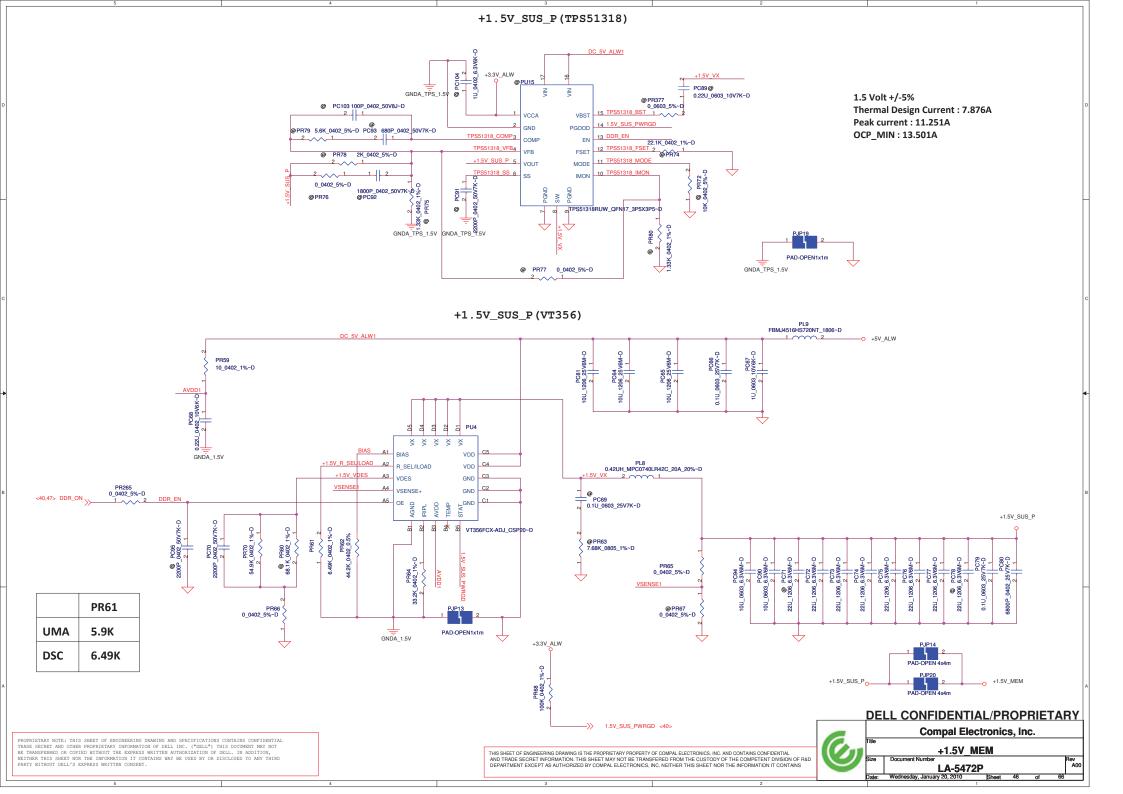
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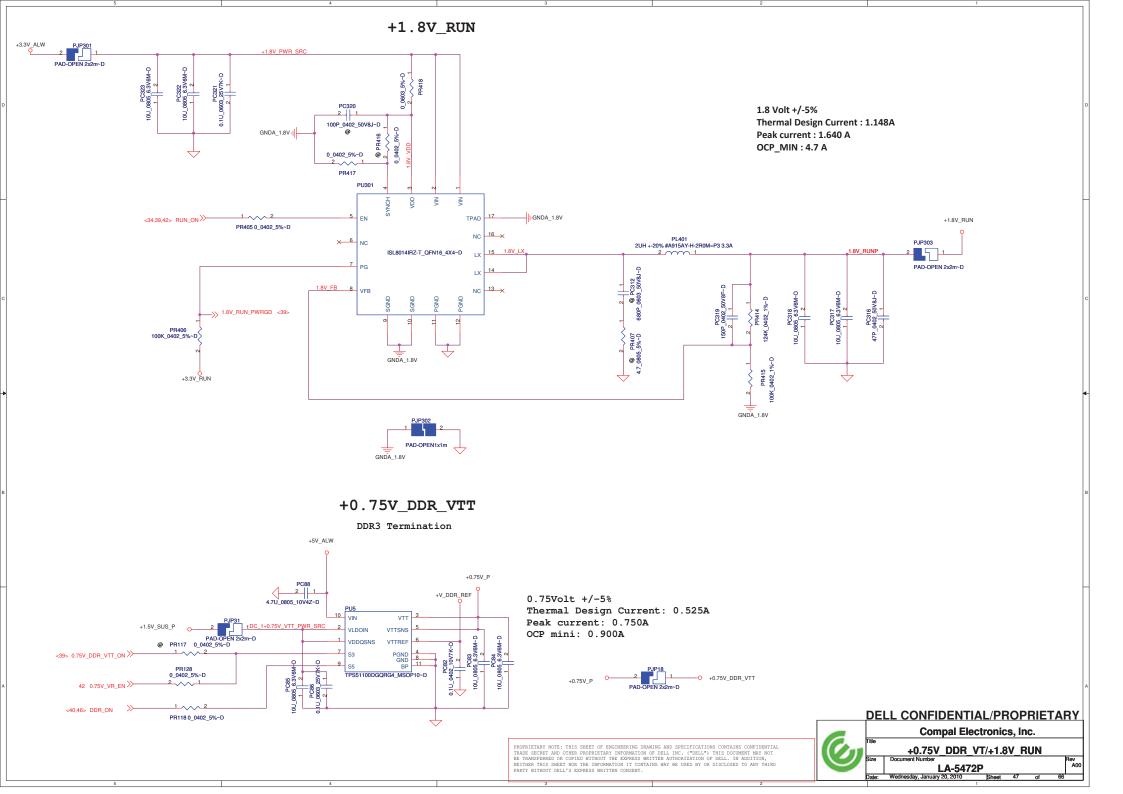


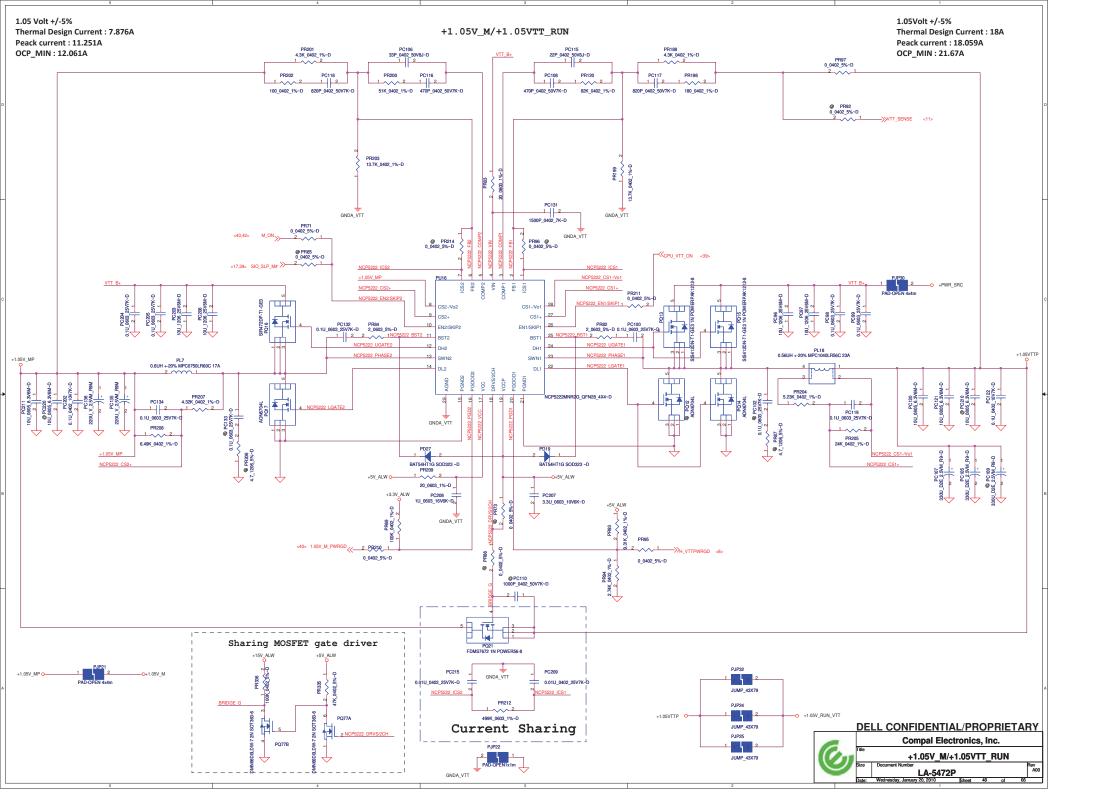


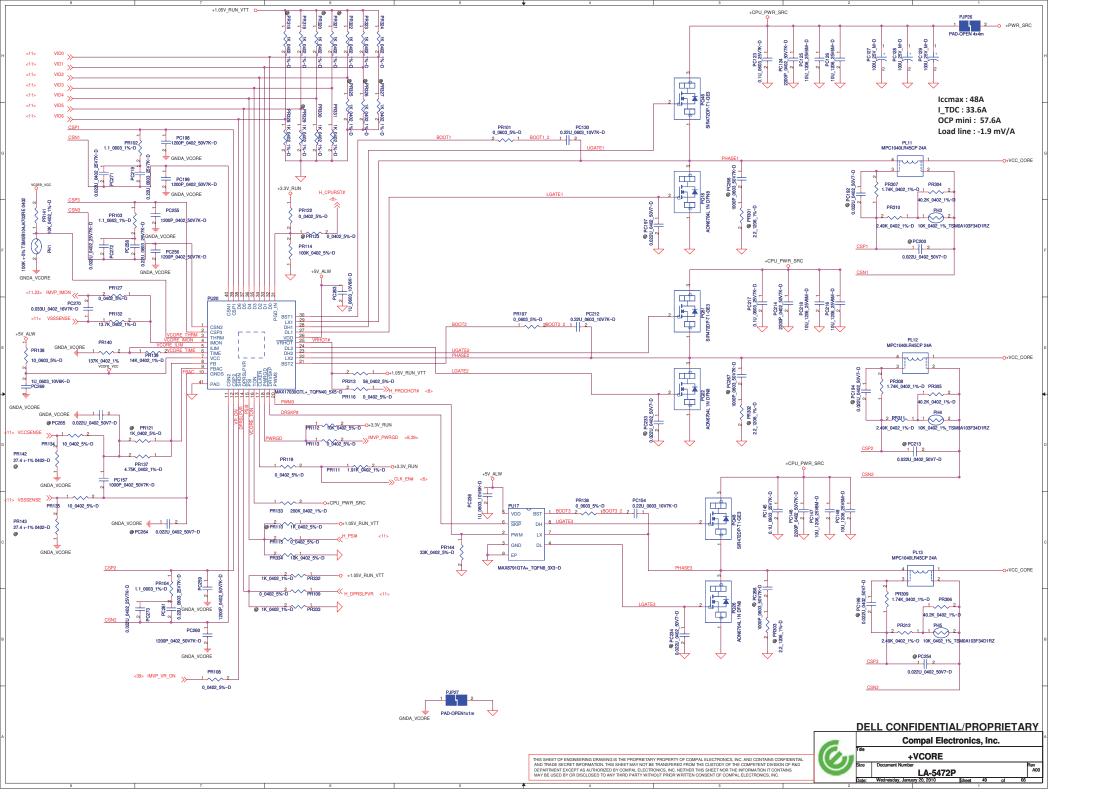


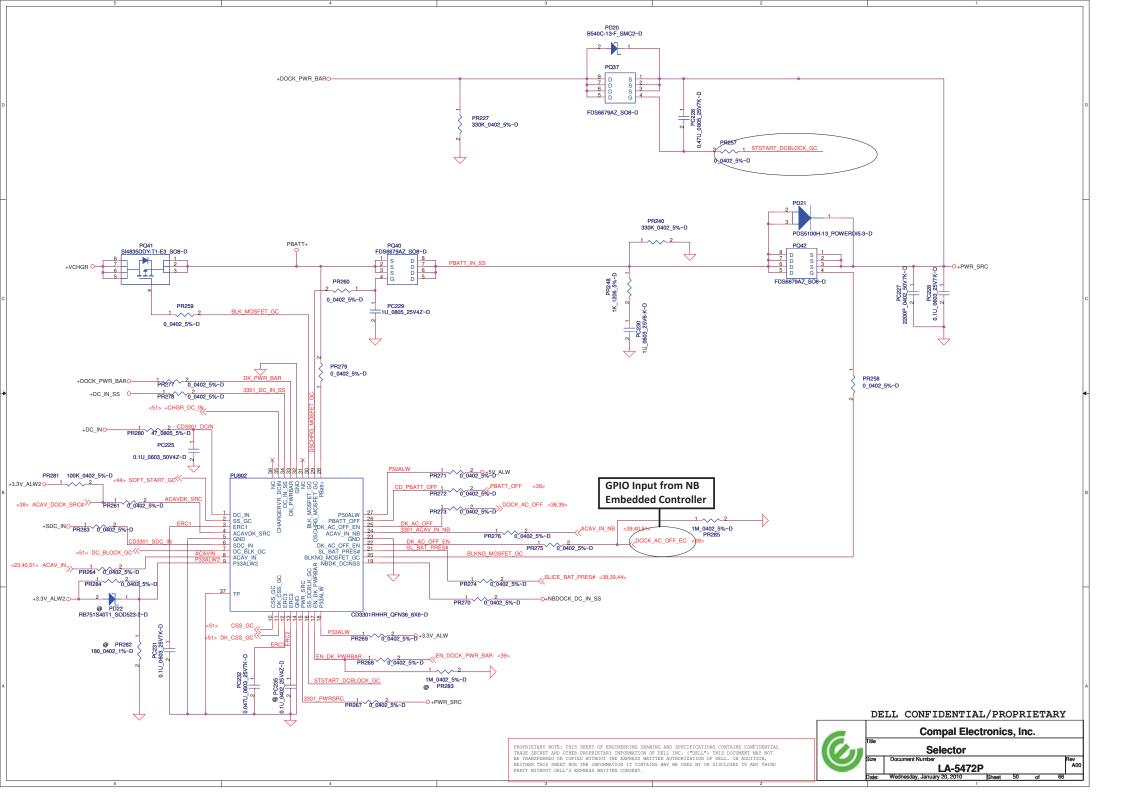


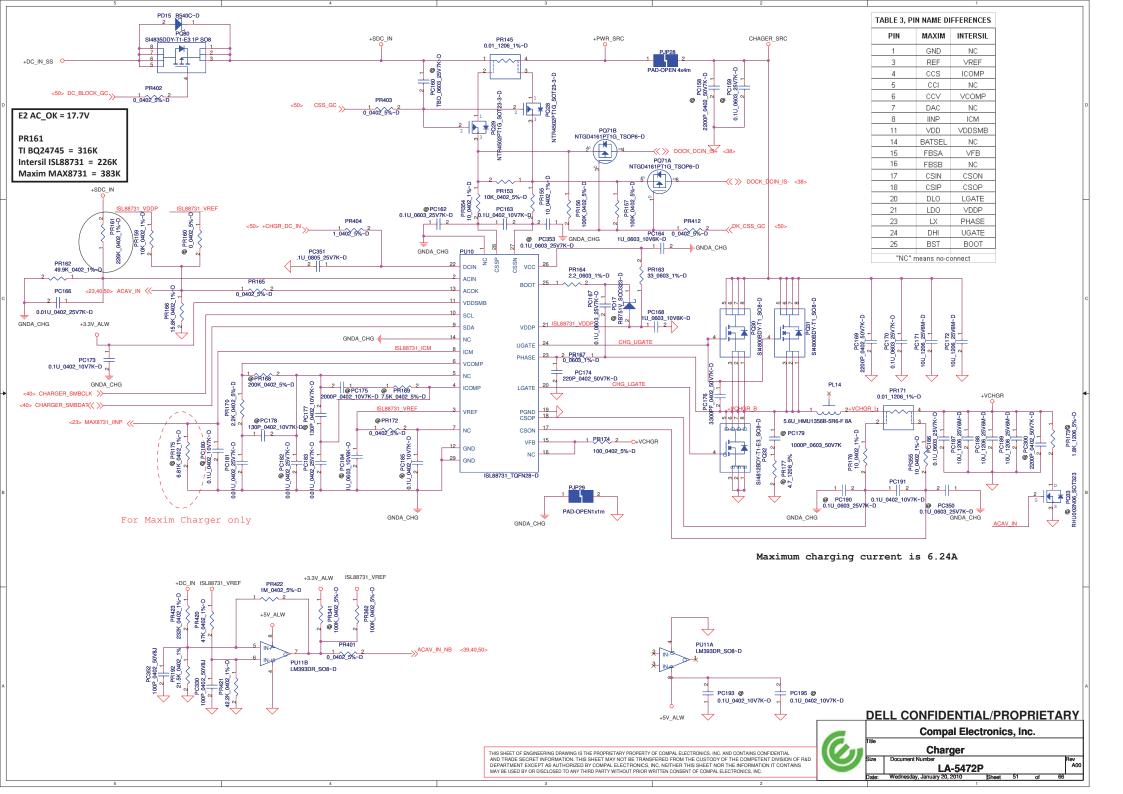


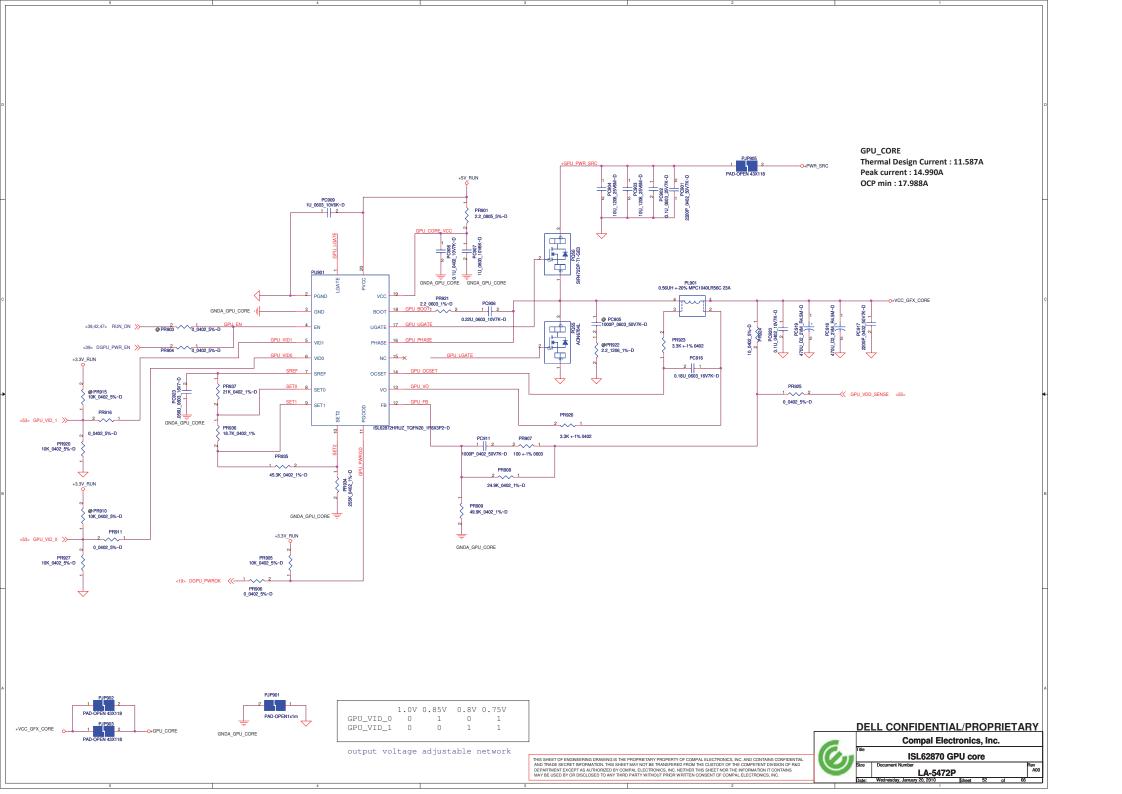


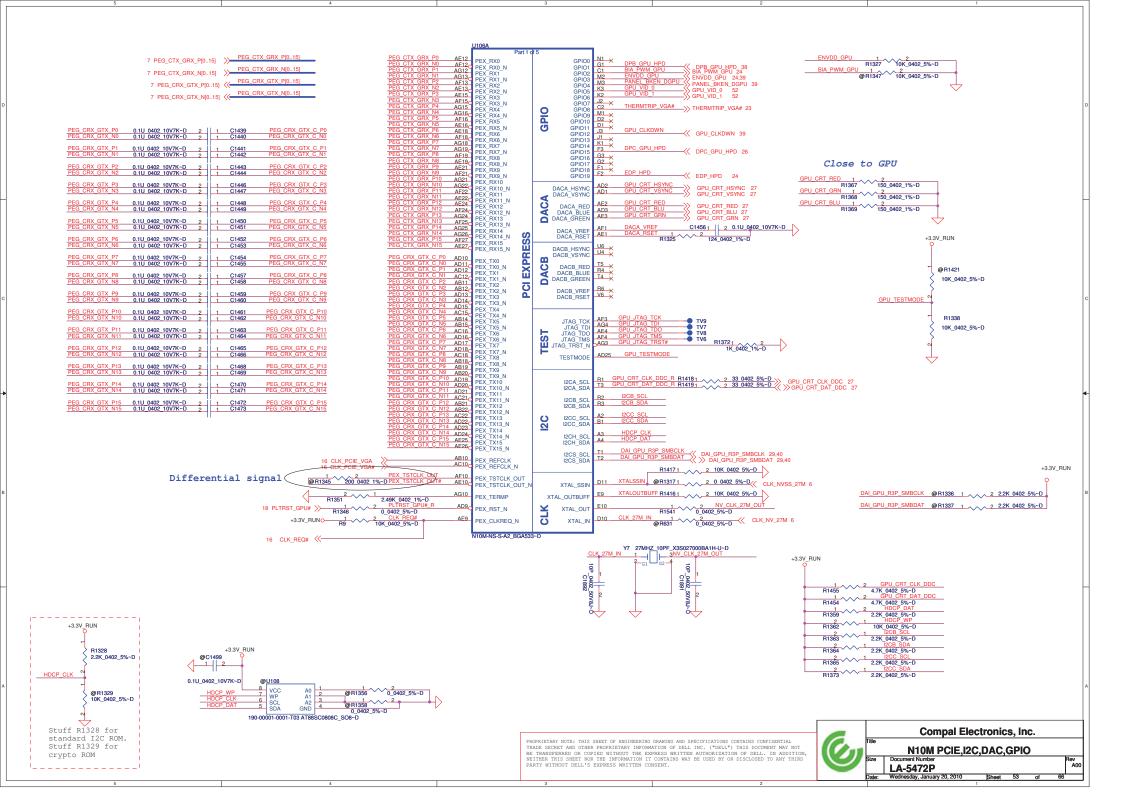


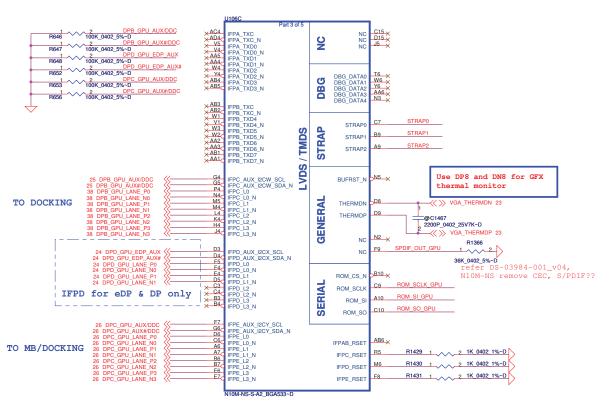












R1330 45.3K_0402_1%~D	84.8K_0402_1%~D	R1332 24.9K_0402_1%~D	® R1333 4.99K_0402_1%~D	® R1334 4.99K_0402_1%~D	@ R1335 4.99K_0402_1%~D	STRAPO STRAPI	
						STRAP2	
						ROM SCL	K_GPU GPU GPU
			1			ROM_SI_0	3PU
					Ţ.,	ROM_SO	_GPU
	@ R1340 34.8K_0402_1%~D	@ R1341 4.99K_0402_1%~D	H1342 15K_0402_1%~D	X76@ R1343 15K_0402_1%~D	R1344 10K_0402_1%~D		
					_		
					_	/	

+3.3V\_RUN

Resistor	Values	Pull-up to +3V	Pull-down to Gnd
5K		01111	11111
101	K	01110	11110
151	K	01011	11011
201	K	01001	11001
251	K	00111	10111
301	K	00110	10110
351	K	00011	10011
451	K	00000	100000

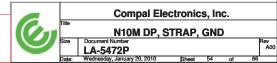
X7620431001:for Hynix 64Mx16 DDR3 part stuff R1343=15K X7620431002:For Samsung 64Mx16 DDR3 part stuff R1343=20K

STRAP0	USER[3:0]
STRAP1	3GIO_PADCFG_LUT_ADR[3:0]
STRAP2	PCI_DEVID[3:0]

ROM_SCLK	PCIDEVID_EXT, SUB_VENDOR, SLOT_CLK, PEX_PLL_EN
ROM_SI	RAM_CFG[3:0]
ROM_SO	XCLK_417, FB_0_BAR_SIZE, ALT_ADOOR, VGA_DEVICE

ROM_SCLK	PCIDEVID_EXT, SUB_VENDOR, SLOT_CLK, PEX_PLL_EN
ROM_SI	RAM_CFG[3:0]
ROM_SO	XCLK_417, FB_0_BAR_SIZE, ALT_ADOOR, VGA_DEVICE

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GND

U13 U14

W11

W14 W17

Y23 Y26 AC2

AC2 AC5 AC6 AC8 AC11 AC14 AC17 AC20

AC23 AC26 AF2 AF5 AF8 AF11

AF14

AF17 AF20 AF23

AF26

A15 1 2 R1433 40.2\_0402\_1%~0

F11 1 2 R1467 40.2K\_0402\_1%~D

GND

FB\_CAL\_PU\_GND

GND\_SENSE MULTI\_STRAP\_REF0\_GND

B5 B8 B11

B14 B17 B20 B23 B26 E2 E5 E8

E11

E17

E20 E23 E26

H2 H5 J11 J14

K19 L2 L5 L11 L12 L13 L14

L17 M12

M13

M14 M15 M16

P2

P19 P23 P26 T12

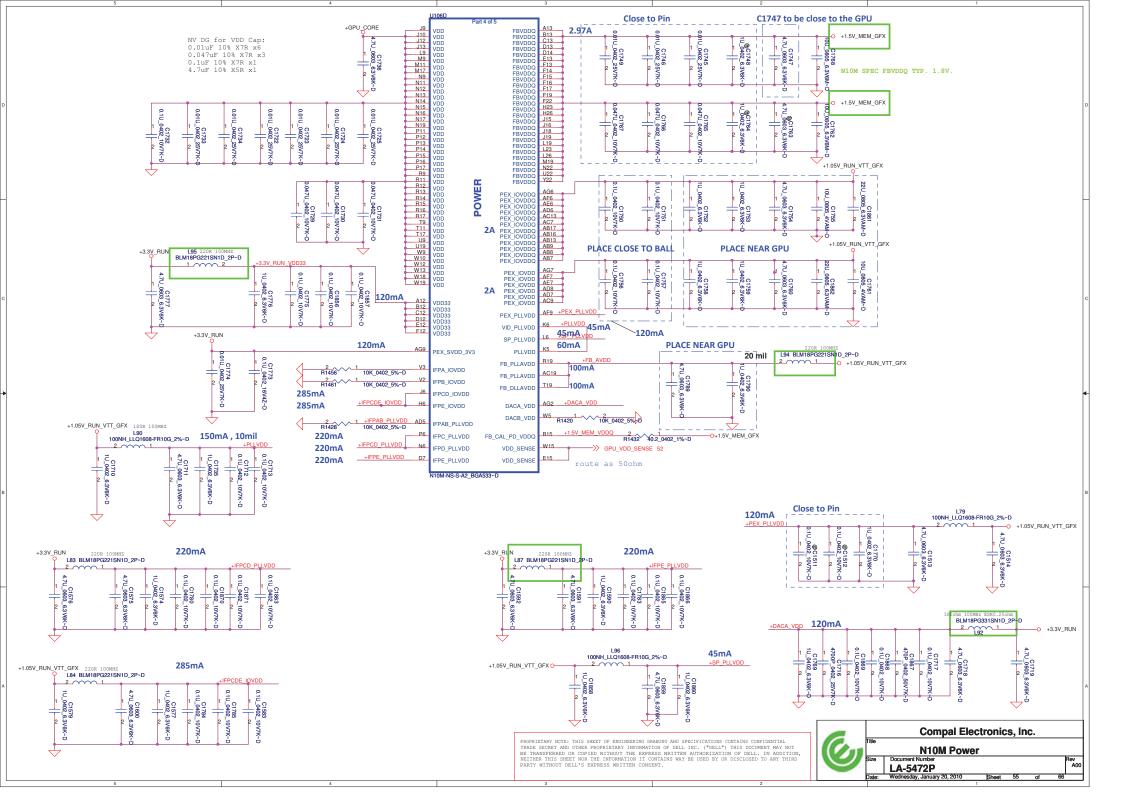
T13

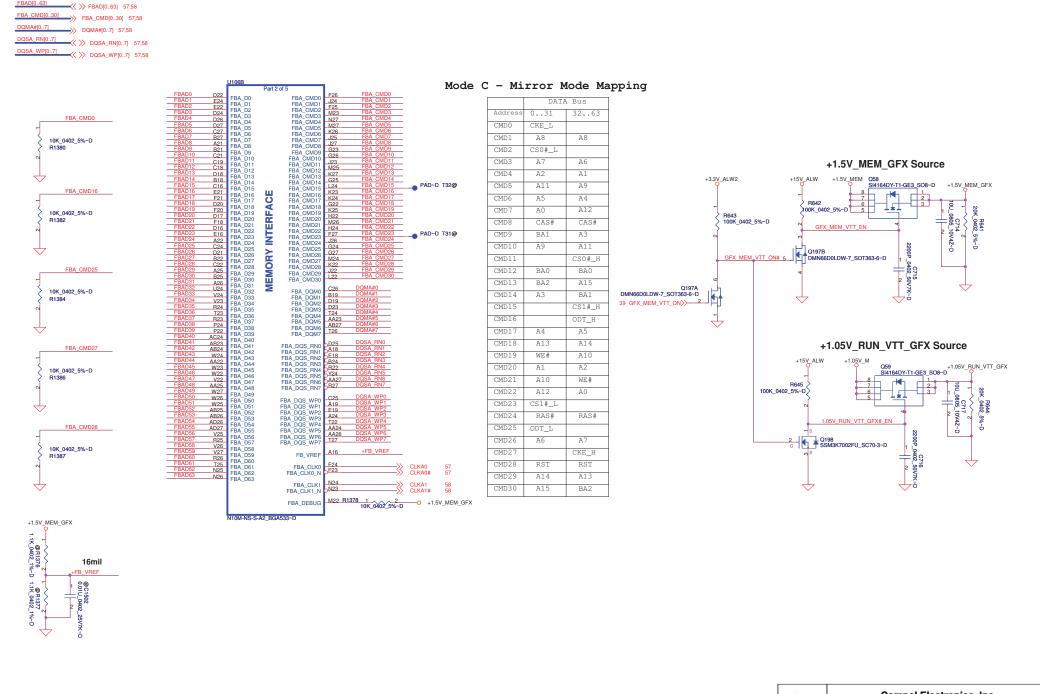
W16

E14

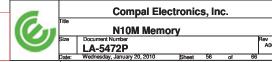
GND

GND

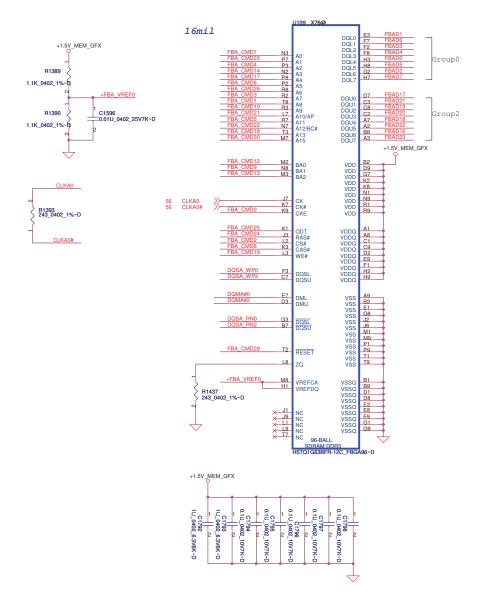


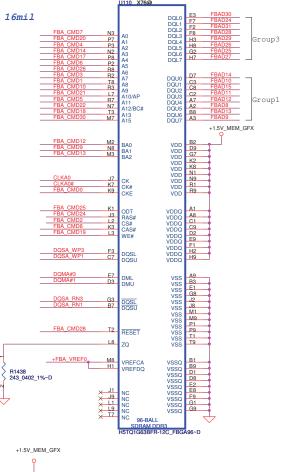


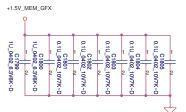
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### Memory Partition A - Lower 32 bits



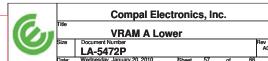




### Mode C - Mirror Mode Mapping

	DATA	A Bus
Address	031	3263
CMD0	CKE_L	
CMD1	A8	A8
CMD2	CS0#_L	
CMD3	A7	A6
CMD4	A2	A1
CMD5	A11	A9
CMD6	A5	A4
CMD7	A0	A12
CMD8	CAS#	CAS#
CMD9	BA1	A3
CMD10	A9	A11
CMD11		CS0#_H
CMD12	BA0	BA0
CMD13	BA2	A15
CMD14	A3	BA1
CMD15		CS1#_H
CMD16		ODT_H
CMD17	A4	A5
CMD18	A13	A14
CMD19	WE#	A10
CMD20	A1	A2
CMD21	A10	WE#
CMD22	A12	A0
CMD23	CS1#_L	
CMD24	RAS#	RAS#
CMD25	ODT_L	
CMD26	A6	A7
CMD27		CKE_H
CMD28	RST	RST
CMD29	A14	A13
CMD30	A15	BA2

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## Memory Partition A - Upper 32 bits

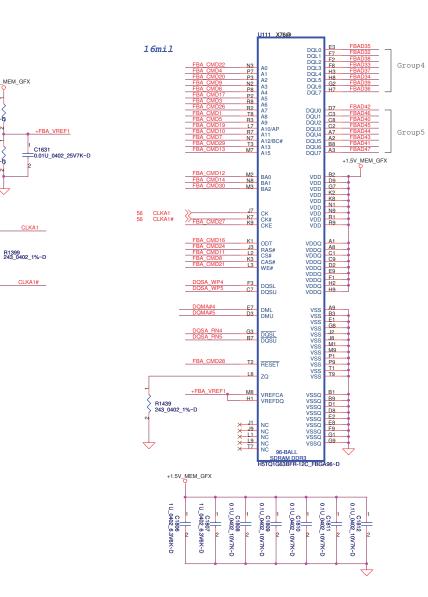
+1.5V MEM GFX

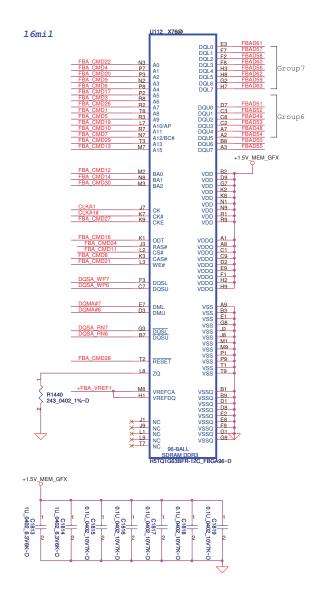
R1395

R1396

1.1K\_0402\_1%~b

1.1K 0402 1%~B





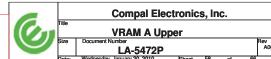
FBAD[0..63] FBAD[0..63] 56,57 >> FBA CMD[0..30] 56,57 ✓ 

DQSA WP[0..7] 56,57

### Mode C - Mirror Mode Mapping

	DATA	A Bus
Address	031	3263
CMD0	CKE_L	
CMD1	A8	A8
CMD2	CS0#_L	
CMD3	A7	A6
CMD4	A2	A1
CMD5	A11	A9
CMD6	A5	A4
CMD7	A0	A12
CMD8	CAS#	CAS#
CMD9	BA1	A3
CMD10	A9	A11
CMD11		CS0#_H
CMD12	BA0	BA0
CMD13	BA2	A15
CMD14	A3	BA1
CMD15		CS1#_H
CMD16		ODT_H
CMD17	A4	A5
CMD18	A13	A14
CMD19	WE#	A10
CMD20	A1	A2
CMD21	A10	WE#
CMD22	A12	A0
CMD23	CS1#_L	
CMD24	RAS#	RAS#
CMD25	ODT_L	
CMD26	A6	A7
CMD27		CKE_H
CMD28	RST	RST
CMD29	A14	A13
CMD30	A15	BA2

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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	40	HW	7/13/2009	COMPAL	Board ID	R98 change to 130k ohm	X01
2	30	HW	7/13/2009	COMPAL	follow M09 +3.3V_LAN enable control circ	cuit Depop R47	X01
3	8, 12, 13, 42	HW	7/13/2009	Intel	Intel S3 reduction circuit.	Add R1469, R1497~R1505, R1507~R1509, C1875, C1878~C1884, Q199~Q202, Q205, Q207, Q208, U141, PJP906, PJP907, change R879 to 1.5K, R880 to 750ohm, R624 to 22 ohm, change CPU CDDQ power source from +1.5V_MEM to +1.5V_CPU_VDDQ, change +.075_DDR_VTT discharge gate from RUN_ON_ENABLE# to RUN_ON_CPU1.5VS3#, add +1.5V_CPU_VDDQ discharge circuit, add net "DDR_HVREF_RST_GATE" from U36.A34 to Q119.2, "CPU1.5V_S3_GATE" from U36.A36 to R1501	х01
4	31	HW	7/23/2009	Broadcom	Change C718 value	Change C718 from .47uF to .22uF	X01
5	23	HW	7/23/2009	DELL	Follow DELL request to remove R3P circu	Delete U140, R136, R138, R156,R507, R516, R519, R529, R531, R534~R536, R594, R1457, R1458, R1462, R1463, C434, C72, C73, C391, C406, pop R142, D2, C219	x01
6	41,37	HW	7/23/2009	Compal	Per M09 lesson learn request	Re-define JTP1, JBI01	х01
7	19	HW	7/23/2009	Intel	GPIO1, 6, 7 need to PU if no used.	Add R1506, R1510	x01
8	40 43	HW	7/23/2009	Compal	Follow SMSC5045 spec	Add R1512, @C1885, C1886, change R560 to 100Kohm, add net name LAT_ON_SW#_R	x01
9	31	HW	7/23/2009	Broadcom	Remove RFID disable circuit	Remove R1062~R1065	x01
10	24	HW	7/23/2009	Compal	CAM Module change from 7 pin to 8 pin	Change pin define for JEDP1	x01
11	31	HW	7/23/2009	Broadcom	R898 and R485 pop at the same time	Depop R898	x01
12	24	HW	7/29/2009	Compal	NVidia BIA_PWM implementation	POP R165, de-pop R166	x01
13	8,15	HW	7/29/2009	Compal	Depop all related components where are located at 0 Z-hight area	Depop JXDP1, JXDP2, JDEG1, JP2 connector	х01
14	42	HW	7/29/2009	Compal	For load switches Vout over 5% range concern by power team .	Change Q151 to SIS406D,Q183 to SI7658ADP,Q58 to SI4164DY	х01
15	42	HW	7/29/2009	Compal	Backdrive EA Failure on RAM	Pop R625 and Q79, change R625 to 0603 size.	х01
16	21	HW	7/29/2009	Intel	The PLLs aren't used in a DIS system	De-pop C105 & C106	x01
17	36,39	HW	7/29/2009	DELL	Reconnect the signal UWB_RADIO_DIS#	Connect UWB_RADIO_DIS# from EC5028.A56 to MINI3.20	X01
18	24	HW	7/29/2009	PERICOM	Pericom 8200 SW issue DVI can not work	Add R1516 to pull up U9 pin 23 (P1_OC0) of Pericom 8200 SW with a 4.7K ohm resistor to +3.3_RUN	x01
19	29	HW	7/29/2009	Compal	EMI solution.	Change R1295 to L4 (220ohm) and R1217 from 22ohm to 47ohm.	x01
20	42	HW	7/29/2009	Compal	Base on de-rating report.	Change Q61 from AO4456 to NTMS4107.	x01
21	37, 39	HW	7/29/2009	Compal	GPIO MAP update	Add reserved R1513 between U95.18 and +3.3V_RUN, add R1514 between U95.18 and 5028.A47 named EN_ESATA_RPTR. DELL CONFIDENTIAL/PROF	X01 RIETARY
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Item		Title	Date	Request Owner		Solution Description	Rev.
22	31	HW	7/29/2009	Broadcom	Resolve 5882 leackage issue	Add R884, R1515, Q209, Q210	X01
23	31	HW	7/29/2009	Broadcom	Resolve smart cart can't work problem.	pop R775, R537, depop R776.	X01
24	36	HW	7/29/2009	Compal	Change PU power rail for USB_MCARD1_DE	T# Change USB_MCARD1_DET# PU power rail to +3.3V_RUN	X01
25	31	HW	7/29/2009	Compal	Remove R1061 to avoid double PU and pr back-drive path.	Ovide Remove R1061	x01
26	21	HW	7/29/2009	Compal	Follow the pop option on CRB1.6 to dep C39 for +VCCACLK, C610 for +SATAPLL, C and C112 for +1.05V_M_VCCEPW		X01
27	15	HW	7/29/2009	Compal	Base on crystal EA result.	Change external Load Capacitor Value C296 and C297 to 12 pF of Y1.	X01
28	30	HW	7/29/2009	Compal	Base on crystal EA result.	Change external Load Capacitor Value C476 to 33 pF and C427 change to 200 ohm (R808) of Y2.	X01
29	40	HW	7/29/2009	Compal	Base on crystal EA result.	Change external Load Capacitor Value C674 and C675 to 33 pF of Y4.	x01
30	33	HW	7/29/2009	Compal	Base on crystal EA result.	Change external Load Capacitor Value C514 and C515 to 22 pF of X3.	X01
31	29	HW	7/29/2009	Compal	EMI solution.	Change R1215 from 22ohm to 47ohm.	X01
32	29	HW	7/29/2009	Compal	Prevent floating of PCH_GPIO34	Add R1511 10K PD.	X01
33	38	HW	7/29/2009	Compal	Based on DFX team request	Change docking connector from SP030000F0L(JAE_WD2F144WB1_144P-T) to SP030000F0L(JAE_WD2F144WB1R300_144P).	x01
34	36	HW	7/29/2009	Compal	Change PU power rail for PCIE_MCARD3_D	ET# Change PCIE_MCARD3_DET# PU power rail to +3.3V_RUN	X01
35	18 35	HW	05/08/2009	Compal	Remove Braidwood circuit.	Delete R1411,R1453,JBW1	X01
36	36	HW	05/08/2009	Compal	Base on SATA EA result, need to trun o Pre-emphasis 0.	ff Depop R1298,pop R1301.	x01
37	33	HW	10/08/2009	Compal	Base on crystal EA result.	Change C514 C514 to 15pF and R421 to 100 ohm.	X01
38	38	HW	11/08/2009	Compal	Change VGA_ID_DISC & VGA_ID_UMA PU powe	Change VGA_ID_DISC & VGA_ID_UMA PU power rail from +3.3V_RUN to +3.3V_ALW	X01
39	38	HW	11/08/2009	Compal	Change ODD_DET# PU power rail.	Change ODD_DET# PU power rail to +3.3V_RUN	X01
40	41	HW	11/08/2009	SMSC	Watch dog timer may not be reseted when EMC4002 VDD_PWRGD is not completely at Low.	Add discharge circuit for ±3 3V M	X01
41	23	HW	11/08/2009	SMSC	SMSC review feedback	The pull-up source of the R150 should be changed to +VCC_4002	X01
42	39	HW	11/08/2009	SMSC	per SMSC 5045 AN 19.6, 4002 AN 16.11	R541, R554, R1512 should be 10K.	X01
43	23	HW	11/08/2009	Compal	FAN1_DET# should have 10K PU to +3.3V_M	Add R1517	X01
44	31	HW	11/08/2009	Broadcom	Follow Broadcom request	Delete T159, R494, R498, R631, R634, R898, C640, C641, C642 C647, C1026, L73, add R1522, C1887, C1888, change connection for R496, R497 to GND, change connection for JCSlpin3 and pin4	X01
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Item	Page#	Title	Date	Request Owner	Issue Description		Solution D	escription	Rev.
45	8	HW	11/08/2009	DELL	Fix the Intel S3 power up timing	ı	Change C1880 from 0.01uF to 0.22uF 04	102 cap.	x01
46	31	HW	11/08/2009	Broadcom	Follow Broadcom request		Change C646 to 220nF that was placed the JSC1 pin 10 (+SC_VCC).And 470nF s be at C718 near U3 (TDA8034)		x01
47	31	HW	12/08/2009	Broadcom	Follow Broadcom request		Change R497 & R496 to 0 ohm, but depo	pp	X01
48	27	HW	12/08/2009	Compal	RGB EA result		C251-C253 to 8.2pF; L61-L63 to 10-Ohr	n Bead ; De-pop C390,C518,C996	x01
49	29	HW	12/08/2009	DELL	Use the SiTimes part due to the savings	cost	Change X4 from TXC to SiTimes SIT8102	2AC3333E12T	x01
50	8	HW	12/08/2009	Intel	Intel review schematic feedback		Add R529 and C1889		X01
51	33	HW	12/08/2009	Richo	Change pop option for R5U242		Change C21 from 10U to 47U, change RA	46 to C1889 (1uF)	X01
52	31	HW	12/08/2009	Broadcom	BCM5882 pin-C1 "RSTOUT_N" is an drain I/O type, we need to have pull-up to 3.3V_ALW		Add R638		x01
53	30 36	HW	13/08/2009	Compal	Disconnect IO & DOCK VCT		Delete R652 & C41, Rename IO VCT to +1 for test.	COM_VCT_IO & reserve C712 pad	х01
54	31	HW	13/08/2009	Compal	Broadcom review request		USB_GPIO27 Should have a 0ohm but de-	-pop resistor.	x01
55	39	HW	14/08/2009	SMSC	SMSC review		Change R561 and R1046 from 1M ohm to	o 100K ohm.	x01
56	39	IIW	14/08/2009	SMSC	SMSC review		Remove R587, base on crystal EA resu	Lt that only need to change	X01
 57	10	HW	14/08/2009	Intel	Follow Intel recommand to add de	bug TP.	caps value. Add T186~T190		x01
58	31	HW	14/08/2009	Compal	Smart card EA result		Change R772 to 47 Ohm and C1015 to 3 Rise/Fail timing issue and also char		x01
59	31	HW	14/08/2009	DELL	Avoid a glitch for DDR_HVREF_RST_ please add a 1.1K 1% no-stuff pul +1.5V_CPU_VDDQ rail on the PM_DRAI signal for a back-up option	.1-up to	Change C1889 to 0.1u, add R1518 for I	PM_DRAM_PWRGD_R but depop.	X01
60	8 45	HW	14/08/2009	DELL	CPU detection since the edge diod removed from M'09	le has been	Delete T1 and add R1519 for CPU_DETEC to U36.B18	CT# and connect JCPU.AH24	x01
61	15 19 36	HW	14/08/2009	DELL	Invert the EN_ESATA_RPTR signal at this to SATAGP4/GPI016	and connect	Add Q211 and R1520 but depop,pop R15: name from GPIO16 to EN_ESATA_RPTR#	l3 and de-pop R1514 , change net	x01
62	34	HW	14/08/2009	Compal	By EMI request, pop common choke		Change Pop otion for express card, publications of the USB2,3 pop L65,L66 and reserve R1524		X01
63	30	HW	14/08/2009	Intel	By Intel request		Add R1528 for LAN_REQ#		x01
64	37	HW	17/08/2009	Intel	Adding stitching caps near the DO traces where it crosses over plan		Add C1028		x01
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65	38	HW	8/19/2009	NV	Solve DVI issue	Add Q213-Q218,R1523,R1530~R1540	X01
66	26	HW	8/19/2009	Pericom	8200 pin 8,9 add caps to minimize r	noise Add C1597 & C1598	X01
67	53	HW	8/19/2009	NV	Reserve crystal for 27M.	Add @R1541,@Y7, @C1891, @C1892	X01
68	24	HW	8/20/2009	Compal	Follow Marguax schematic	Depop R279,R1027	X01
69	53	HW	8/20/2009	Compal	Add PU/PD resistor for 8200 back-up	p plan Add R1542~R1544, but depop.	X01
70	35	HW	8/24/2009	Compal	Add PD resistor for back-drive issu	ue Add R1545~R1547	X01
71	24	HW	8/25/2009	Compal	No need PD/PU resistors at EDP AUX	channel Delete R279 & R1027	X01
72	21	IIW	8/25/2009	Compal	Add by pass caps	populate C39 & C610	X01
73	42	HW	8/25/2009	Compal	Un-populate pop option for double discharge path	Un-populate R612,R607 and R1498	X01
74	11	HW	8/25/2009	Compal	Base on power team FDIM test	Change C48,C49,C50,C51,and C52 to 22uF.	X01
75	30	HW	8/26/2009	Intel	Follow Intel WW35 `09	Change R808 to C427 10pF and change C475 to 33pF	X01
76	53	HW	8/27/2009	Compal	Follow Marguax to populate 27MHz crystal for PT build.	Populate Y7,C1891,C1892,R1541 and de-pop R631	X01
77	6,53	HW	9/28/2009	Compal	Populate 27MHz crystal.	Depop R43,R39,R1317, pop R1417	X02
78	17	HW	9/28/2009	Intel	Follow Intel DG 1.62	Change R672 to 1K_0402_5%.	X02
79	15,18	HW	9/28/2009	Compal	Depop XDP circuit component	Depop R118,R94	X02
80	53	HW	9/29/2009	NV	GPU_JTAG_TRST# should be pull down	Pop R1372 and cahnge to 1K 0hm.	X02
81	40	HW	10/20/2009	Compal	Depop R5	Depop R5 for double pull down	X02
82	33	HW	10/20/2009	Compal	Follow DFX recommendation change JS footprint to modify screw hole.	SD1 Chnage FOX_2WX131A1-31DD-7F_20P-T to FOX_2WX131A1-31DD-7F_18P.	X02
83	36	HW	10/20/2009	Compal	Correct USB_MCARD2_DET# PU power ra		X02
84	17	HW	10/20/2009	Compal	Follow schematic check list 2.0, che resistor value	hange Chnage R268 from 1K to 10K	X02
85	16	HW	10/20/2009	Compal	Change R910 value and placement	Change R910 form 0 ohm to 22 ohm and place near PCH side.	X02
86	37	HW	10/26/2009	Compal	Chnage USB common choke by EMI requ	uest Change L95 L96 from DLW21SN900SQ2_0805~D to HCMC0805-900MFS_4P~D	X02
87	23	IIW	10/26/2009	Compal	Change OTF temperature	change R151 from 953chm to 1.82Kohm	X02
88	53	HW	10/27/2009	Compal	To solve 27 Mhz noise issue	Connect Y7 pin 2 and 4 to GND.	x02
89	31	HW	10/27/2009	Broadcom	For 5882-B0 request	L71, L72 68nH, 2%, 400mA; C1070, C1071 1500pF, 2%, 50V; C1886, C1887 150pF, 2%, 50V	x02
90	15	HW	10/29/2009	Compal	Change flash ROM part number	Due to W25X32VSSIG will be EOL, change part number to W25Q32BVSSIG.	X02
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						Compal Electronics, In	
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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
91	16	HW	10/29/2009	Dell	MEM SMBus design needs to change	Move Q190 connection, add R1549,R1550, add net name DDR_XDP_CLK/DAT	X02
92	29	HW	10/29/2009	Compal	Create a low pass filter with the p at 36kHz to filter out of band nois		x02
93	40	HW	11/02/2009	Compal	Change BID	Change R98 form 130K ohm to 33K ohm.	x02
94	8,15	HW	11/02/2009	Compal	To avoid stub for SM bus EA quality not use.	XDP is Add R1551~R1556 but depop	x02
95	36	HW	11/02/2009	DELL	Support WiMax LED status	Need to populate R840	x02
96	43	HW	11/05/2009	Compal	To avoid golden finger was scraped	on FFC. Change sniffer connector from TYCO_1-1734820-2 to TYCO_1-2041070-2.	x02
97	41	HW	11/05/2009	Compal	Chnage TP SMbus PU power rail.	Change power rail from +5V_ALW to +3.3V_ALW	X02
98	31	HW	11/05/2009	BRCM	Delete 2nd ROM for BRCN5882	By BRCM review result , delete U14.	X02
99	24	HW	11/10/2009	Compal	LCD power sequencing issue	change R161 from 470 to 100 ohm .	x02
100	19	HW	11/11/2009	DELL	PCH driving the siganl low at GPIO1 initial.	Add R1557 2.2K PU resistor to +3.3V_ALW_PCH on the SIO_EXT_WAKE# signal.	X02
101	15	HW	11/11/2009	DELL	To change the pin on the EC side to and add a pull-up to PCH's core wel	Add D1558 10K DH register to 13 3V DHN on the ME EWD gigns!	X02
102	15,40	HW	11/11/2009	Compal	RTC timing issue	Y1 & Y4 change from 1TJS125DJ4A420P to Q13MC30610018.Opreating temperature should -40~+85 degree to meet test requirement.	x02
103	19	HW	11/17/2009	Compal	Chnage GPIO34 of PCH from PD to PU	Change from PD to PU +3.3V_RUN	x02
104	31	IIW	11/17/2009	Compal	Follow Marguax schmatic and it also pass smart card EA.	could To change R772 from 47 ohm to 22 chm	X02
105	31	HW	11/17/2009	Compal	To solve touch pad ESD issue	Change L41 and L42 to 100 ohm (R1564 & R1565)	x02
106	15	HW	11/19/2009	Compal	Follow Intel check list rev2.0	Change R2244 to tolerance from 5% to 1%	x02
107	15	HW	11/19/2009	Compal	Follow DGU 414044 Rev2.0	Depop R123 ,R804-807 and R1281,R1282 R1315.	X02
108	38	HW	12/22/2009	Compal	Simplo battery slice EMI issue	Add C1897 and C1898(Depop, reserve for EMI test)	A00
109	37	HW	12/22/2009	Compal	DFB issue ,finger printer connector will easy shift during reflow proce	Change finger printer connector from TYCO_1734242-6_6P-T to ss. TYCO 2041070-6 6P-T	A00
110	31	HW	12/22/2009	Compal	By Broadcom recommend	Change L71,L72 from 68nH to 150nH, C1070,C1071 from 1500pF to 390pF.C1887,C1888 from 150pF to 390pF.	A00
111	32	HW	12/22/2009	Compal	Change TCM to T1 version	Change TCM from SSX44B-D-T to SSX44-D-T1	A00
112	40	HW	12/22/2009	Compal	Change BID	Change R98 form 33K ohm to 1K ohm.	A00
113	08	HW	12/22/2009	Compal	Depop CPU XDP and JTAG circuit for production systems	for Depop C19,C20,R6,R68,R19,R7,R3, R780~R785,R22,R24,R1153,R1156,R66,R1241,R1257	A00
114	15	HW	12/22/2009	Compal	Depop PCH JTAG circuit for for prod		A00
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115	33,34	HW	01/07/2010	Compal	Change R5U2542 form ES2 to ES3	Change part number from SA00003C21L to SA	0003C22L	<b>A</b> 00
116	27	HW	01/14/2010	Compal	RGB EMI issue	Change L61,L62,L63 from 10nH to 27nH, C25 8.2pF to 2pF and pop C390,C518,C996	,C252,C253 from	A00
117	37	HW	01/15/2010	Compal	Change SATA repeater part to power s part	Change U95 to SA00003P10L		A00
118	26	HW	01/19/2010	Pericom	Pericom DP SW DP8200 has new silicon W version in stead of Y version	Change U9 to SA00003CD2L		A00
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Item	Page#	Title	Date	Request Owner	Issue Description	Solution Description	Rev.
1	50	Selector	7/20	TI	CSS GC logic wrong issue	Add PR282 180_ohm to GND	X01
2	46	1.5V_MEM	7/20	Compal ADC Guangyong	Add droop resistor for TI solution	Add PR77	X01
3	45	+3.3V/+5V	8/17	Compal ADC Guangyong	Change 3V/5V choke for cost down	change PL5 from SH00000H90L to SH00000FN0L change PL6 from SH00000HB0L to SH00000HR0L	X01
4	50	Selector	8/17	Compal	Add 1M_ohm pull down to fix ACAV_IN_NB oscillation when battery mode S5	Add PR283	x01
5	50	Selector	8/17	TI	new version CD3301 (PG2.1) don't need PD22 and PR282	depop PD22 add PR282, pop PR430	x01
6	50	Selector	8/17	TI	DOCK_AC_OFF_EC floating issue	add PR285	X01
7	52	ISL62872_GPU	8/17	Dell / intersil	change PU901 to ISL62872 to support NV VID fixture	change PU901 to ISL62872 from ISL62870 and support circuit.	X01
8	49	+VCORE MAX17030	8/17	Compal	change thermistor package from 0603 to 0402 for cost down	Change PH3,PH4 and PH5 from SL200000BOL to SL200000WOL	X01
				†		Change PC314 from SE00000868L(22u/0805) to SE00000000L(100u/1206)	
						Change PR409 from SD03480618L (8.06k) to SD03460418L (6.04k)	
						Change PR410 from SD03440218L(4.02k) to SD03430118L(3.01k)	
						Change PR408 from SD014402A8L(40.2 Ohm) to SD000008H8L(51 Ohm)	
_9	47	1.8V_RUN	8/18	MAXIM	Output ripple voltage unstable issue	Change PC315 from SE000003W8L(820pF) to SE076333K8L (3300pF)	X01
						Change PR411from SD00000268L(6.98K) to SD03445318L(4.53K)	
						Change PC310 from SE074102K8L(1000P) to SE074472K8L(4700pF)-	
						Change PC309 from SE071330J8L (33pF) to SE071560J8L (56pF)	
						Change PC311 from SE042104K8L(.1u/0603/25V) to SE076104K8L(.1u/0402/16V)	
						Add PR413 SD02800008L (0 Ohm)	
				T		Change PR102, PR103 and PR104 from SD013220B8L(2.2) to SD00000V98L(1.1)	
		, was no				Change PR310, PR311 and PR312 from SD03430118L(3.01k) to SD03424918L(2.49k)	
10	49	+VCORE MAX17030	8/20	Maxim	Vcore FDIM issue	Change PR307, PR308 and PR309 from SD03422118L(2.21k) to SD03417418L(1.74k)	X01
						Change PR137 from SD03449910L(4.99k) to SD03447518L(4.75k)	
						Add PC271,PC272 and PC273 SE075223K8L(0.022uF)	
11	48	+1.05VM/ +1.05VTT	8/20	ON	Fine tune DC accurcay	Change PR188 and PR201 from SD03451018L(5.1k) to SD00000U28L (4.3k) Change PR199 and PR203 from SD03416228L(16.2k) to SD03413728L(13.7k) Change PR198 from SD03468008L(680 Ohm) to SD03418008L(180 Ohm) Change PR202 from SD03468008L(680 Ohm) to SD0341008L(100 Ohm) Change PC108 and PC116 from SE074331K8L(330p) to SE074471K8L(470p) Change PR200 from SD00000DM0L(200k) to SD03451028L(51k) Change PC115 from SE071300J0L(SE071300J0L) to SE071220J8L(22P) Change PC106 from SE071300J0L(30P) to SE071330J8L(33P) Change PR204 from SD03447518L(4.75K) to SD03452318L(5.23K) Change PR205 from SD03444228L(44.2K) to SD03424028L(24K) Change PR207 from SD030000LZ0L(3.83K) to SD00000J20L(4.32K) Change PR208 from SD03482518L(8.25k) to SD03464918L(6.49k)	X01
	1				1.8V transient 0.1A ~ 1.6A	Change PU301 from SA00003B10L(MAX15050) to	X01

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13	49	Vcore	8/25	MAXIM	Improve DC accuracy	Change exposed pad to PGND from AGND	X01
14	49	Vcore	8/25	MAXIM	Vender recommend PSI# pull down 10k	Change PR334 from SD03410018L (1k) to SD02810028L(10k)	X01
15	51	Charger	8/25	Compal ADC Guangyong	Improve charger choke saturation current at 100 degree C	Change PL14 from SH04856AM8L (5.6u) to SH00000160L (5.6u)	x01
16	44	DCIN	8/25	Compal	3.3V_ALW2 black driver issue with RTC battery only	Change PD1 from SC100000Q0L(BAT54CW) to SCSB715F08L (RB715F)	x01
17	49	Vcore	8/27	Compal	Reseve resistor pad for debug	Add PR122 and PR123	x01
18	52	GPU_Core	9/01	Intersil	PR916 and PR911 for debug change to 0 Ohm	Change PR916 from SD02810018L(1K) to SD02800008L(0 Ohm) Change PR911 from SD02810018L(1K) to SD02800008L(0 Ohm)	x01
19	49	Vcore	9/01	MAXIM	Fine tune Imon time constant meet Intel SPEC 300uS~500uS	Change PC270 from SE075223K8L (0.022U) to SE076333K8L (.033U)	x01
c 20	49	Vcore	9/01	MAXIM	Make sure DPRSLPVE low level under 0.33V	Change PR109 from SD03449908L (499 Ohm) to SD02800008L (0 Ohm)	X01
21	52	GPU_Core	10/06	NV	GPU_CORE defult setting should be 1V for faster to boot to system and short warm up time for GPU	Depop PR910 and POP PR927	x02
22	44	DC_IN	10/13	TI	High inrush current on DC_IN when AC adapter plug in	Change PR20 from SD02800008L(0 Ohm) to SD02810028L(10k)	x02
<b>→</b> 23	49	Vcore	10/20	MAXIM	3 phase overlap issue with 2nd source MOSFET	Add PC198, PC199, PC255, PC256, PC259 and PC260 SE074122K8L (1200pF)	X02
24	48	+1.05VTT	10/28	INTEL	Fine tune H_VTTPWRGD voltage level meet Vih(min) = 0.75 * Vtt	Change PR94 from SD03410028L (10k) to SD03427418L (2.74K) Change PR93 from SD03428728L (28.7k) to SD03493118L (9.31K)	x02
25	49	+VCORE	11/03	Compal	change thermistor package from 0603 to 0402 for cost down	Change PH1 from SL20000068L (100K 0603) to SL20000160L (100K 0402)	X02
26	52	GPU_Core	11/12	Compal	For NVIDIA output voltage +/- 30mV criteria	Change PC918 from SGA19331D1L (330u/9m Ohm) to SGA0000420L (470u/4.5m Ohm)	X02
27	48	+1.05VTT/ +1.05VM	11/16	ON	Bost diode over stress	Change PD19 and PD27 from SC1B751V08L(RB751V) to SCS00003M0L(BAT54HT1)	x02
28	51	Charger	01/12	Compal	Reduce Pin33,34 and 35 of the CD3301 surge current	Change PC351 from SE00000130L (1u/0805) to SE043104M8L (0.1u/0805) Change PR404 from SD02800008L (0 Ohm) to SD028100B8L (1 Ohm)	A00
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