

11/03 Add DC-IN Cable P/N : DC301009N00 12/04 Change PJP1 to JDCIN1

11/18 Change PCB P/N from DA60000G300 to DA60000G200

02/26 Change LA-6101P P/N from DA60000G200 to DA60000G210

02/26 Add DAZ P/N and other small board P/N

02/26 Change DAZ P/N from DAZ0D9001001 to DAZ0D900101

Compal Confidential

NAU00 LA-6101P Schematics Document

Intel Arrandale Processor with DDRIII + Ibex Peak-M

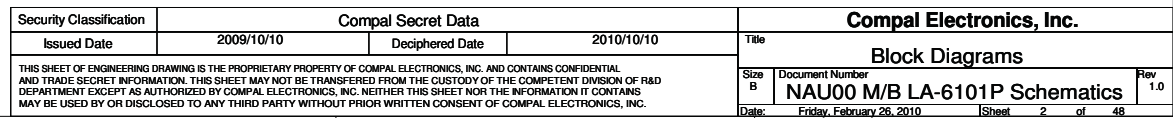
SV M/B

2010-03-09

Rev : 1.0

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Model Name : NAU00
File Name : LA-6101P



Voltage Rails

Power Plane	Description	S1	S3	S5
VIN	Adapter power supply (19V)	N/A	N/A	N/A
B+	AC or battery power rail for power circuit.	N/A	N/A	N/A
+CPU_CORE	Core voltage for CPU	ON	ON	OFF
+0.75VS	0.75V switched power rail for DDR terminator	ON	OFF	OFF
+1.05VS	1.05V switched power rail for PCH	ON	OFF	OFF
+1.1VS_VTT	1.1V switched power rail (1.05 for AUB CPU)	ON	OFF	OFF
+1.5V	1.5V power rail for DDRIII	ON	ON	OFF
+1.5VS	1.5V switched power rail	ON	OFF	OFF
+1.8VS	1.8V switched power rail	ON	OFF	OFF
+3VALW	3.3V always on power rail	ON	ON	ON*
+3V	3.3V power rail for PCH	ON	ON	ON
+3V_LAN	3.3V power rail for LAN	ON	ON	ON*
+3VS	3.3V switched power rail	ON	OFF	OFF
+5VALW	5V always on power rail	ON	ON	ON*
+5VS	5V switched power rail	ON	OFF	OFF
+5V	5V power rail for PCH	ON	ON	ON
+VSB	VSB always on power rail	ON	ON	ON*
+RTCVCC	RTC power	ON	ON	ON

Note : ON* means that this power plane is ON only with AC power available, otherwise it is OFF.

External PCI Devices

Device	IDSEL#	REQ#/GNT#	Interrupts
--------	--------	-----------	------------

EC SM Bus1 address

EC SM Bus2 address

Device	Address	Device	Address
Smart Battery	0001 011X b		

Ibex SM Bus address

Device	Address
Clock Generator (9LRS3199AKLFT, SLG8SP587)	1101 0010b
DDR DIMM0	1001 000Xb
DDR DIMM2	1001 010Xb
ISL90727	0101 1100b
ISL90728	0111 1100b

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

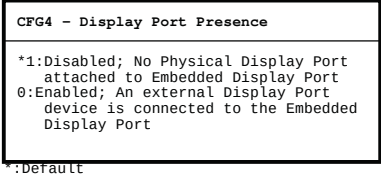
Board ID / SKU ID Table for AD channel

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

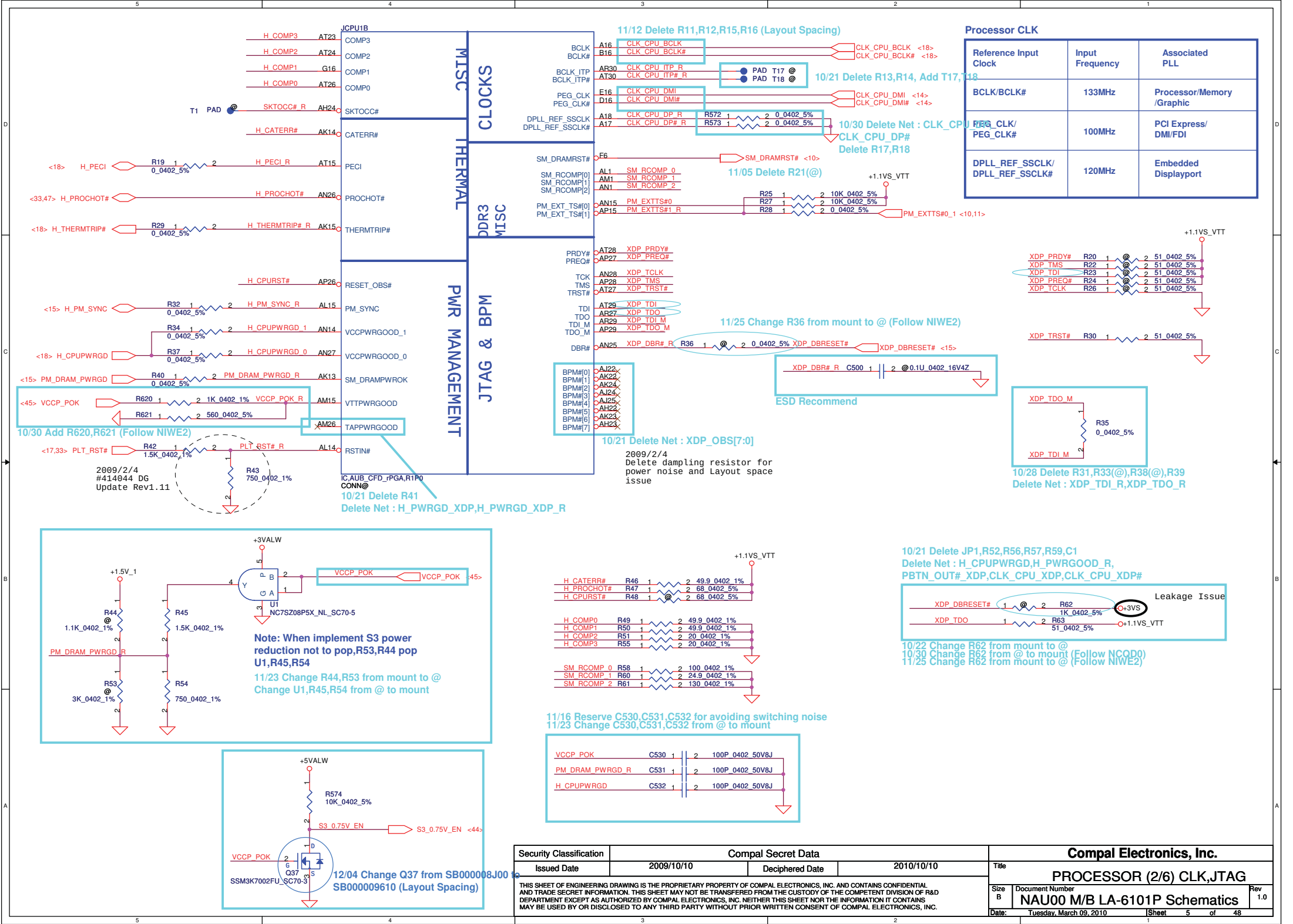
BOARD ID Table

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

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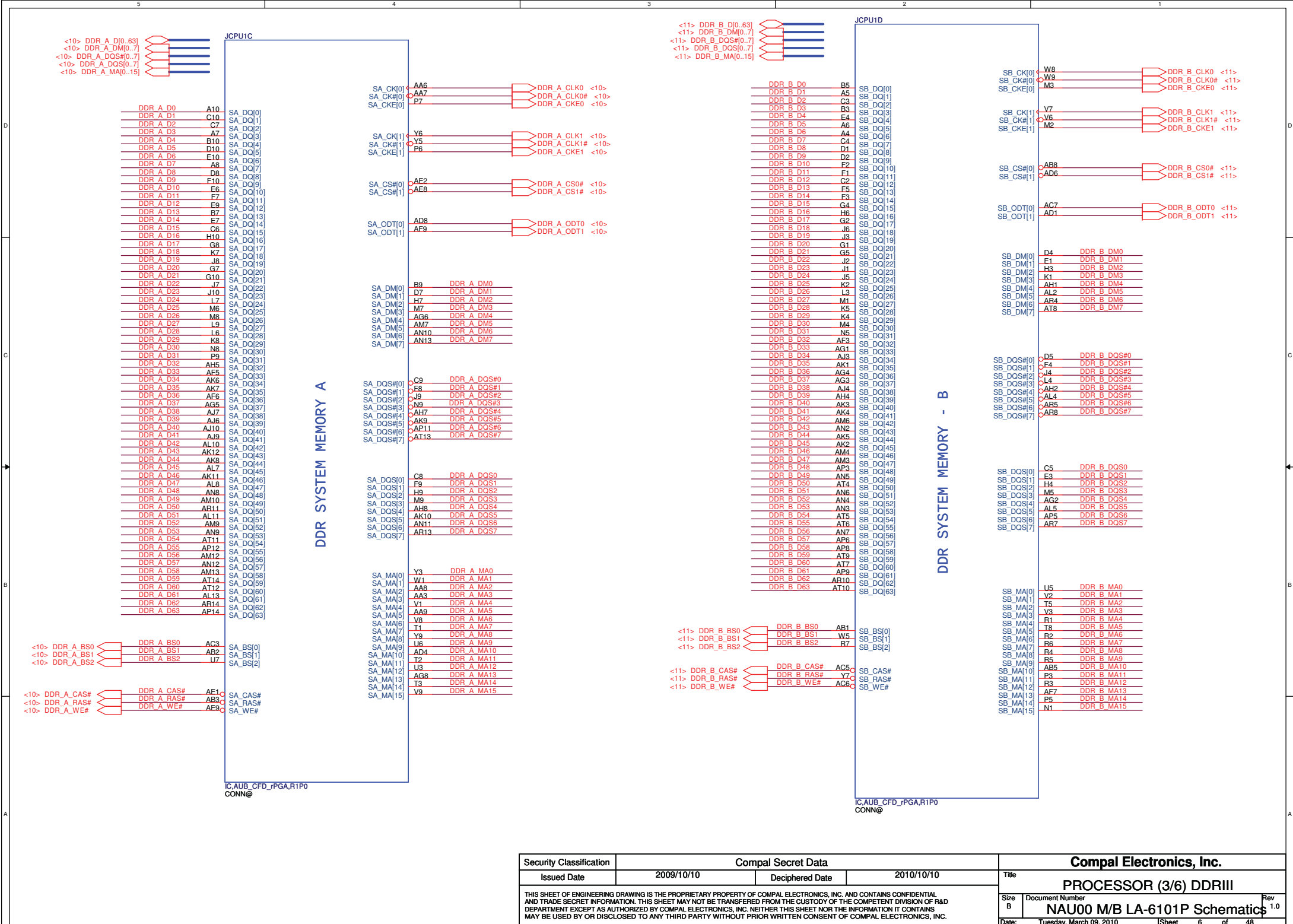


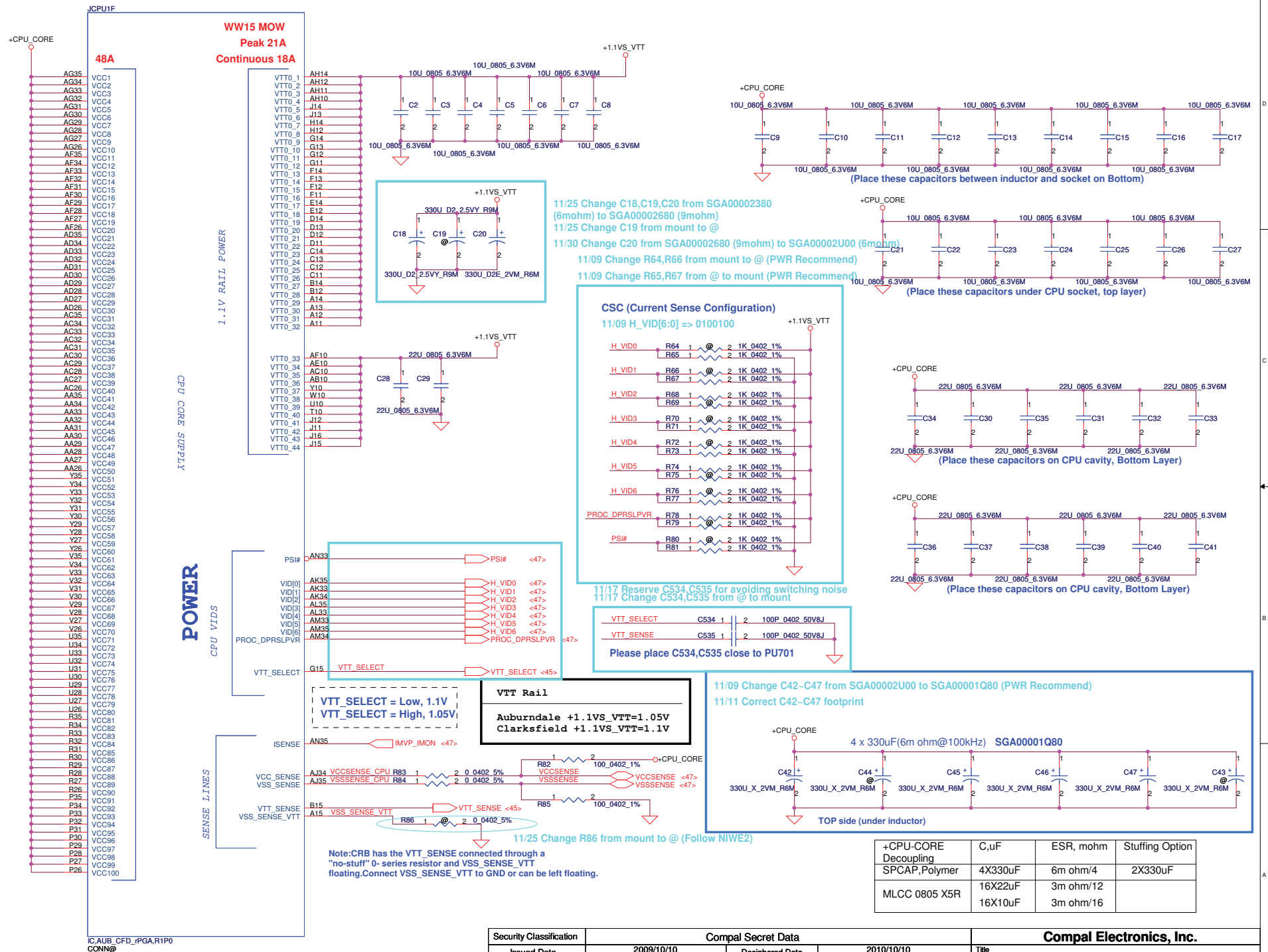
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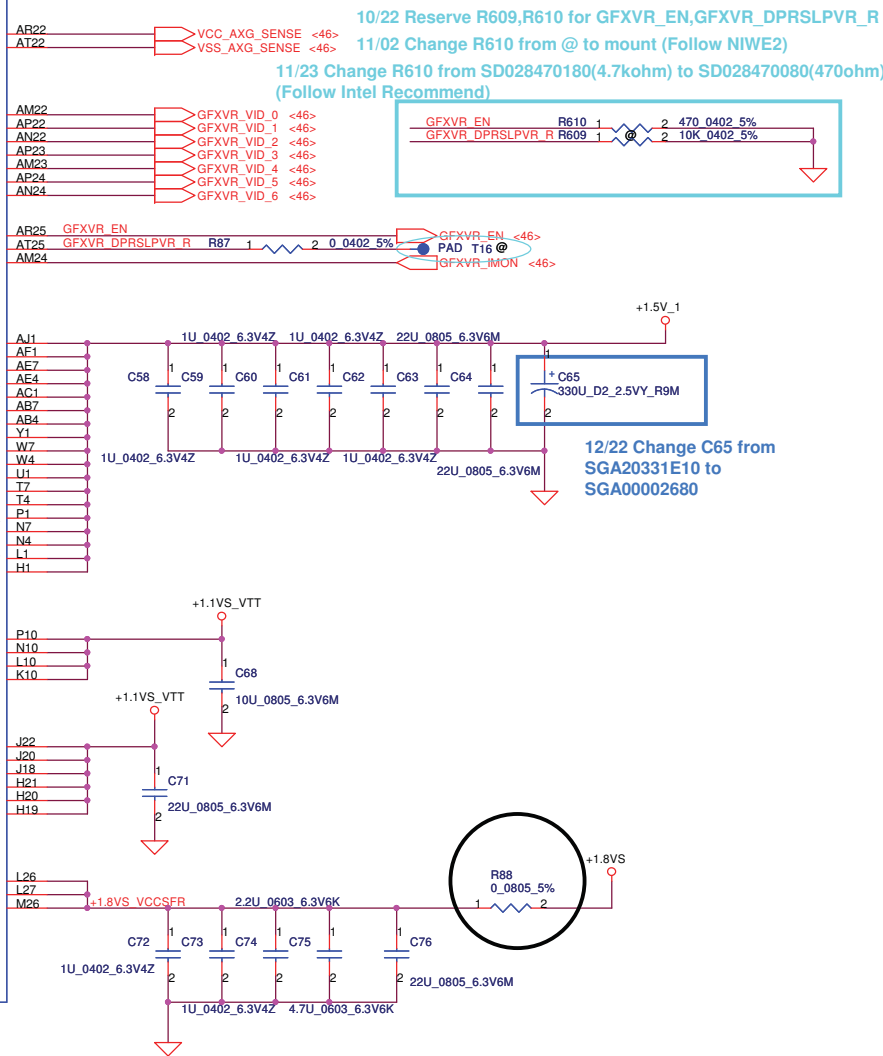
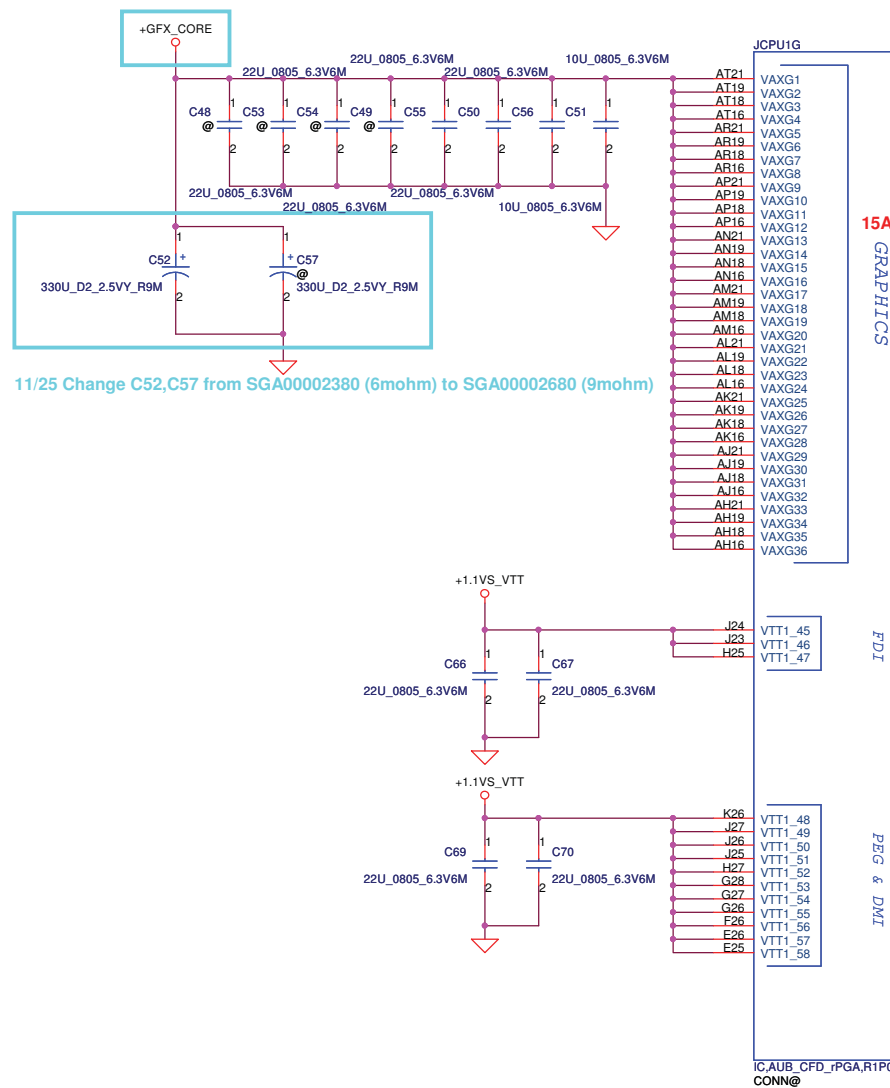


Processor CLK		
Reference Input Clock	Input Frequency	Associated PLL
BCLK/BCLK#	133MHz	Processor/Memory /Graphic
PEG_CLK/ PEG_CLK#	100MHz	PCI Express/ DMI/FDI
DPLL_REF_SSCLK/ DPLL_REF_SSCLK#	120MHz	Embedded Displayport

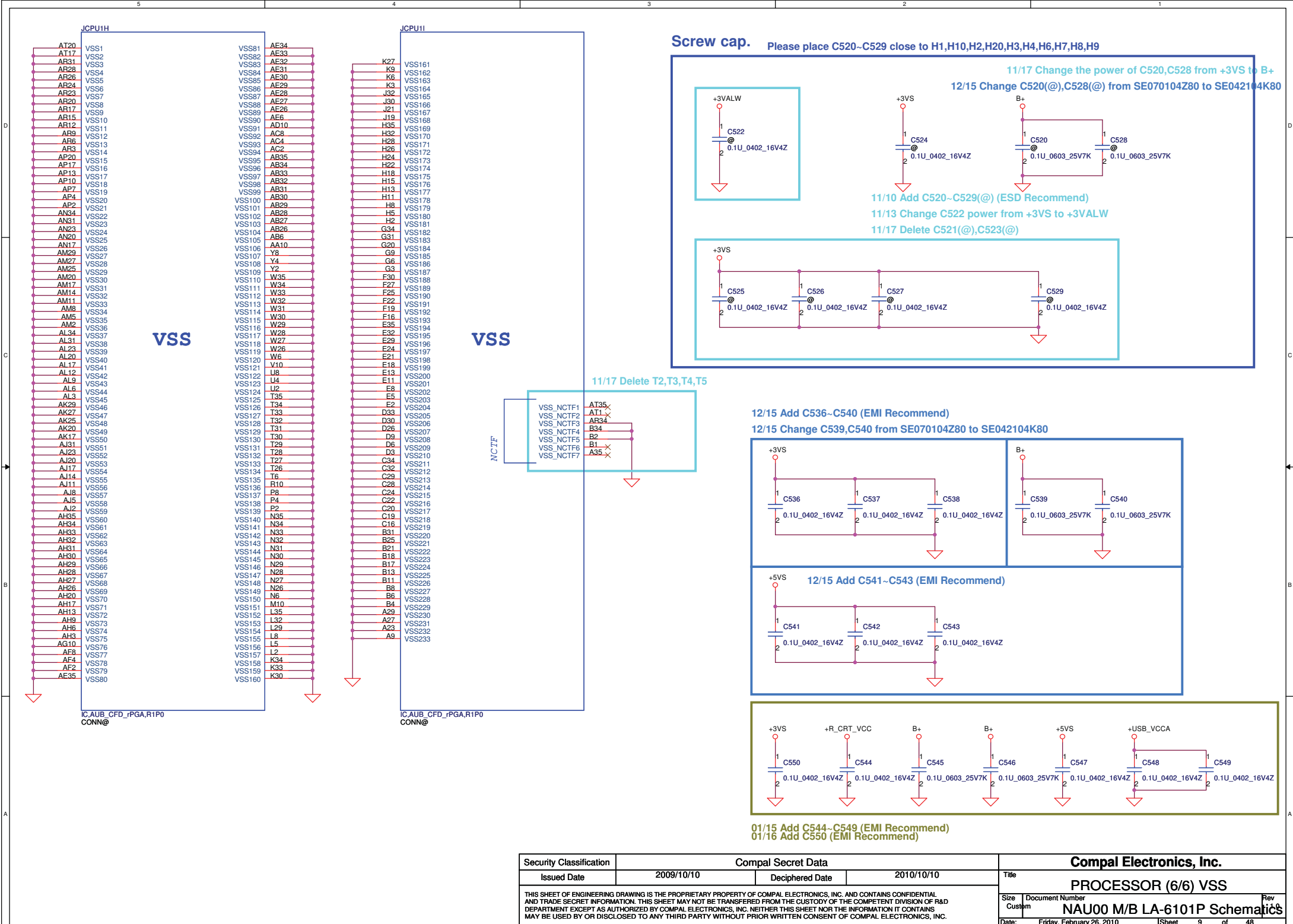
Security Classification				Compal Secret Data				Compal Electronics, Inc.			
Issued Date		2009/10/10		Deciphered Date		2010/10/10		Title		PROCESSOR (2/6) CLK,JTAG	
Size B		Document Number		NAU00 M/B LA-6101P Schematics		Rev 1.0		Date:		Tuesday, March 09, 2010	
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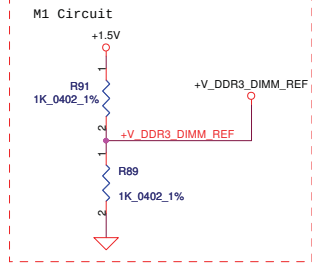




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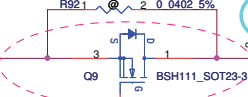
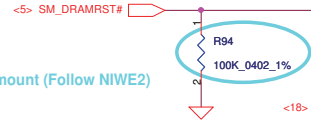
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						Size		Document Number		Rev	
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2009/04/13
For Arrandale, it should be use M1 Circuit
For Clarksville, it should be use M3 Circuit
DG V1.52

<6> DDR_A_DQS#[0..7]
<6> DDR_A_D[0..63]
<6> DDR_A_DM[0..7]
<6> DDR_A_DQS[0..7]
<6> DDR_A_MA[0..15]

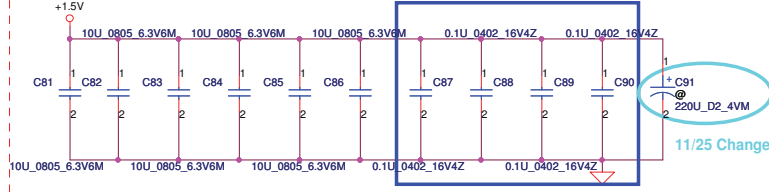
11/05 Change R94 from @ to mount (Follow NIWE2)



10/22 Add C502 at RST_GATE
(Intel 425302_Calpella_S3PowerReduction_WhitePaper_Rev1.0)
11/09 Change C502 from 0.047uF to 0.1uF
11/23 Change R92 from mount to @
Change Q9 from @ to mount

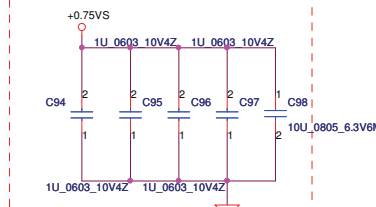
Layout Note:
Place near JDIMM1

Layout Note: Place these 4 Caps near Command
and Control signals of DIMMA



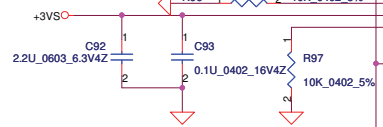
11/25 Change C91(@) from SGA20331E10 to SGA00000Y80

Layout Note:
Place near JDIMM1.203 & JDIMM1.204



<6> DDR_A_CKE0
<6> DDR_A_BS2
<6> DDR_A_MA12
<6> DDR_A_MA9
<6> DDR_A_MA8
<6> DDR_A_MA5
<6> DDR_A_MA3
<6> DDR_A_MA1
<6> DDR_A_CLK0
<6> DDR_A_CLK#
<6> DDR_A_MA10
<6> DDR_A_BS0
<6> DDR_A_WE#
<6> DDR_A_CAS#
<6> DDR_A_MA13
<6> DDR_A_CS1#

DDR A D32
DDR A D33
DDR A DQS#4
DDR A DQS4
DDR A D34
DDR A D35
DDR A D40
DDR A D41
DDR A DM5
DDR A D42
DDR A D43
DDR A D48
DDR A D49
DDR A DQS#6
DDR A DQS6
DDR A D50
DDR A D51
DDR A D56
DDR A D57
DDR A DM7
DDR A D58
DDR A D59



Copy NTUC0

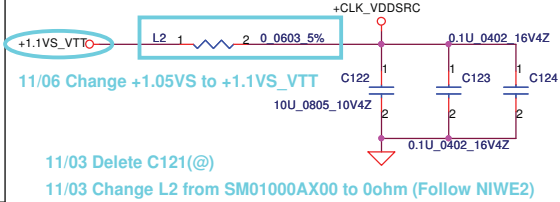
FOX_AS0A626-U4SN-7F
CONN@

DDR3 SO-DIMM A
Standard Type
H = 4.0mm

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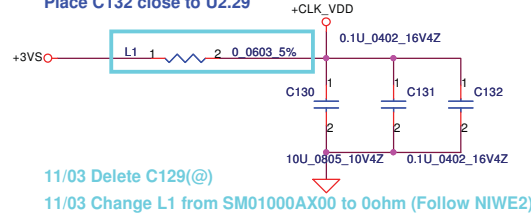
Layout note:

Place C122 close to L2
Place C123 close to U2.15
Place C124 close to U2.18



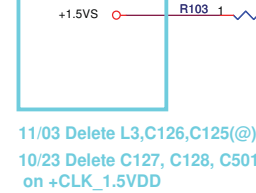
Layout note:

Place C130 close to L1
Place C131 close to U2.5
Place C132 close to U2.29



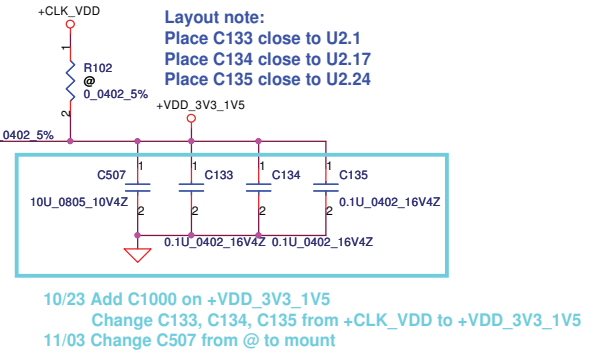
Layout note:

Place C507 close to R103



Layout note:

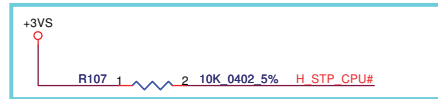
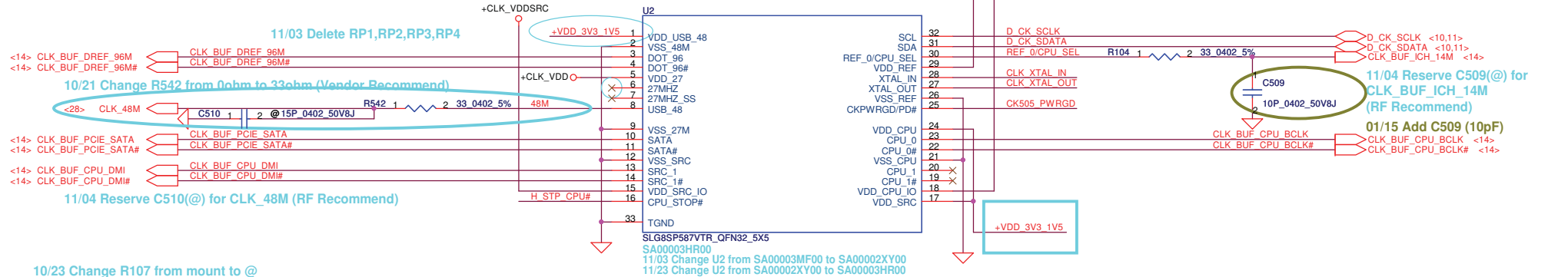
Place C133 close to U2.1
Place C134 close to U2.17
Place C135 close to U2.24



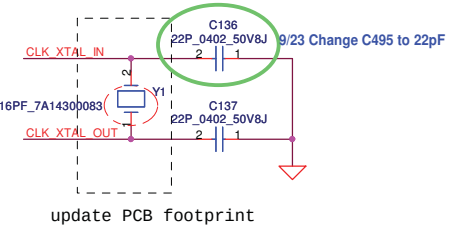
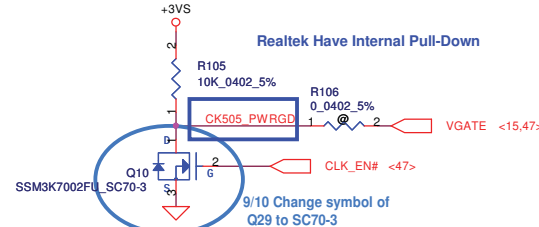
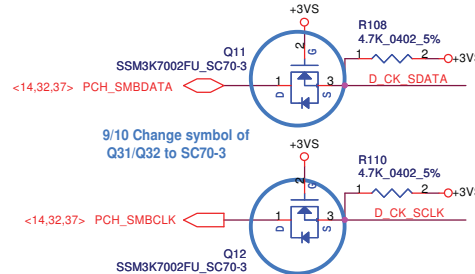
Type	R102	R103
Standard	Mount	@
Low Power	@	Mount

10/23 Change U2 Pin1,17,24
Net Name to +VDD_3V3_1V5

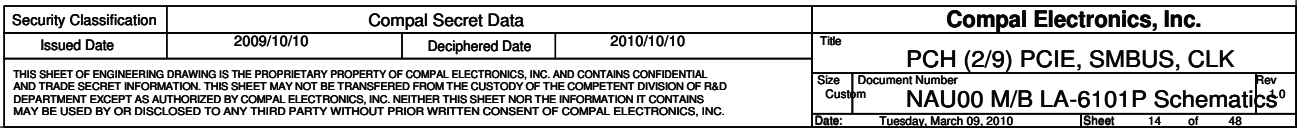
Clock Generator

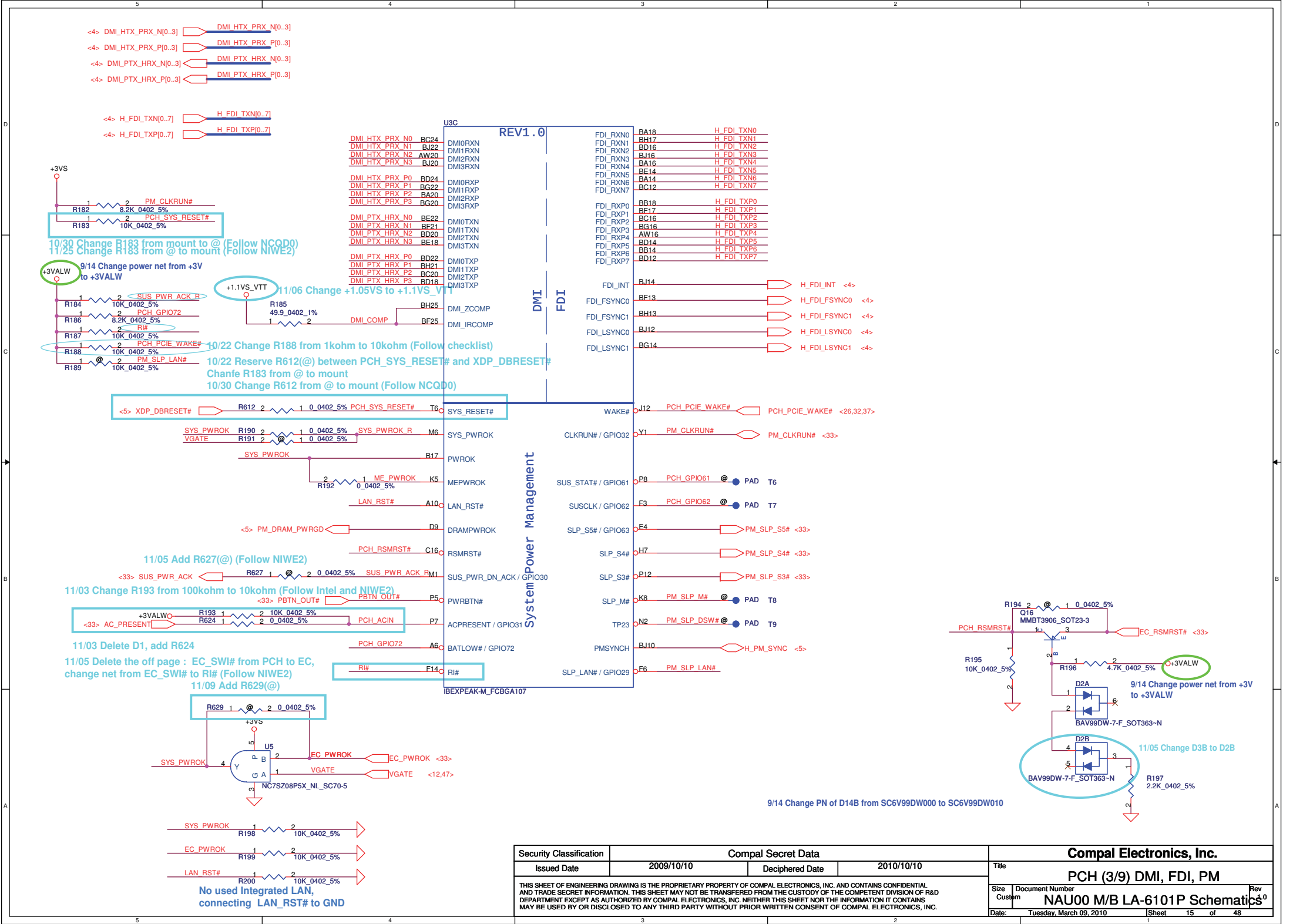


PIN 30	CPU_0	CPU_1
0 (Default)	133MHz	133MHz
1	100MHz	100MHz

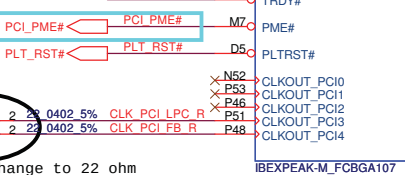
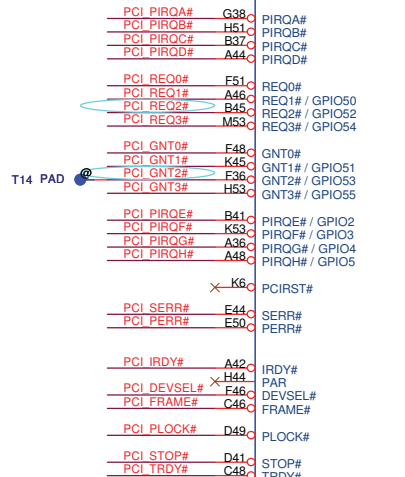
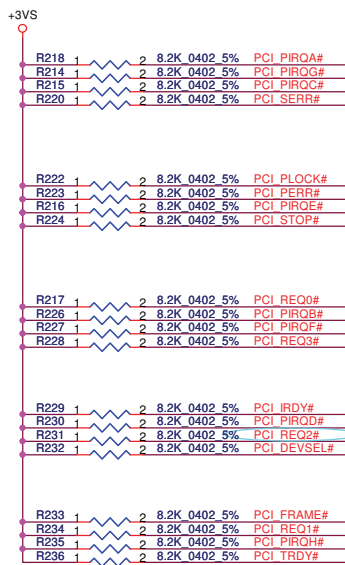


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					Size	Document Number	Rev
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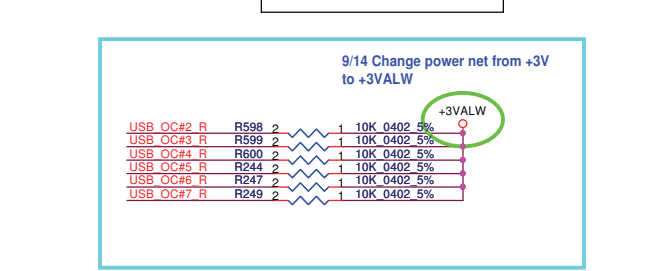
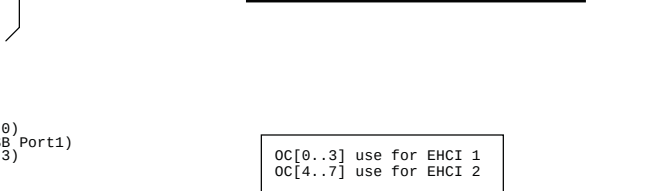
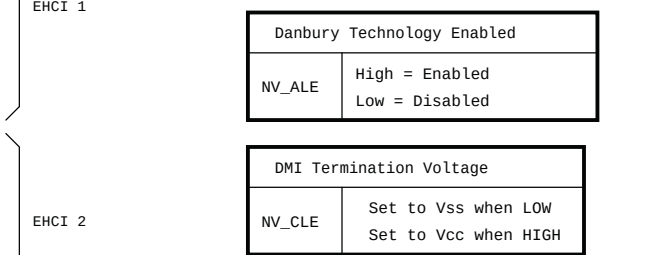
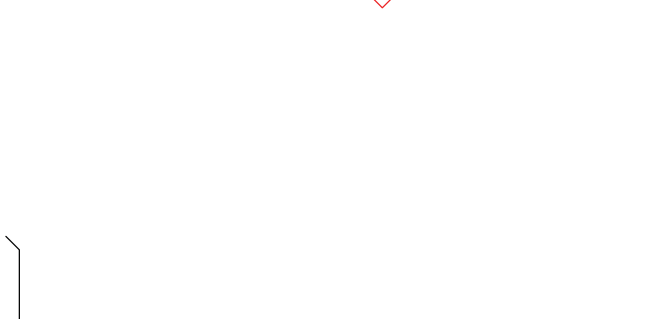
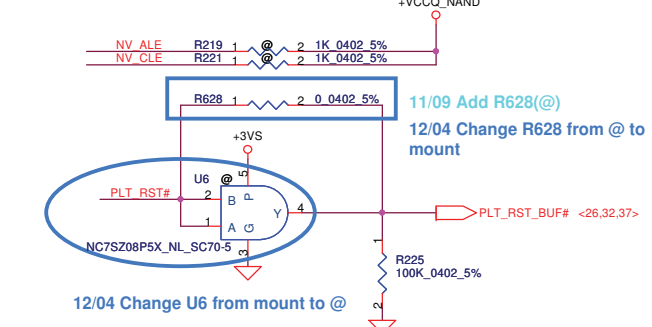
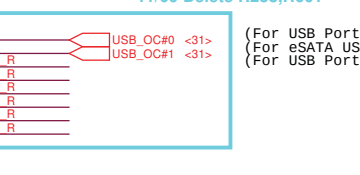
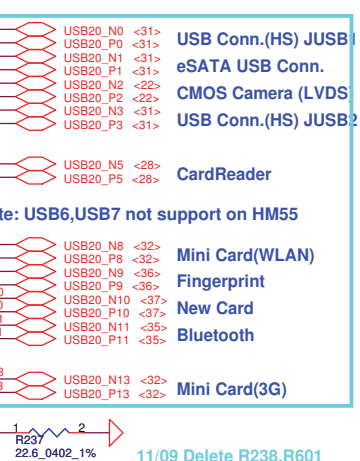
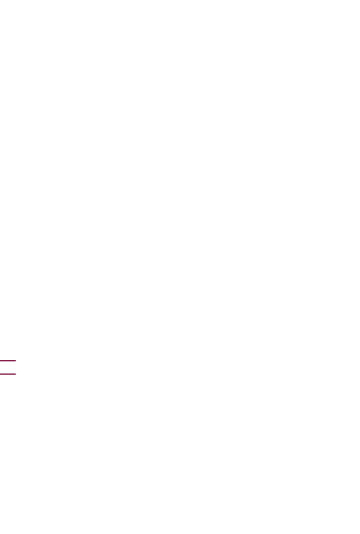
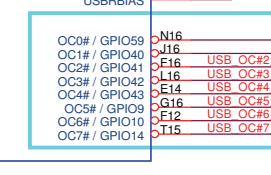
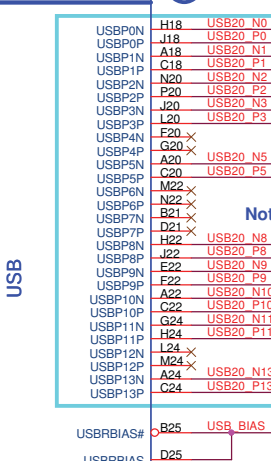
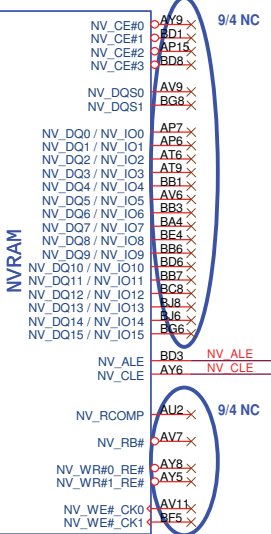
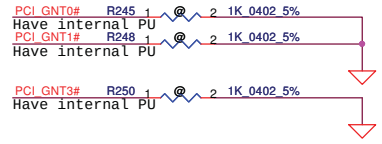


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				PCH (3/9) DMI, FDI, PM	
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Boot BIOS Strap		
PCI_GNT#0	PCI_GNT#1	Boot BIOS Location
0	0	LPC
0	1	Reserved (NAND)
1	0	PCI
1	1	SPI

A16 swap override Strap/Top-Block Swap Override jumper	
PCI_GNT#3	Low = A16 swap High = Default

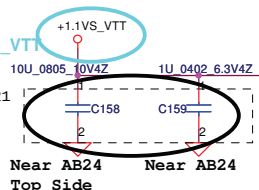


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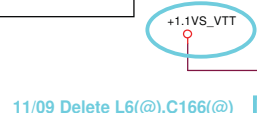
CRB 0.9 is 180 ohm @ 100MHz
DG0.8 is 600 ohm FB (Page 290)

11/06 Change +1.05VS to +1.1VS_VTT

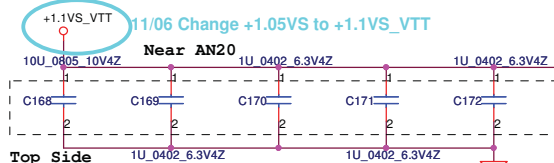
Intel suggest follow CRB 8/21



All Ibex Peak-M Power rails with netnames +1.1VS and +1.1V rails are actually +1.05VS and +1.05V rails

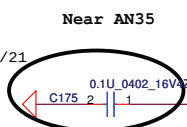


11/09 Delete L6(@),C166(@)



11/06 Change +1.05VS to +1.1VS_VTT

Follow Intel suggestion 8/21

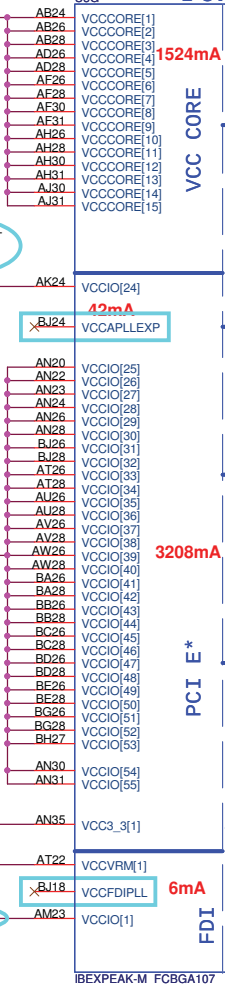


11/09 Delete L7(@),C176(@)



11/06 Change +1.05VS to +1.1VS_VTT

POWER



1524mA

69mA

300mA

59mA

42mA

3208mA

35mA

61mA

156mA

85mA

6mA

REV1.0

IBEXPEAK-M_FCBGA107

VCCCORE[1]

VCCCORE[2]

VCCCORE[3]

VCCCORE[4]

VCCCORE[5]

VCCCORE[6]

VCCCORE[7]

VCCCORE[8]

VCCCORE[9]

VCCCORE[10]

VCCCORE[11]

VCCCORE[12]

VCCCORE[13]

VCCCORE[14]

VCCCORE[15]

VCCADAC[1]

VCCADAC[2]

VSSA_DAC[1]

VSSA_DAC[2]

VCCALVDS

VSSA_LVDS

VCCIO[24]

VCCAPLEXP

VCCIO[25]

VCCIO[26]

VCCIO[27]

VCCIO[28]

VCCIO[29]

VCCIO[30]

VCCIO[31]

VCCIO[32]

VCCIO[33]

VCCIO[34]

VCCIO[35]

VCCIO[36]

VCCIO[37]

VCCIO[38]

VCCIO[39]

VCCIO[40]

VCCIO[41]

VCCIO[42]

VCCIO[43]

VCCIO[44]

VCCIO[45]

VCCIO[46]

VCCIO[47]

VCCIO[48]

VCCIO[49]

VCCIO[50]

VCCIO[51]

VCCIO[52]

VCCIO[53]

VCCIO[54]

VCCIO[55]

VCC3_3[1]

VCCVCRM[1]

VCCFDPILL

VCCIO[1]

VCC3_3[2]

VCC3_3[3]

VCC3_3[4]

VCCVCRM[2]

VCCDMM[1]

VCCDMM[2]

VCCPNAND[1]

VCCPNAND[2]

VCCPNAND[3]

VCCPNAND[4]

VCCPNAND[5]

VCCPNAND[6]

VCCPNAND[7]

VCCPNAND[8]

VCCPNAND[9]

VCCQ_NAND

VCCFDPILL

VCCIO[1]

VCC3_3[1]

VCC3_3[2]

VCC3_3[3]

VCC3_3[4]

VCCME3_3[1]

VCCME3_3[2]

VCCME3_3[3]

VCCME3_3[4]

VCCME3_3[5]

VCCME3_3[6]

VCCME3_3[7]

VCCME3_3[8]

VCCME3_3[9]

VCCME3_3[10]

VCCME3_3[11]

VCCME3_3[12]

VCCME3_3[13]

VCCME3_3[14]

VCCME3_3[15]

VCCME3_3[16]

VCCME3_3[17]

VCCME3_3[18]

VCCME3_3[19]

VCCME3_3[20]

VCCME3_3[21]

VCCME3_3[22]

VCCME3_3[23]

VCCME3_3[24]

VCCME3_3[25]

VCCME3_3[26]

VCCME3_3[27]

VCCME3_3[28]

VCCME3_3[29]

VCCME3_3[30]

VCCME3_3[31]

VCCME3_3[32]

VCCME3_3[33]

VCCME3_3[34]

VCCME3_3[35]

VCCME3_3[36]

VCCME3_3[37]

VCCME3_3[38]

VCCME3_3[39]

VCCME3_3[40]

VCCME3_3[41]

VCCME3_3[42]

VCCME3_3[43]

VCCME3_3[44]

VCCME3_3[45]

VCCME3_3[46]

VCCME3_3[47]

VCCME3_3[48]

VCCME3_3[49]

VCCME3_3[50]

VCCME3_3[51]

VCCME3_3[52]

VCCME3_3[53]

VCCME3_3[54]

VCCME3_3[55]

VCCME3_3[56]

VCCME3_3[57]

VCCME3_3[58]

VCCME3_3[59]

VCCME3_3[60]

VCCME3_3[61]

VCCME3_3[62]

VCCME3_3[63]

VCCME3_3[64]

VCCME3_3[65]

VCCME3_3[66]

VCCME3_3[67]

VCCME3_3[68]

VCCME3_3[69]

VCCME3_3[70]

VCCME3_3[71]

VCCME3_3[72]

VCCME3_3[73]

VCCME3_3[74]

VCCME3_3[75]

VCCME3_3[76]

VCCME3_3[77]

VCCME3_3[78]

VCCME3_3[79]

VCCME3_3[80]

VCCME3_3[81]

VCCME3_3[82]

VCCME3_3[83]

VCCME3_3[84]

VCCME3_3[85]

VCCME3_3[86]

VCCME3_3[87]

VCCME3_3[88]

VCCME3_3[89]

VCCME3_3[90]

VCCME3_3[91]

VCCME3_3[92]

VCCME3_3[93]

VCCME3_3[94]

VCCME3_3[95]

VCCME3_3[96]

VCCME3_3[97]

VCCME3_3[98]

VCCME3_3[99]

VCCME3_3[100]

VCCME3_3[101]

VCCME3_3[102]

VCCME3_3[103]

VCCME3_3[104]

VCCME3_3[105]

VCCME3_3[106]

VCCME3_3[107]

VCCME3_3[108]

VCCME3_3[109]

VCCME3_3[110]

VCCME3_3[111]

VCCME3_3[112]

VCCME3_3[113]

VCCME3_3[114]

VCCME3_3[115]

VCCME3_3[116]

VCCME3_3[117]

VCCME3_3[118]

VCCME3_3[119]

VCCME3_3[120]

VCCME3_3[121]

VCCME3_3[122]

VCCME3_3[123]

VCCME3_3[124]

VCCME3_3[125]

VCCME3_3[126]

VCCME3_3[127]

VCCME3_3[128]

VCCME3_3[129]

VCCME3_3[130]

VCCME3_3[131]

VCCME3_3[132]

VCCME3_3[133]

VCCME3_3[134]

VCCME3_3[135]

VCCME3_3[136]

VCCME3_3[137]

VCCME3_3[138]

VCCME3_3[139]

VCCME3_3[140]

VCCME3_3[141]

VCCME3_3[142]

VCCME3_3[143]

VCCME3_3[144]

VCCME3_3[145]

VCCME3_3[146]

VCCME3_3[147]

VCCME3_3[148]

VCCME3_3[149]

VCCME3_3[150]

VCCME3_3[151]

VCCME3_3[152]

VCCME3_3[153]

VCCME3_3[154]

VCCME3_3[155]

VCCME3_3[156]

VCCME3_3[157]

VCCME3_3[158]

VCCME3_3[159]

VCCME3_3[160]

VCCME3_3[161]

VCCME3_3[162]

VCCME3_3[163]

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VCCME3_3[165]

VCCME3_3[166]

VCCME3_3[167]

VCCME3_3[168]

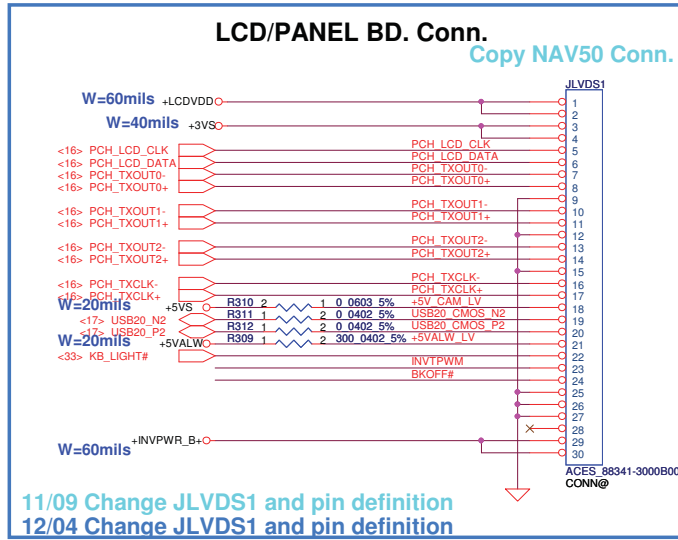
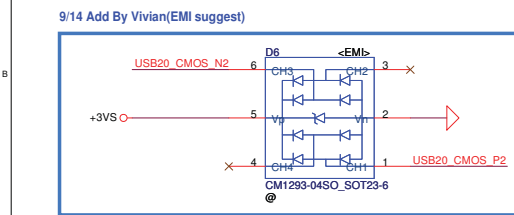
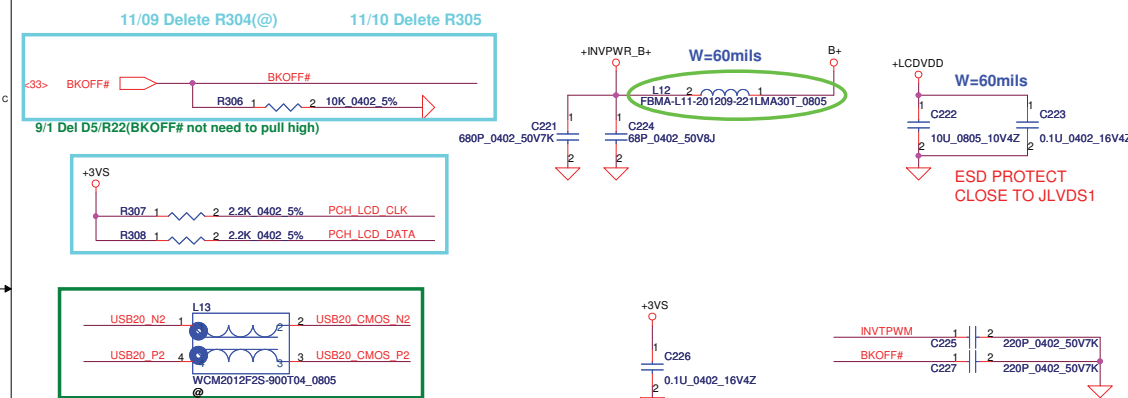
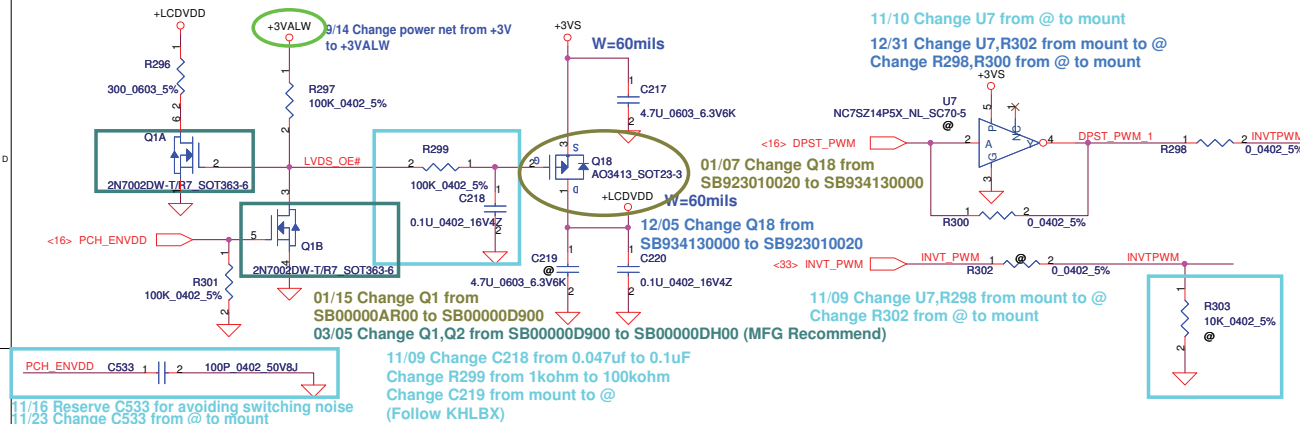
VCCME3_3[169]

VCCME3_3[170]

VCCME3_3[171]

VCCME3_3[172]

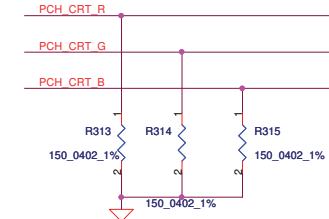
LCD POWER CIRCUIT



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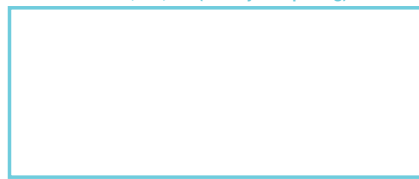
CRT Connector

<16> PCH_CRT_R
<16> PCH_CRT_G
<16> PCH_CRT_B



10/29 Delete D8,D9,D10 (For layout spacing)

10/29 Delete L14,L15,L16 (For layout spacing)



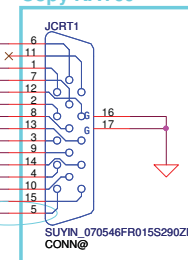
W=40mils

+R_CRT_VCC

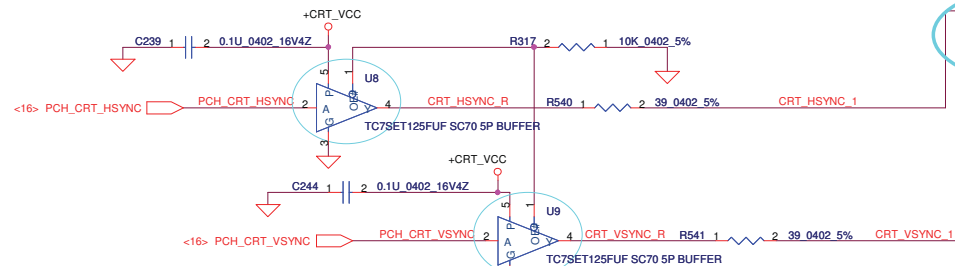
+CRT_VCC

0.1U_0402_16V4Z

Copy KAV60



0909 Change JCRT1 symbol from KAVAA

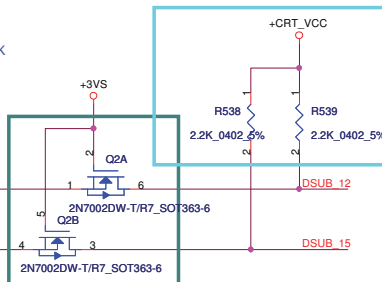


11/03 Change U8,U9 from SA411250130 to SA00000RZ00

PCH DDC PU 2.2K
on Page 17

<16> PCH_CRT_DATA

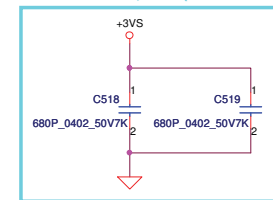
<16> PCH_CRT_CLK



01/15 Change Q2 from
SB00000AR00 to SB00000D900
03/05 Change Q1,Q2 from SB00000D900 to SB00000DH00 (MFG Recommend)

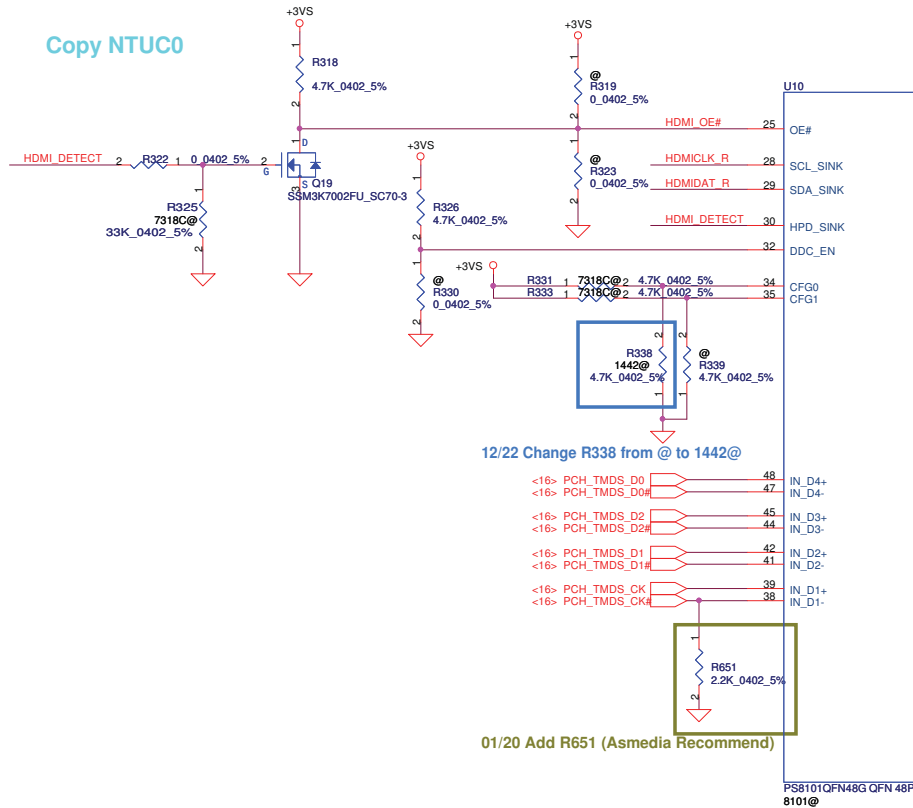
9/10 Change from 2N7002E-T1-E3_SOT23-3
to 2N7002DW-T/R7_SOT363-6
Michael

11/10 Add C518,C519 (EMI Recommend)



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					Size	Document Number	Rev
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Copy NTUC0



12/22 Change R338 from @ to 1442@

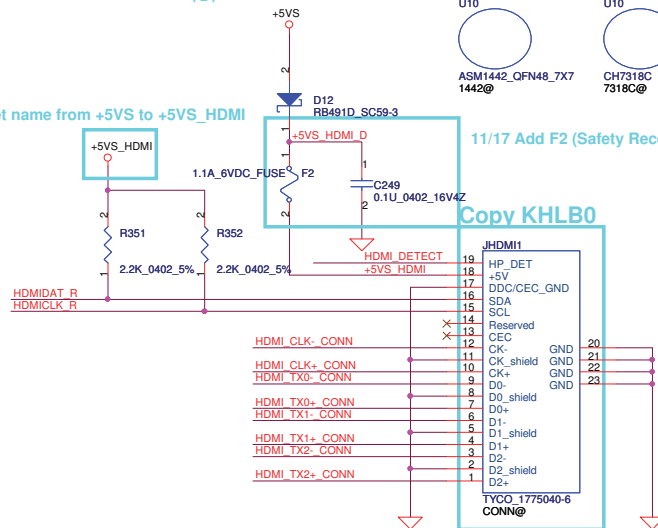
01/20 Add R651 (Asmedia Recommend)

11/09 Delete R350(@)

11/17 Change net name from +5VS to +5VS_HDMI

11/17 Add F2 (Safety Recommend)

Copy KHLB0



10/22 Change R335(1442@) from 3.3kohm to 3.4kohm (Vendor Recommend)

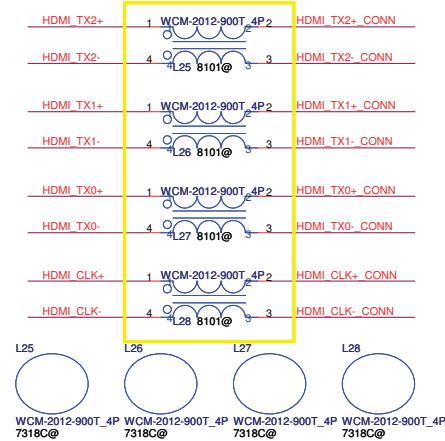
10/23 Change R327 from 7318C@ from @ Change R332 from @ to 7318C@ (Vendor Recommend)

10/23 Delete R324(7318C@), R329(7318C@) for Calpella

12/22 Change R332 from 7318C@ to 1442@

HDMI TX2+ R342 1 1442@ 2 0 0402 5% HDMI TX2+ CONN
HDMI TX2- R343 1 1442@ 2 0 0402 5% HDMI TX2- CONN
HDMI TX1+ R344 1 1442@ 2 0 0402 5% HDMI TX1+ CONN
HDMI TX1- R345 1 1442@ 2 0 0402 5% HDMI TX1- CONN
HDMI TX0+ R346 1 1442@ 2 0 0402 5% HDMI TX0+ CONN
HDMI TX0- R347 1 1442@ 2 0 0402 5% HDMI TX0- CONN
HDMI CLK+ R348 1 1442@ 2 0 0402 5% HDMI CLK+ CONN
HDMI CLK- R349 1 1442@ 2 0 0402 5% HDMI CLK- CONN

06/25 Mirror L8,L9,L10,L11



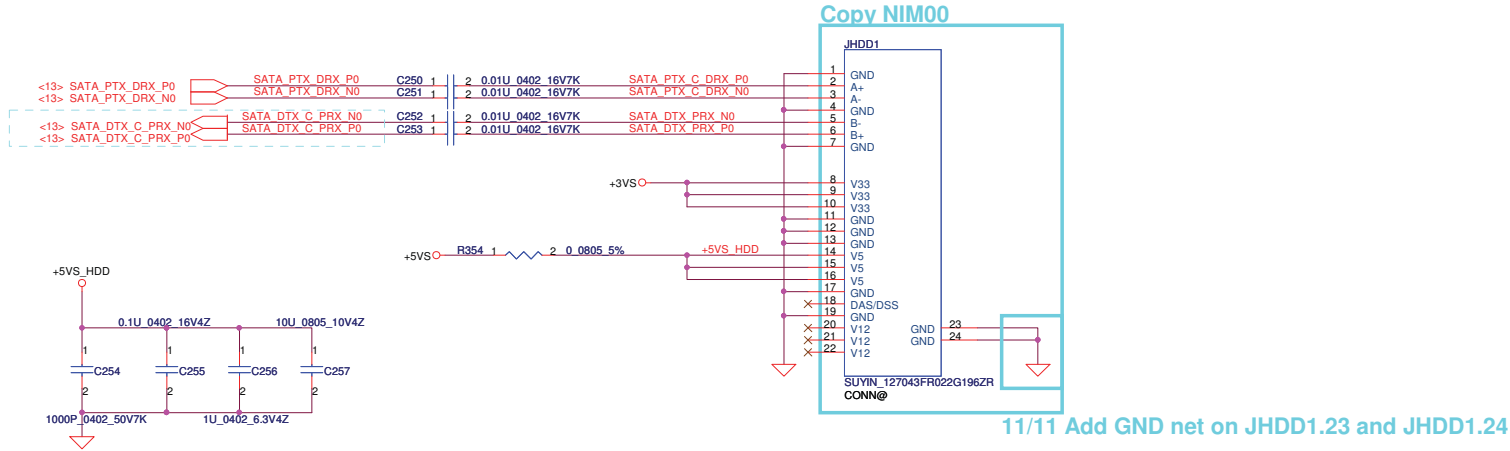
11/09 Delete R353



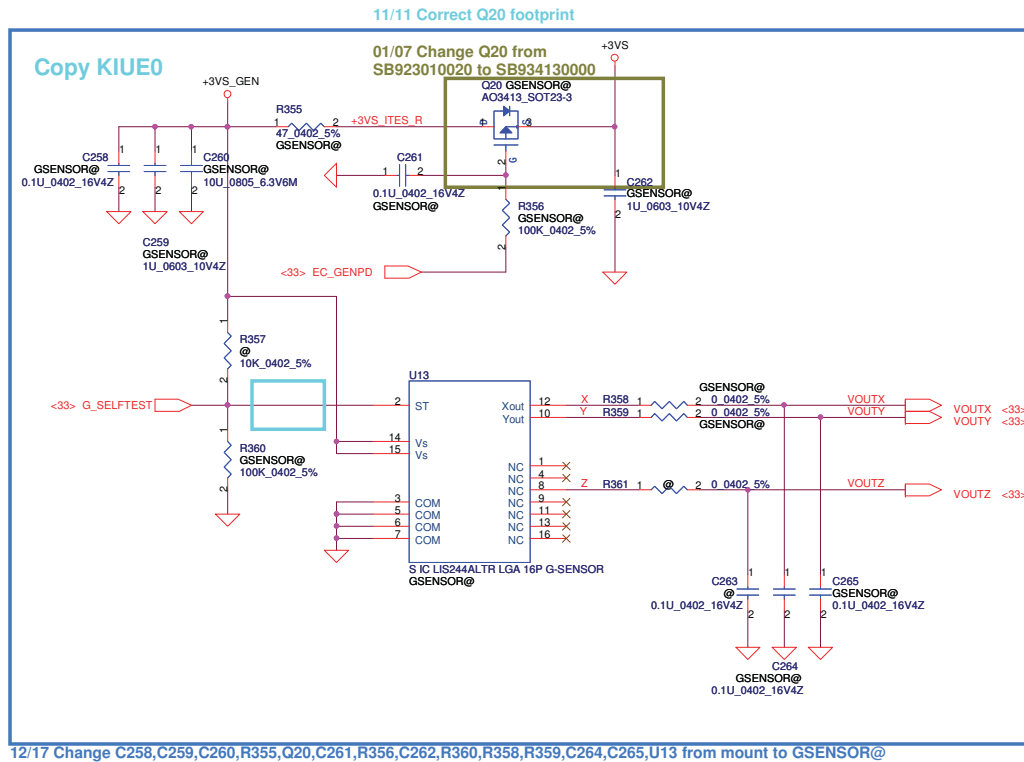
Security Classification				Compal Secret Data				Compal Electronics, Inc.			
Issued Date				2009/10/10				Deciphered Date			
2010/03/20				Title				HDMI Level Shifter & Conn.			
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HDD

SATA HDD Conn.

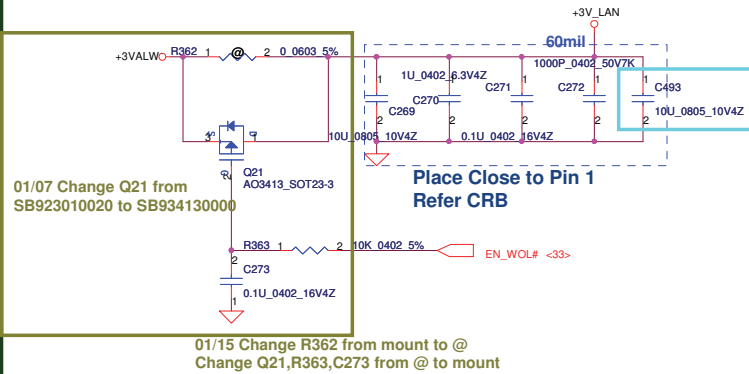


G-Sensor



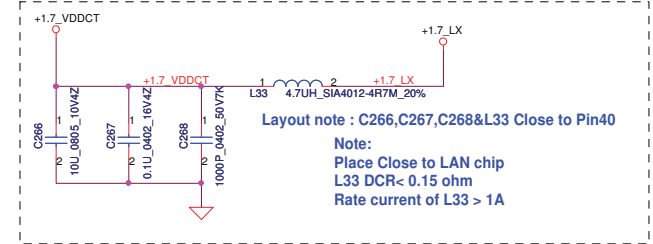
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Issued Date	2009/10/10	Deciphered Date	2010/10/10	Title	
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				NAU00 M/B LA-6101P Schematics	
				Date: Tuesday, March 09, 2010	Rev 1.0
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LAN Power Circuit & Refer NTUC0



01/07 Change Q21 from
SB923010020 to SB934130000

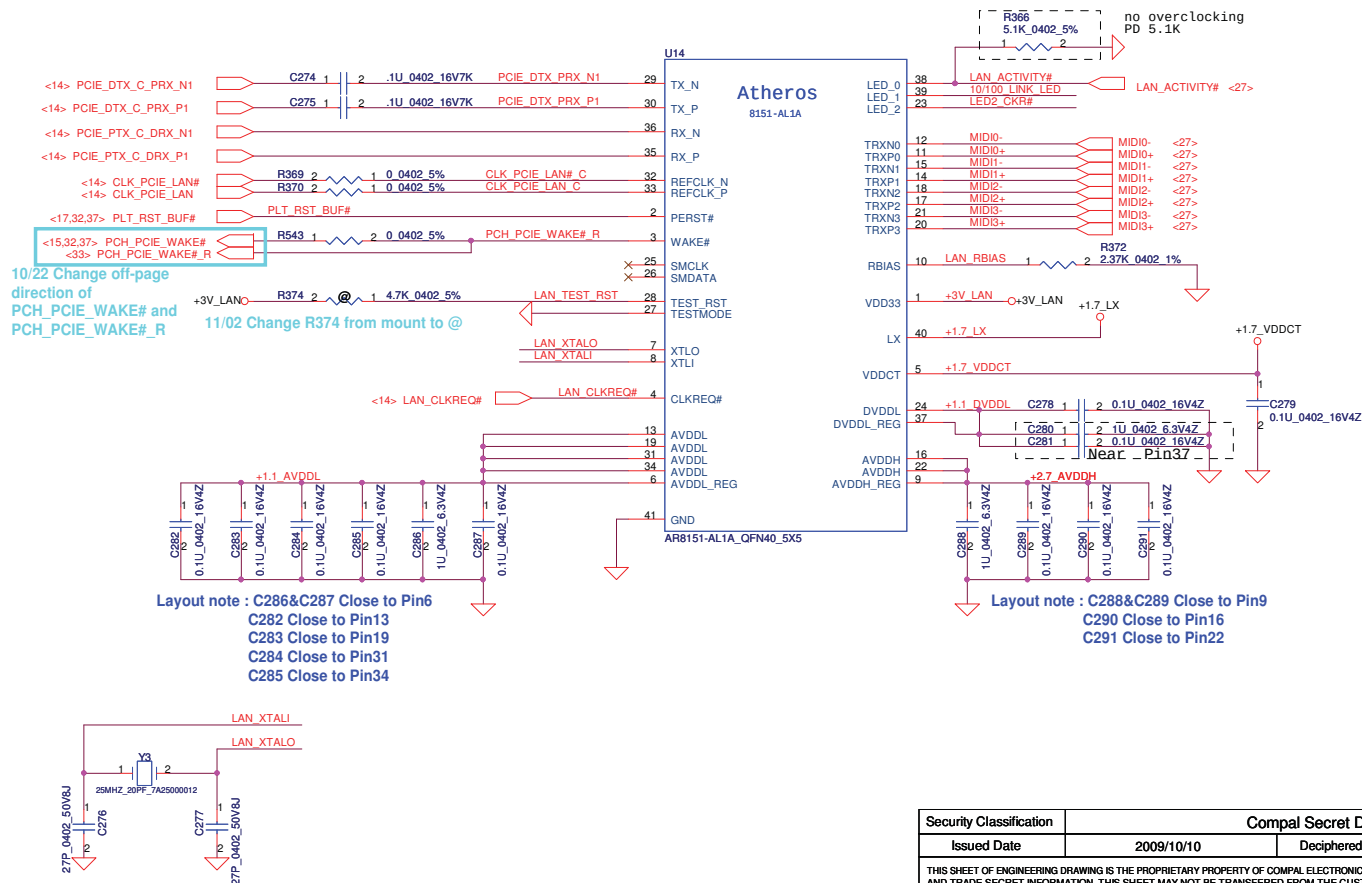
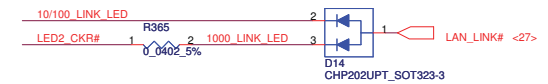
01/15 Change R362 from mount to @
Change Q21,R363,C273 from @ to mount



Layout note : C266,C267,C268&L33 Close to Pin40

Note:
Place Close to LAN chip
L33 DCR < 0.15 ohm
Rate current of L33 > 1A

10/22 Remove R364



10/22 Change off-page
direction of
PCH_PCIE_WAKE# and
PCH_PCIE_WAKE#_R

11/02 Change R374 from mount to @

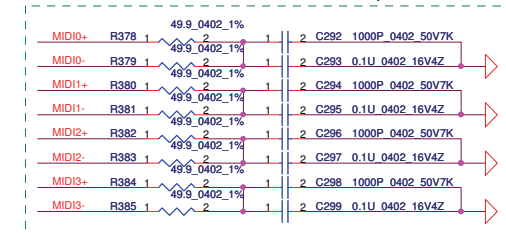
<14> LAN_CLKREQ#  LAN_CLKREQ# 4 CLKREQ#

Layout note : C286&C287 Close to Pin6
C282 Close to Pin13
C283 Close to Pin19
C284 Close to Pin31
C285 Close to Pin34

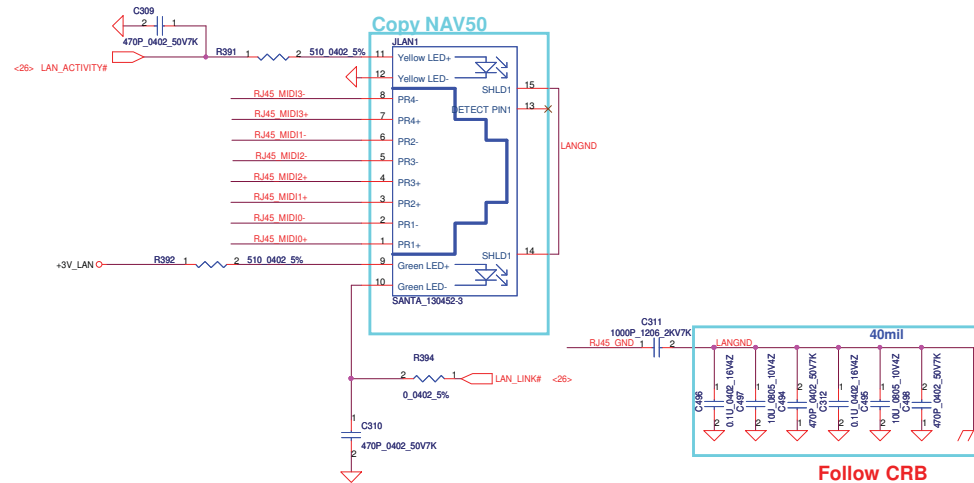
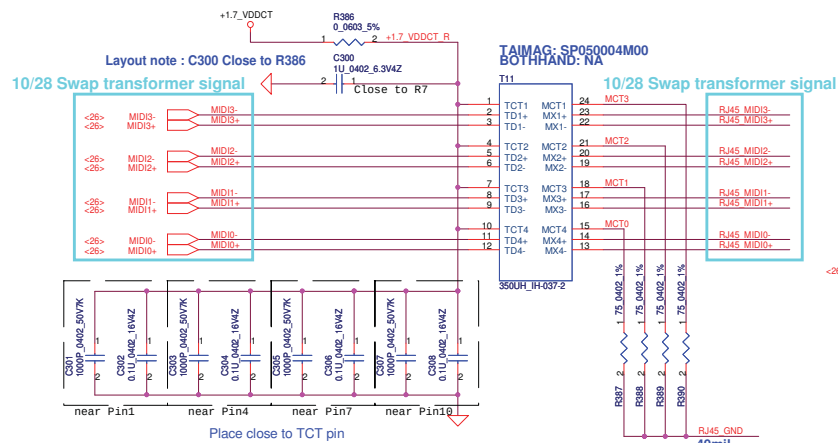
Layout note : C288&C289 Close to Pin9
C290 Close to Pin16
C291 Close to Pin22

10/22 Change R376 from mount to @
11/02 Change R373 from mount to @
11/02 Delete Q3(@),R375(@),R377(@)
11/09 Delete R373(@),R376(@)

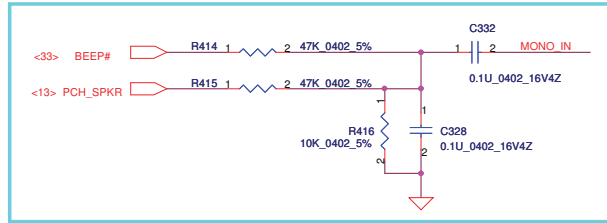
Place Close to LAN chip



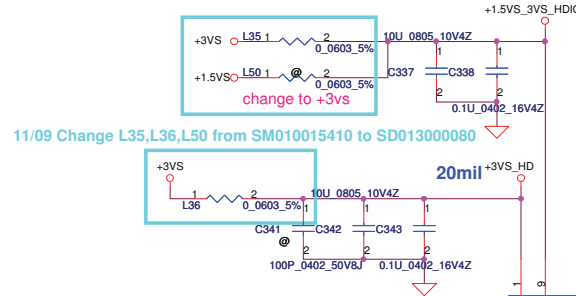
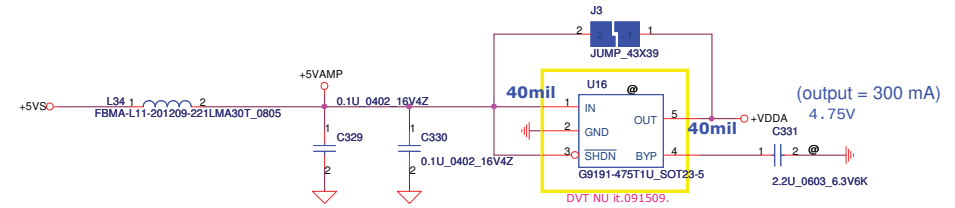
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				LAN AR8151		
				Size	Document Number	Rev
				Custom	NAU00 M/B LA-6101P Schematics	1.0
Date:		Tuesday, March 09, 2010		Sheet	26	of 48



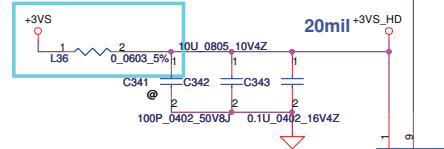
10/29 Follow NTUC0



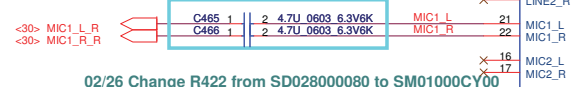
10/29 Delete C333,C334,D15,Q22,R411,R412,R413
Change R414,R415 from 560ohm to 47kohm
Change C332,C328 from 1uF to 0.1uF



11/09 Change L35,L36,L50 from SM010015410 to SD013000080

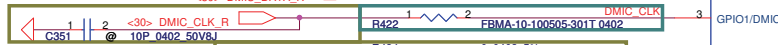


11/10 Change R465,R466 from SE053475Z80 to SE107475M80 (Realtek Recommend)

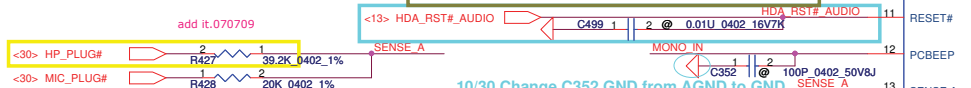


02/26 Change R422 from SD028000080 to SM01000CY00

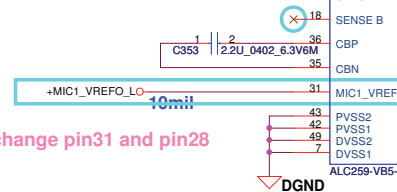
01/07 Change C351.2 from R422.2 to R422.1



01/07 Add R648(@) to +HD_AVDD (Realtek Recommend)

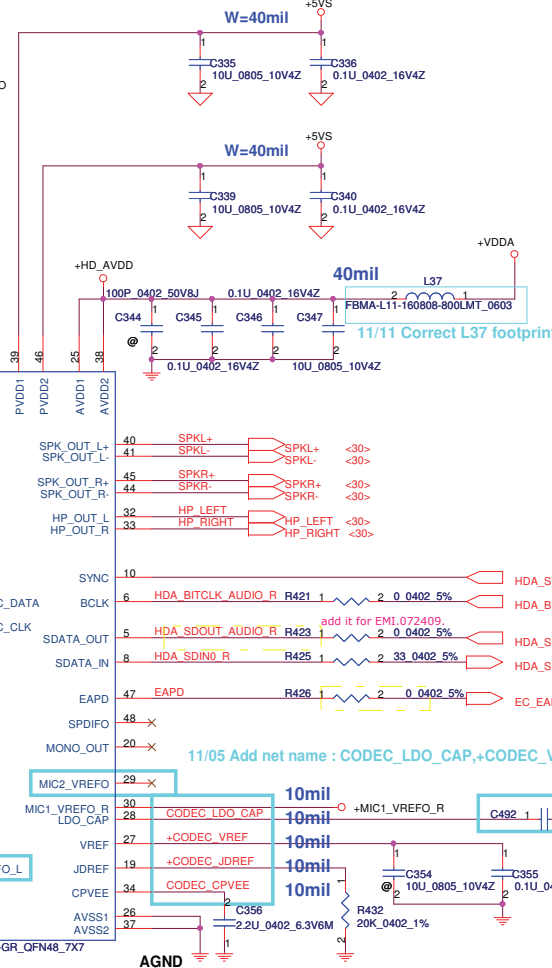


10/30 Change C352 GND from AGND to GND



change pin31 and pin28

Sense Pin	Impedance	Codec Signals
SENSE A	39.2K	PORT-A (PIN 32, 33)
	20K	PORT-B (PIN 21, 22)
	10K	PORT-C (PIN 23, 24)
	5.1K	PORT-D (PIN 48)
SENSE B	39.2K	PORT-E (PIN 14, 15)
	20K	PORT-F (PIN 16, 17)
	10K	PORT-G (PIN 20)
	5.1K	PORT-H (PIN 47)

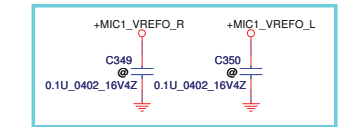


10/21 Change U17 to SA00003QR00 Symbol

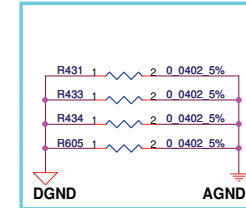
03/04 Change U17 from SA00003QR00 to SA00003QR10

11/02 Change R429,R430,R431,R433,R434,R605 from 0.0603 to 0.0402 (Layout Spacing)

11/17 Delete R429,R430

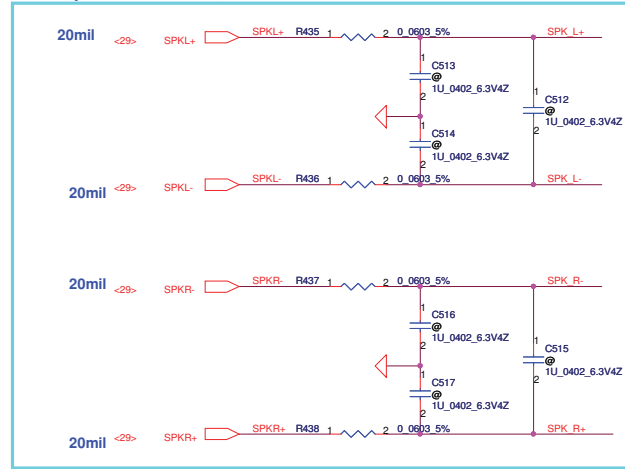


DGND To AGND Bypass

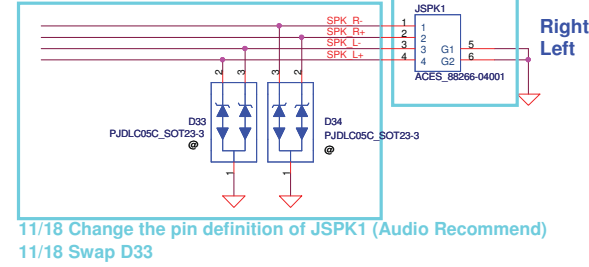


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						Customer		NXXXX M/B LA-6101P Schematics		1.0	
						Date:		Tuesday, March 09, 2010		Sheet 29 of 48	

11/11 Change R435~R438 from SM010012010 to SD013000080
 11/10 Add C512~C517(@) for EMI (Follow Realtek CRB)
 Please place R435~R438,C512~C517 close to U17



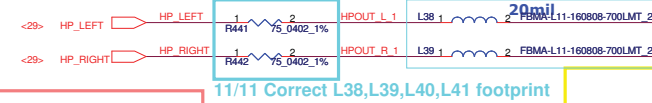
Int. Speaker Conn.



Copy KTV00

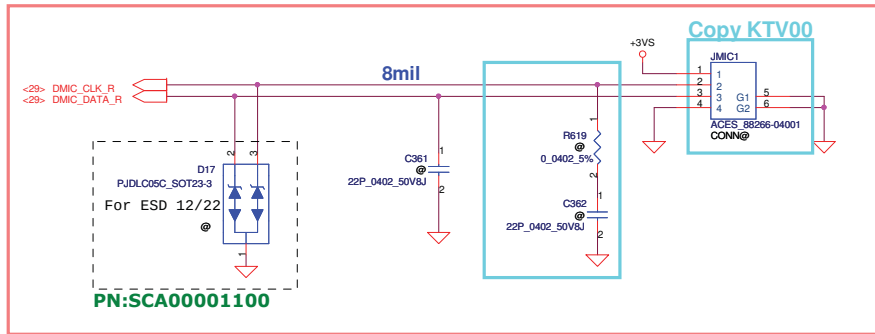
Right
Left

10/29 Change R441,R442 from 56ohm to 75ohm (Follow Realtek CRB)



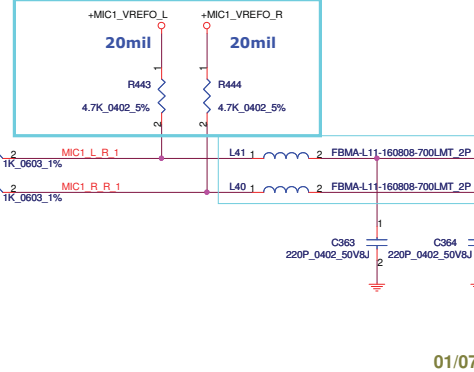
Headphone Out

Copy NIUR1



Copy KTV00

10/29 Short D18,D19 (Follow Realtek CRB)
 10/29 Change R443,R444 location



MIC JACK

Copy NIUR1

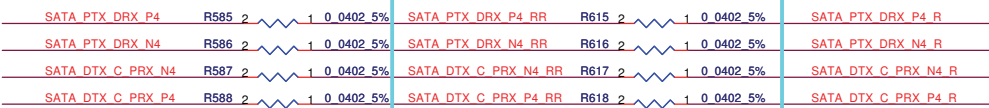
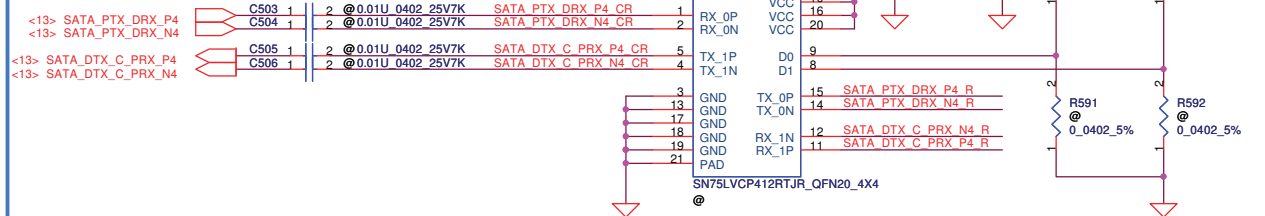
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Size	Customer	Document Number	Rev	1.0
NXXXX M/B LA-6101P Schematics		Date: Tuesday, March 08, 2010	Sheet	30 of 48

eSATA

Copy NITU1

10/22 Add R614, change R590,R589 from 0ohm to 4.7kohm (Vendor Recommend)
12/22 Change U32,C490,C491,C503~C506,R589,R590,R614 from mount to @

10/23 Add C503~C506

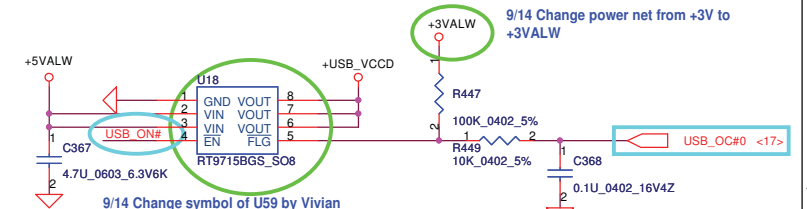


On opposite side of U32

10/23 Add R615~618
12/22 Change R585~R588,R615~R618 from @ to mount

TI:D0 D1			SN75LVCP412	
EN	BA	BB	CHANNEL 0	CHANNEL 1
0	X	X	Low-power	Low-power
1	0	0	0dB	0dB
1	1	0	2.5dB pre-emphasis	0dB
1	0	1	0dB	2.5dB pre-emphasis
1	1	1	2.5dB pre-emphasis	2.5dB pre-emphasis

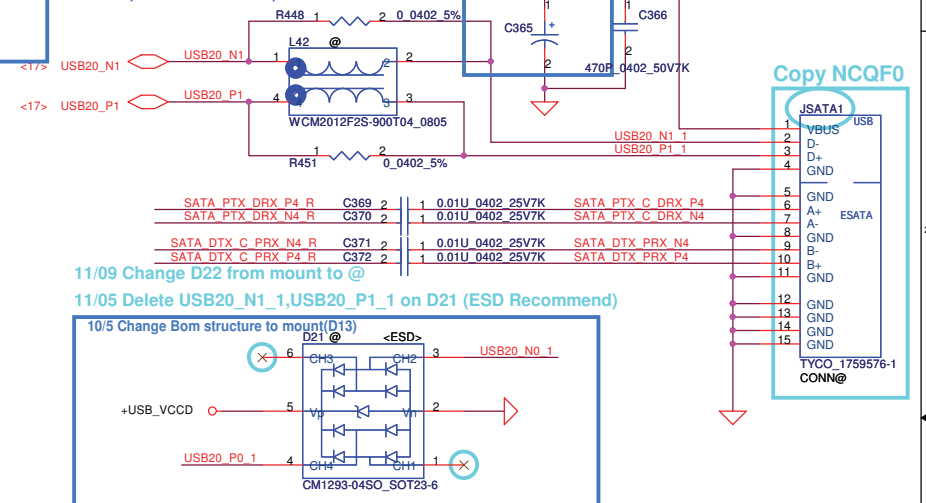
(Default)



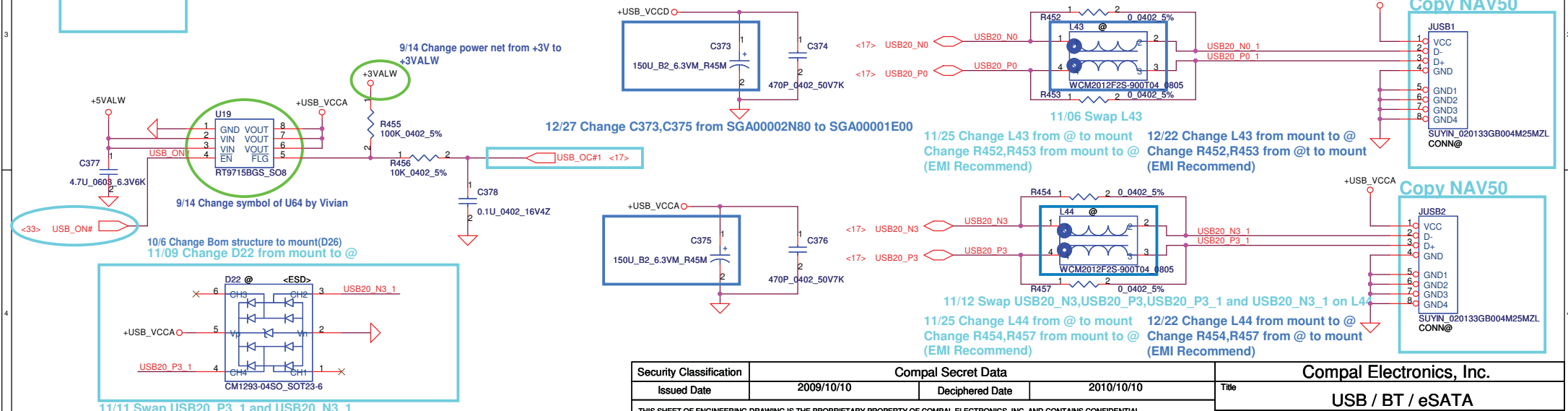
11/25 Change L42 from @ to mount
Change R451,R448 from mount to @
(EMI Recommend)

12/27 Change C365 from SGA00002N80 to SGA00001E00

12/22 Change L42 from mount to @
Change R451,R448 from @ to mount
(EMI Recommend)



USB Port



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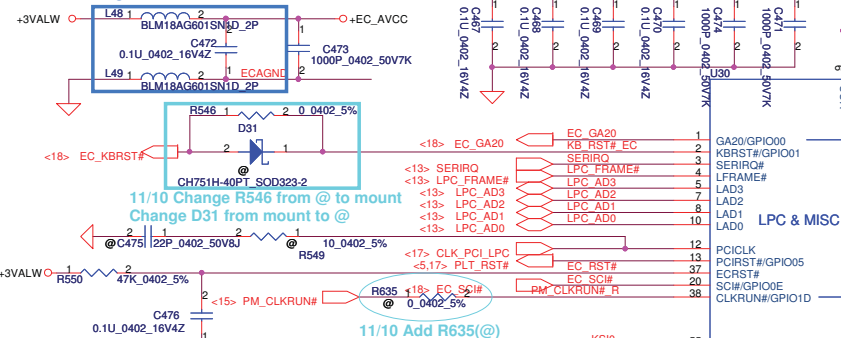
A

A

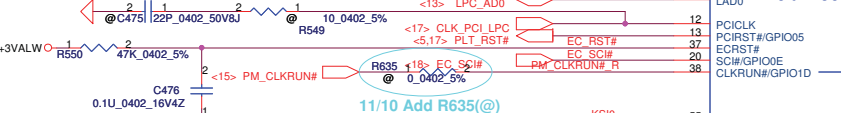


L

12/05 Change L48,L49 from SM010016810 to SM010005500



11/10 Change R546 from @ to mount Change D31 from mount to @



11/10 Add R635(@)



<36> KSQ[0..15] <36> KSQ[0..7]



For ENE issue



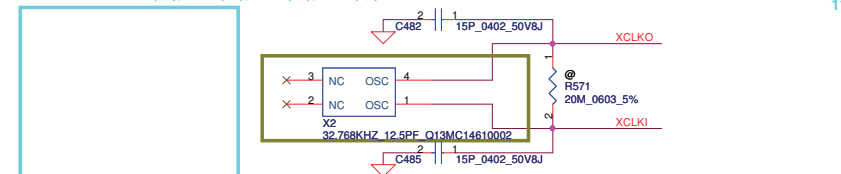
10/22 Change R561 from mount to @ Change R562 from @ to mount 11/10 Change R562 from mount to @



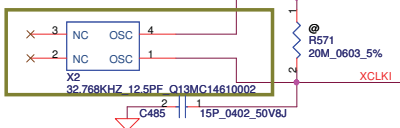
11/05 Change the power of R566,R567 from +5VALW to +3VALW (Follow NIWE2)



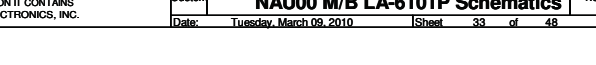
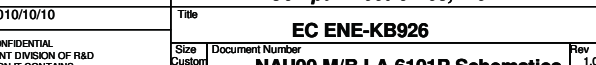
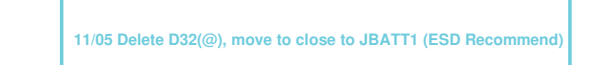
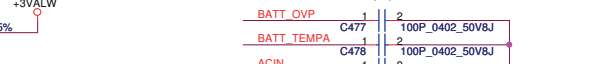
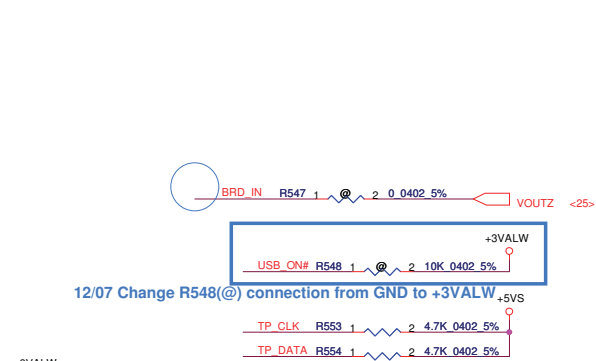
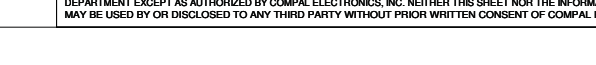
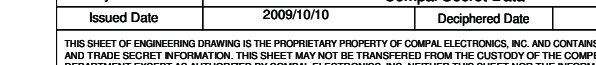
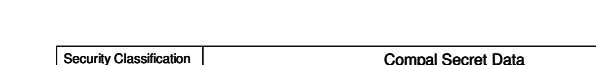
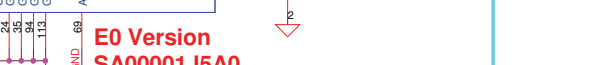
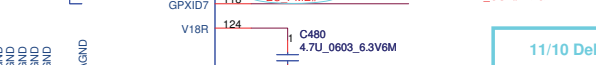
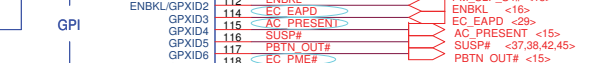
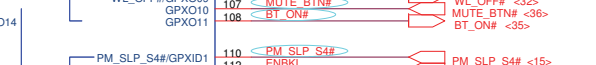
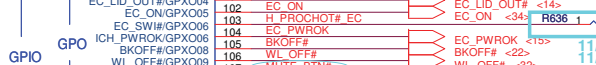
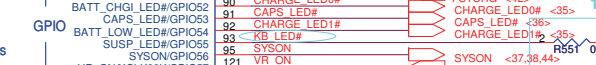
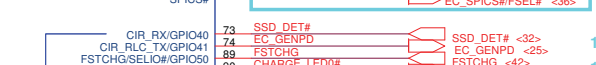
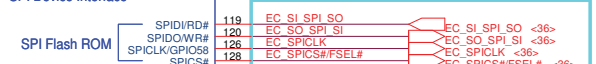
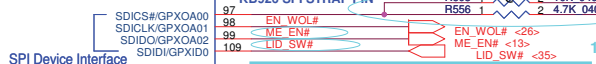
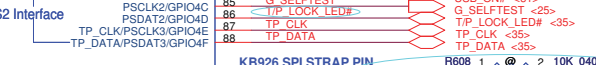
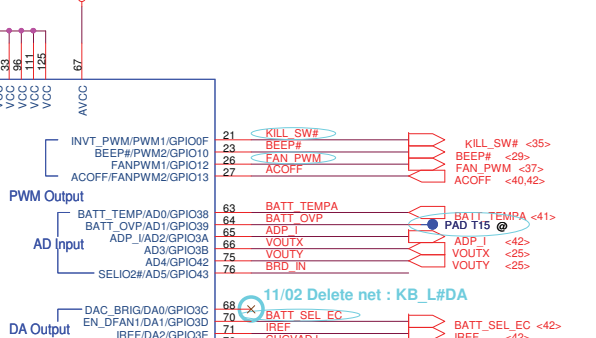
11/03 Change R568,R569 from 2.7kohm to 2.2kohm 11/05 Change R568,R569 from mount to @ (Follow NIWE2) 11/10 Delete R568(@),R569(@),C483(@),C484(@)



01/11 Change X2 from SJ100003M00 to SJ132P7KW10 (Cost down)

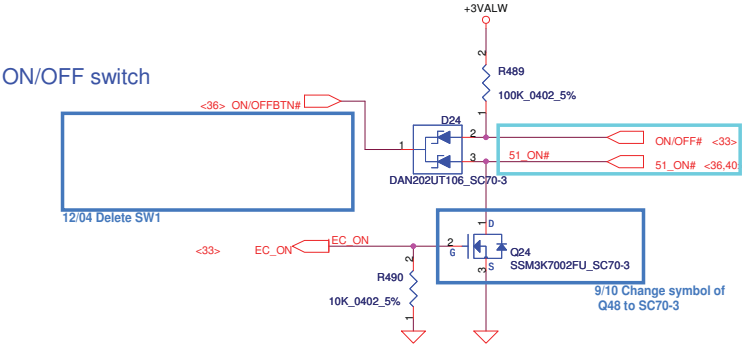


+3VALW +EC_AVCC



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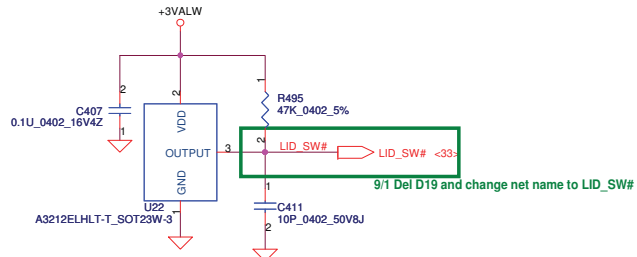
Power Button



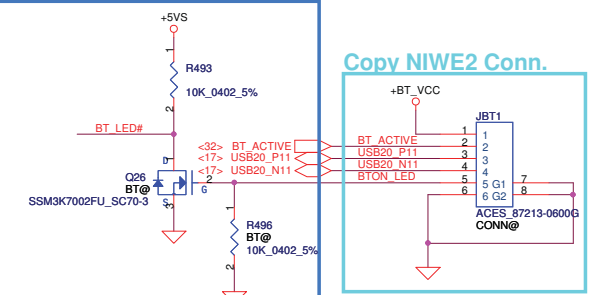
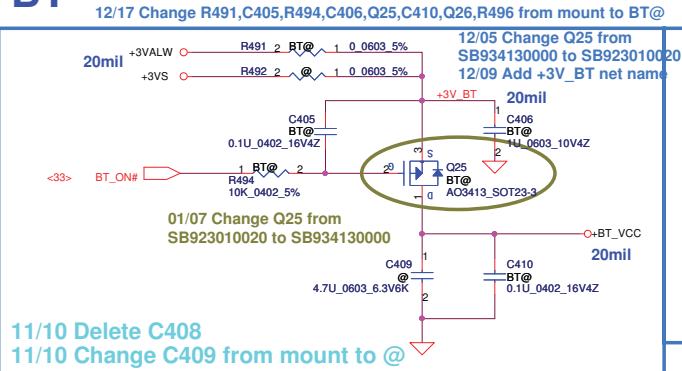
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Lid Switch

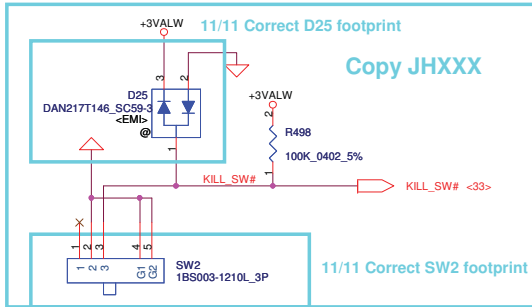
(Hall Effect Switch)



BT

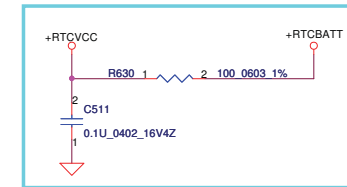


KILL Switch

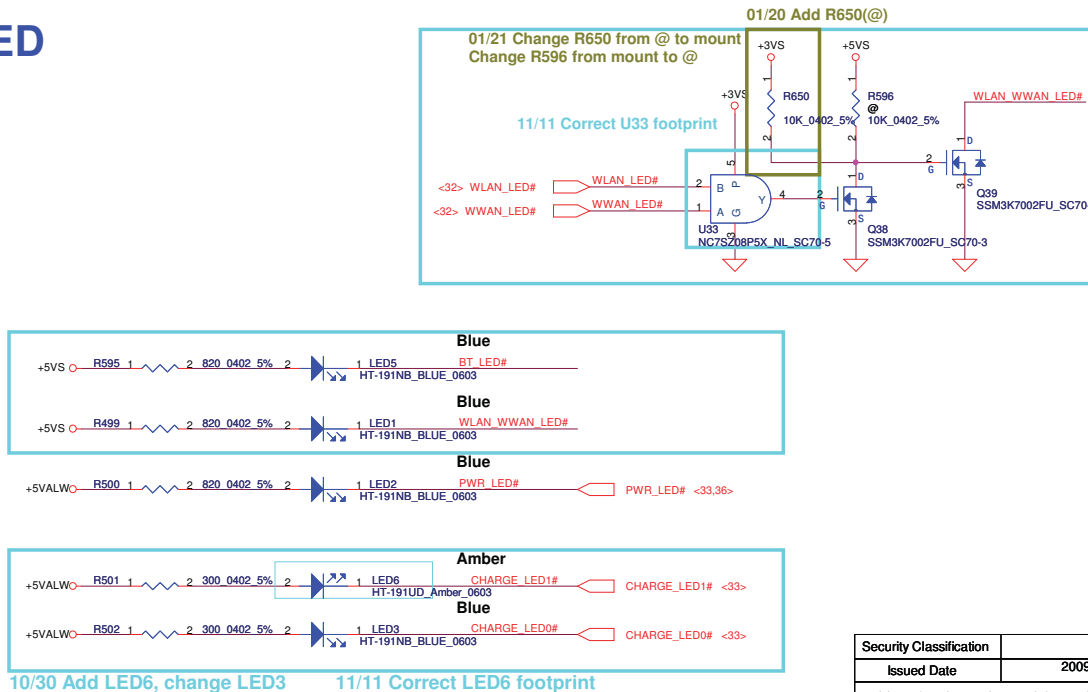


RTC

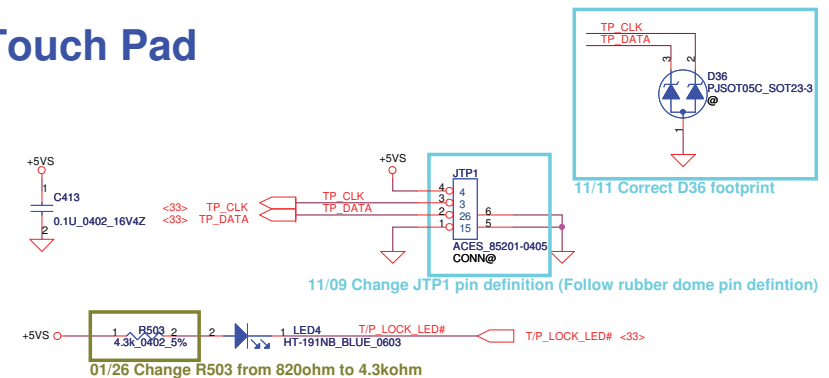
11/10 Delete D26, C412, R497, Add R630, C511 (Follow NIWE2)



LED

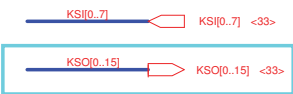


Touch Pad

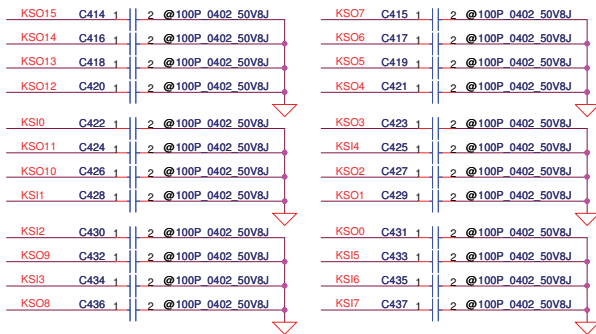
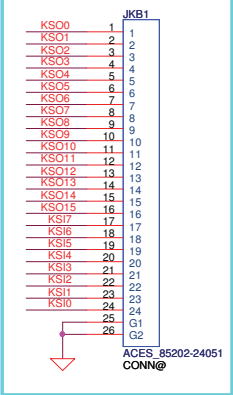


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INT_KBD Conn.



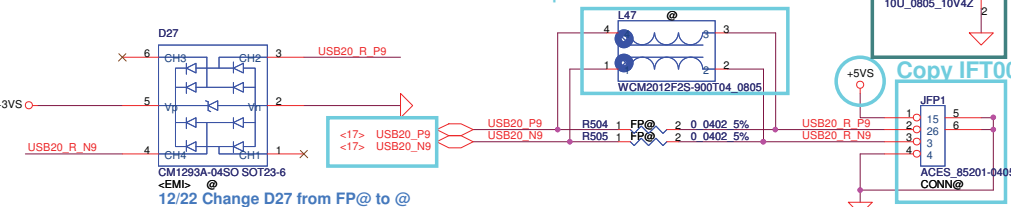
Copy KIUE0



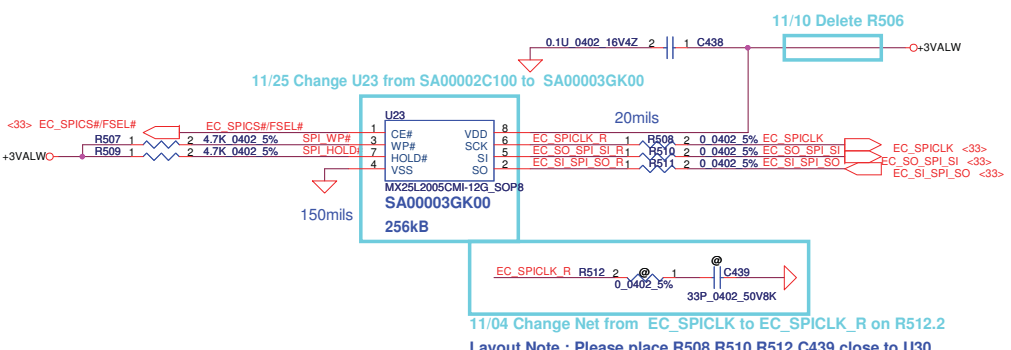
03/02 Add C555 (10uF) for FP power

FingerPrint/B Conn.

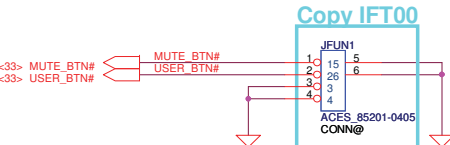
12/17 Change D27,R504,R505 from mount to FP@
10/28 Change Net from USB20_N10,USB20_P10,USB20_R_P10,USB20_R_N10 to USB20_N9,USB20_P9,USB20_R_P9,USB20_R_N9
11/11 Correct L47 footprint



EC SPI ROM

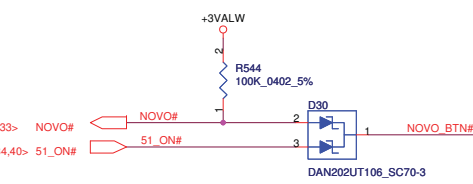
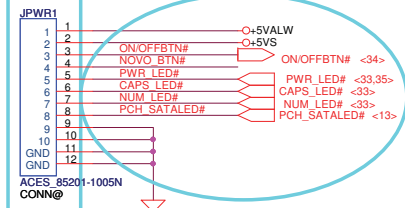


Function/B Conn.



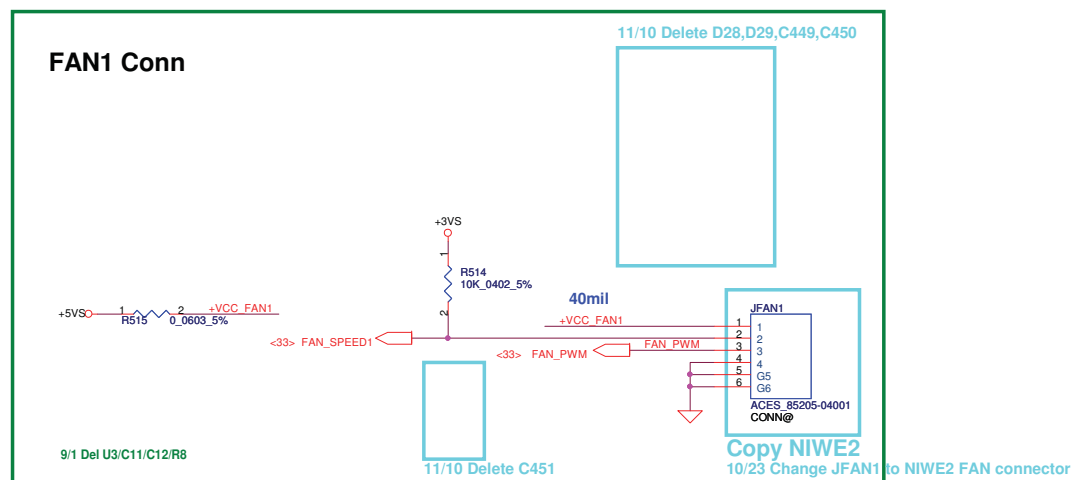
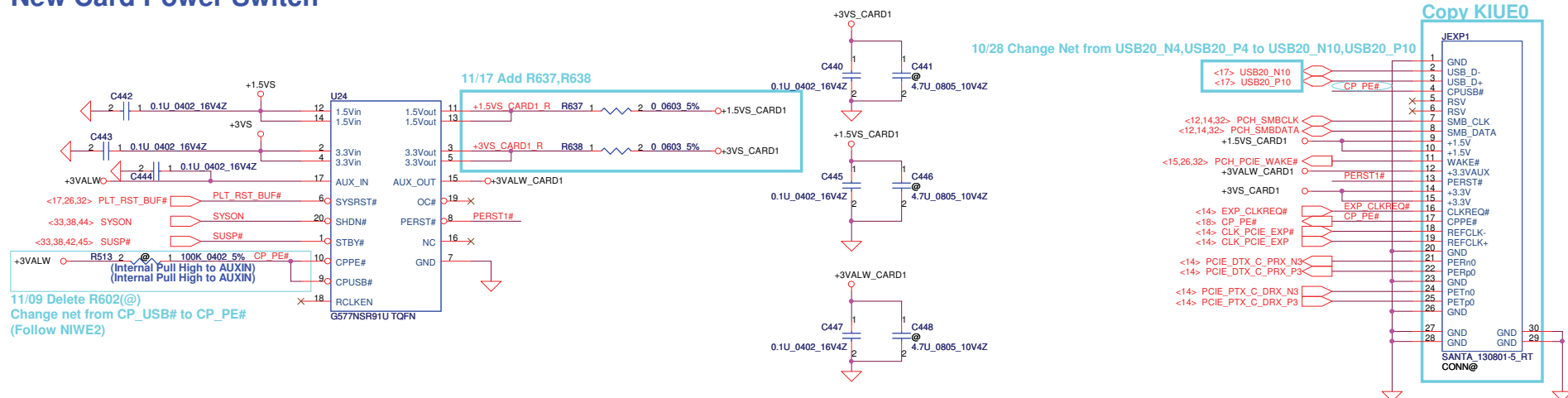
Power/B Conn.

Copy KSW01



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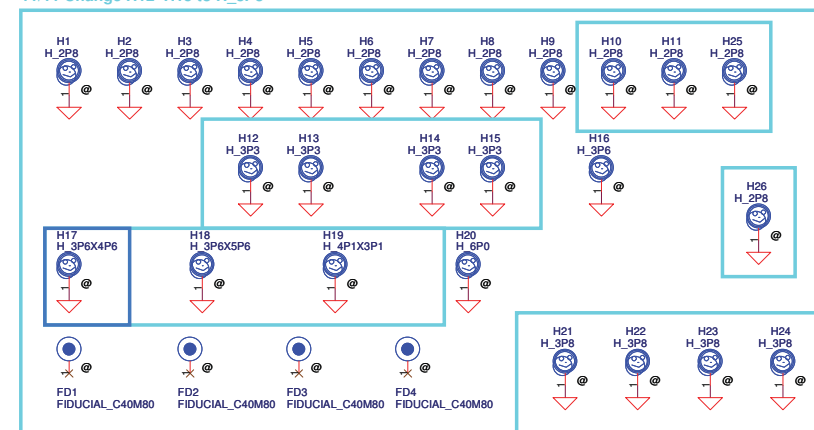
New Card Socket



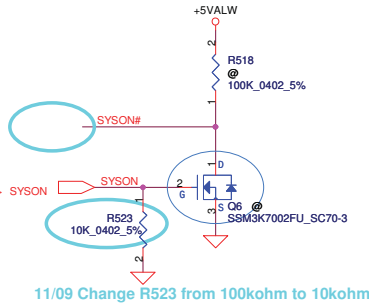
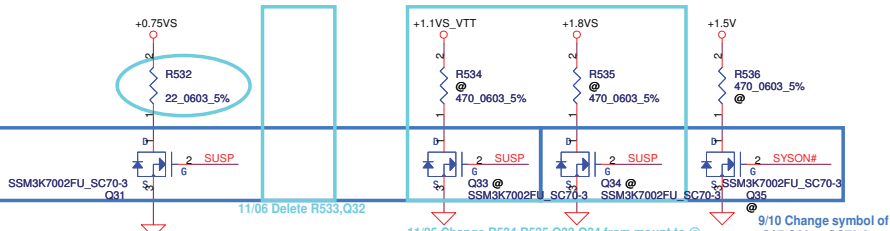
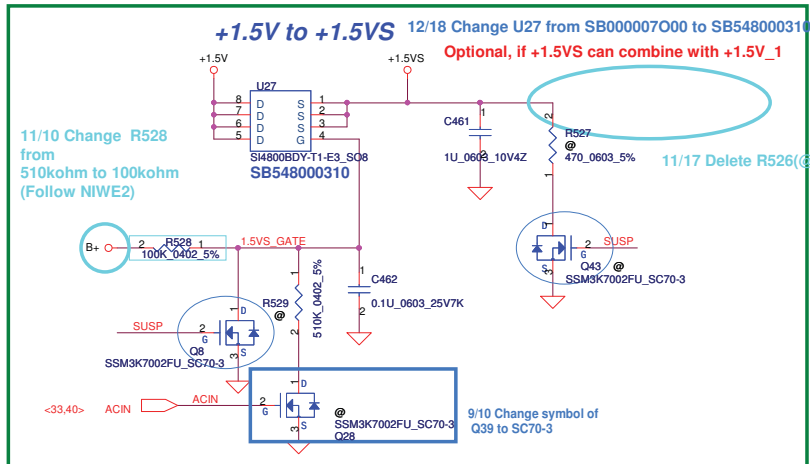
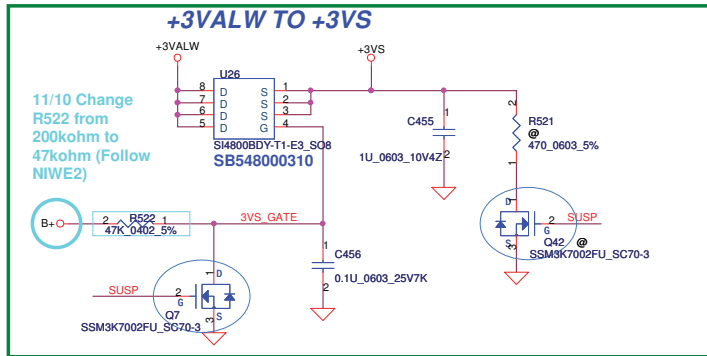
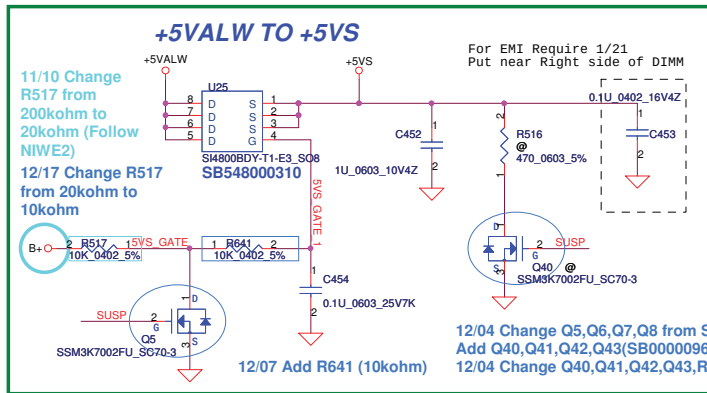
12/10 Change H17 from H 3P6X5P6 to H 3P6X4P6

11/14 Add H26 H 2P8

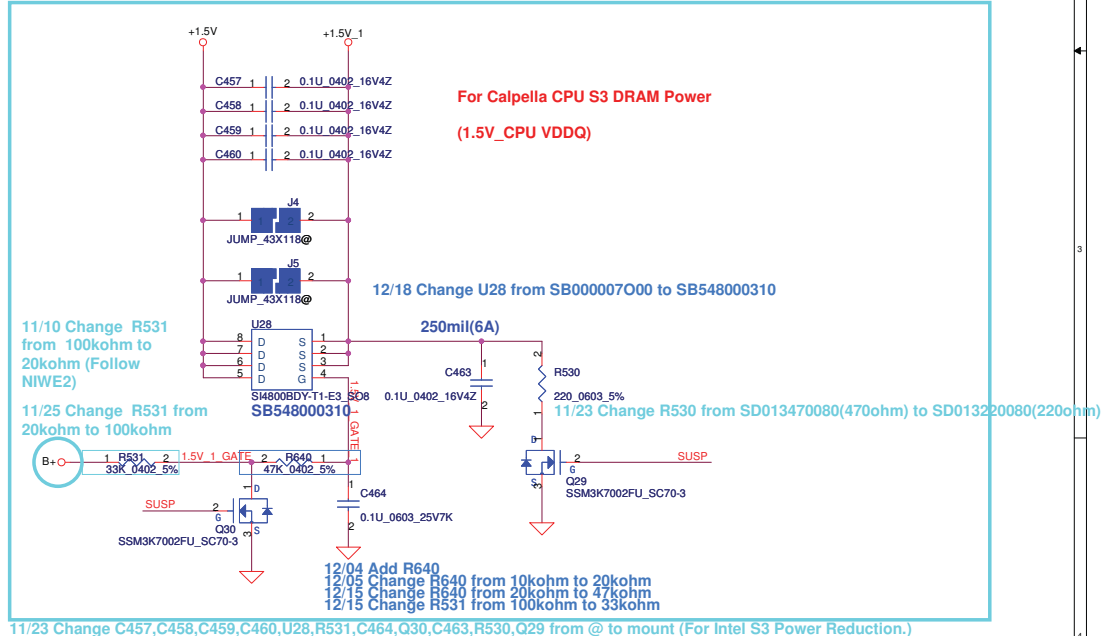
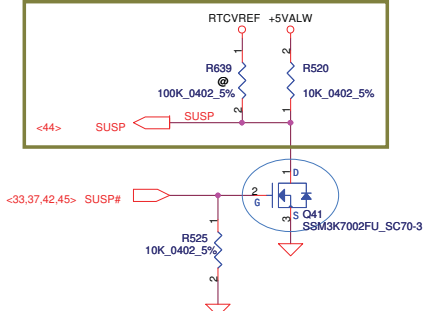
11/11 Change H12~H15 to H_3P3



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12/04 Add R639, Change R520 from mount to @
01/21 Change R520 from @ to mount
Change R639 from mount to @
01/21 Change R520 from 100kohm to 10kohm



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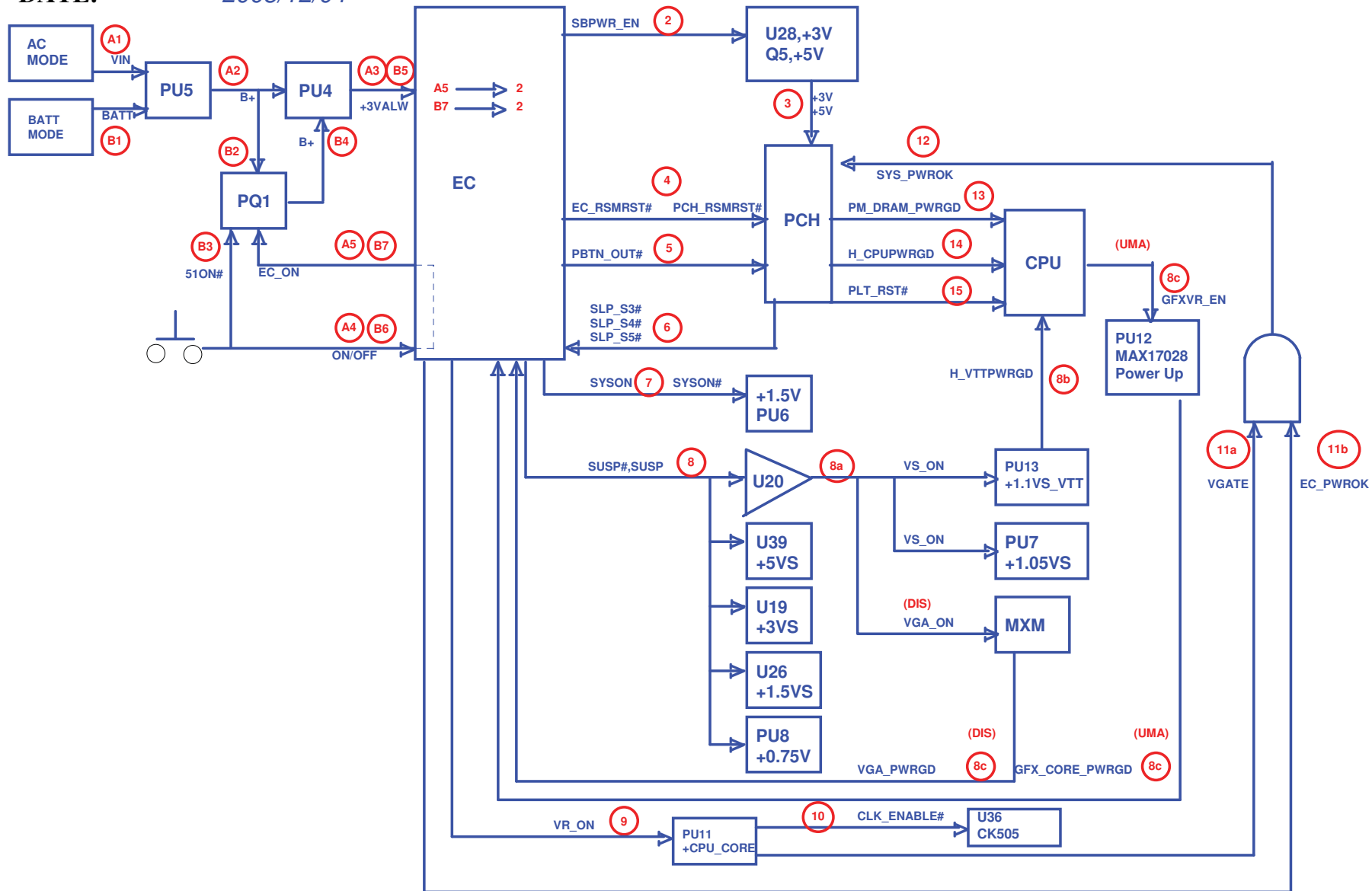
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MODEL NAME: *KBLA0 Power Sequence Block Diagram*

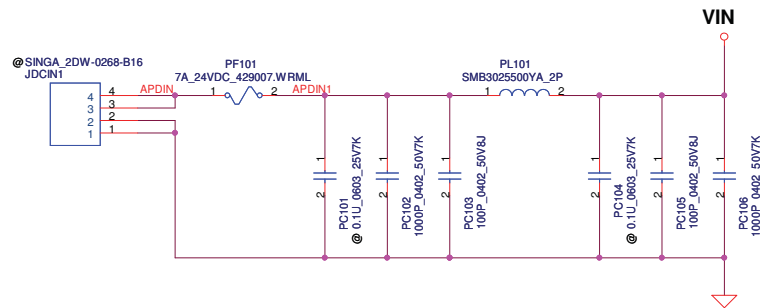
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REVISION:

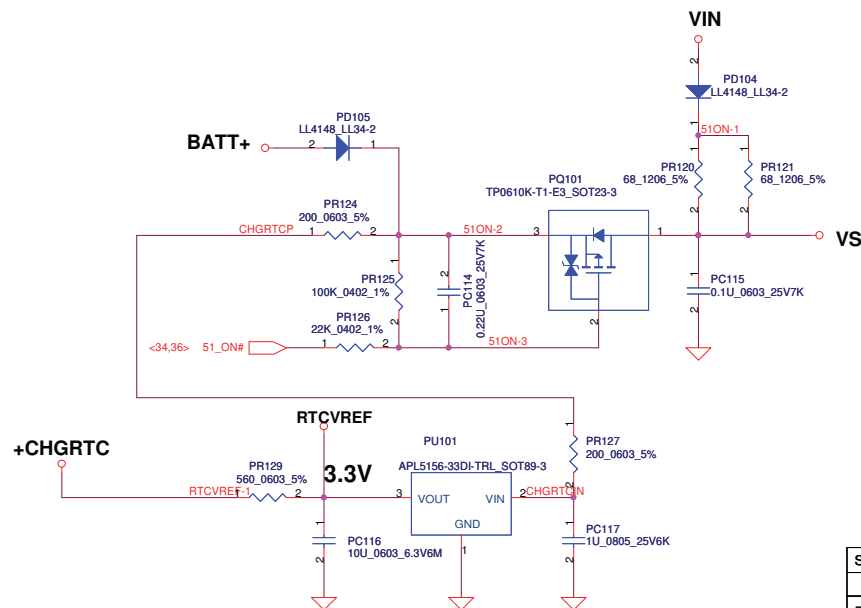
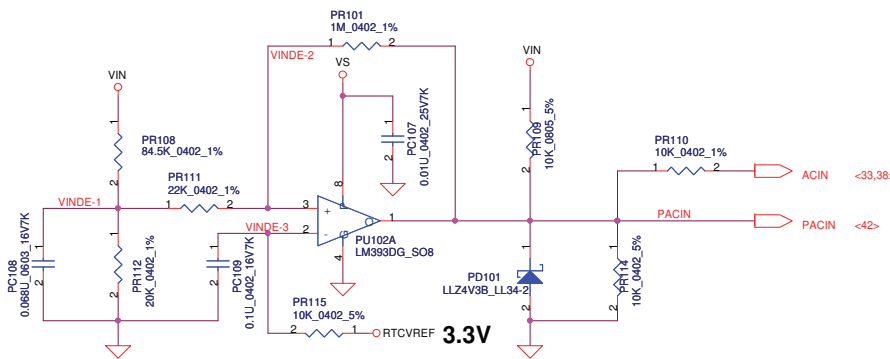
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	Min.	typ.	Max.
L-->H	17.430V	17.901V	18.384V
H-->L	16.976V	17.262V	17.728V

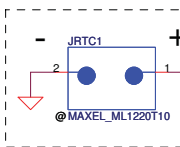
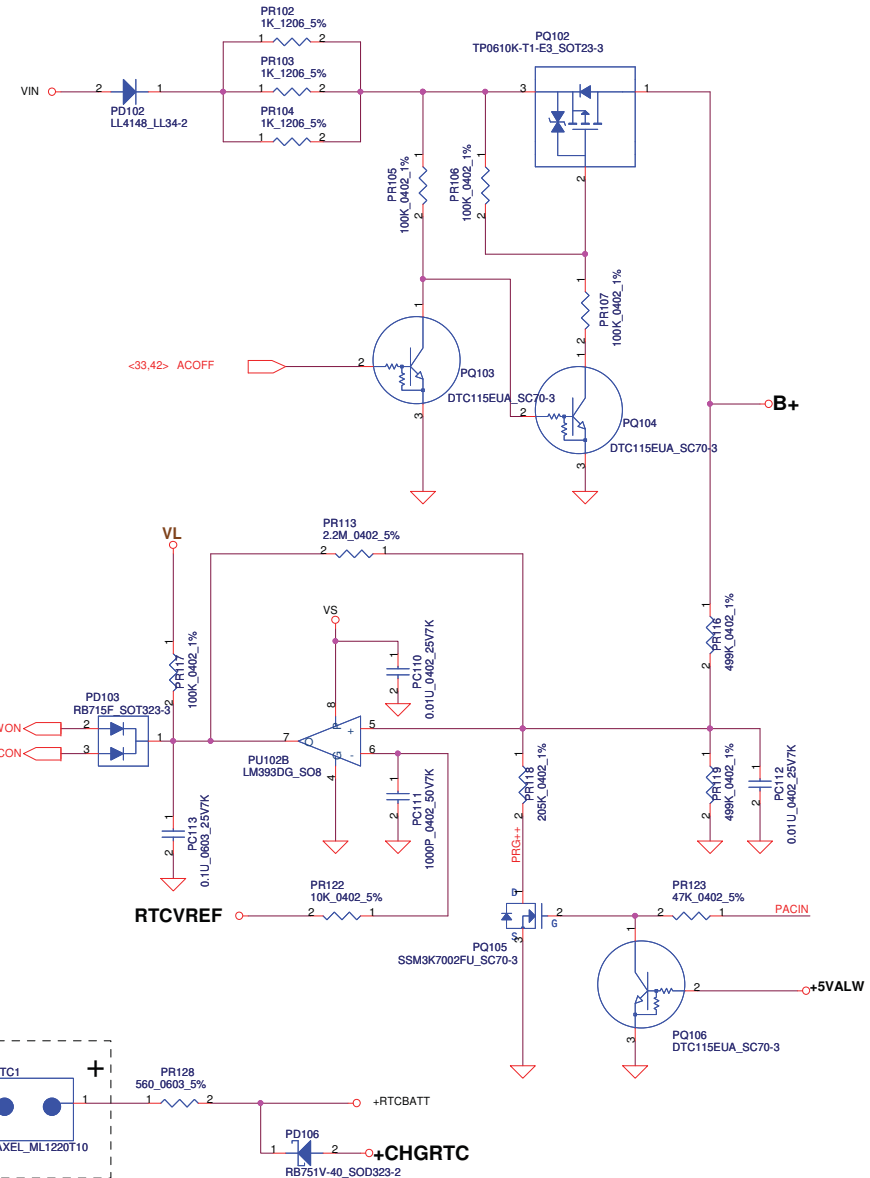


ACIN

	Min.	typ.	Max.
L-->H	14.991V	15.381V	15.782V
H-->L	13.860V	14.247V	14.621V

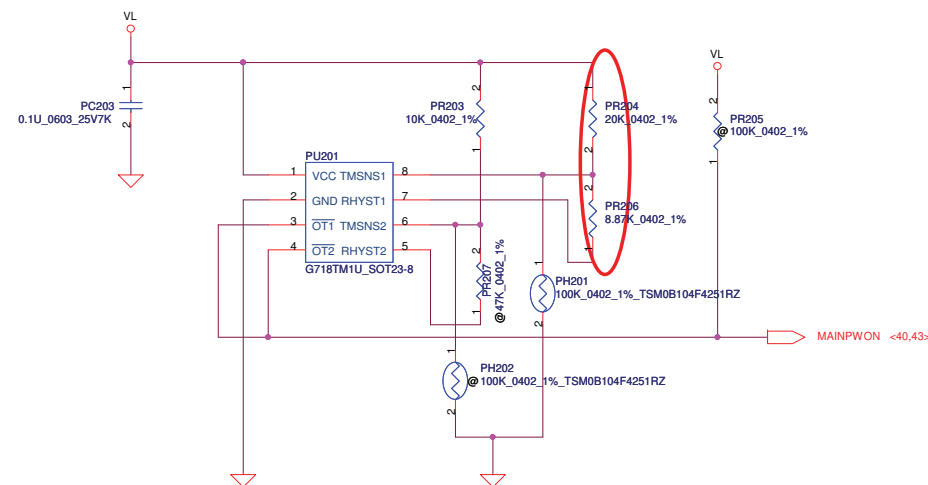
BATT ONLY

	Min.	typ.	Max.
L-->H	7.196V	7.349V	7.505V
H-->L	6.138V	6.214V	6.056V

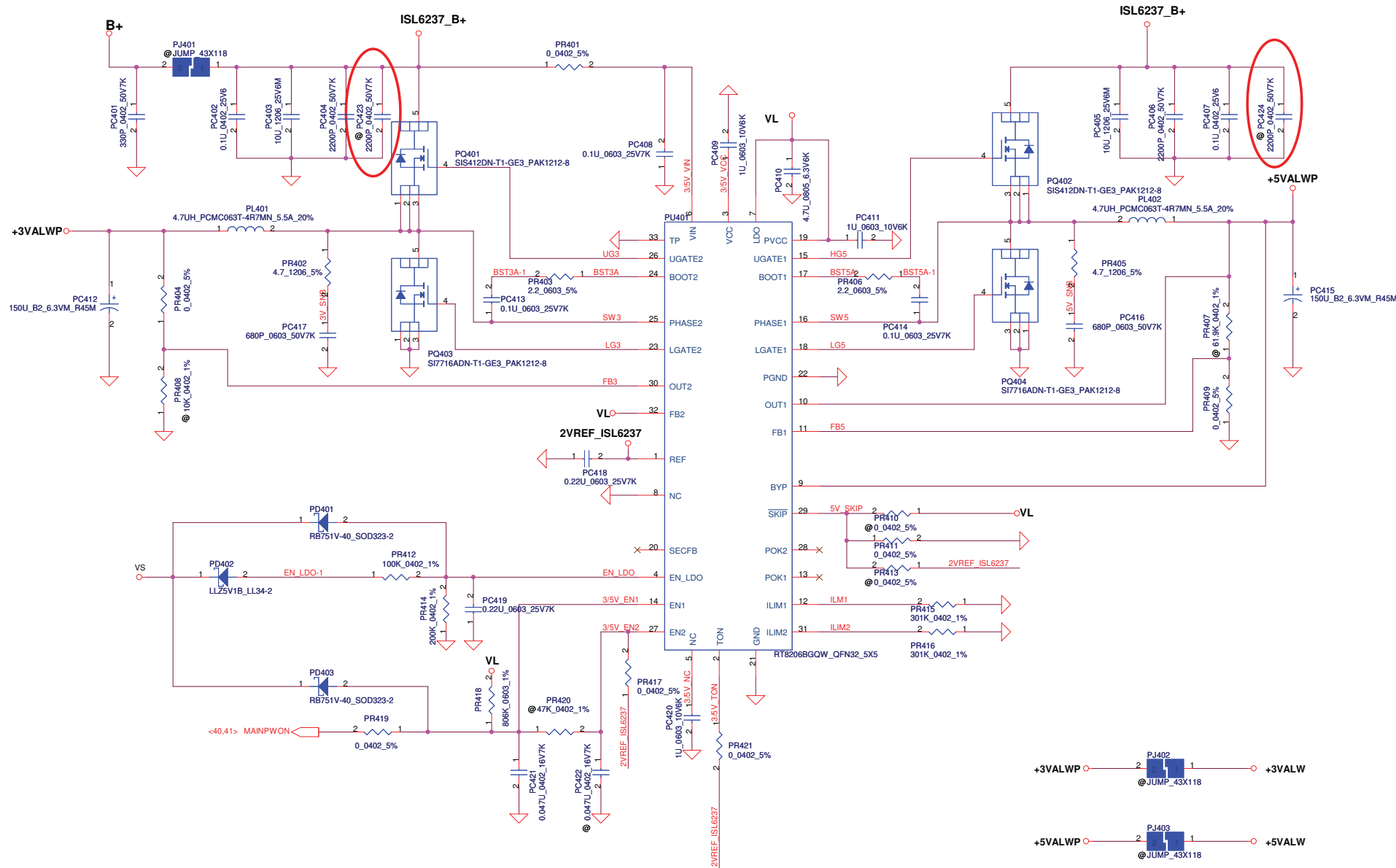


RTC Battery

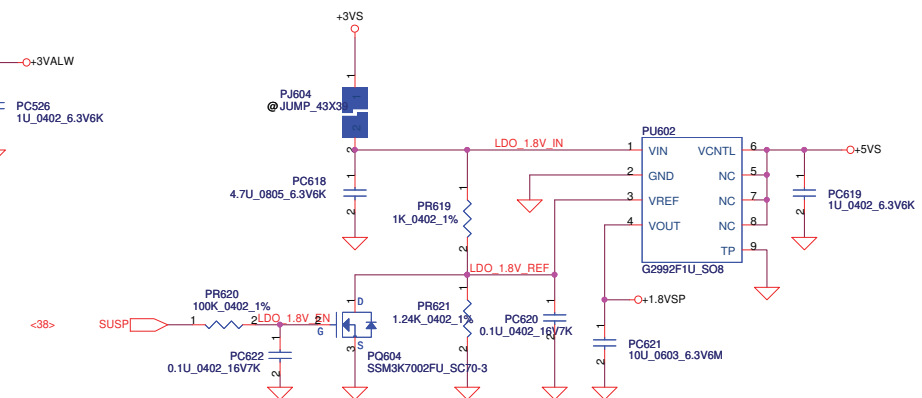
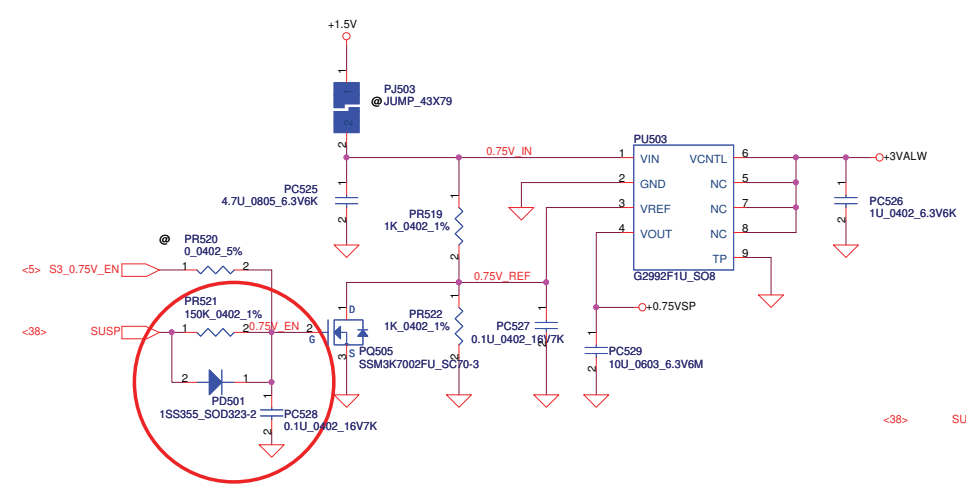
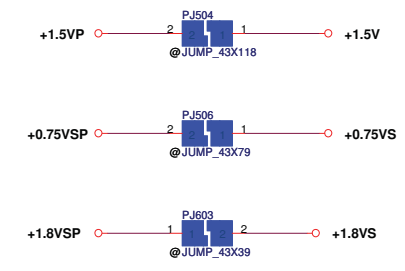
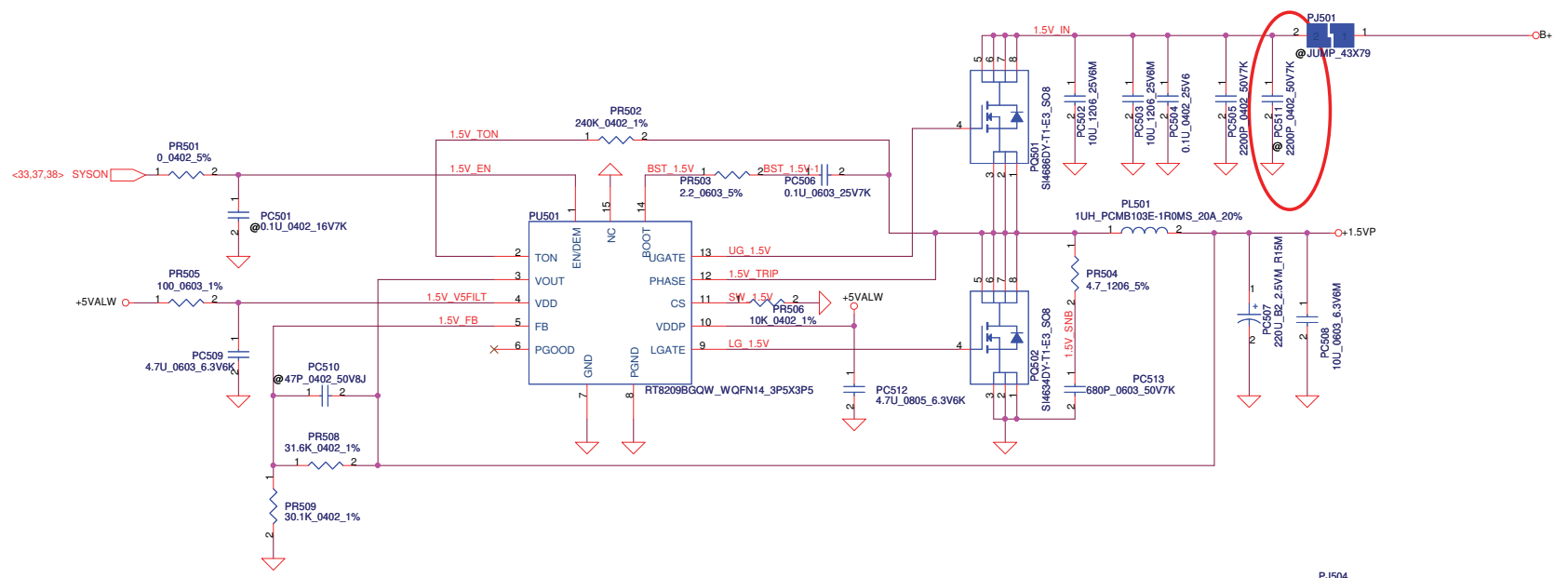
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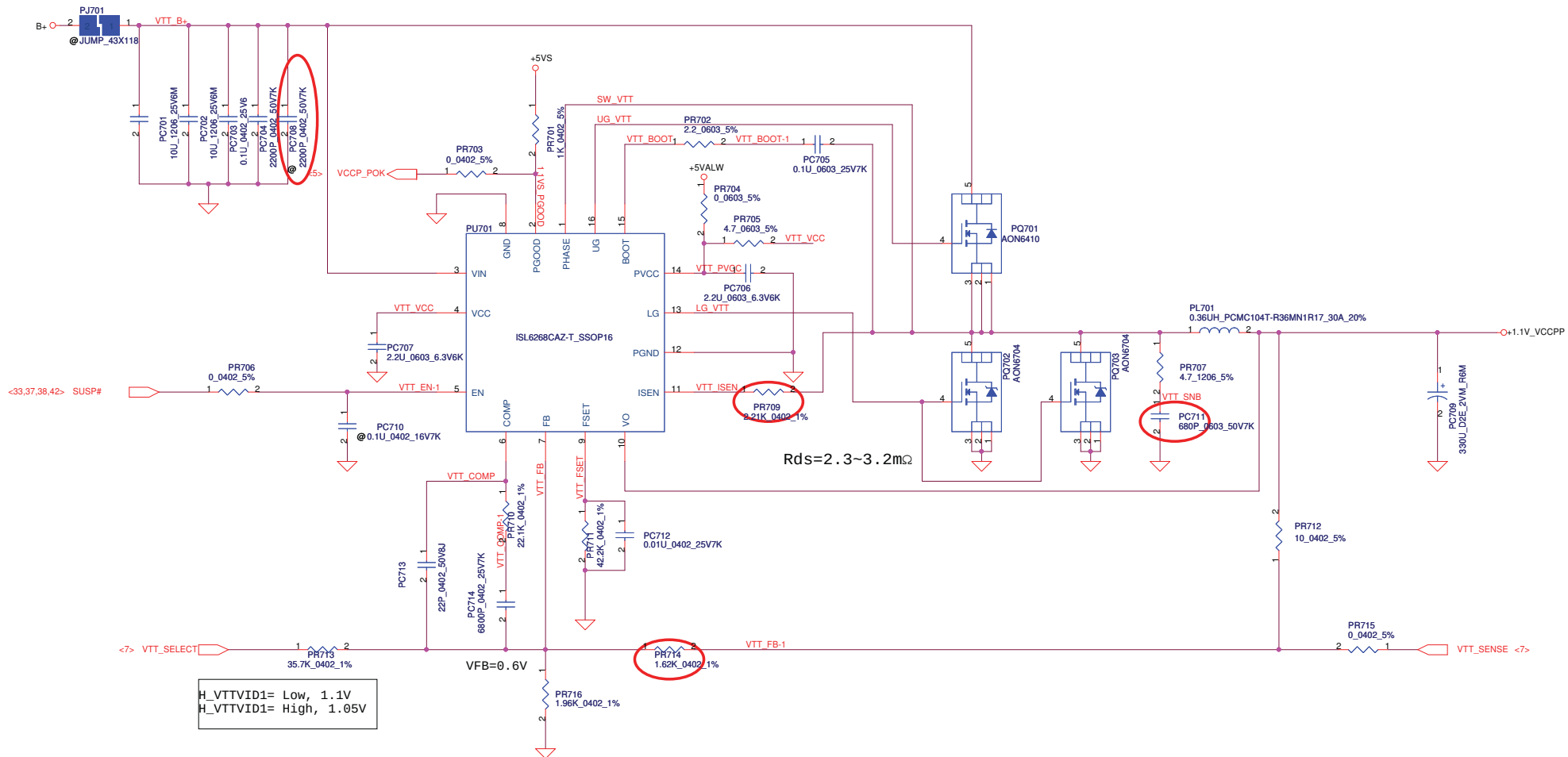
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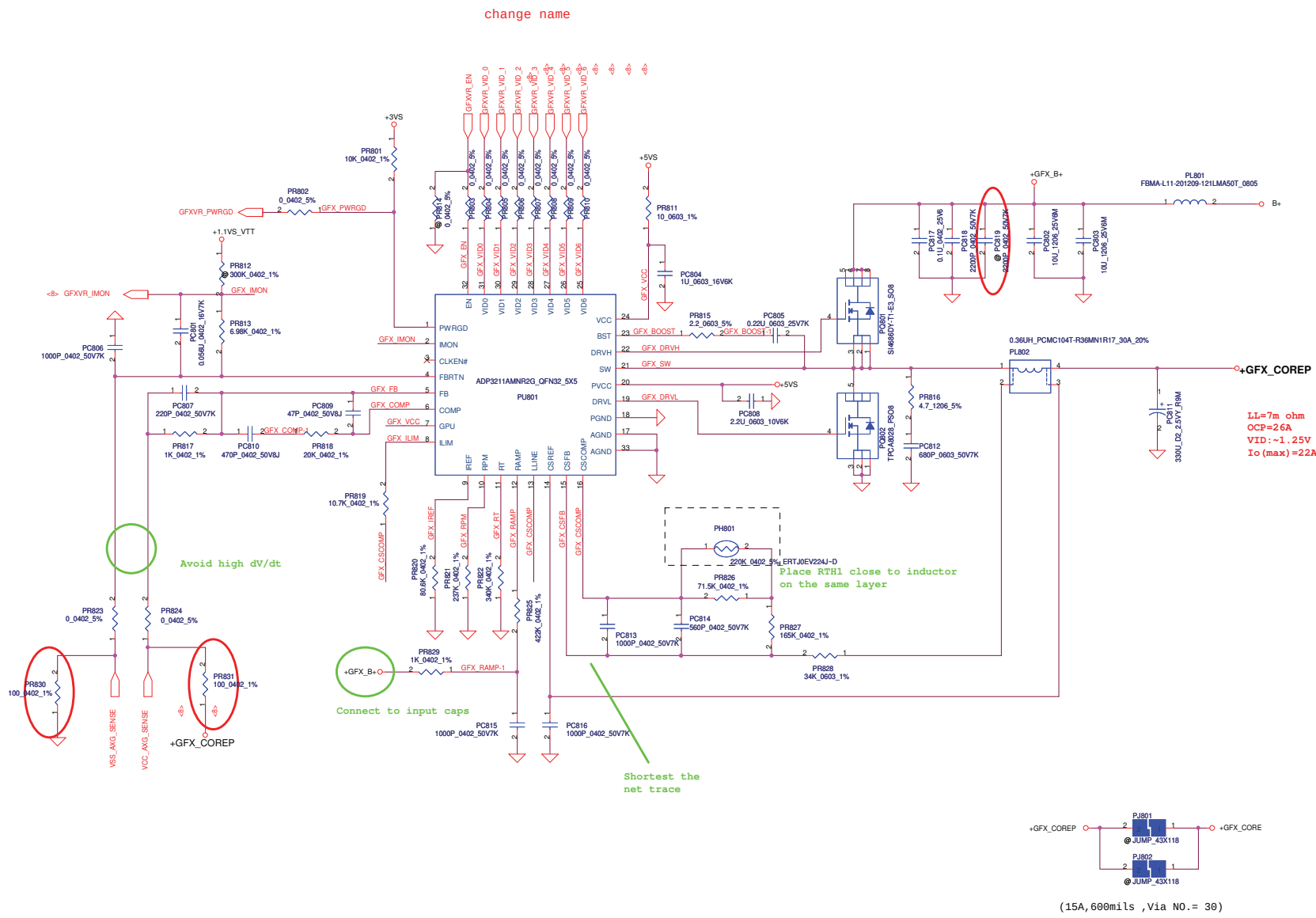
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Version change list (P.I.R. List)

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for PWR

Item	Reason for change	PG#	Modify List	Date	Phase
1	For ESD	P41	Add PD202	2009.11.5	EVT
2	For HW request remove +1.05V's JUMP	P41	Remove +1.05V's JUMP	2009.11.6	EVT
3	Because limited high is not enough.	P47	Change PC907 from 220uF to 68uF	2009.11.6	EVT
4	Add PR830,PR831 for GFX_CORE sence.	P46	Add PR830,PR831 for GFX_CORE sence.	2009.11.17	EVT
5	Change Battery connent footprint.	P41	Change Battery connent footprint.	2009.11.17	EVT
6	Change PR521 from 0ohm to 150Kohm. Add PC528 on BOM.	P44	HW request	2009.11.25	EVT
7	Add PD501.	P44	HW request	2009.12.16	DVT
8	Reserve Cap. on B+ for RF.		RF request	2010.1.15	PVT
9	Change PR204 from 21.5Kohm to 20Kohm. Change PR206 from 9.76Kohm to 8.87Kohm.	P41	Thermal team request to change OTP temp. change from 92 degree to 95 degree.	2010.1.22	PVT
10					
11					
12					
13					
14					
15					
16					
17				20081022	

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