

Triathlon

Compal confidential

Schematics Document Mobile Yonah uFCPGA with Intel Calistoga_GM/PM+ICH7-M core logic

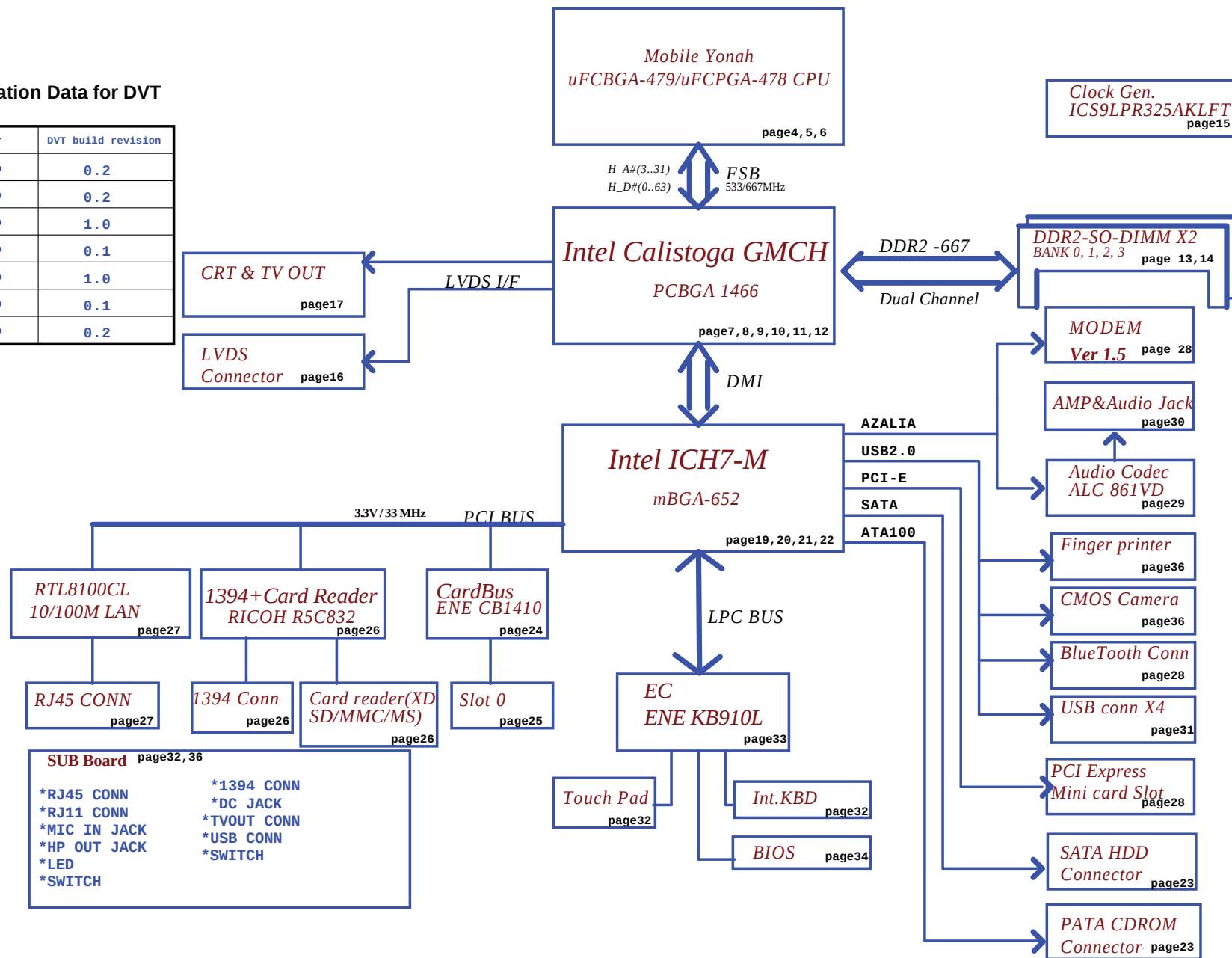
星期三, 七月 12, 2006

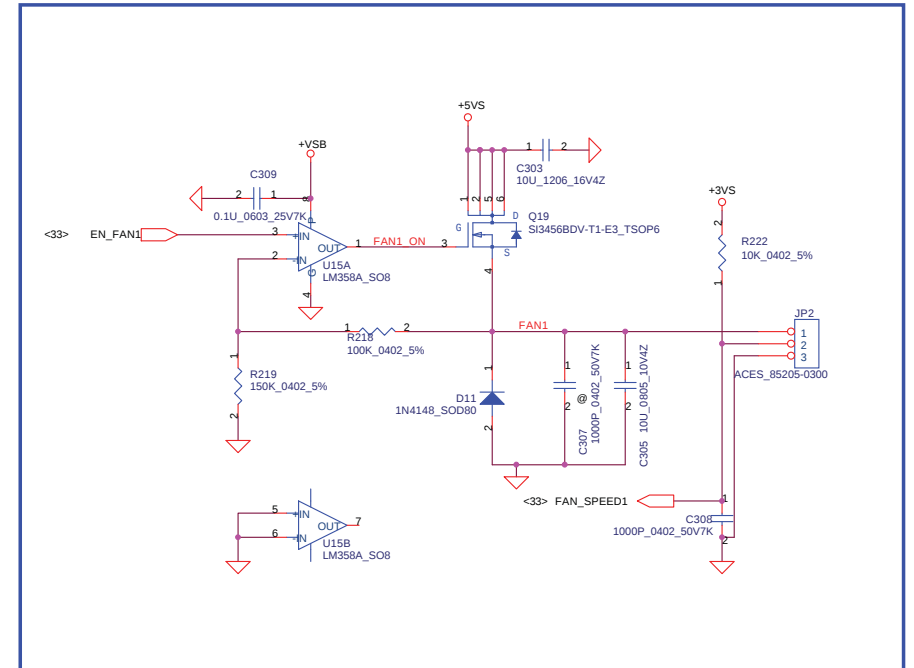
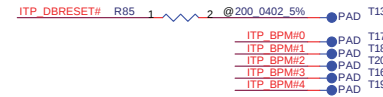
REV:0.3

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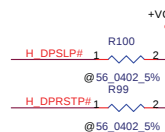
HDL20 PCB panelization Data for DVT

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MB	LA3281P	0.2
Audio/USB	LS3251P	0.2
SW board	LS3102P	1.0
CRT board	LS3253P	0.1
TP board	LS3104P	1.0
FP Board	LS3255P	0.1
LED board	LS3256P	0.2

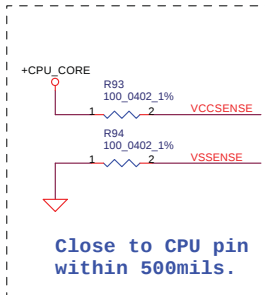
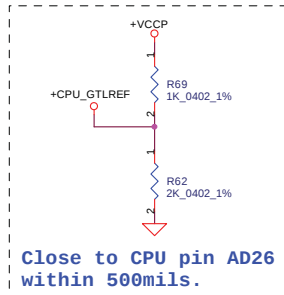




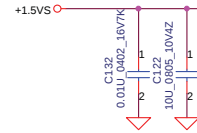
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ME@



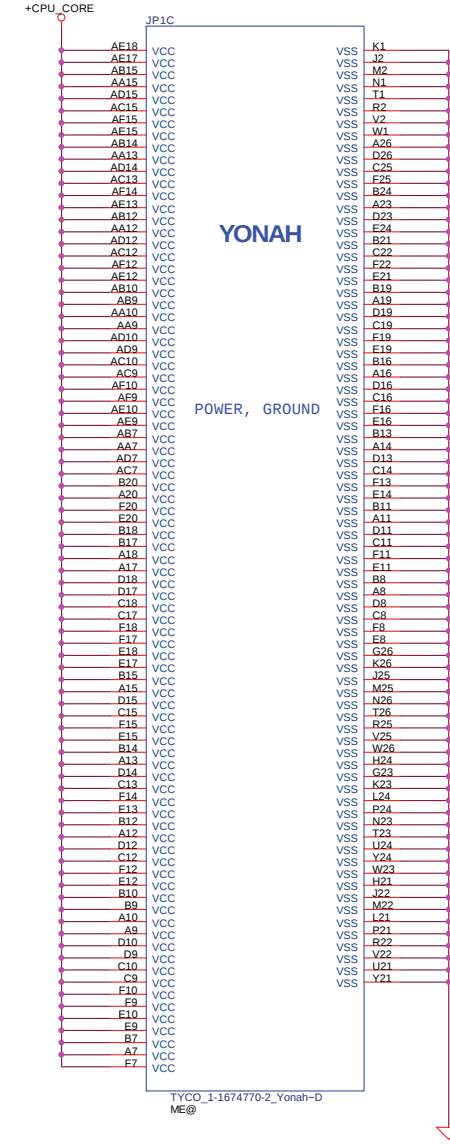
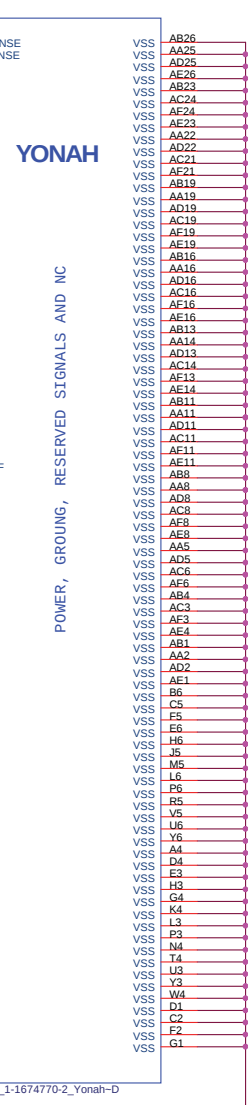
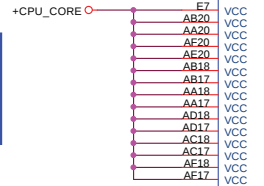
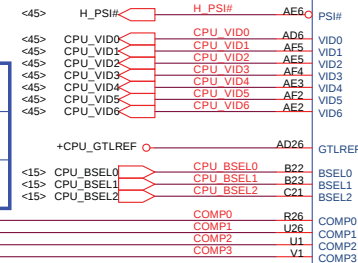
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Date: 星期三, 七月 12, 2006				Sheet	4	of 47	

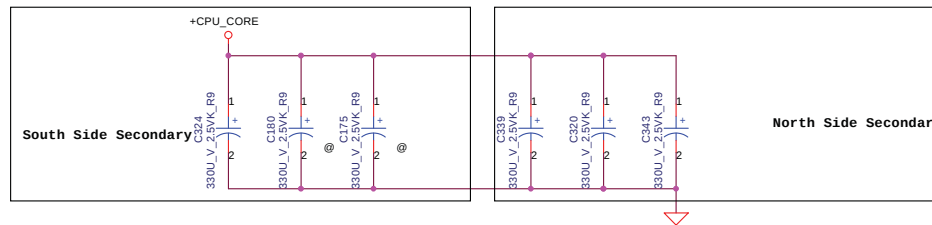
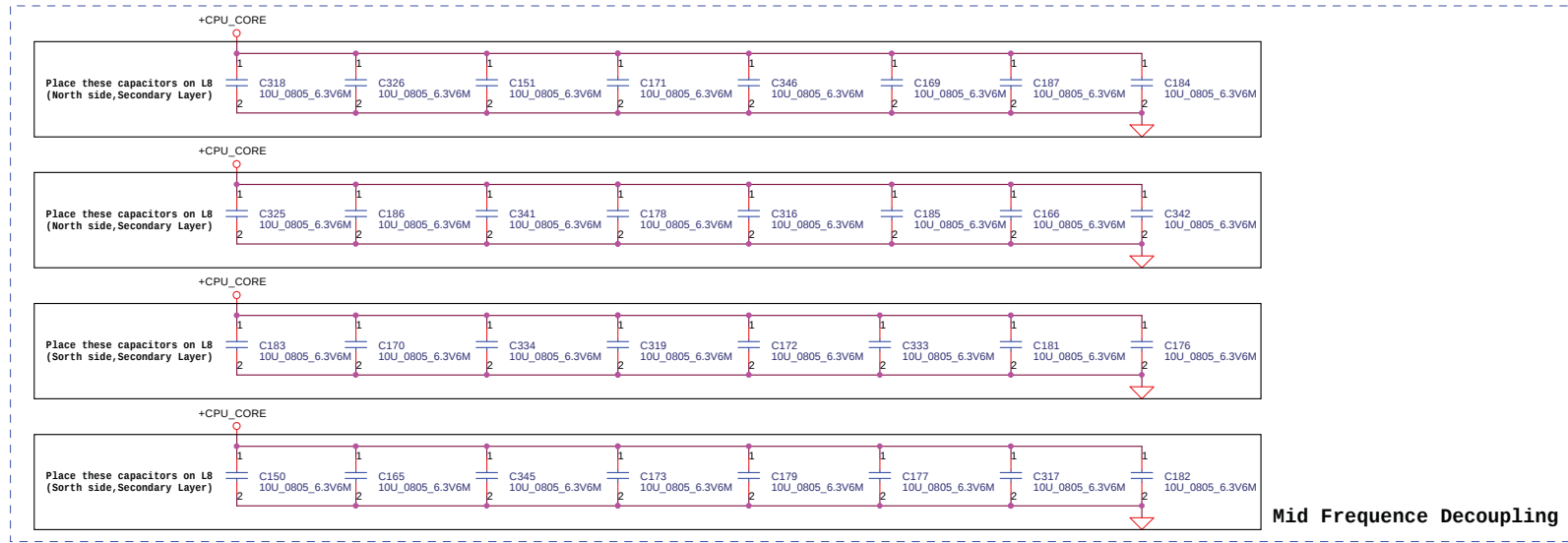


Length match within 25 mils
The trace width 18 mils space
7 mils

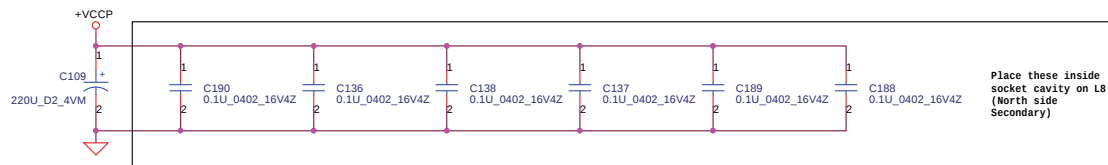


CPU_BSEL	CPU_BSEL2	CPU_BSEL1	CPU_BSEL0
133	0	0	1
166	0	1	1

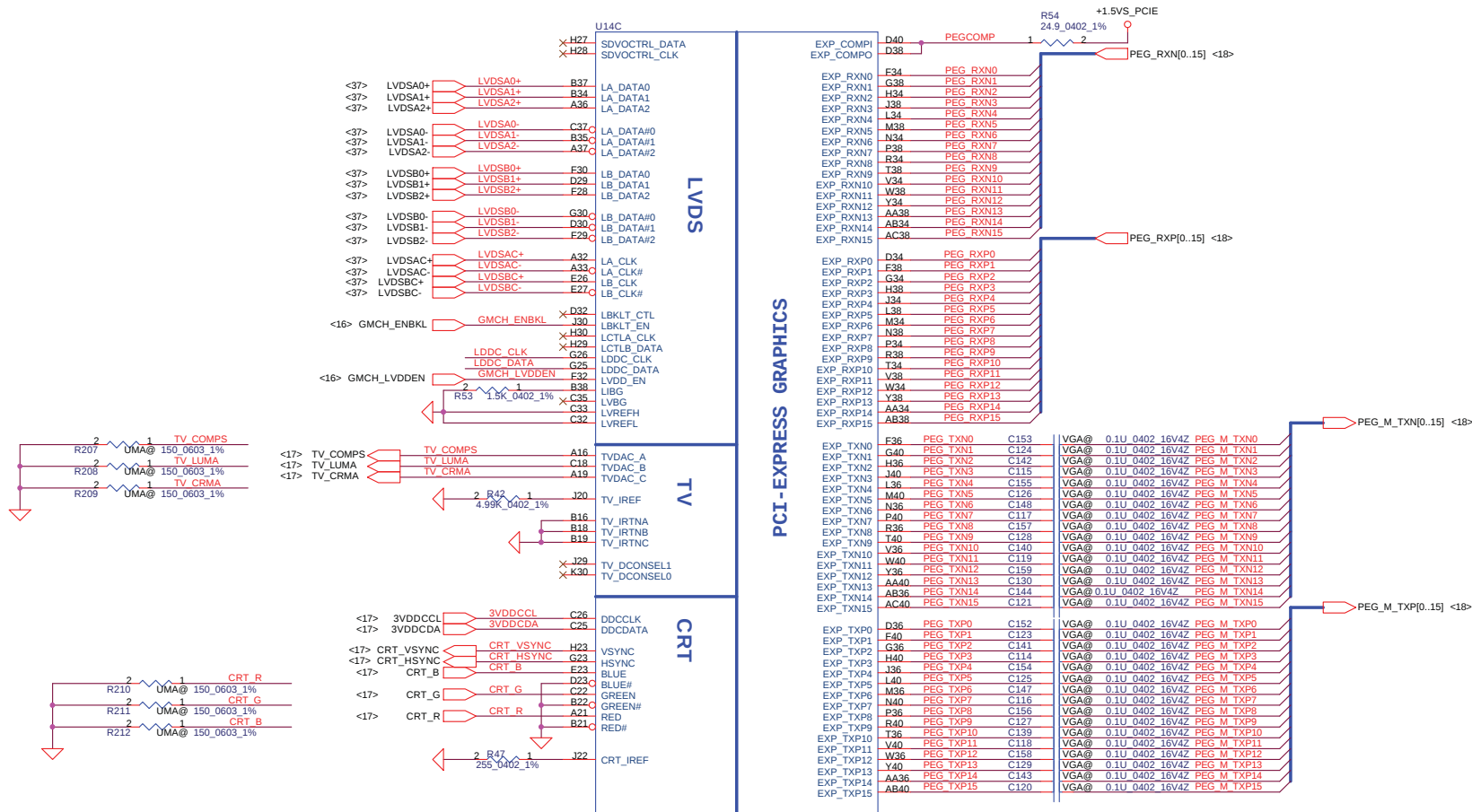




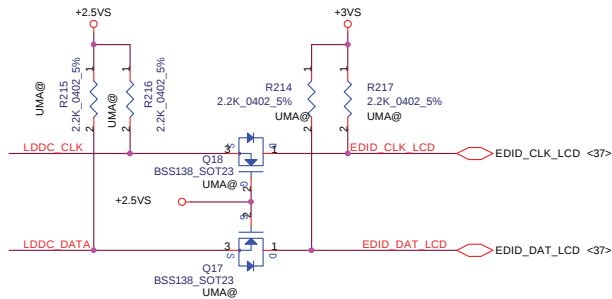
ESR <= 1.5m ohm
Capacitor > 1980uF



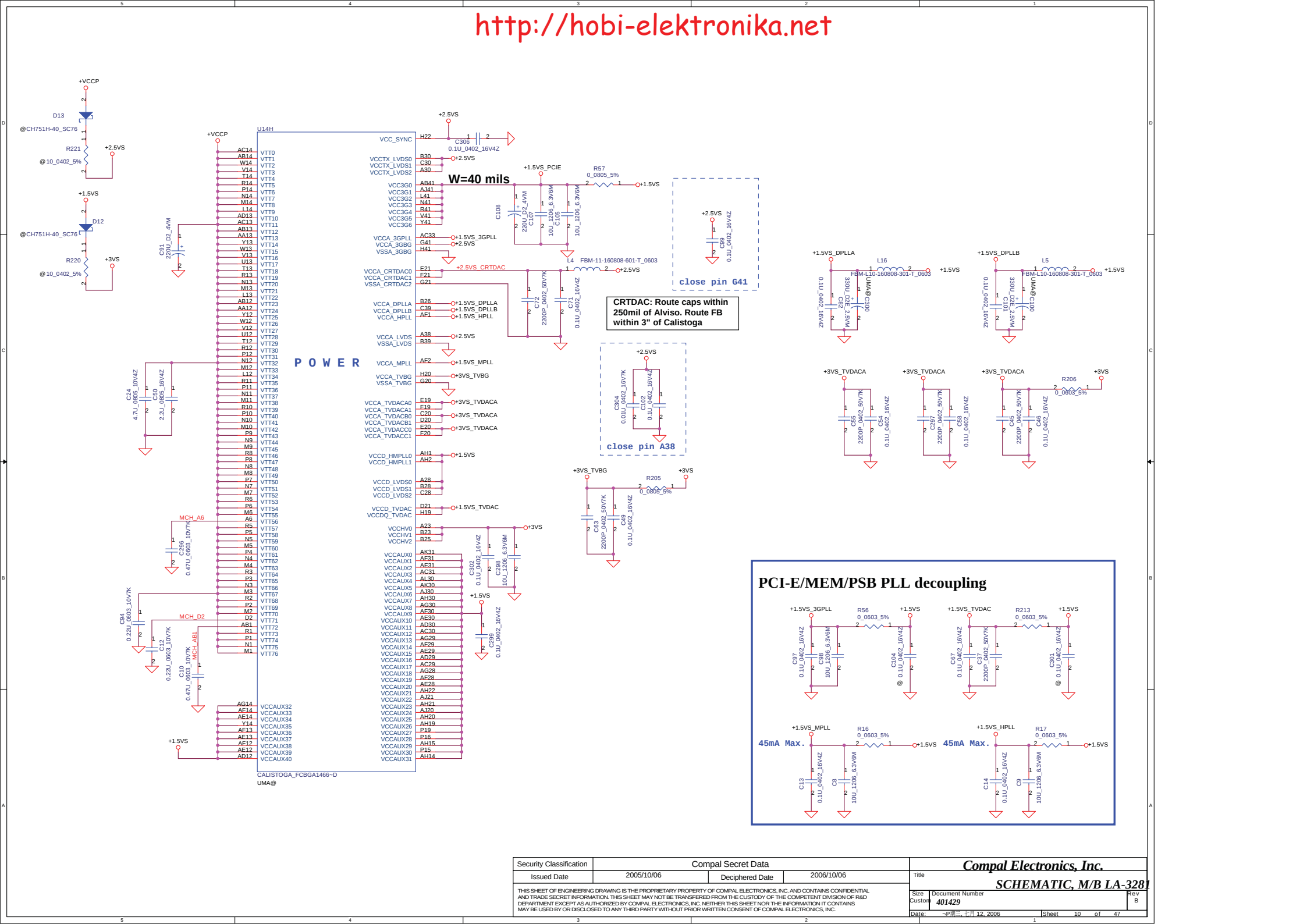




CALISTOGA_FC8GA1466-D
UMA@



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<http://hobi-elektronika.net>

POWER

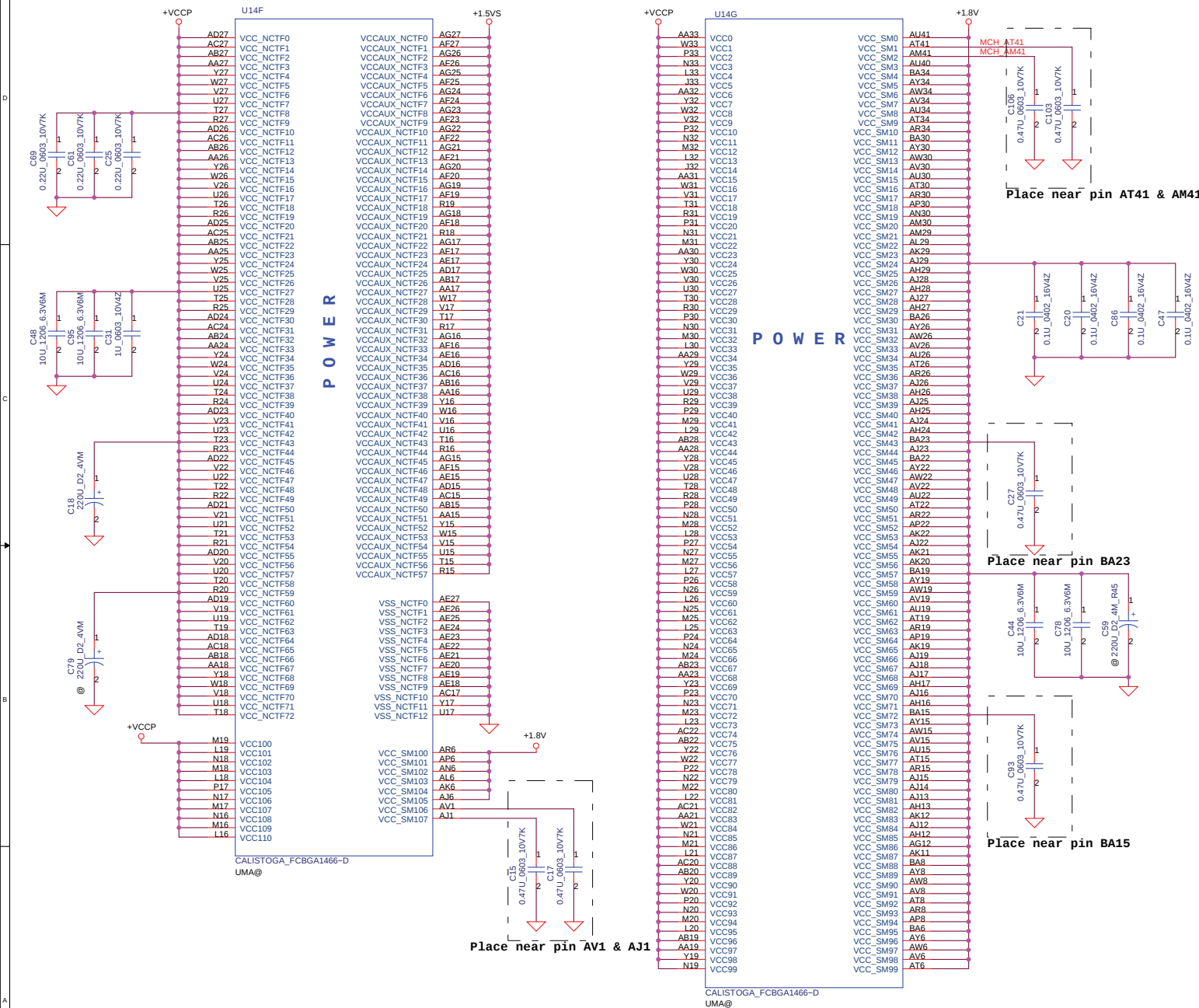
PCI-E/MEM/PSB PLL decoupling

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Strap Pin Table

CFG[3:17] have internal pull up
CFG[19:18] have internal pull down

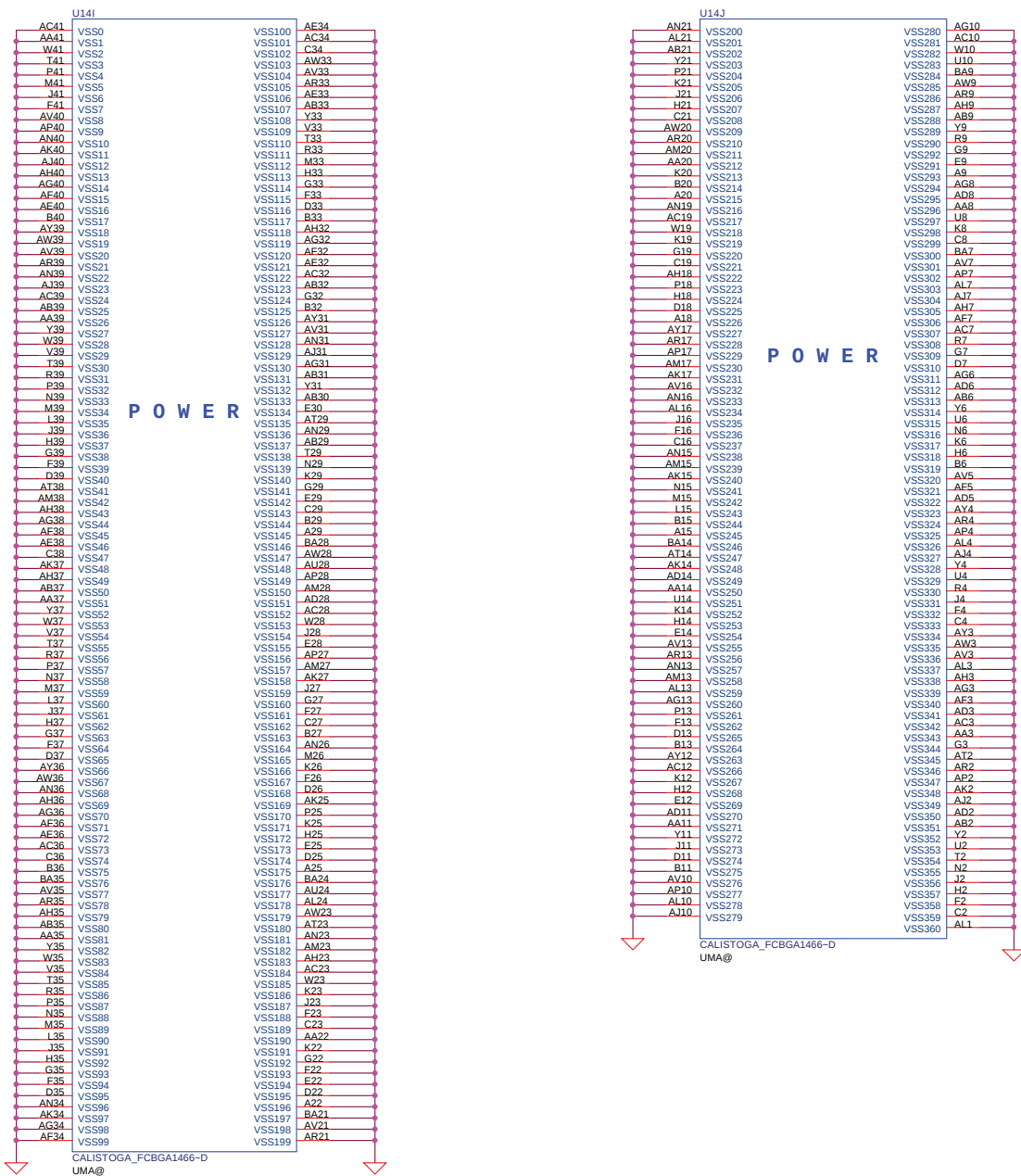
CFG[2:0]	011 = 667MT/s FSB 001 = 533MT/s FSB
CFG5	0 = DMI x 2 1 = DMI x 4 * (Default)
CFG7	0 = Reserved 1 = Mobile Yonah CPU* (Default)
CFG9	0 = Lane Reversal Enable 1 = Normal Operation (Default)*
CFG6	0 = Reserved
PSB 4X CLK Enable	1 = Calistoga *
CFG[13:12]	00 = Reserved 01 = XOR Mode Enabled 10 = All Z Mode Enabled 11 = Normal Operation * (Default)
CFG16	0 = Dynamic ODT Disabled 1 = Dynamic ODT Enabled * (Default)
CFG10 CFG18	10 = 1.05V* (Default) 01 = 1.5V
CFG19	0 = Normal Operation * (Default) 1 = DMI Lane Reversal Enable
SDVO_CTRLDATA	0 = No SDVO Device Present * (Default) 1 = SDVO Device Present
CFG20 (PCIE/SDVO select)	0 = Only PCIE or SDVO is operational. * (Default) 1 = PCIE/SDVO are operating simu.

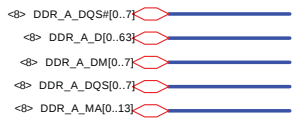


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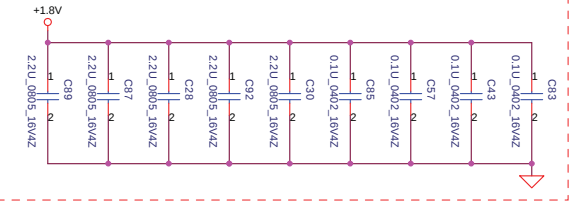
Compal Electronics, Inc.

SCHEMATIC, M/B LA-328!

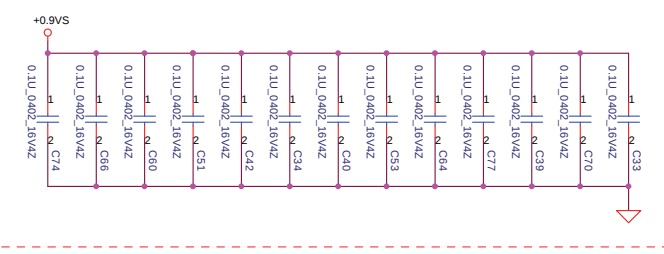




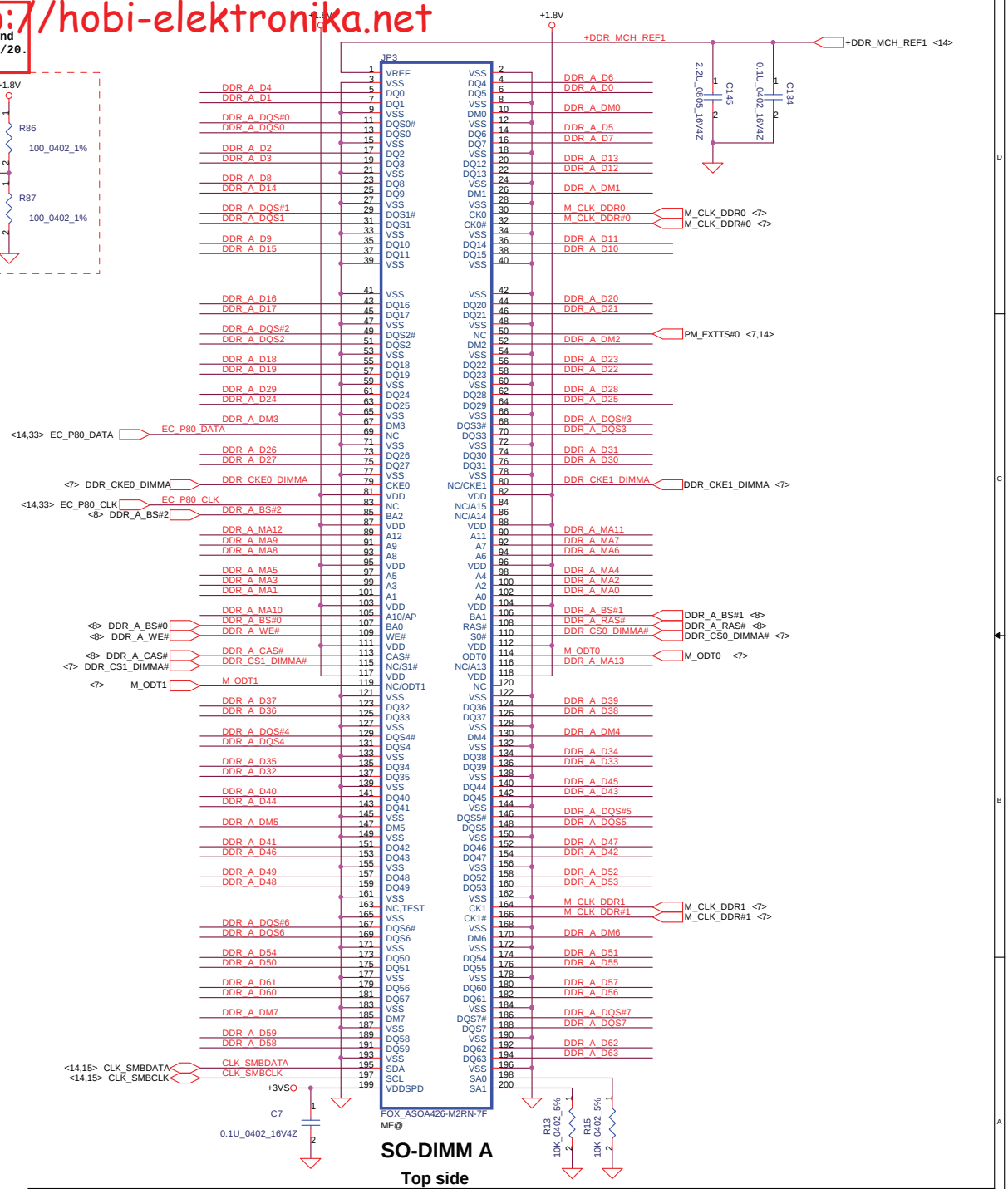
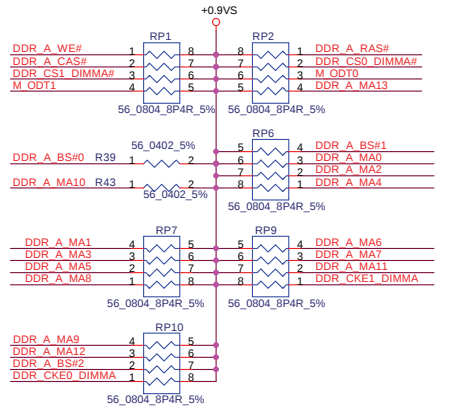
Layout Note:
Place near JP41

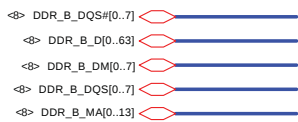


Layout Note:
Place one cap close to every 2 pullup resistors terminated to +0.9VS

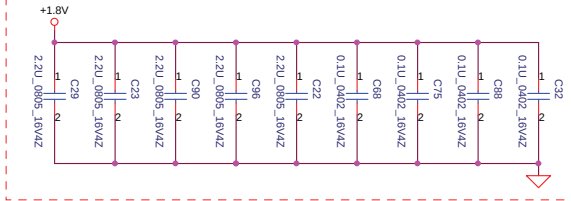


Layout Note:
Place these resistor closely JP41, all trace length Max=1.5"

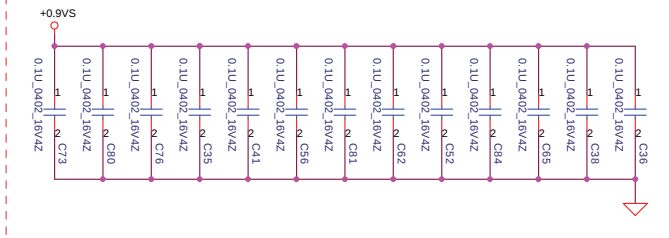




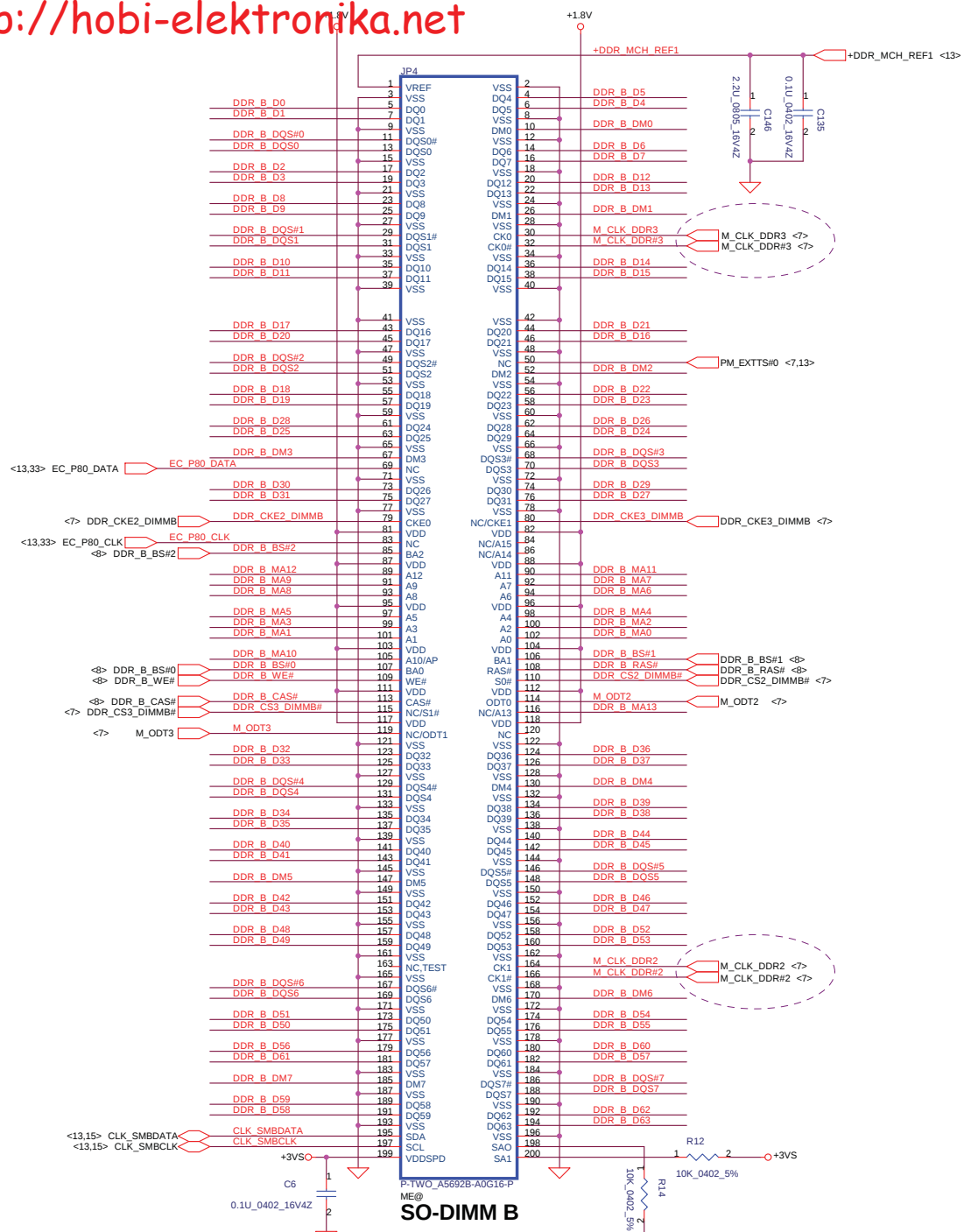
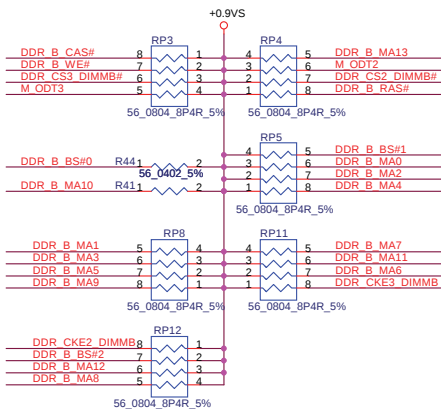
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Place near JP42

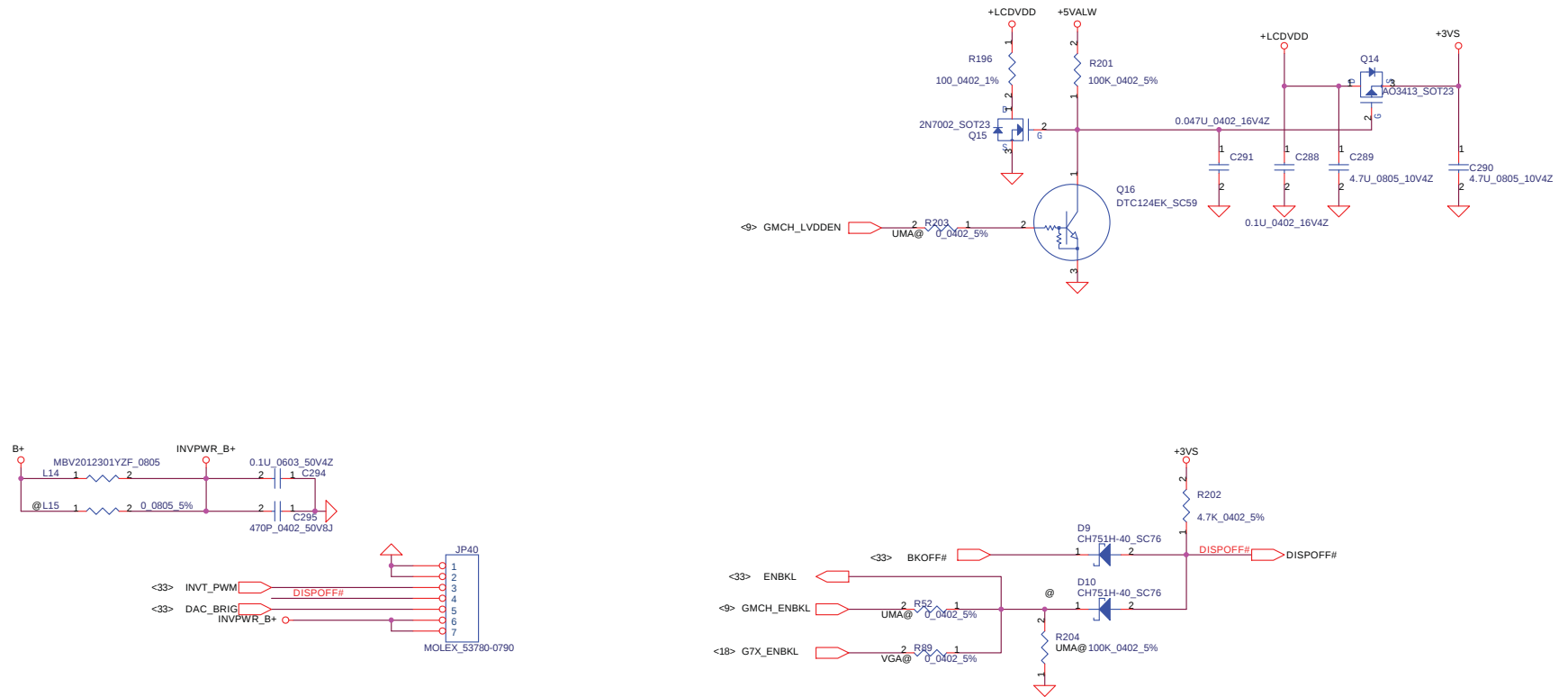


Layout Note:
Place one cap close to every 2 pullup resistors terminated to +0.9VS

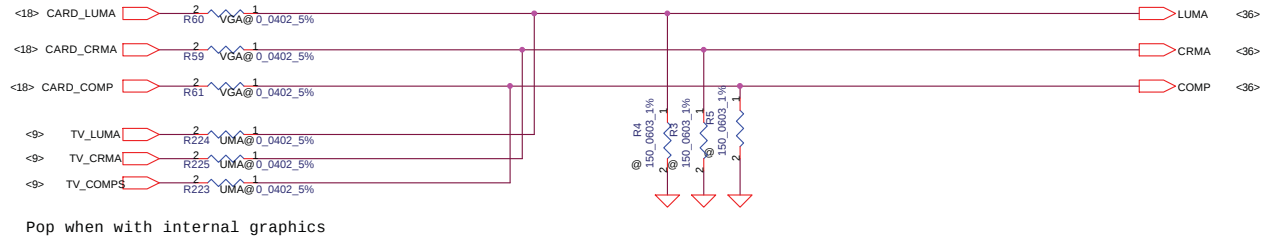


Layout Note:
Place these resistor closely JP42,all trace length Max=1.5"

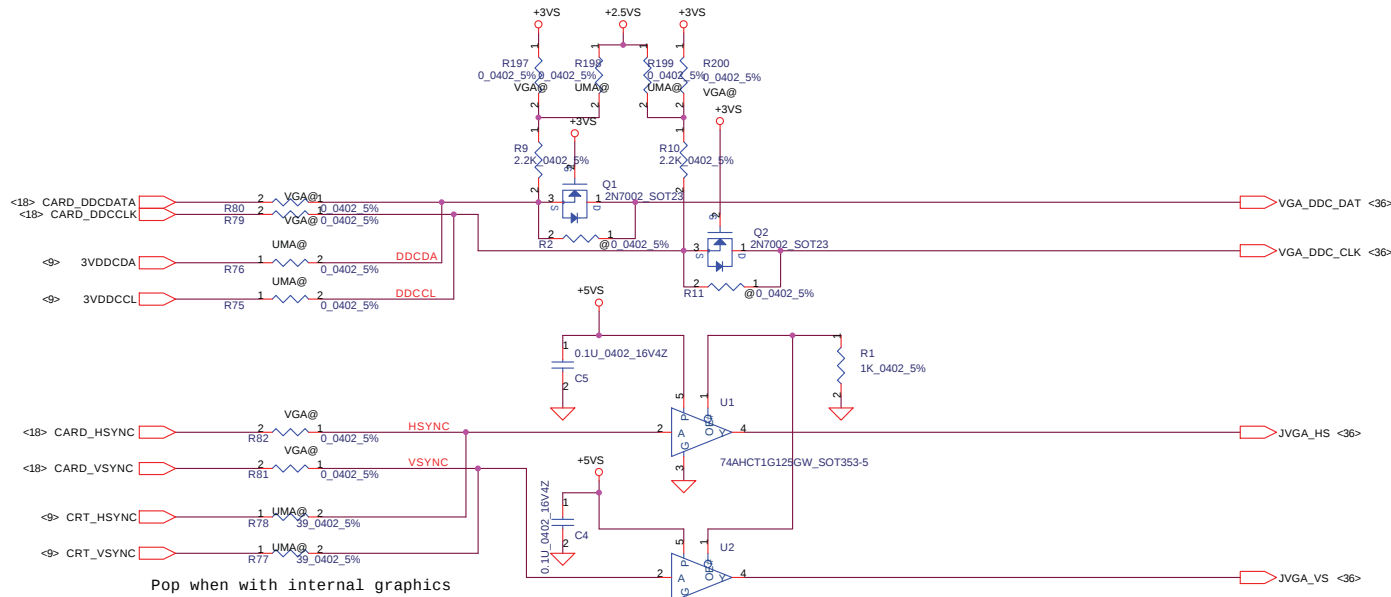
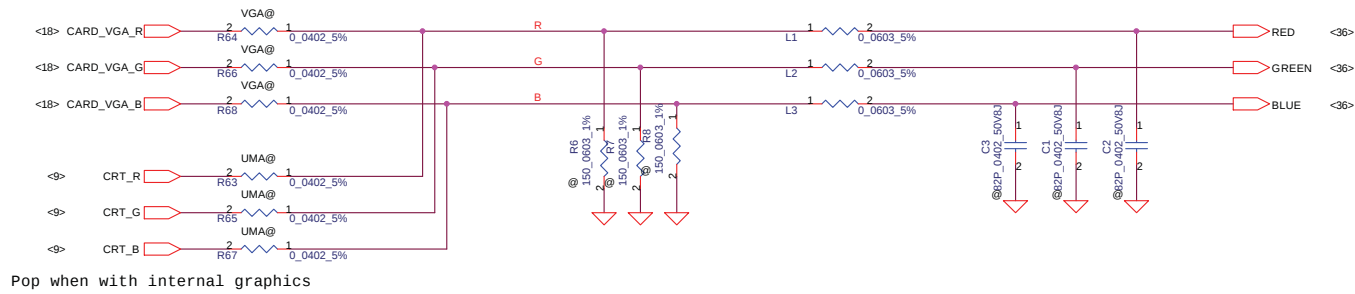




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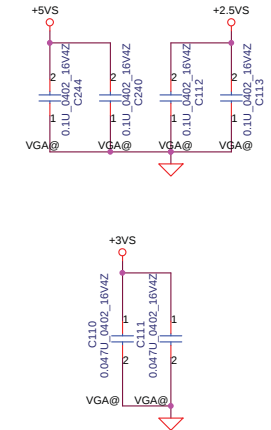
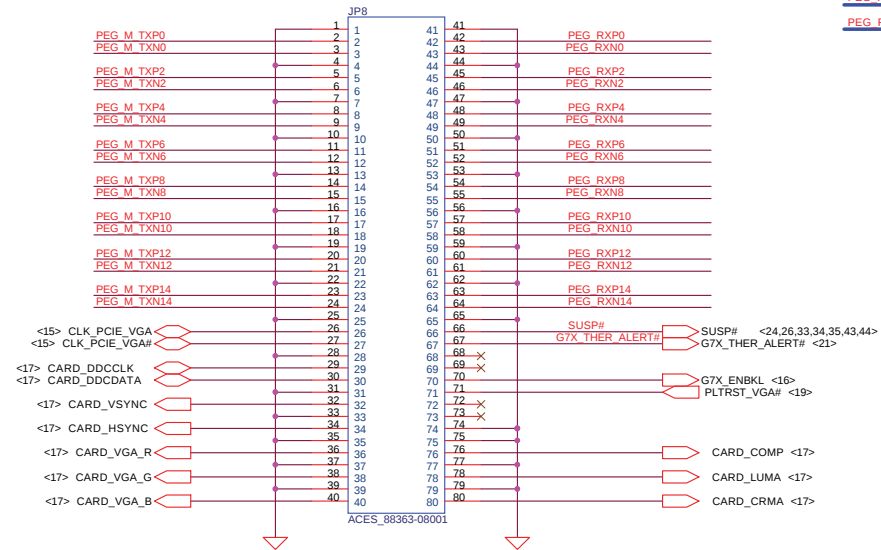
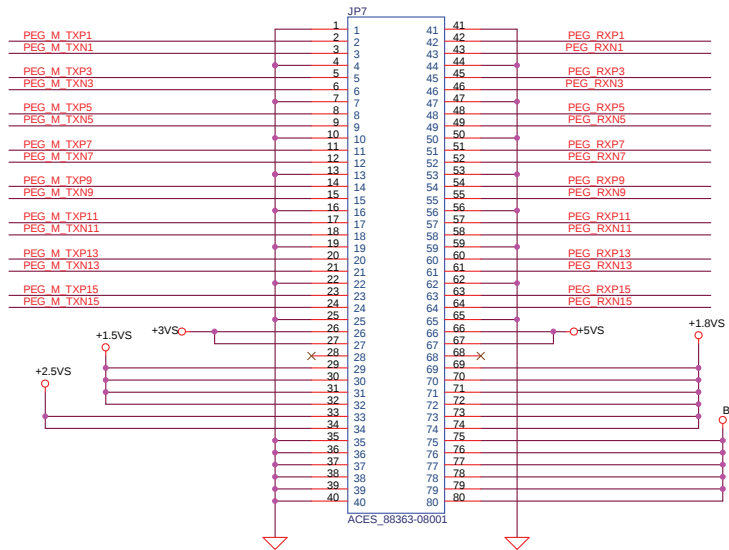


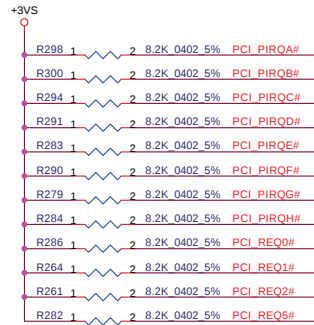
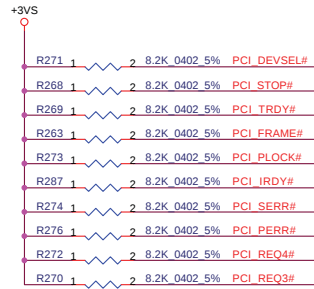
CRT Conn.



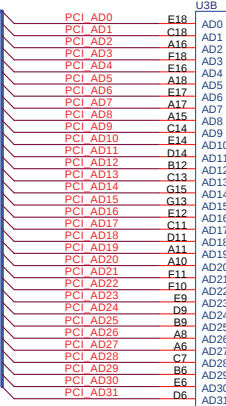
MAX. 655mA @ 3.3V

PEG_RXN[0..15] → PEG_RXN[0:15] <9>

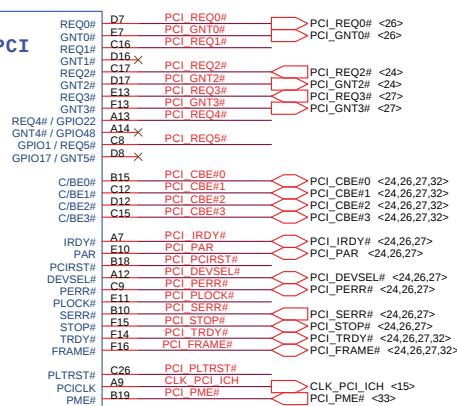




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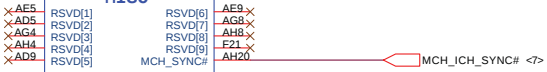
PCI



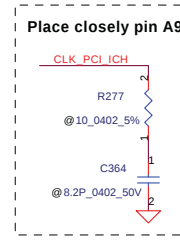
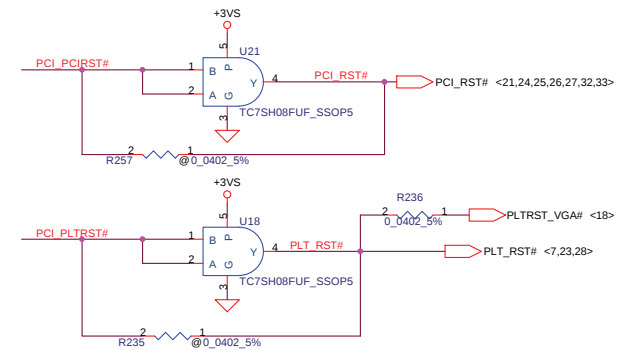
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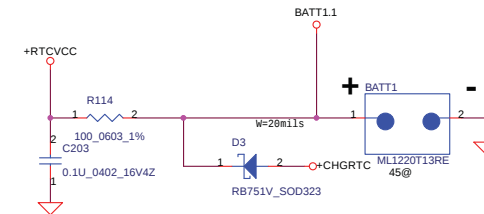
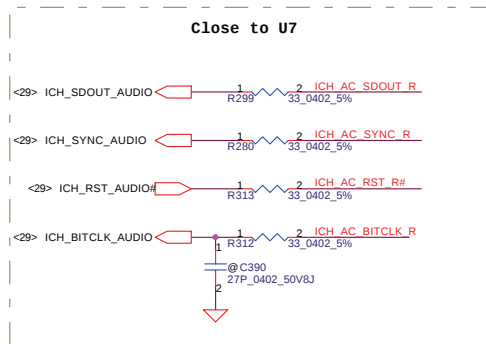
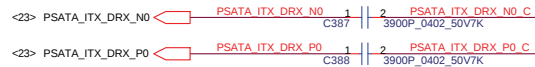
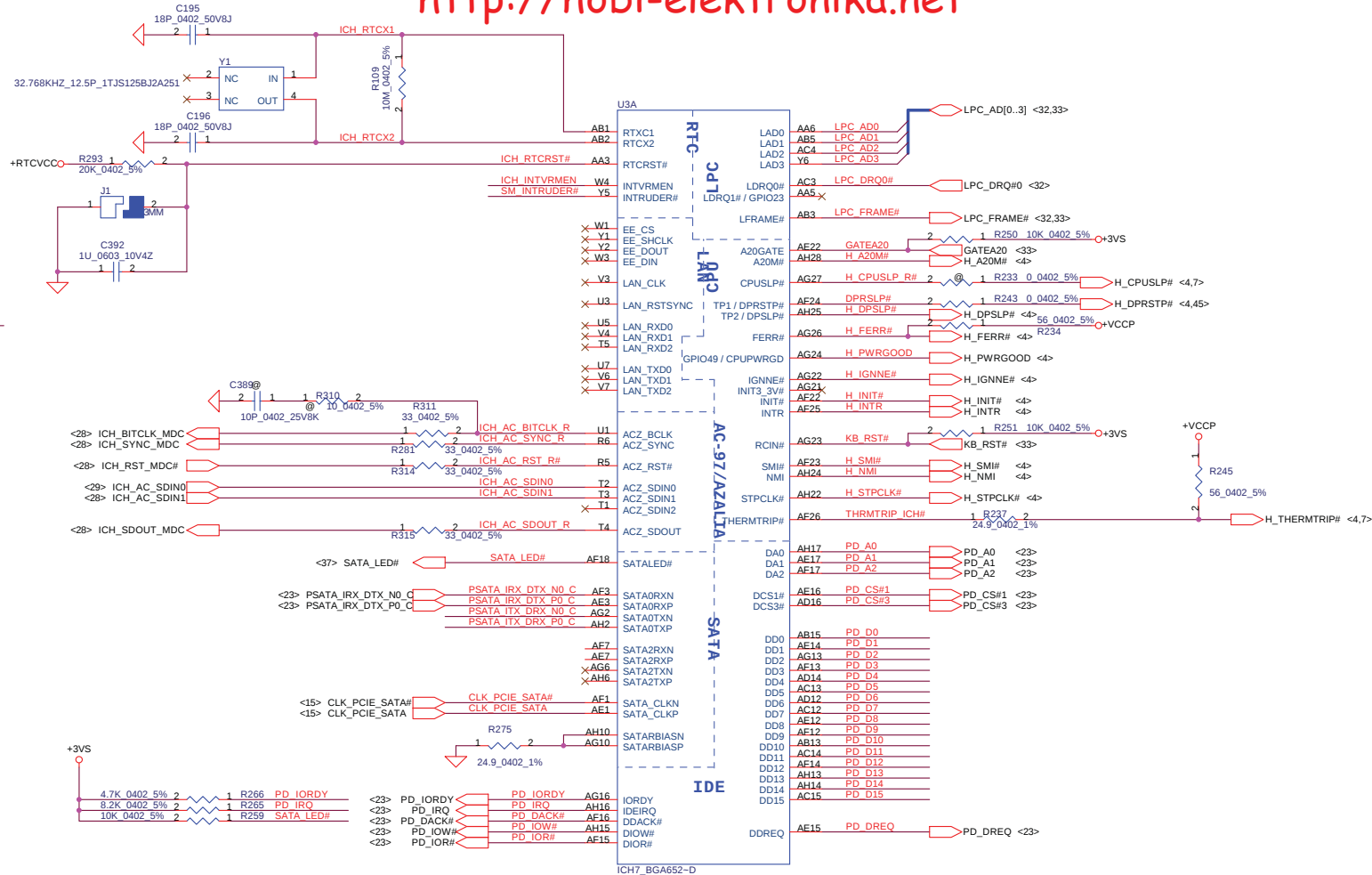
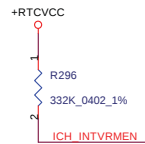


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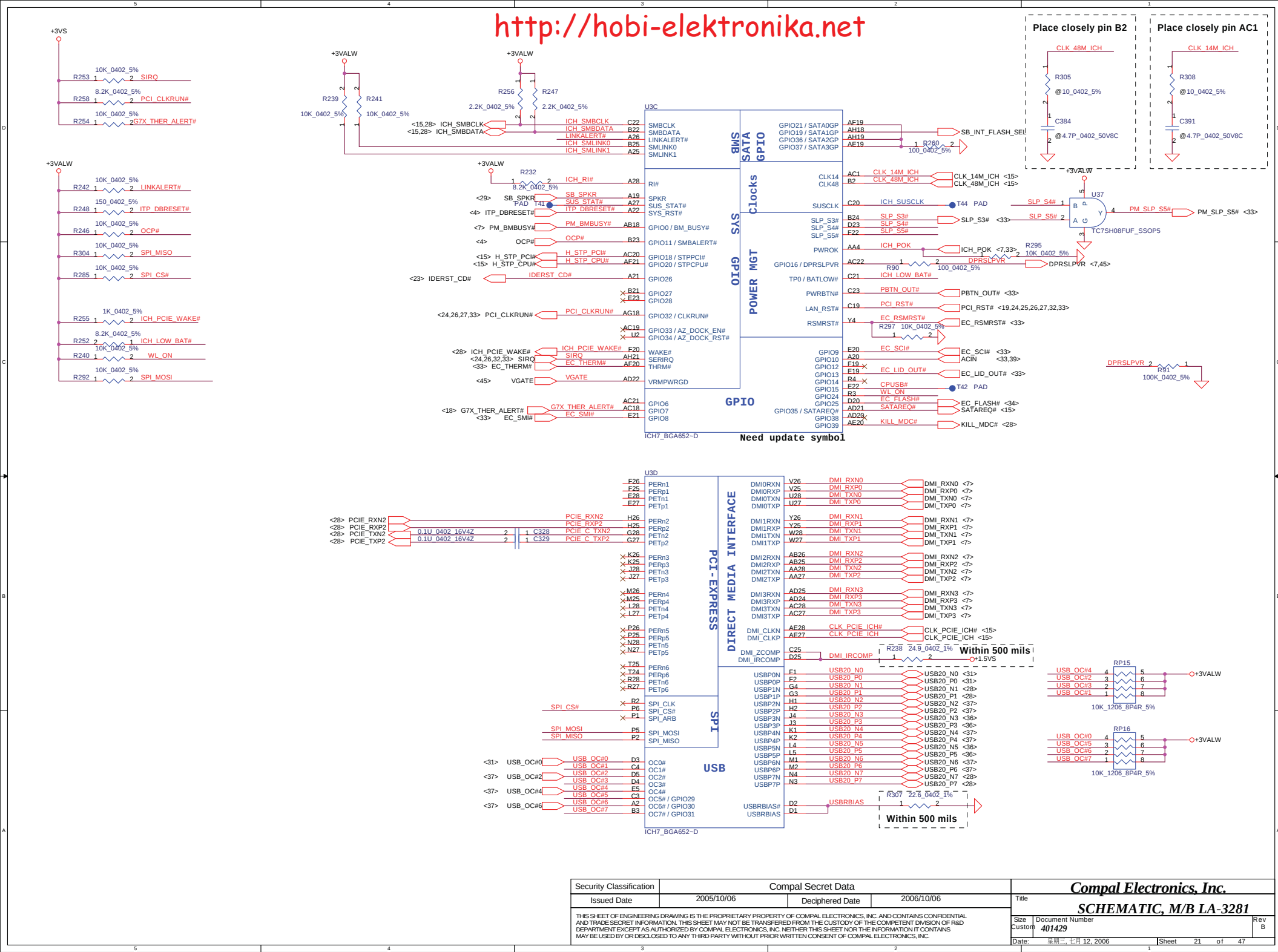


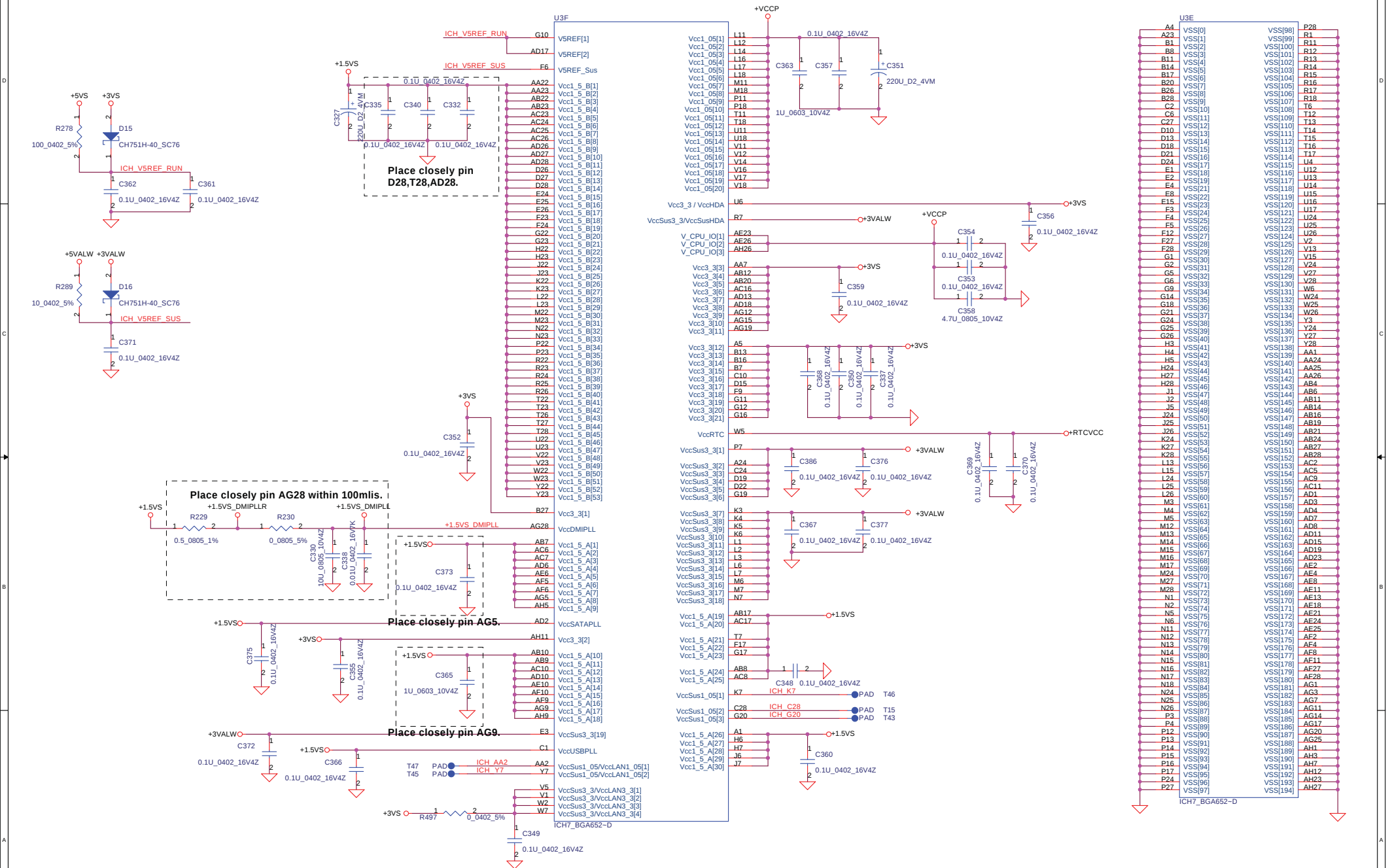
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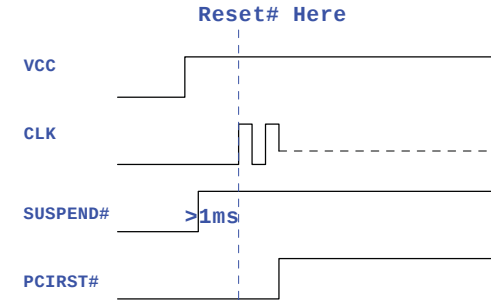


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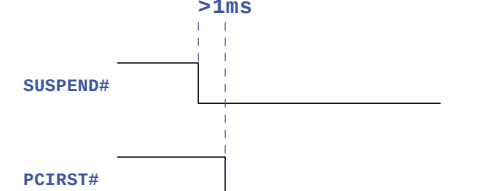




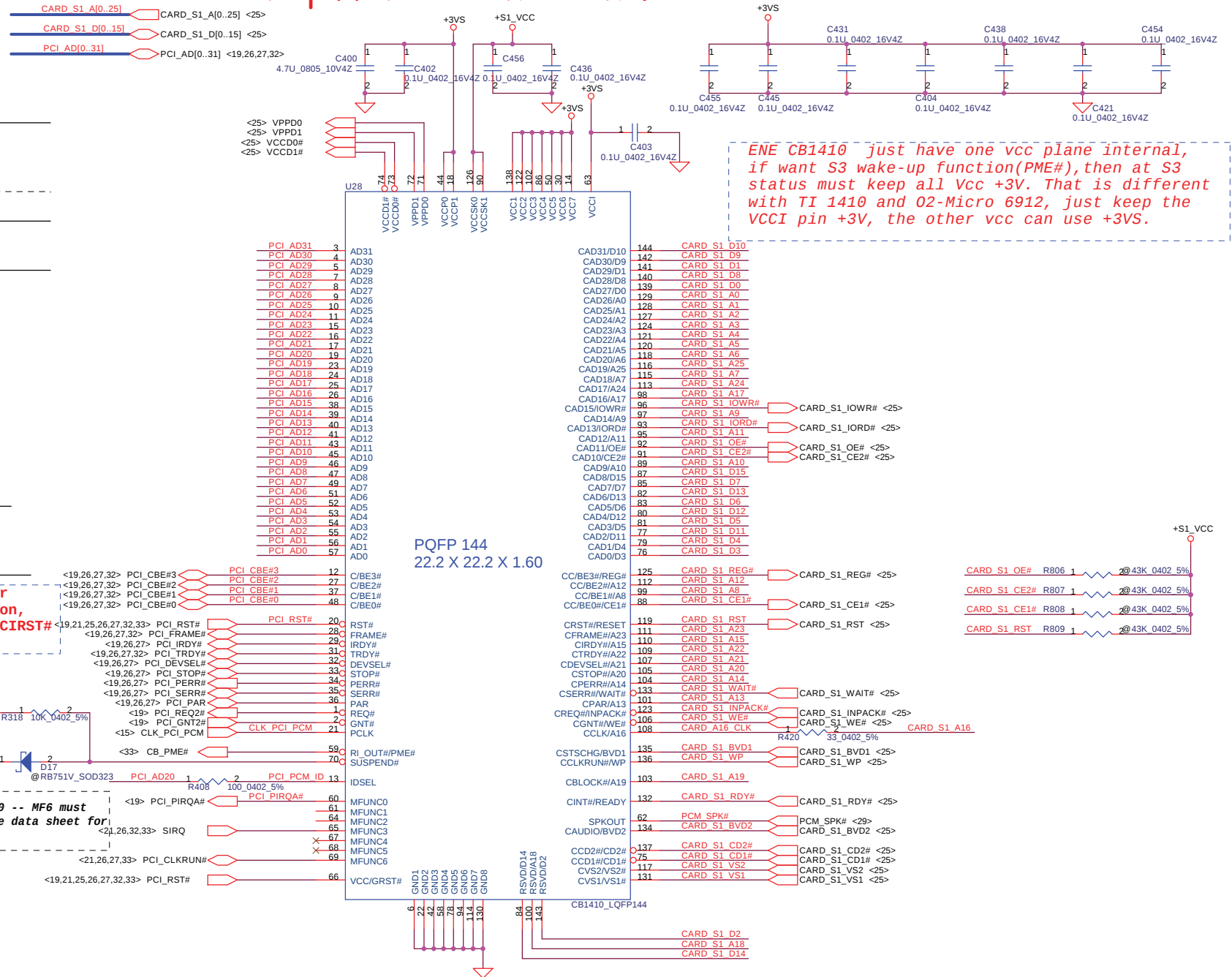
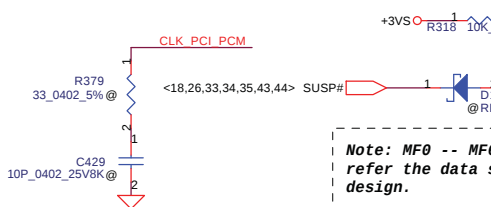
Power on RESET#



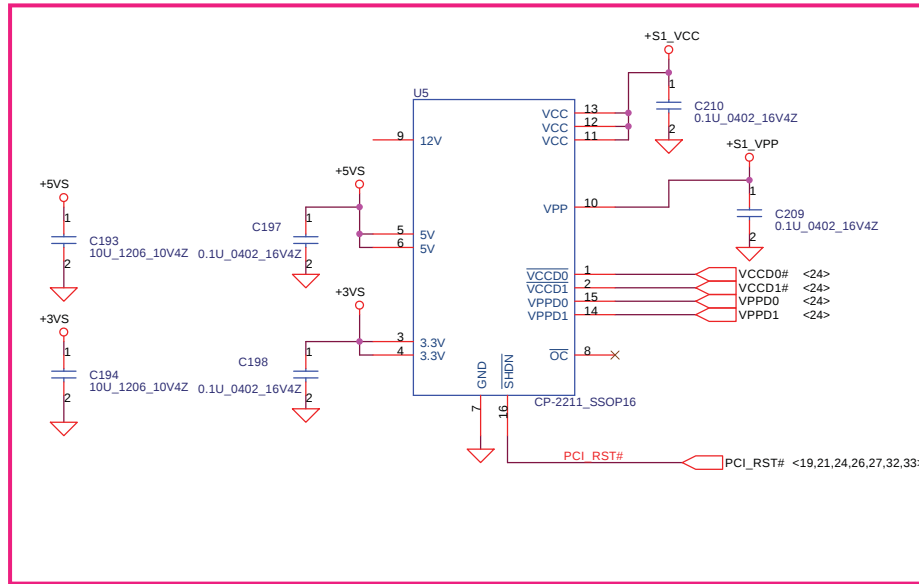
Entry S3



SUSPEND# will gate the PCIRST# or GRST#, so need S3 wake up function, SUSPEND# must be LOW ahead the PCIRST# about 1ms.

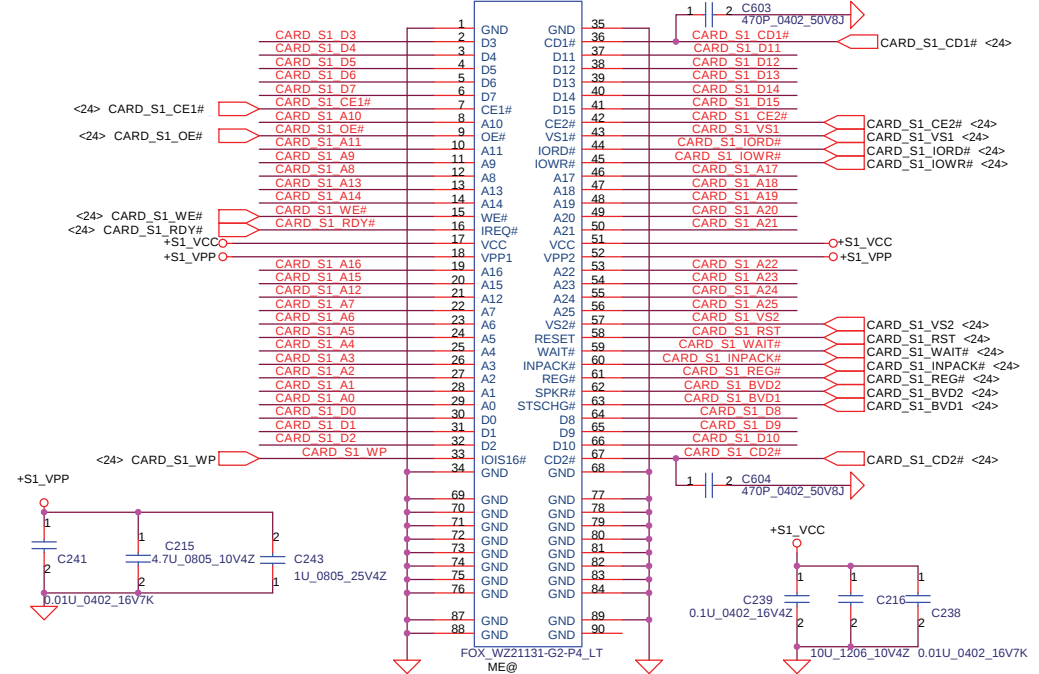


PCMCIA Power Controller

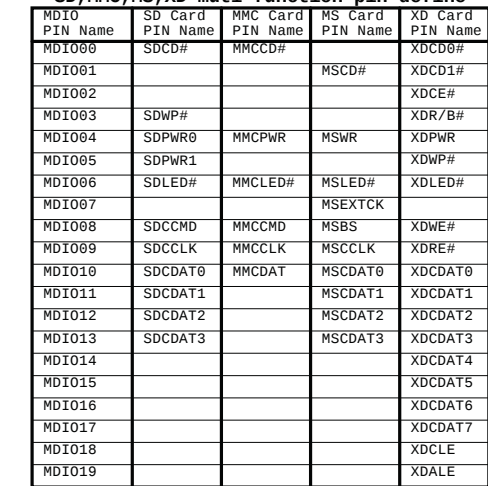


<24> CARD_S1_A[0..25]
<24> CARD_S1_D[0..15]

CARD S1 A[0..25]
CARD S1 D[0..15]

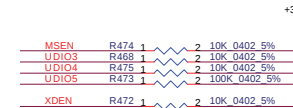


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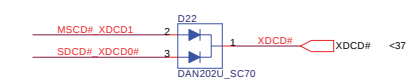
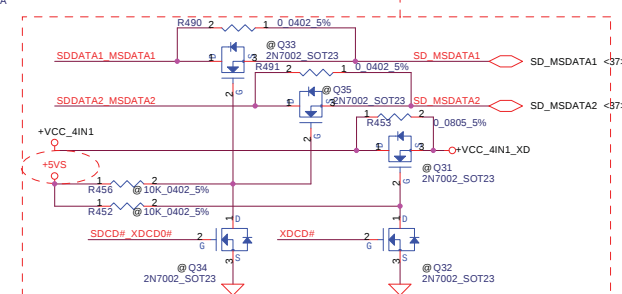


Function set pin define

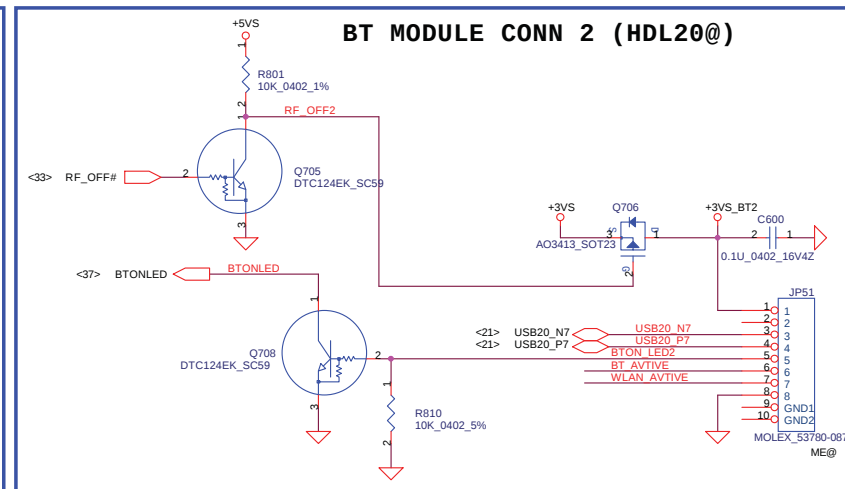
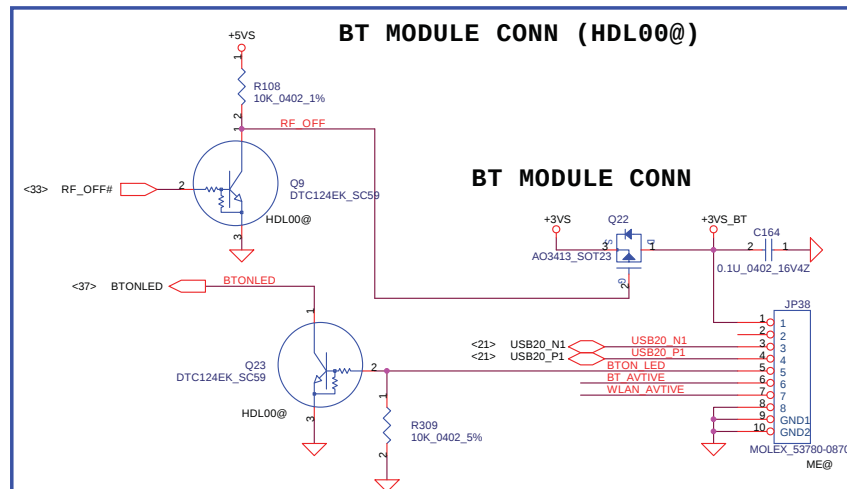
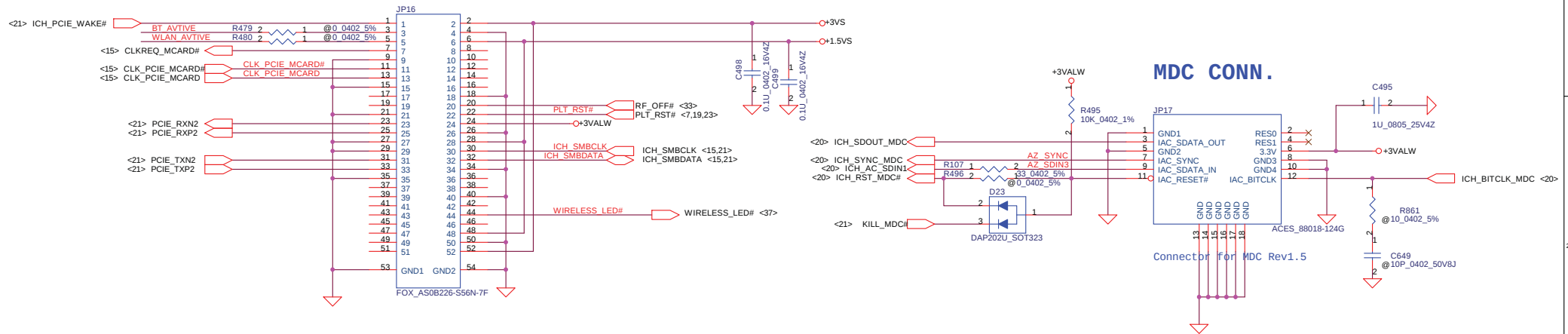
UD103	UD104	MSEN	XDEN	Function
Pull-up	Pull-up	Pull-up	Pull-up	Enable SD, XD, MS, MMC Card



Solve MS Duo Adaptor short problem



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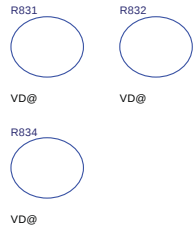
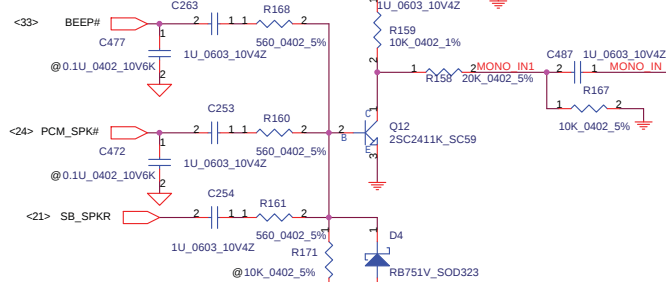
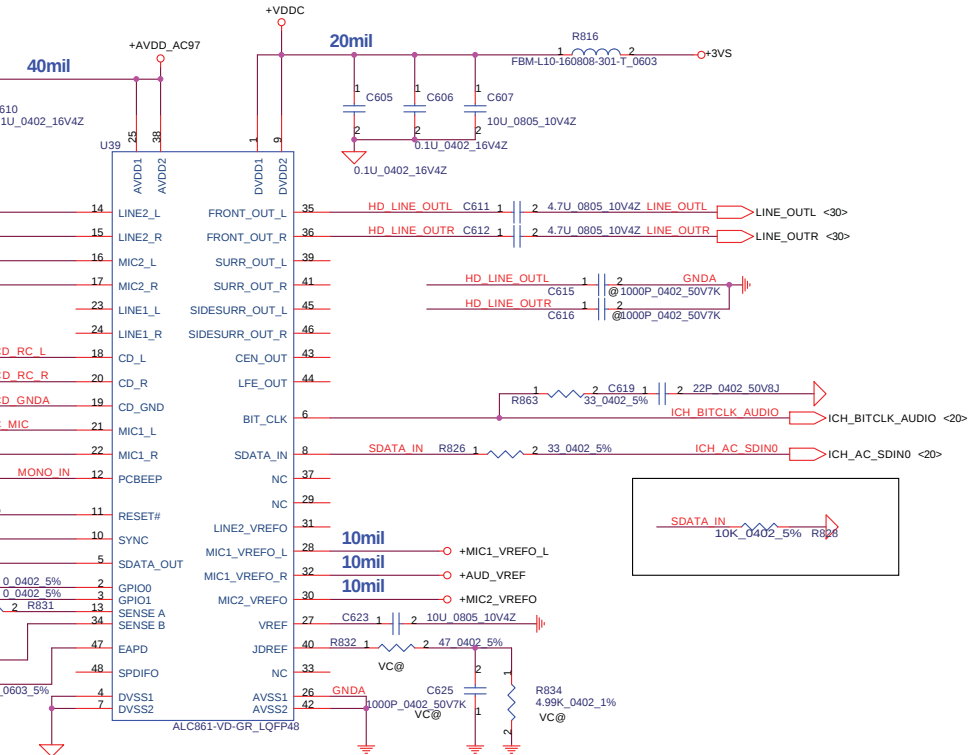
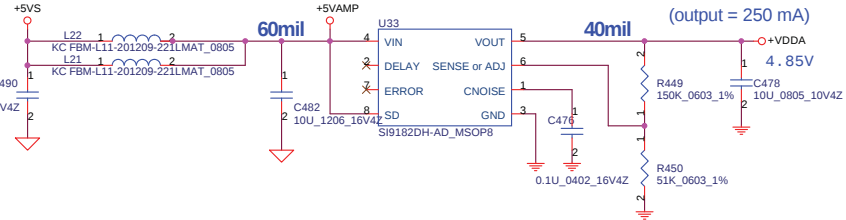


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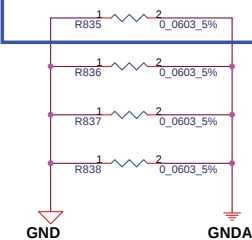
AC97 Codec

28.7K for Module Design (VDDA = 4.702)

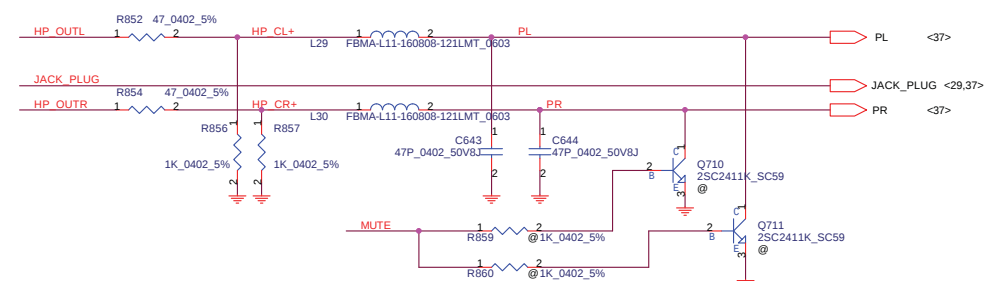
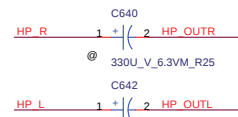
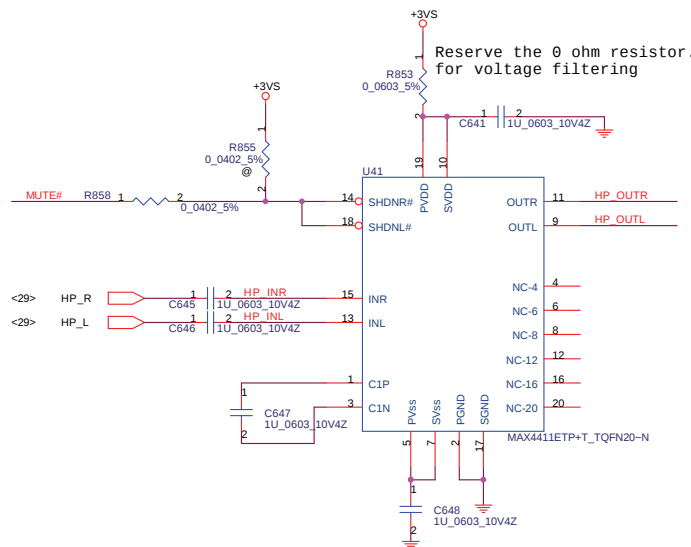
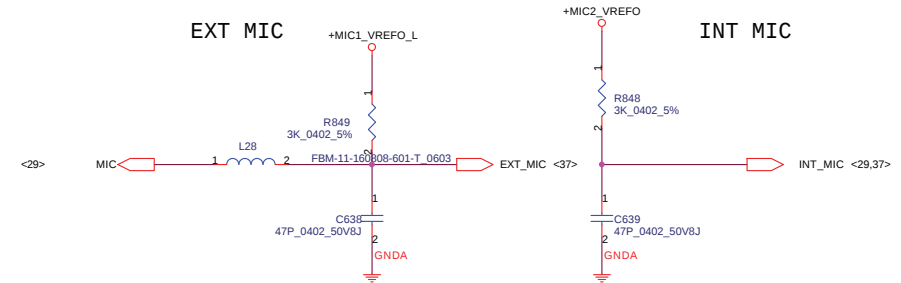
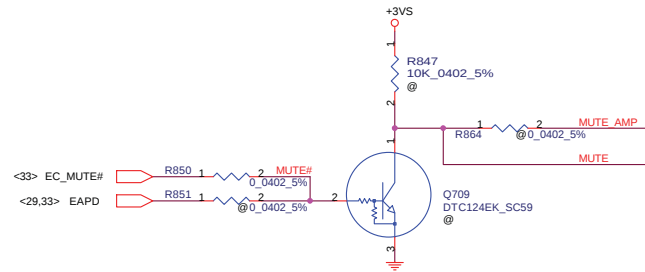
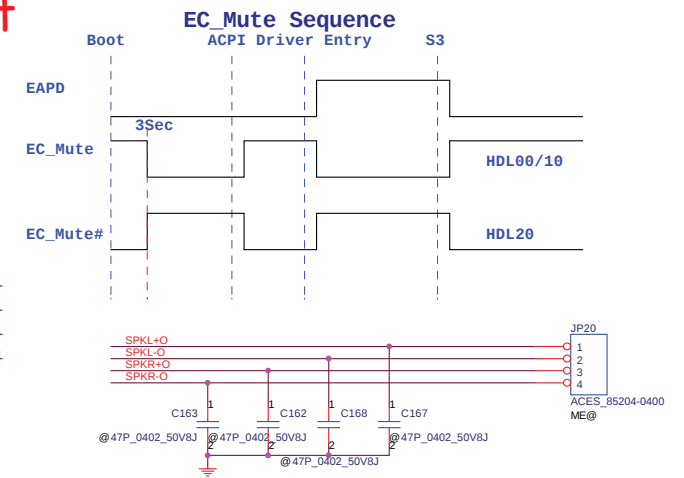
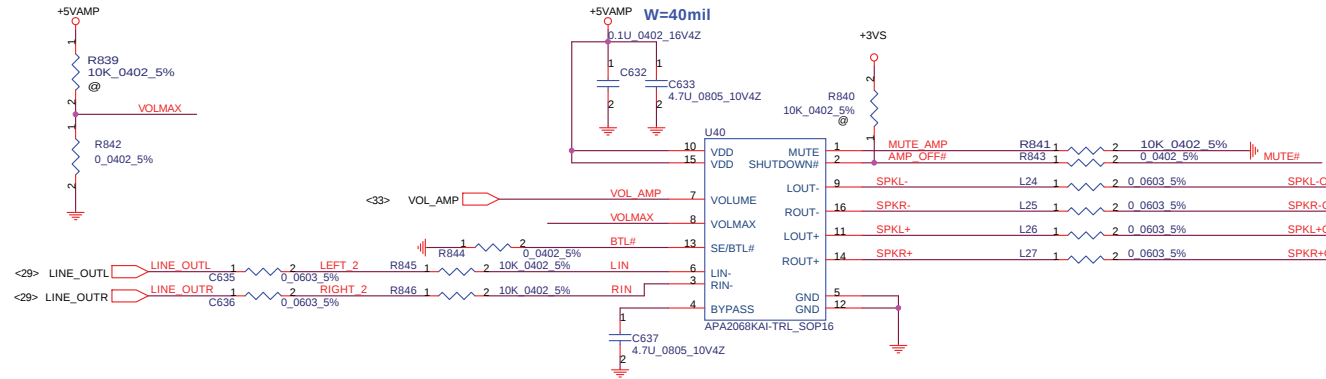
(output = 250 mA)



EMI request add one pcs 0216



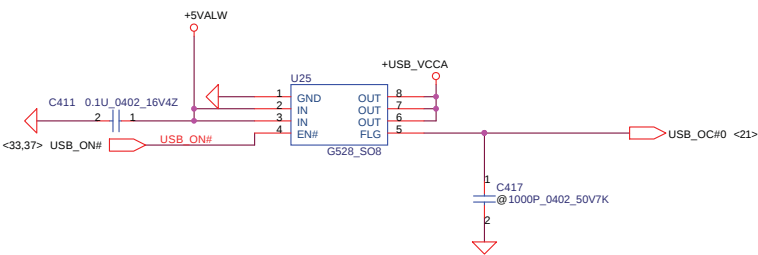
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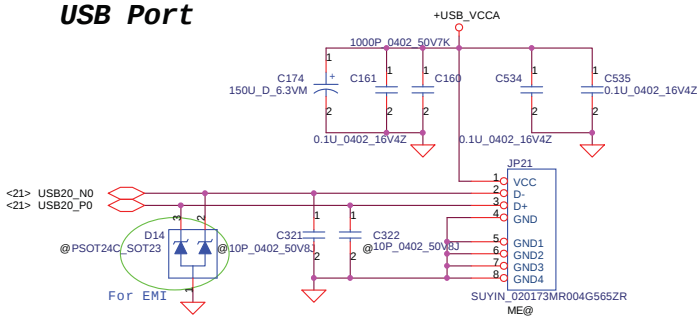
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SCHEMATIC, M/B LA-3281

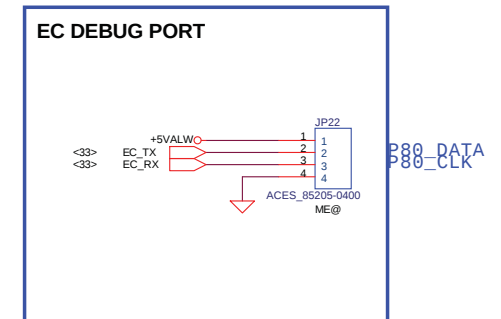
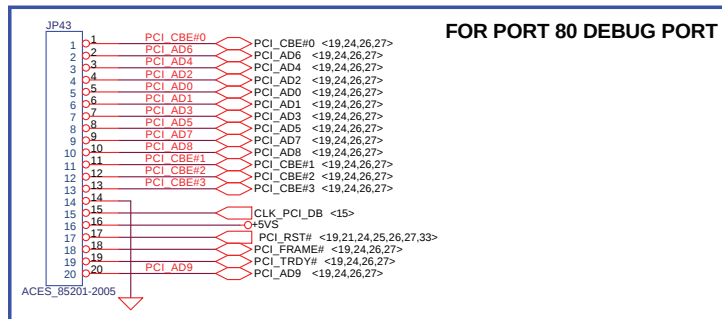
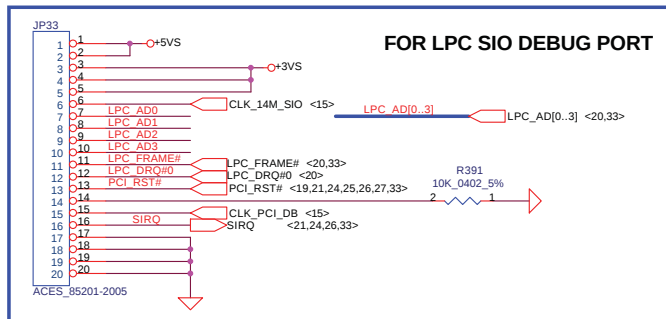
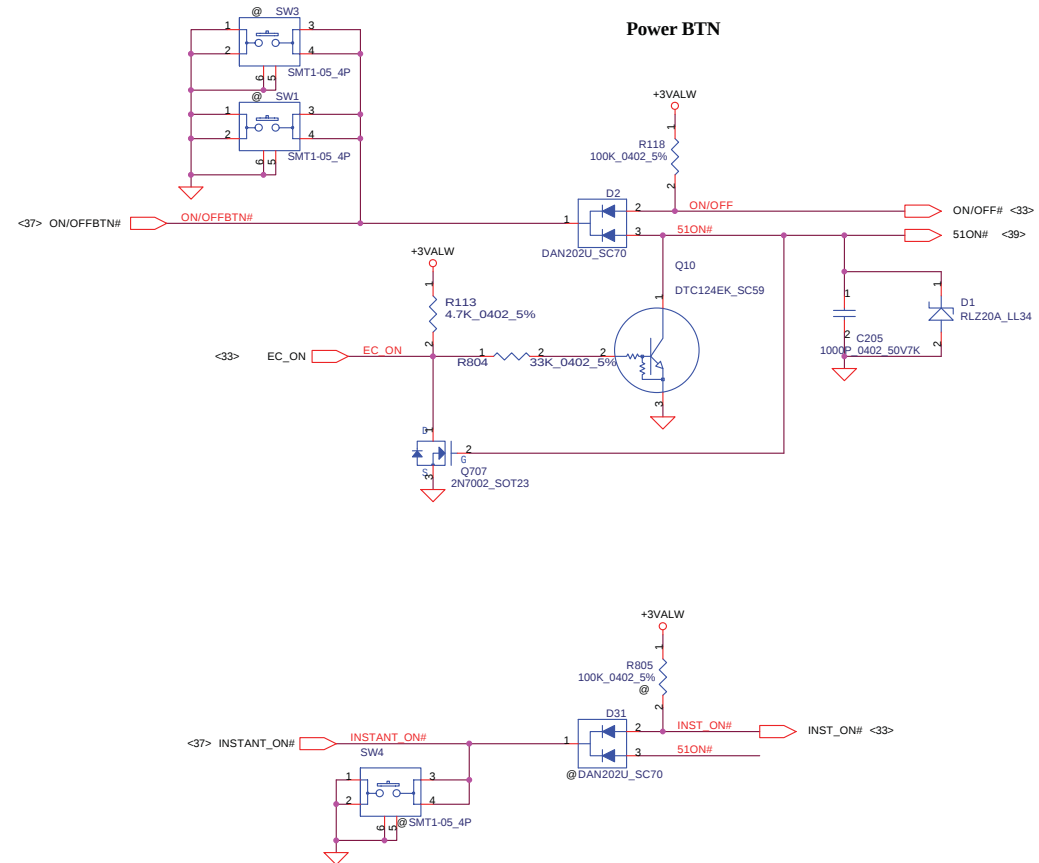
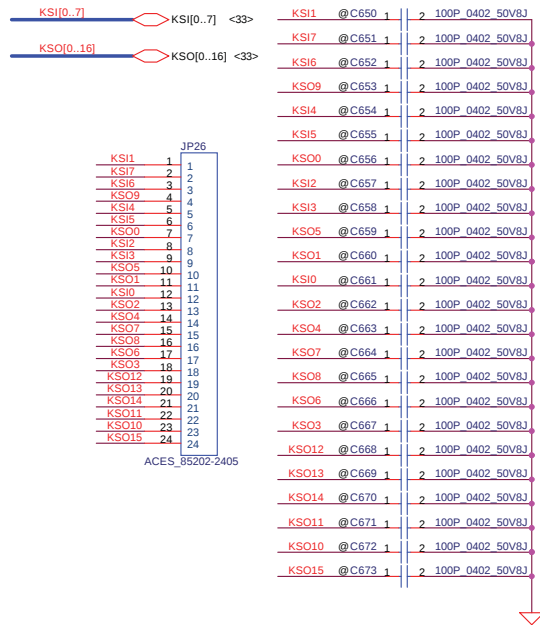


USB Port

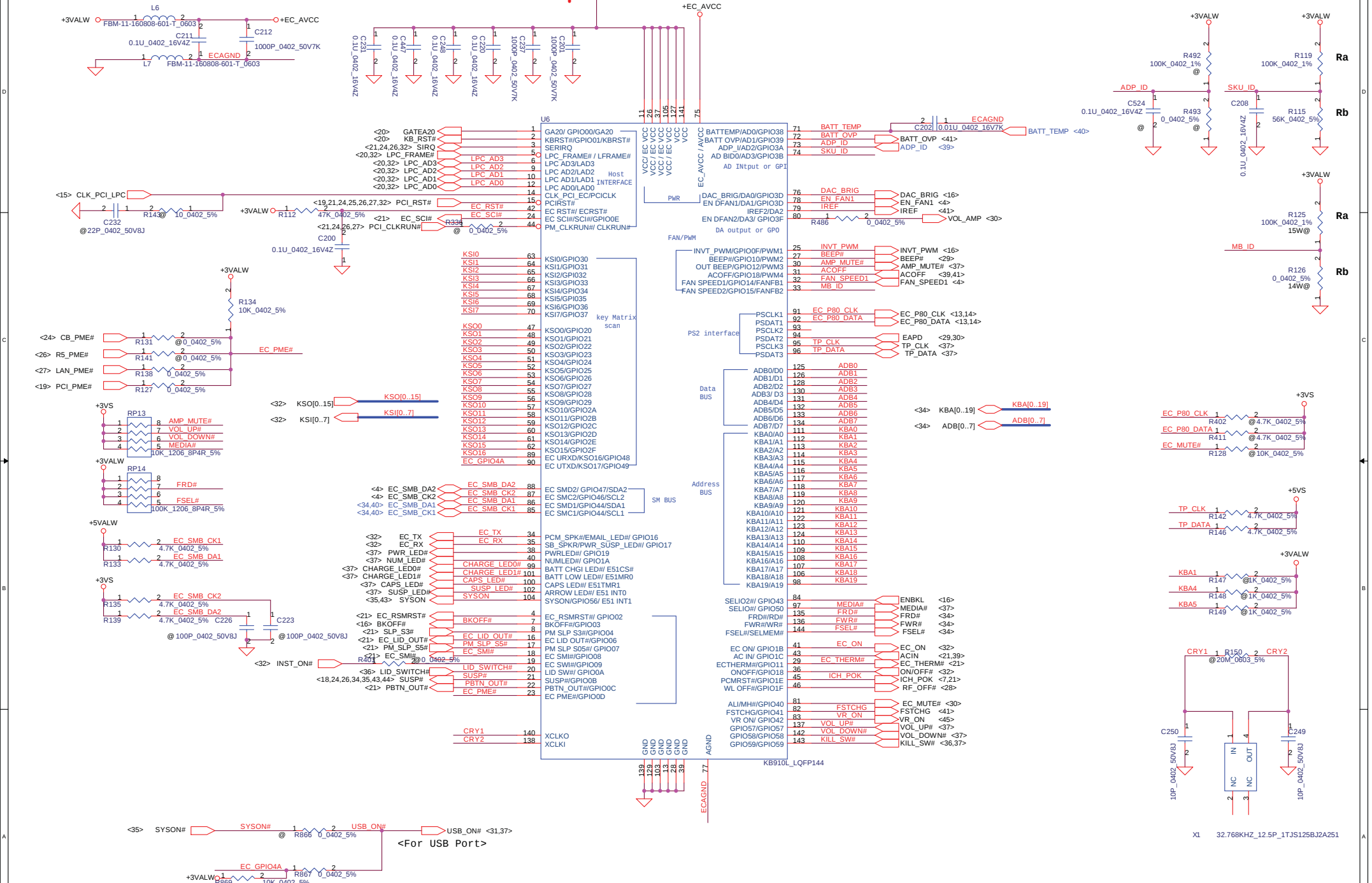


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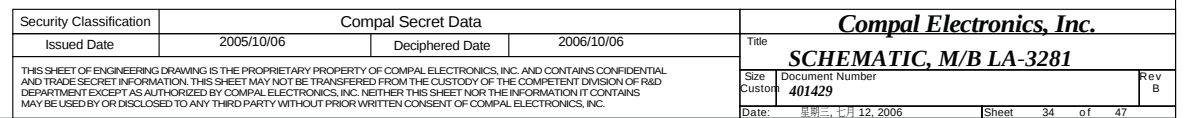
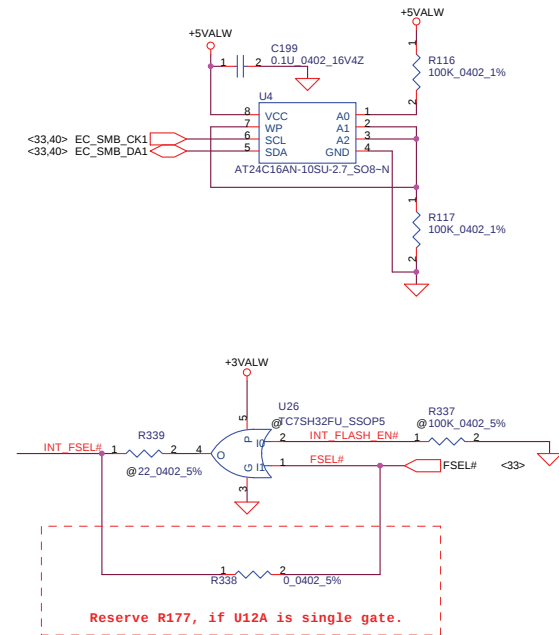
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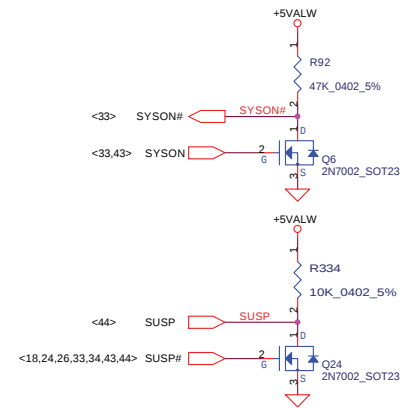
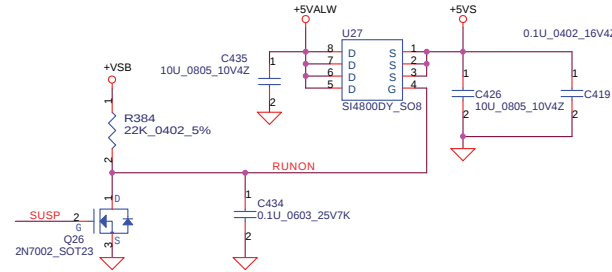
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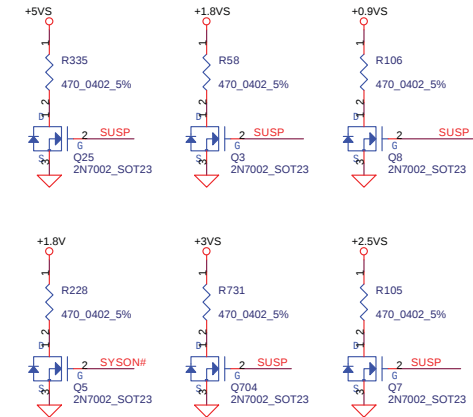
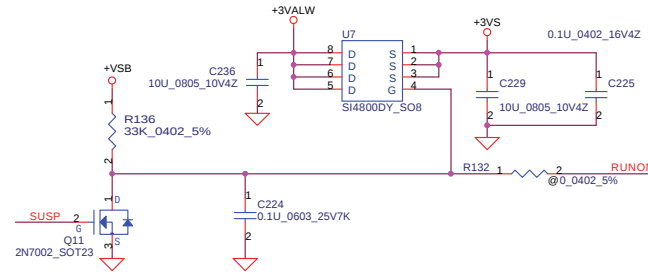
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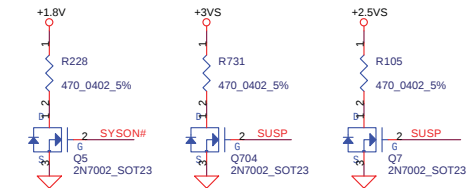
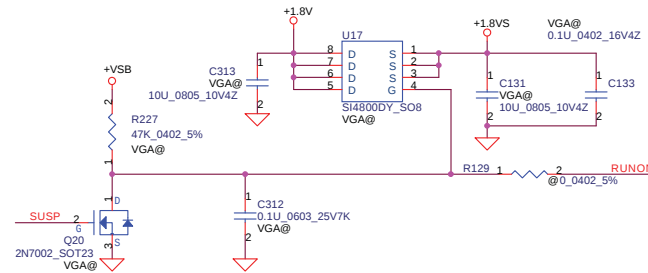
+5VALW to +5VS Transfer



+3VALW to +3VS Transfer

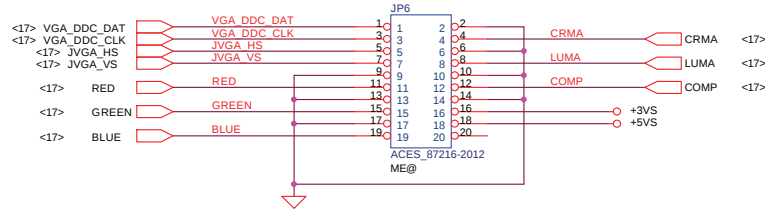


+1.8V to +1.8VS Transfer

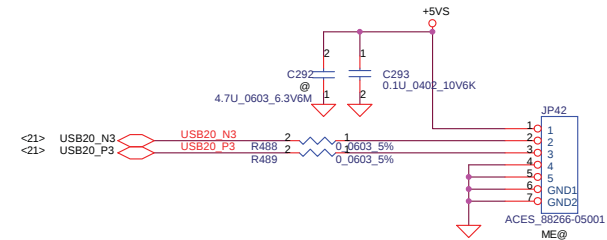


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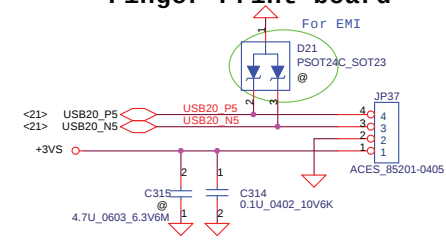
VGA I/O PORT Connector



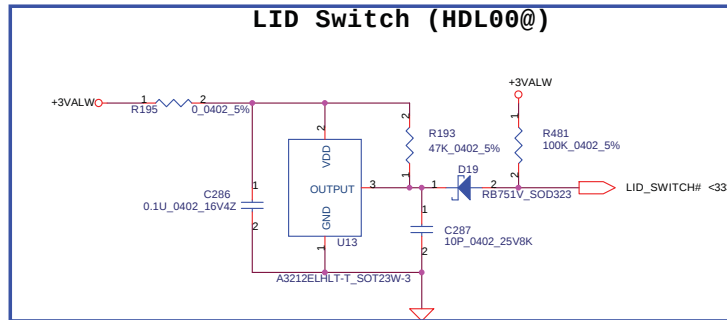
CMOS Camera Conn



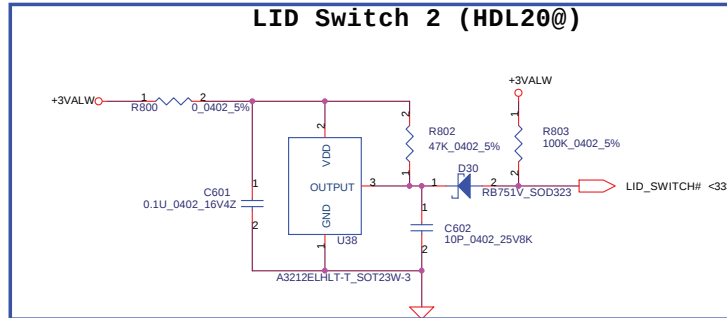
Finger Print board



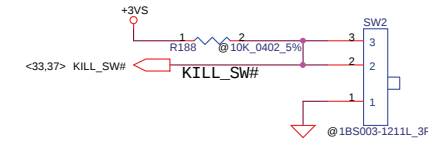
LID Switch (HDL00@)



LID Switch 2 (HDL20@)

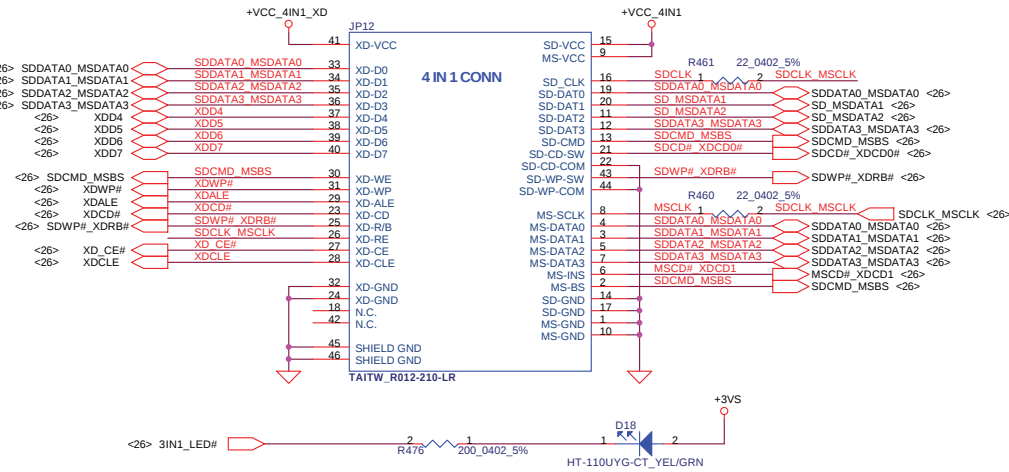


Kill Switch

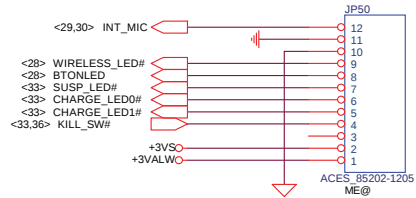


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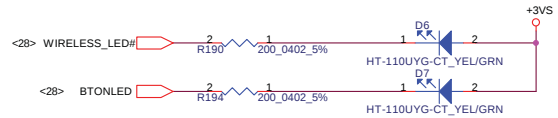
4 in 1 Card Reader



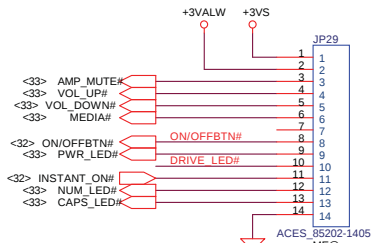
INST ON & LED



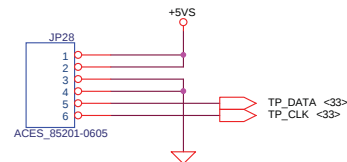
Front LEDs (HDL00@)



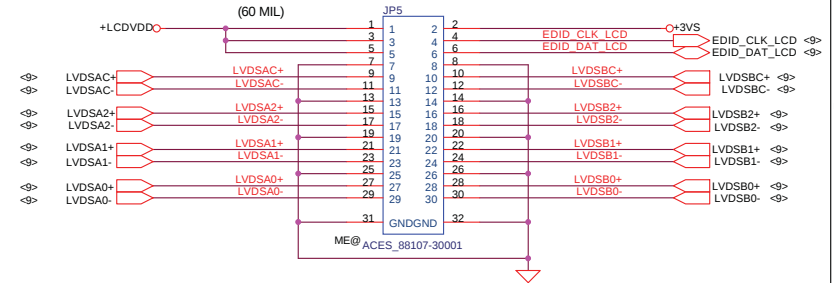
PWR ON/OFF SW & LED



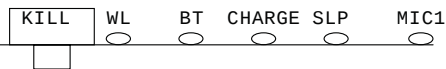
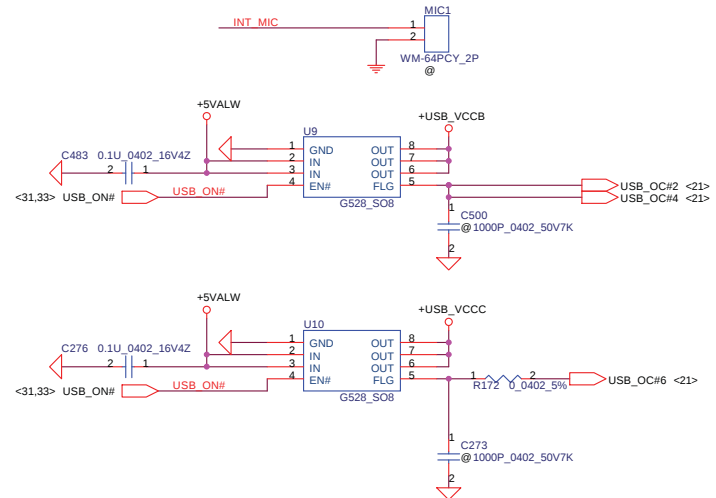
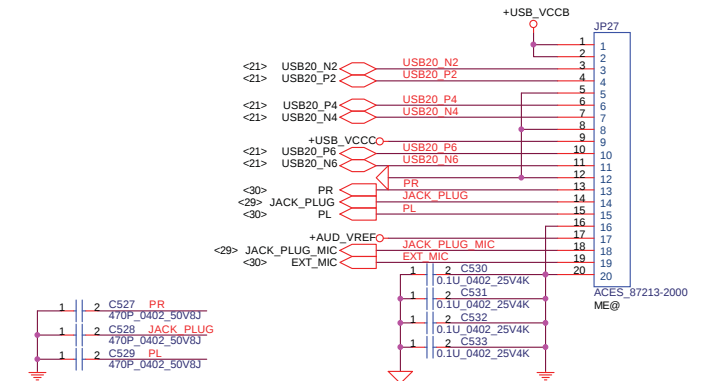
T/P Board



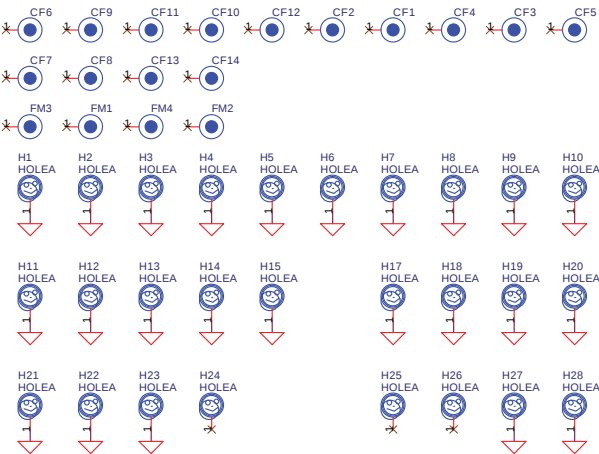
UMA LCD/PANEL Conn.



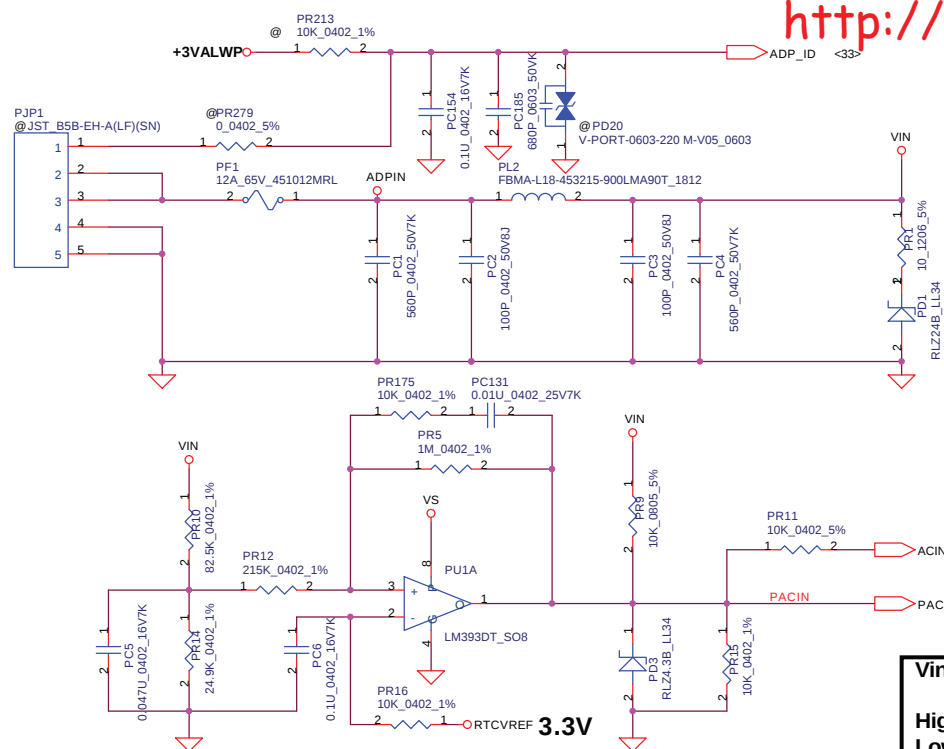
Audio Jack/USB Conn.



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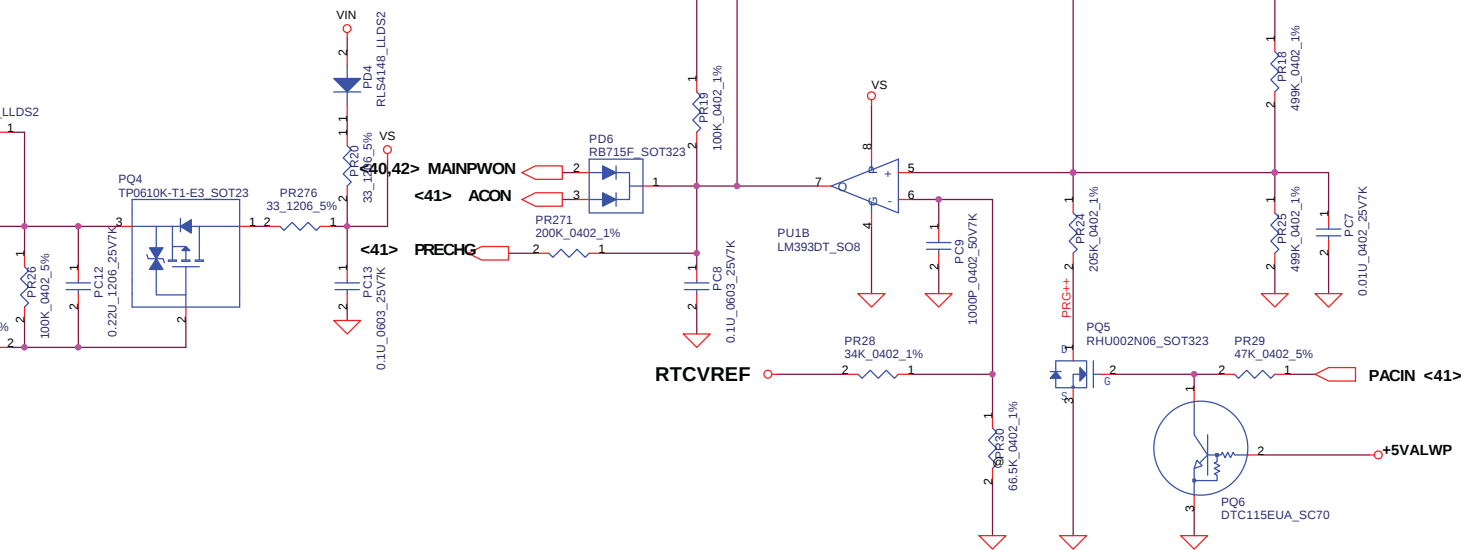
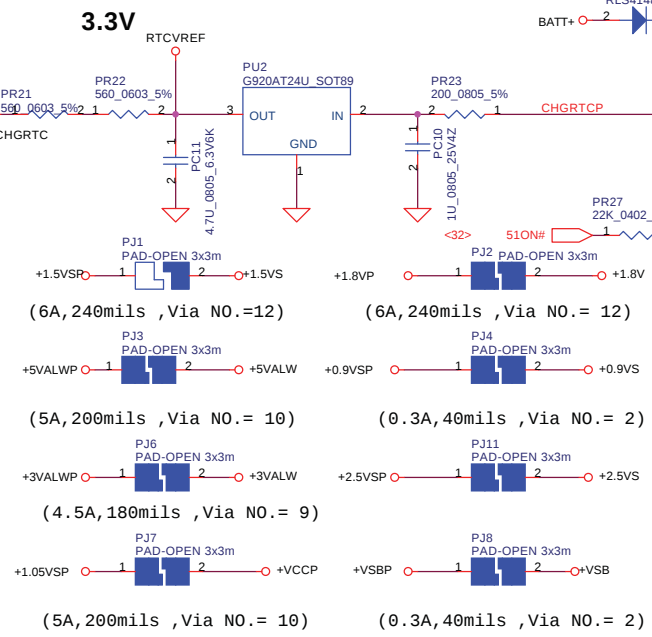
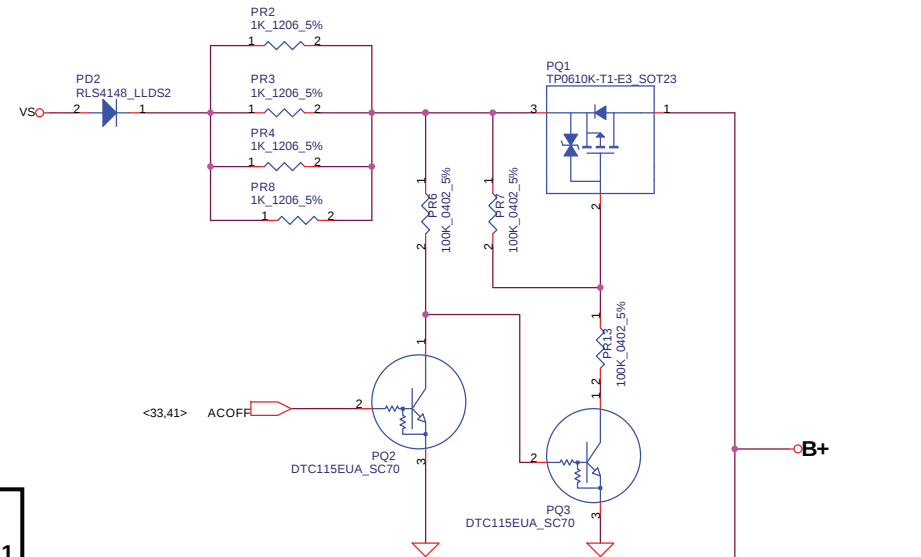
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Vin Detector			
High	18.135	17.5660	17.011
Low	14.866	14.355	14.063

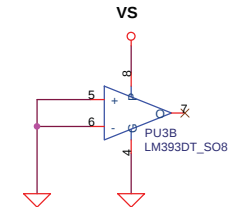
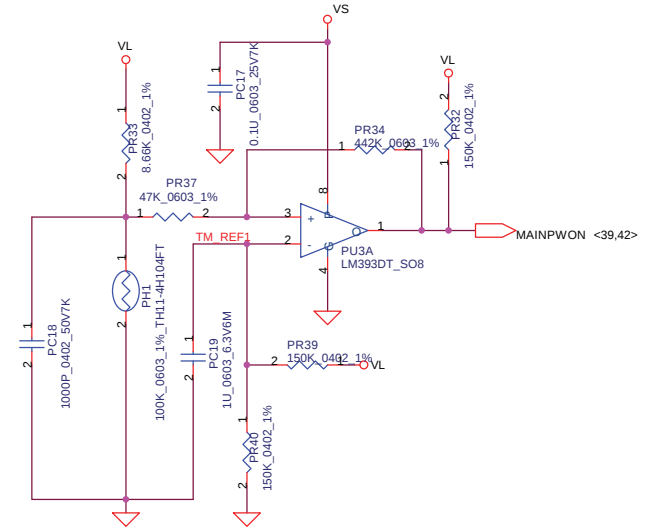
ACIN Precharge detector			
	Min.	typ.	Max.
H->L	13.843V	14.247V	14.636V
L->H	14.936V	15.381V	15.814V

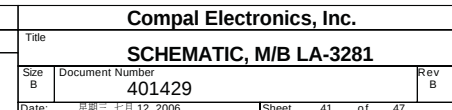
BATT ONLY Precharge detector			
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H->L	6.138V	6.214V	6.359V
L->H	7.196V	7.349V	7.505V

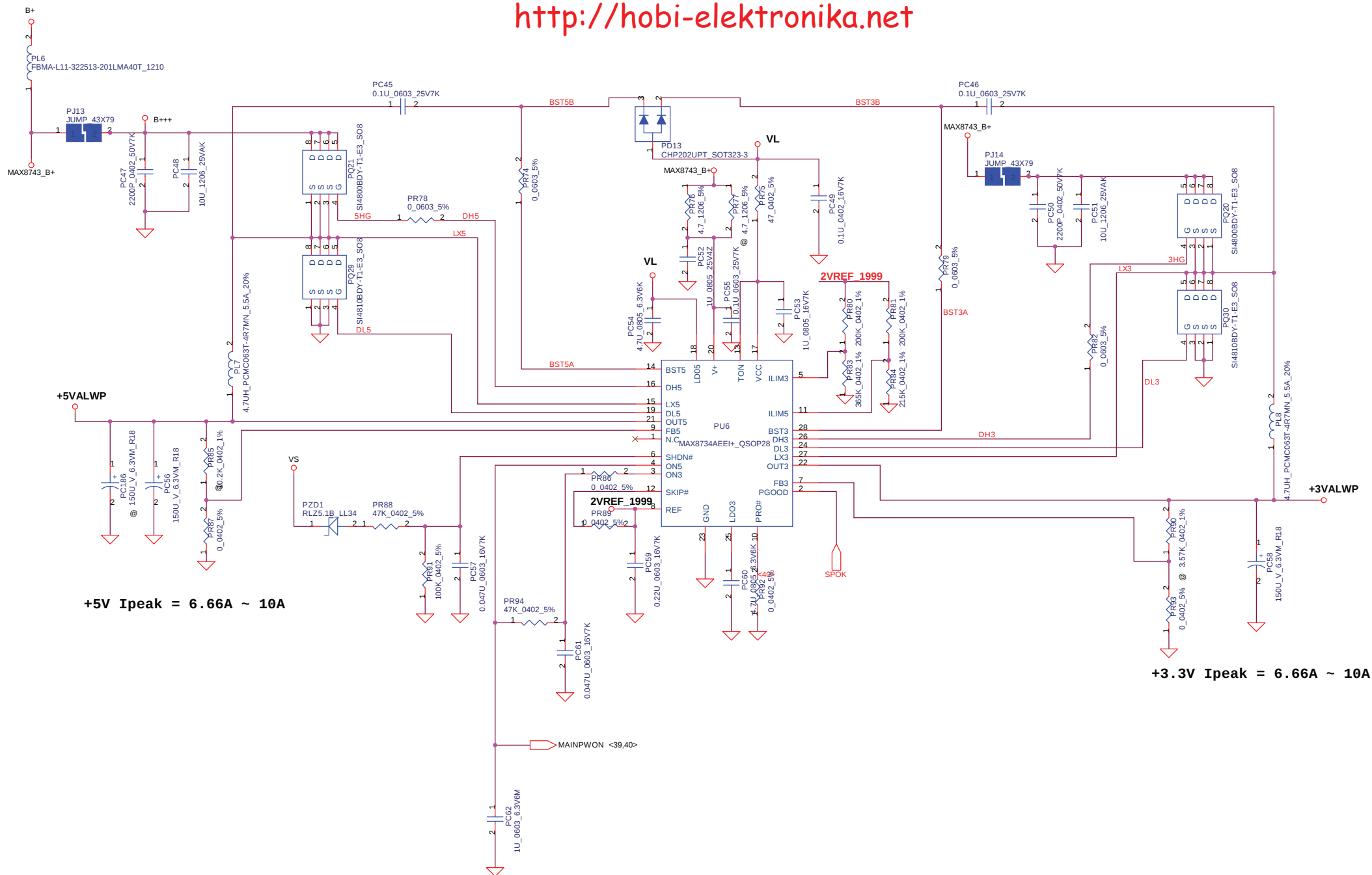


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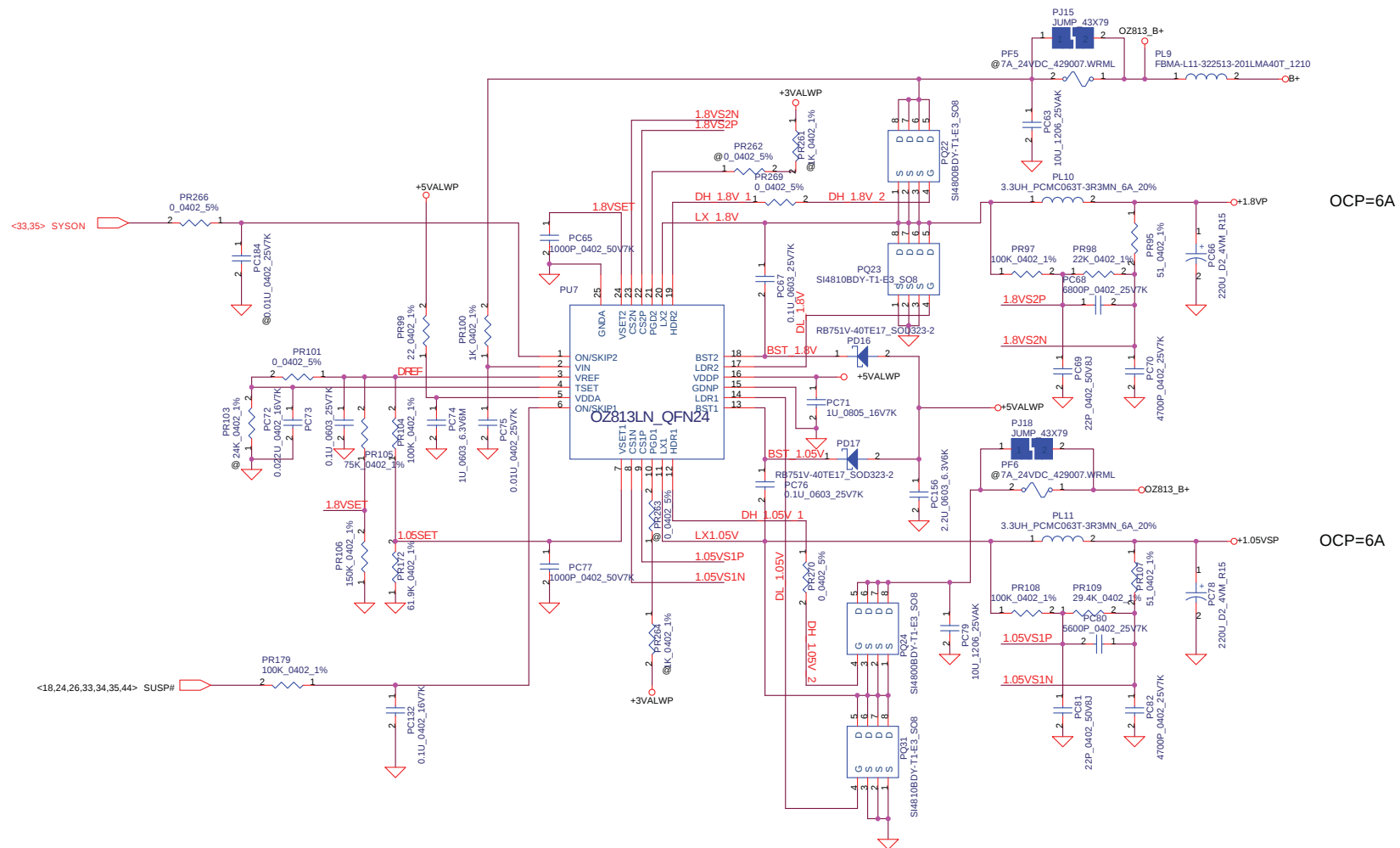


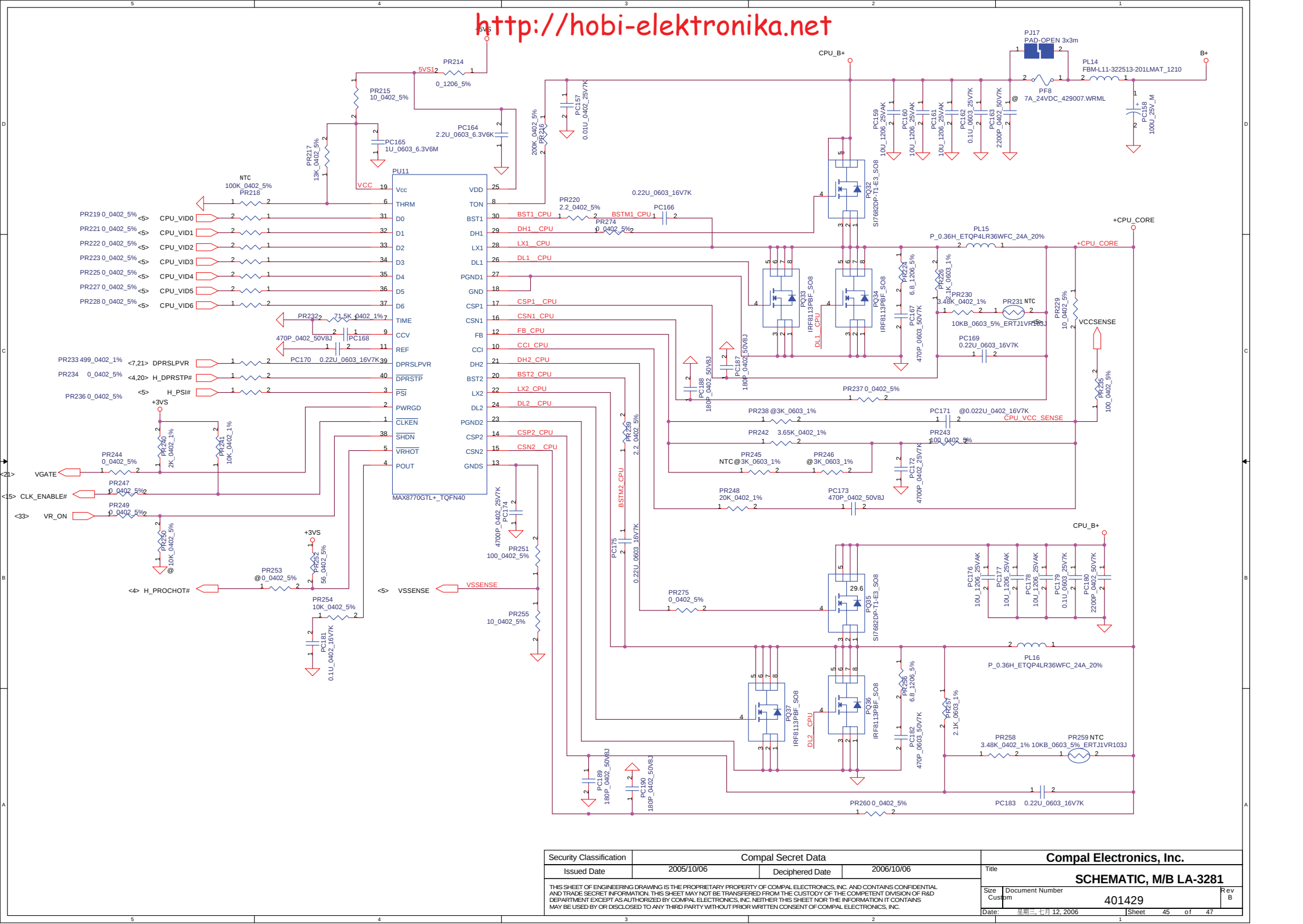


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Item	Fixed Issue/Reason for change	Rev.	PG#	Modify List	B.Ver#	Phase
A Test						
1	Copy schematic from HDL00					
2	Add 2nd BT connector	0.1	28	Add JP51, C60, Q706, Q705, Q708, R801, R810		
3	Add 2nd LID switch	0.1	36	Add U38, D30, R800, R802, R803, C601, C602		
4	Remove Front LEDs from MB	0.1	37	Del D6, D7, D8, D5, R190, R194, R191, R192, R189		
B Test						
5	Change audio solution from AD1986A to ALC861	0.2	29/30			
6	Add Front LEDs to MB(Reverse HDL00 Design)	0.2	37	Add D6, D7, D8, D5, R190, R194, R191, R192, R189		
C Test						
7	Sloving ICS pin 50, 51 no clock issue	0.3	15	Add R865 to U29.8 and grounded		
8	wake up on USB when AC-IN.	0.3	31, 33, 37	1. Add R866, R867 2. change EC pin 90 from KS017 to EC_GPI04A 3. connect R866, R867 pin2 together, and net name is USB_ON#. 4. change syson# to USB_ON#, and control U9, U10 and U25.		
9	EMI solution	0.3	16	1. change L14 from 0 ohm to bead 300 ohm 2. change C295 from 0.8pF to 470pF		
10						
11						
12						
13						
14						

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