

PM : 紀明進 Sunyu Jih
 EE Laerer : 劉鳴豹 Selmon Liu
 ME Leader : 林哲敏 Mill Lin

PCI ROUTING TABLE	IDSEL	INTERUPT	DEVICE
REQ0# / GNT0#	AD24	INTA#	BROADCOM LAN
REQ2# / GNT2#	AD19	INTB# , INTD#	MINI-PCI
REQ1# / GNT1#	AD17	INTC# , INTD# , INTA#	TI 7411

BOM MARK
 ED@ INT. VGA WITH DOCK
 ID@ INT. VGA WITH DOCK
 ND@ W/O DOCKING要打
 E@ EXT VGA 要打
 I@ INTVGA 要打
 SA@ SATA 要打
 F@ FIXED ODD要打
 SW@ SWAPPABLE ODD 要打
 3@ 3in1 n打
 N@ NEW CARD 要打
 4@ 4401 n打
 5@ 5705M 要打
 D@ DOCKING 要打

REV. E

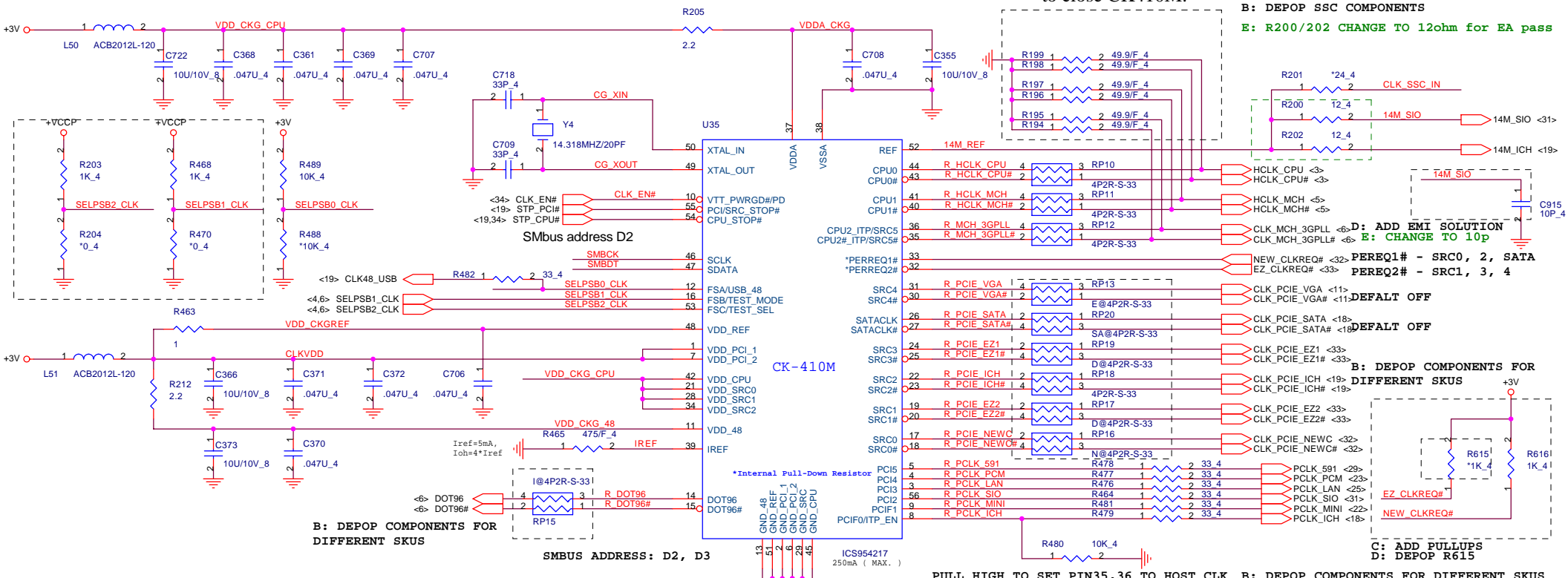
PROJECT : ZL2
Quanta Computer Inc.

Size	Document Number	Rev
	BLOCK DIAGRAM	F
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REV: POP R203 R468 AND DEPOP R204, R470 FOR DOTHAN B

Place these termination to close CK410M.

B: DEPOP SSC COMPONENTS
E: R200/202 CHANGE TO 12ohm for EA pass



B: DEPOP COMPONENTS FOR DIFFERENT SKUS

B: DEPOP SSC COMPONENTS

B: DEPOP COMPONENTS FOR DIFFERENT SKUS

C: ADD PULLUPS
D: DEPOP R615

B: DEPOP COMPONENTS FOR DIFFERENT SKUS

	FSC	FSB	FSA	CPU	SRC	PCI
DOTHAN-A 400	1	0	1	100	100	33
DOTHAN-A 533	0	0	1	133	100	33
	0	1	1	166	100	33
	0	1	0	200	100	33
	0	0	0	266	100	33
	1	0	0	333	100	33
	1	1	0	400	100	33
	1	1	1	RSVD	100	33

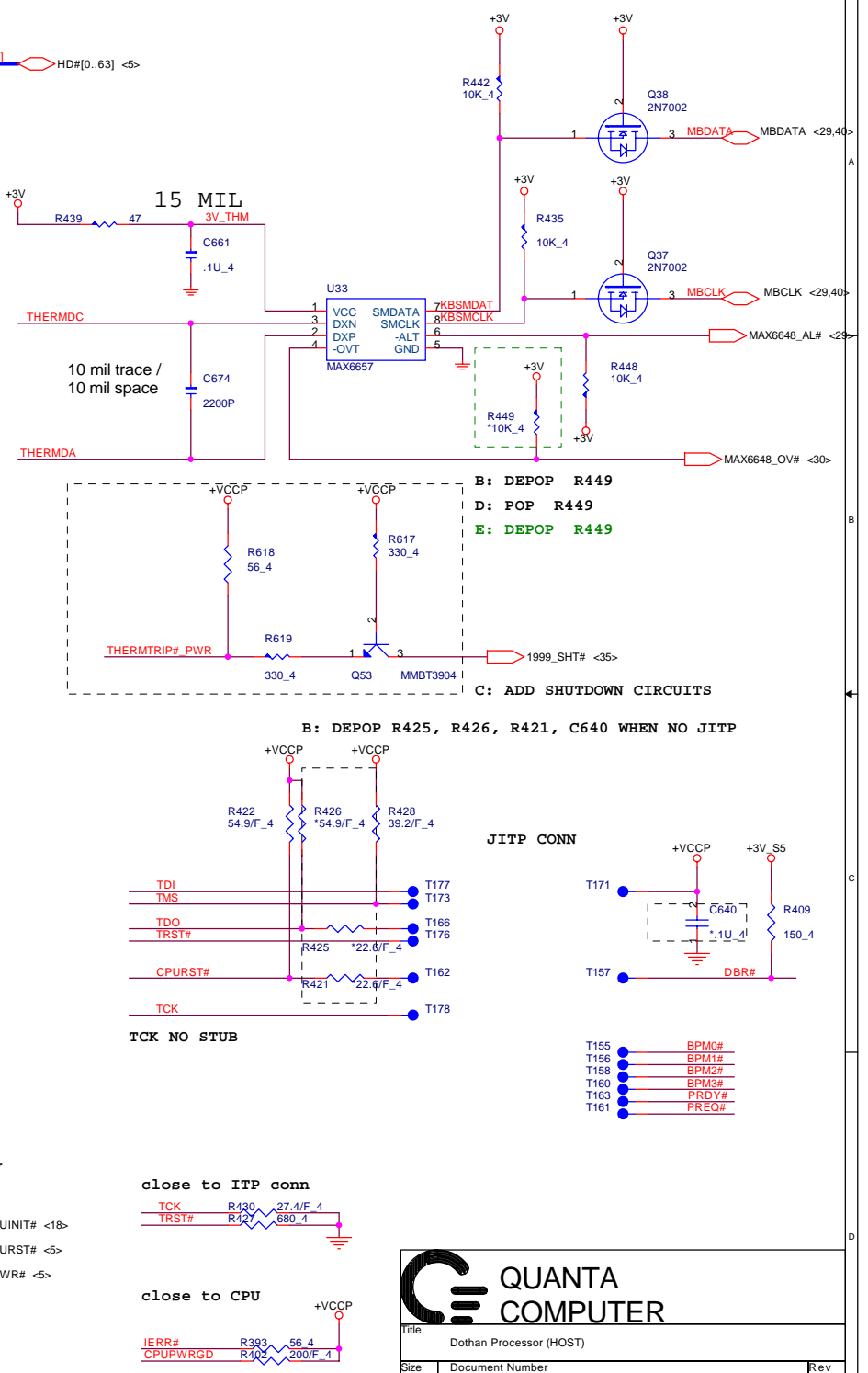
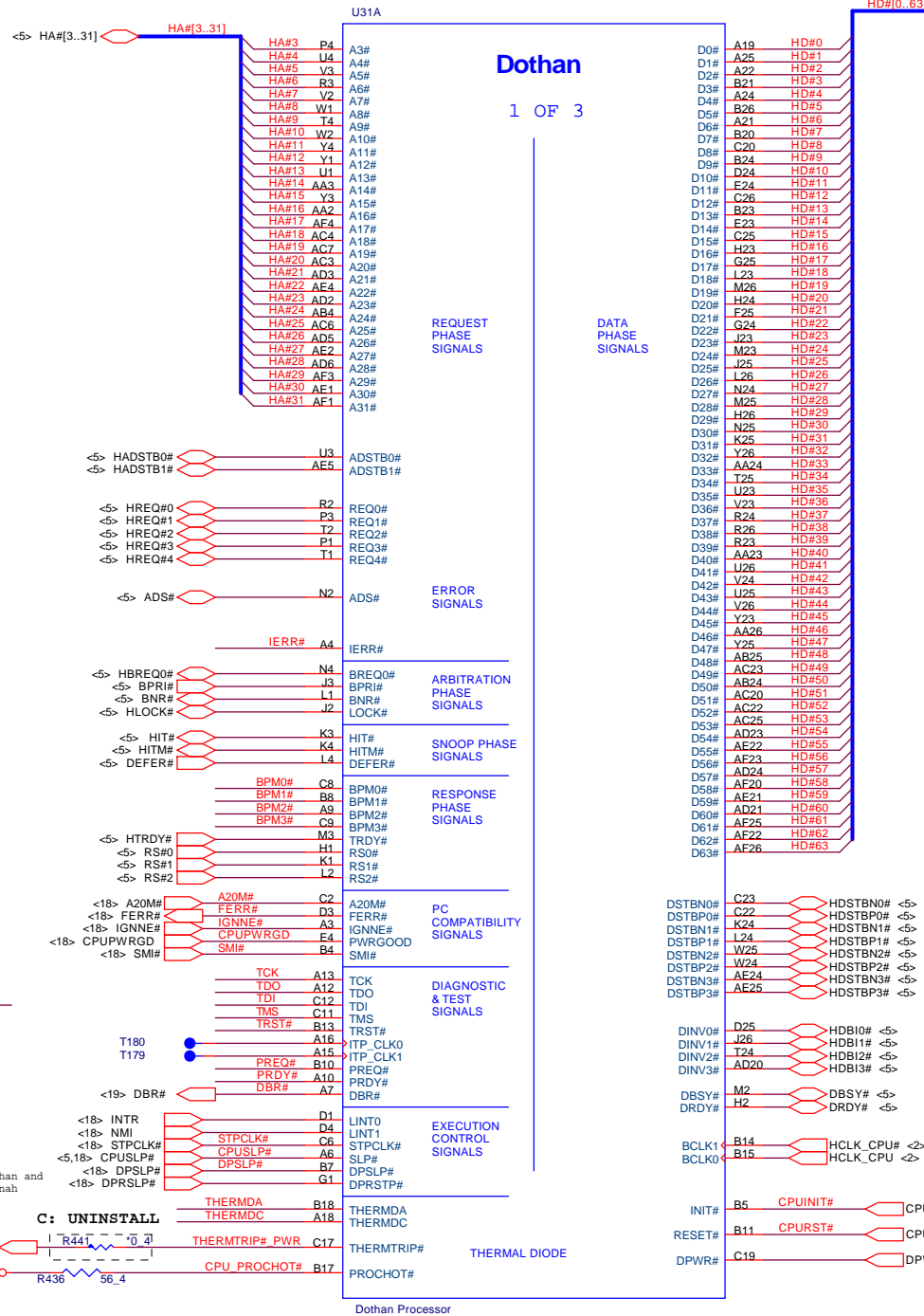
Place these termination to close CK410M.

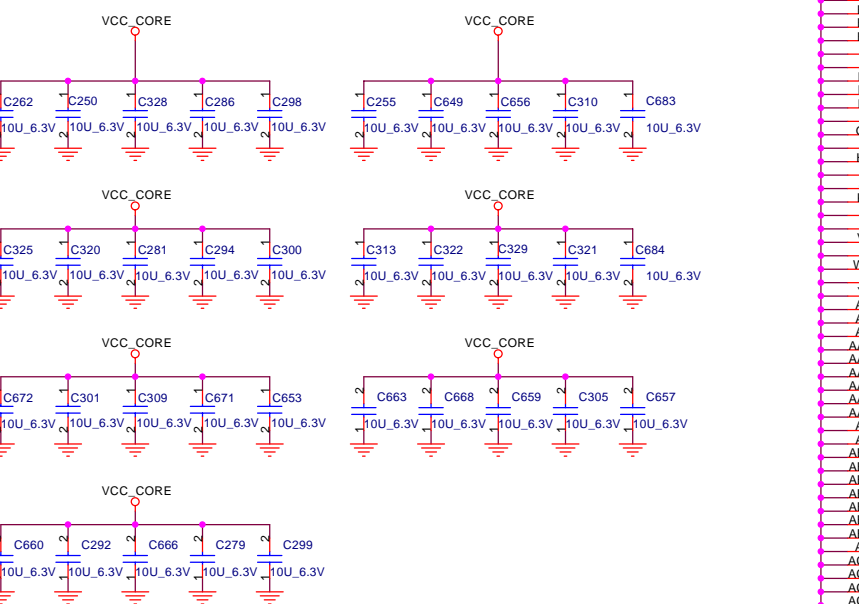
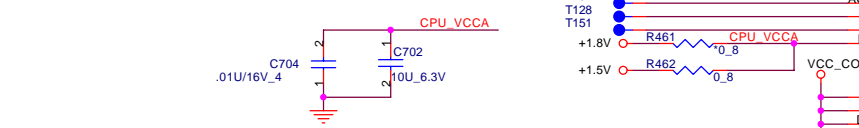
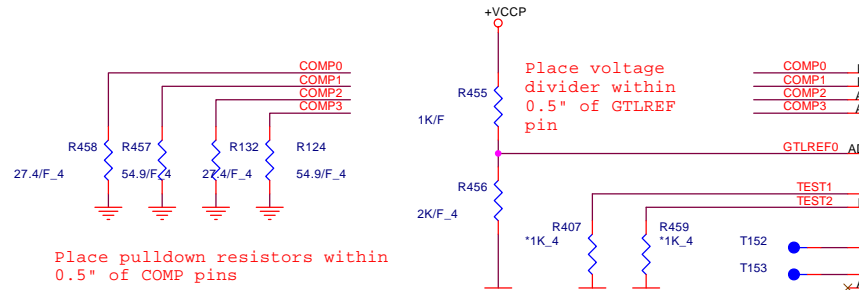
QUANTA COMPUTER

File: CLOCK GENERATOR

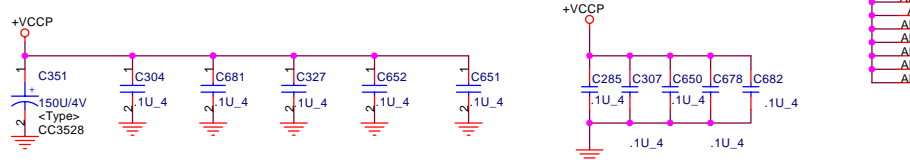
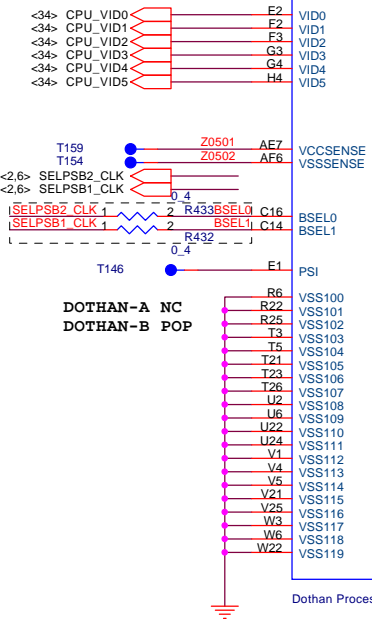
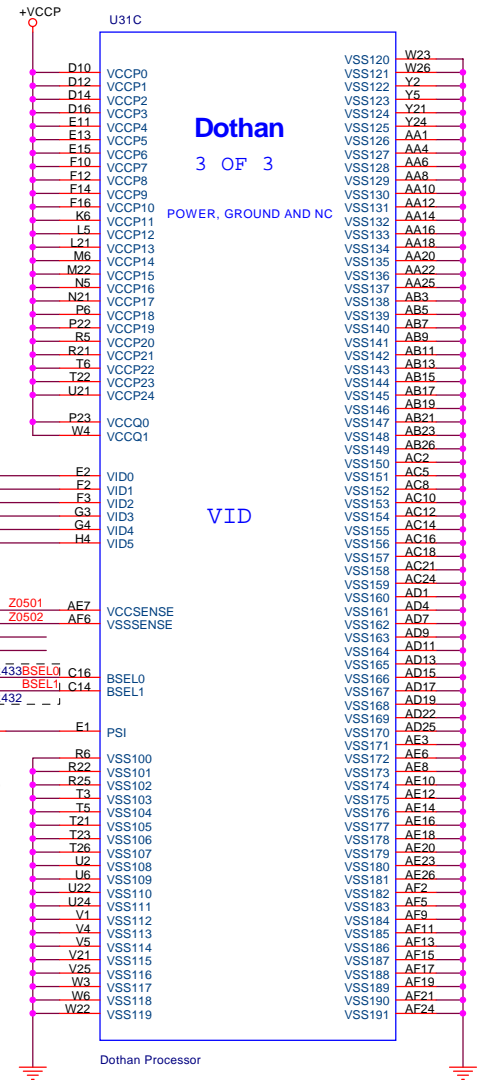
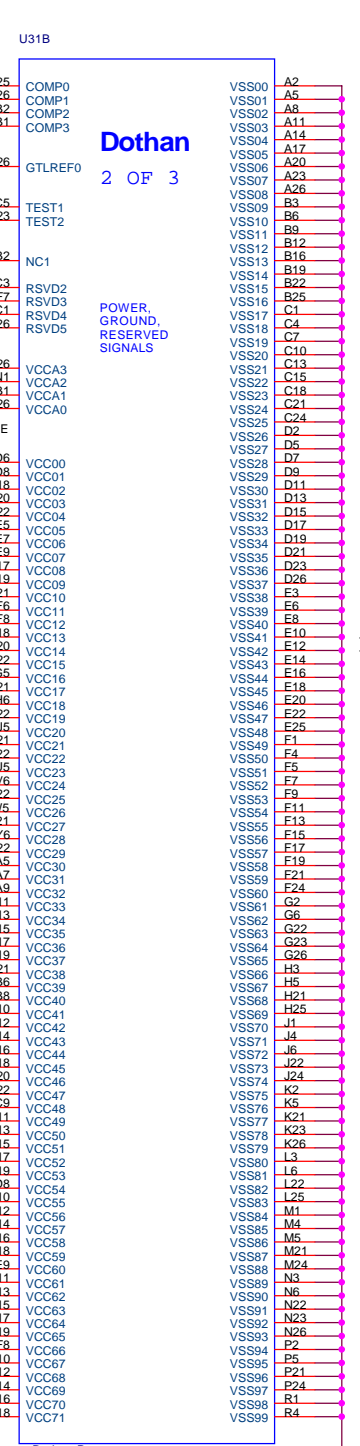
Size: Document Number ZL2 Rev F

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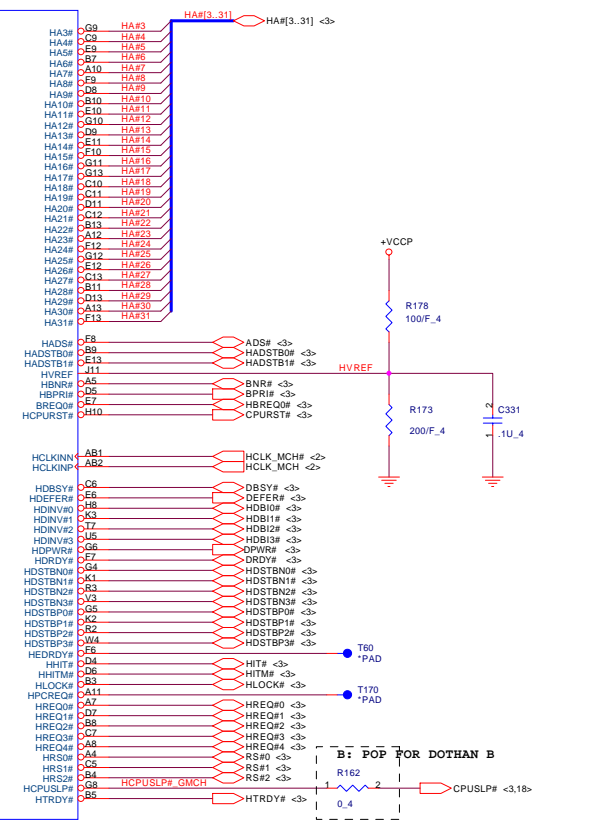
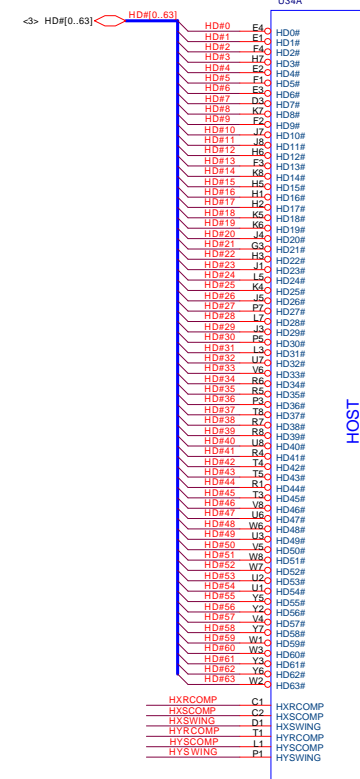
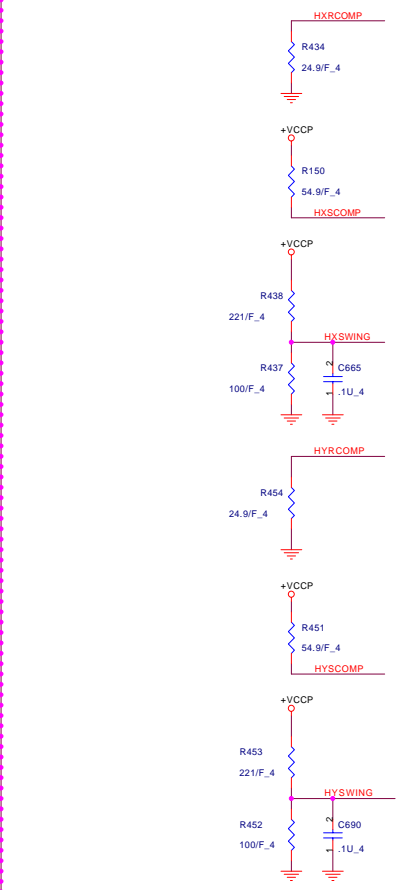




Total caps = 2633 uF
 ESR = 15m ohm/5 // 5m ohm/25 // 5m ohm/15



U34E		VSS	
AF23	VSS136	AG37	VSS0
H23	VSS137	Y37	VSS1
AL22	VSS138	V37	VSS2
AM22	VSS139	T37	VSS3
J22	VSS140	P37	VSS4
E22	VSS141	M37	VSS5
D22	VSS142	K37	VSS6
A22	VSS143	H37	VSS7
AN21	VSS144	E37	VSS8
FE21	VSS145	AN36	VSS9
F21	VSS146	AL36	VSS10
C21	VSS147	AJ36	VSS11
AK20	VSS148	AE36	VSS12
V20	VSS149	AD36	VSS13
G20	VSS150	AC36	VSS14
F20	VSS151	AB36	VSS15
E20	VSS152	AA36	VSS16
D20	VSS153	CA36	VSS17
K20	VSS154	CB36	VSS18
AN19	VSS155	AE35	VSS19
AG19	VSS156	WA35	VSS20
W19	VSS157	LV35	VSS21
T19	VSS158	VS35	VSS22
J19	VSS159	TS35	VSS23
H19	VSS160	R35	VSS24
C19	VSS161	RS35	VSS25
UH8	VSS162	N35	VSS26
AL18	VSS163	P35	VSS27
B18	VSS164	M35	VSS28
A18	VSS165	IM35	VSS29
AN17	VSS166	K35	VSS30
AJ17	VSS167	J35	VSS31
FE17	VSS168	IS35	VSS32
G17	VSS169	G35	VSS33
C17	VSS170	F35	VSS34
AL16	VSS171	E35	VSS35
K16	VSS172	D35	VSS36
D16	VSS173	C35	VSS37
D16	VSS174	AN34	VSS38
A16	VSS175	AH34	VSS39
K15	VSS176	AD34	VSS40
C15	VSS177	AC34	VSS41
AN14	VSS178	AB34	VSS42
AL14	VSS179	AA34	VSS43
U14	VSS180	CA34	VSS44
AG14	VSS181	AL33	VSS45
K14	VSS182	AD33	VSS46
J14	VSS183	AD33	VSS47
E14	VSS184	U33	VSS48
B14	VSS185	V33	VSS49
A14	VSS186	U33	VSS50
D12	VSS187	T33	VSS51
B12	VSS188	P33	VSS52
AN11	VSS189	N33	VSS53
AL11	VSS190	M33	VSS54
AA11	VSS191	L33	VSS55
FE11	VSS192	K33	VSS56
Y11	VSS193	J33	VSS57
H11	VSS194	H33	VSS58
F11	VSS195	G33	VSS59
AA10	VSS196	E33	VSS60
Y10	VSS197	D33	VSS61
D10	VSS198	C33	VSS62
AN9	VSS199	AN32	VSS63
AH9	VSS200	AJ32	VSS64
AE9	VSS201	AD32	VSS65
AC9	VSS202	AC32	VSS66
AA9	VSS203	AB32	VSS67
Y9	VSS204	AA32	VSS68
T9	VSS205	Y32	VSS69
S9	VSS206	X32	VSS70
K9	VSS207	W32	VSS71
H9	VSS208	V32	VSS72
A9	VSS209	U32	VSS73
AL8	VSS210	U32	VSS74
PR	VSS211	AD31	VSS75
FR	VSS212	W31	VSS76
CR	VSS213	V31	VSS77
AN7	VSS214	T31	VSS78
AK7	VSS215	R31	VSS79
AG7	VSS216	P31	VSS80
AJ7	VSS217	N31	VSS81
AE7	VSS218	M31	VSS82
AC7	VSS219	L31	VSS83
AG7	VSS220	K31	VSS84
V7	VSS221	J31	VSS85
G7	VSS222	H31	VSS86
AL6	VSS223	G31	VSS87
AE6	VSS224	F31	VSS88
AC6	VSS225	E31	VSS89
AA6	VSS226	D31	VSS90
TR	VSS227	C31	VSS91
PE	VSS228	AN30	VSS92
LE	VSS229	AP30	VSS93
AF5	VSS230	AO30	VSS94
AL5	VSS231	AC30	VSS95
AE5	VSS232	AB30	VSS96
W5	VSS233	Y30	VSS97
AN4	VSS234	C30	VSS98
EA	VSS235	AM29	VSS99
AN4	VSS236	AJ29	VSS100
UH4	VSS237	AD29	VSS101
Y4	VSS238	AC29	VSS102
P4	VSS239	AA29	VSS103
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A4	VSS241	V29	VSS105
AC3	VSS242	U29	VSS106
AB3	VSS243	T29	VSS107
AA3	VSS244	L29	VSS108
C3	VSS245	H29	VSS109
AK3	VSS246	G29	VSS110
AK3	VSS247	F29	VSS111
C3	VSS248	E29	VSS112
AK3	VSS249	D29	VSS113
AK3	VSS250	A29	VSS114
AN2	VSS251	AC28	VSS115
AL2	VSS252	AB28	VSS116
AH2	VSS253	AA28	VSS117
AE2	VSS254	W28	VSS118
AD2	VSS255	E28	VSS119
V2	VSS256	AN27	VSS120
Y2	VSS257	AL27	VSS121
L2	VSS258	AJ27	VSS122
B27	VSS259	AG27	VSS123
Q26	VSS260	AE27	VSS124
E26	VSS261	AB27	VSS125
A26	VSS262	AA27	VSS126
AN24	VSS263	W27	VSS127
AL24	VSS264	G27	VSS128
CS2	VSS265	E27	VSS129
D2	VSS266	AJ24	VSS130
Y1	VSS267	AG24	VSS131
Y1	VSS268	F24	VSS132
Y1	VSS269	D24	VSS133
Y1	VSS270	D24	VSS134
Y1	VSS271	B24	VSS135



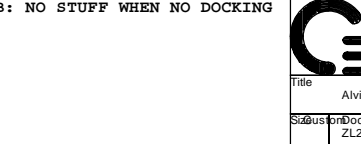
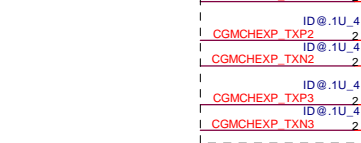
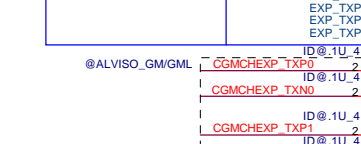
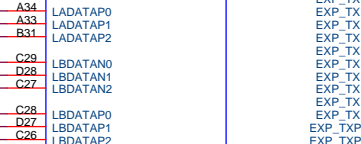
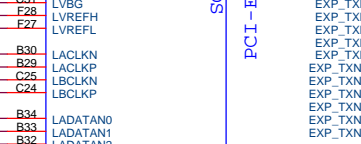
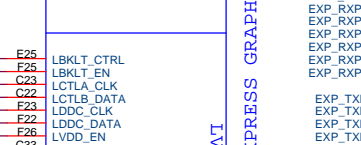
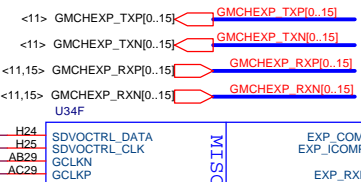
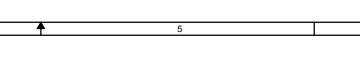
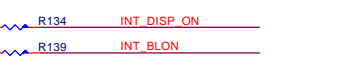
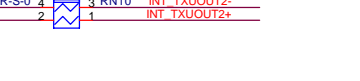
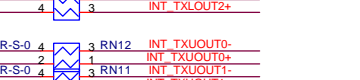
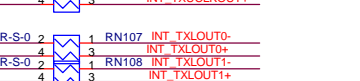
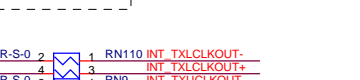
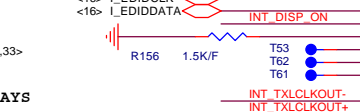
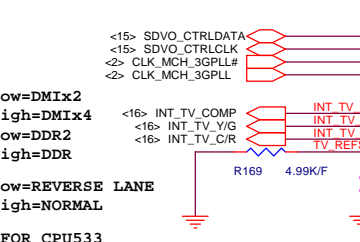
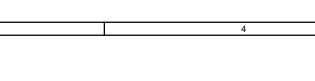
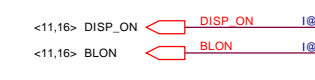
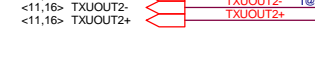
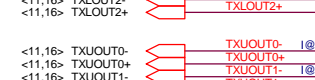
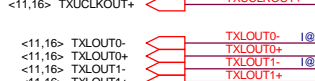
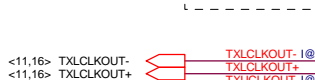
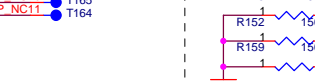
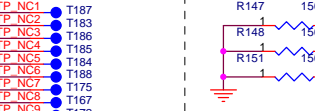
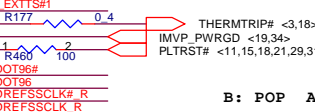
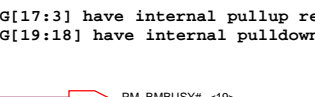
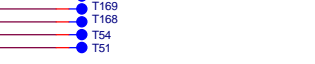
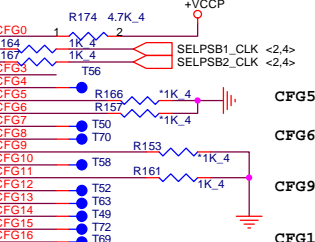
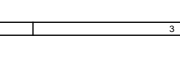
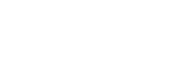
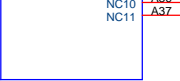
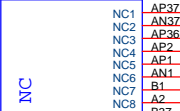
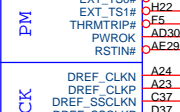
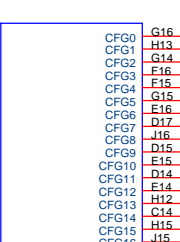
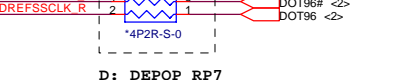
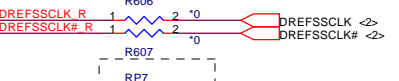
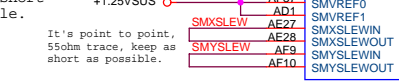
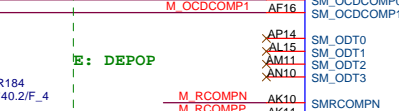
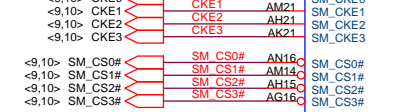
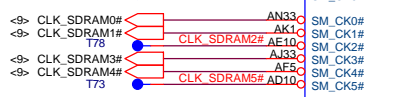
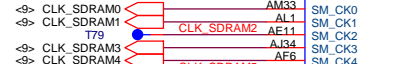
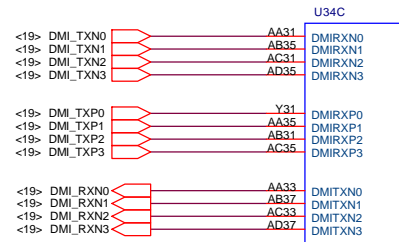
DO NOT INSTALL FOR DOTHAN-A AND INSTALL FOR DOTHAN-B

QUANTA COMPUTER

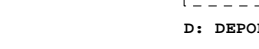
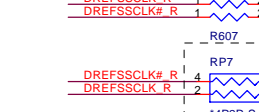
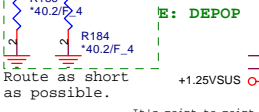
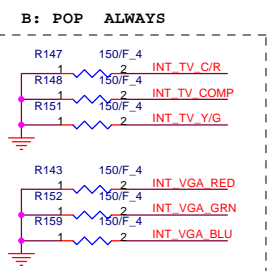
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Size: C	Document Number: Z12	Rev: F
Date: Tuesday, December 21, 2004	Sheet: 5 of 41	

CFG[0:2]=100 FOR FSB 533
CFG[0:2]=101 FOR FSB 400



CFG[17:3] have internal pullup resistors.
CFG[19:18] have internal pulldown resistors

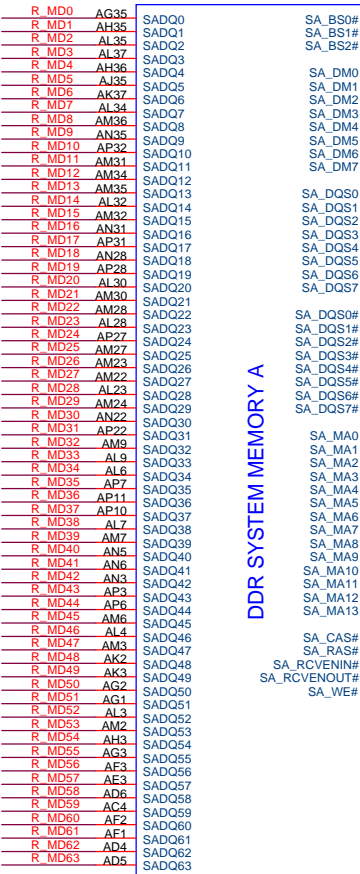
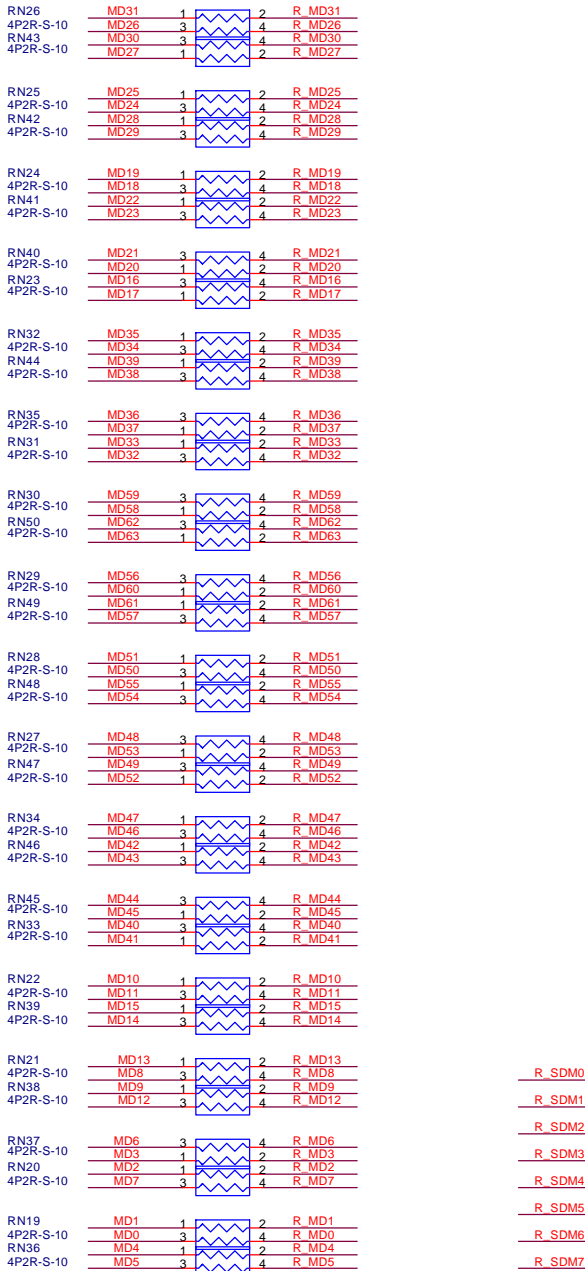


B: NO STUFF WHEN NO DOCKING

QUANTA COMPUTER logo and title block information including Title: Alviso (VGA, DMI), Document Number: ZL2, Date: Tuesday, December 21, 2004, Sheet: 6 of 41, and Revision: F.

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 SM_DQS[0..7] → SM_DQS[0..7] <9,10>
 SDM[0..7] → SDM[0..7] <9,10>

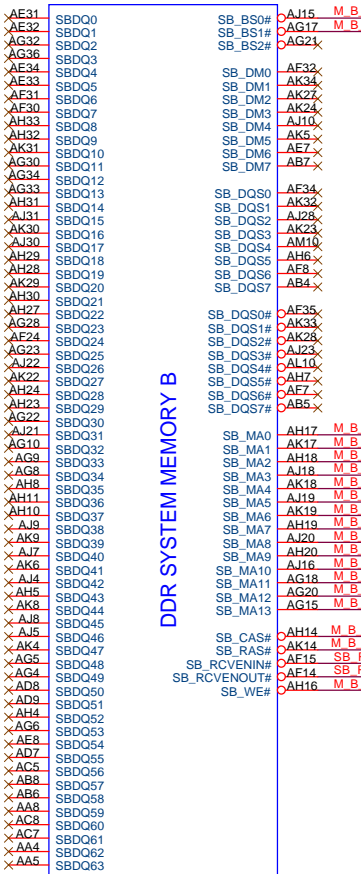
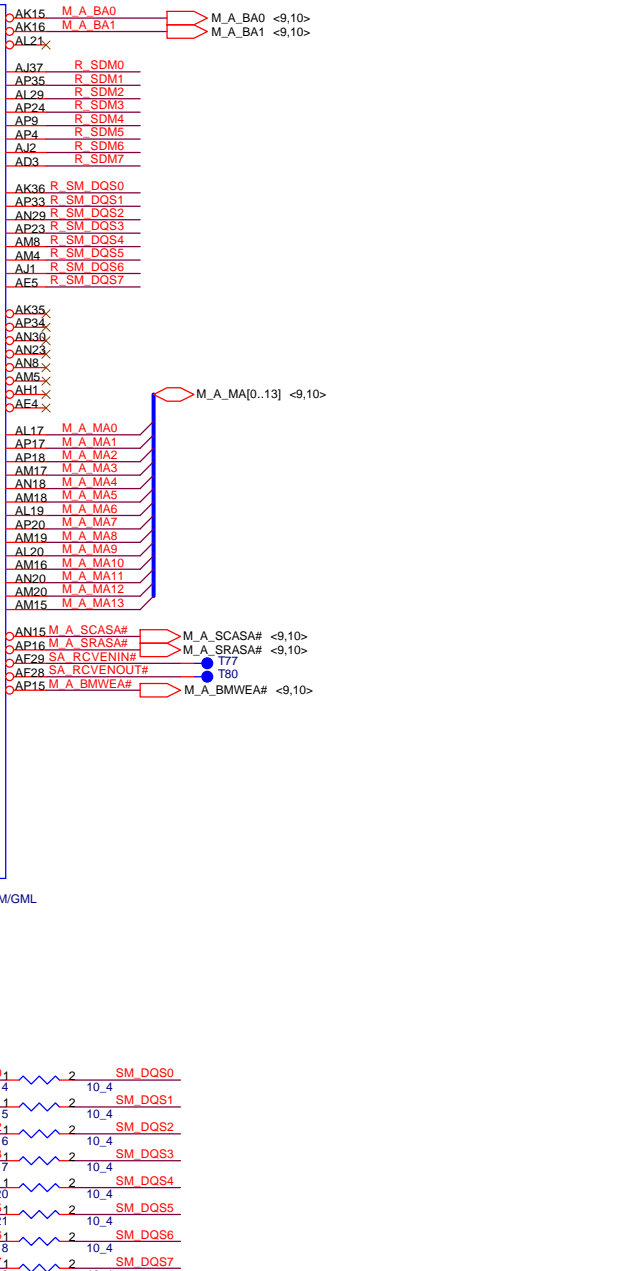
U34B



DDR SYSTEM MEMORY A

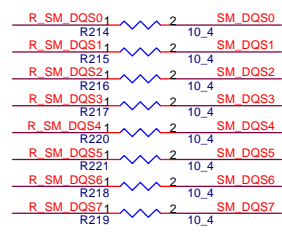
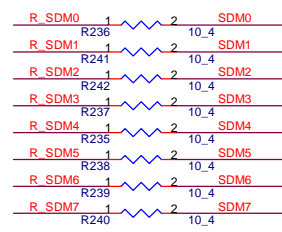
@ALVISO_GM/GML

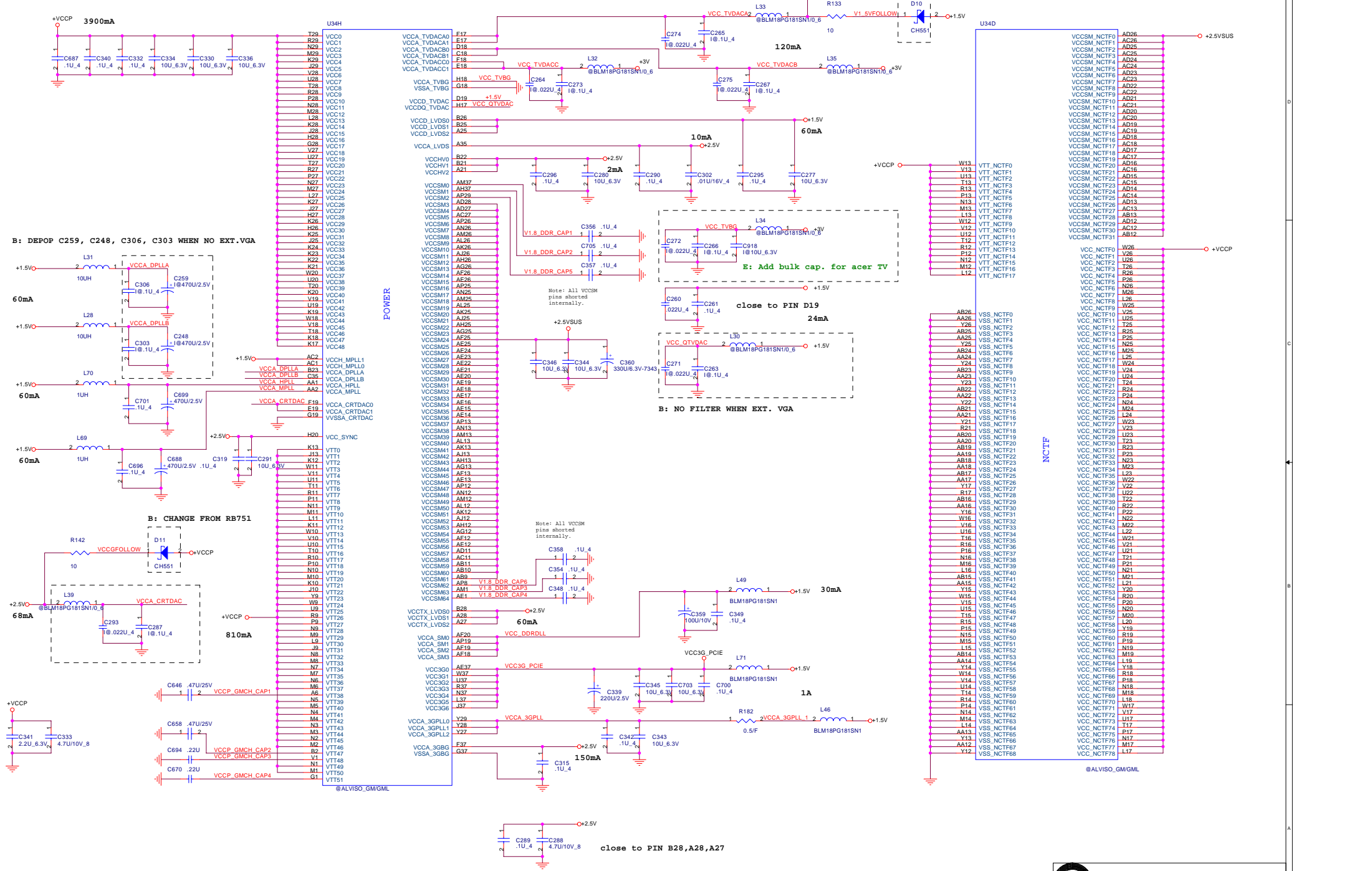
U34G



DDR SYSTEM MEMORY B

@ALVISO_GM/GML



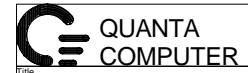


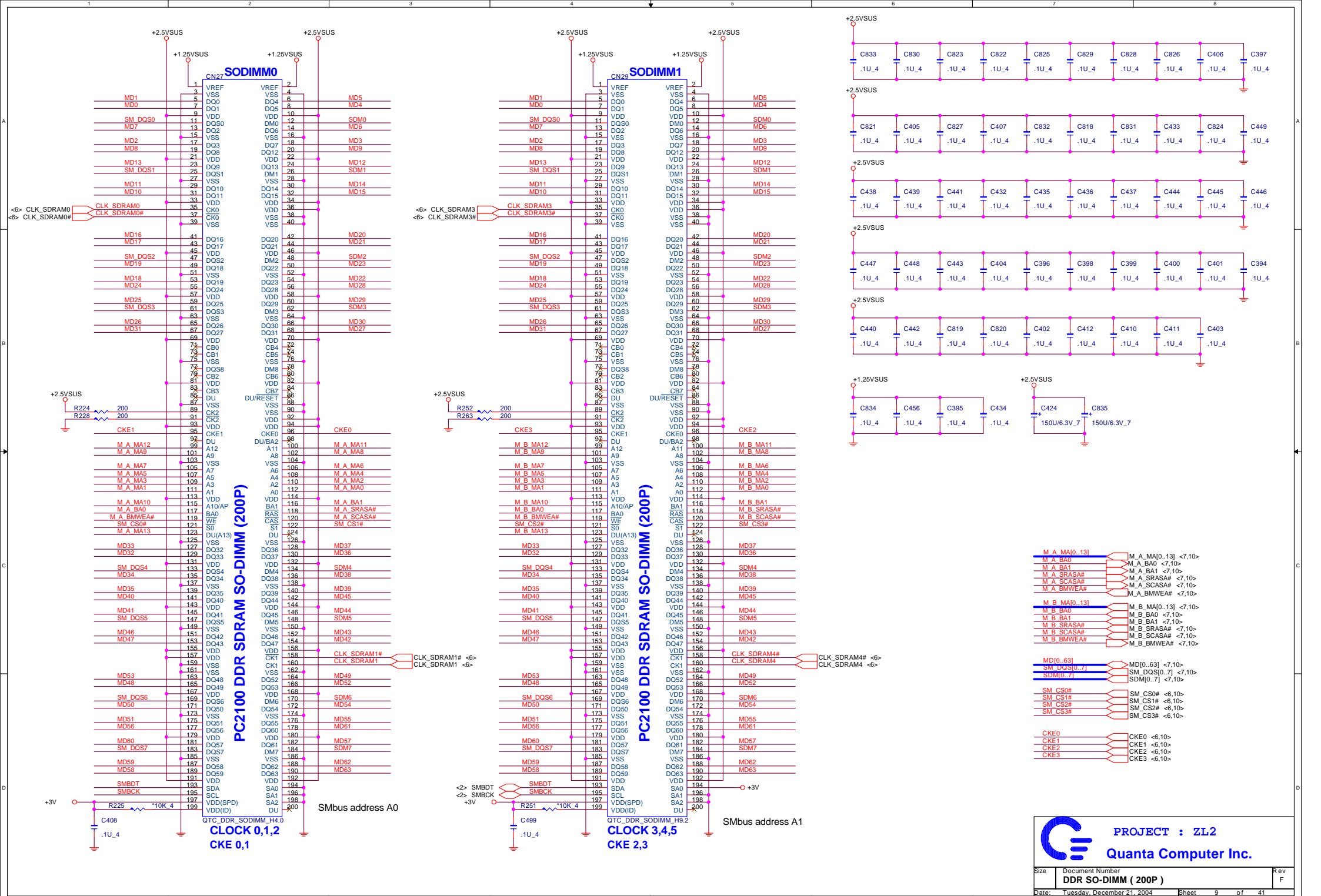
B: DEPOP C259, C248, C306, C303 WHEN NO EXT.VGA

B: NO FILTER WHEN EXT. VGA

B: CHANGE FROM RB751

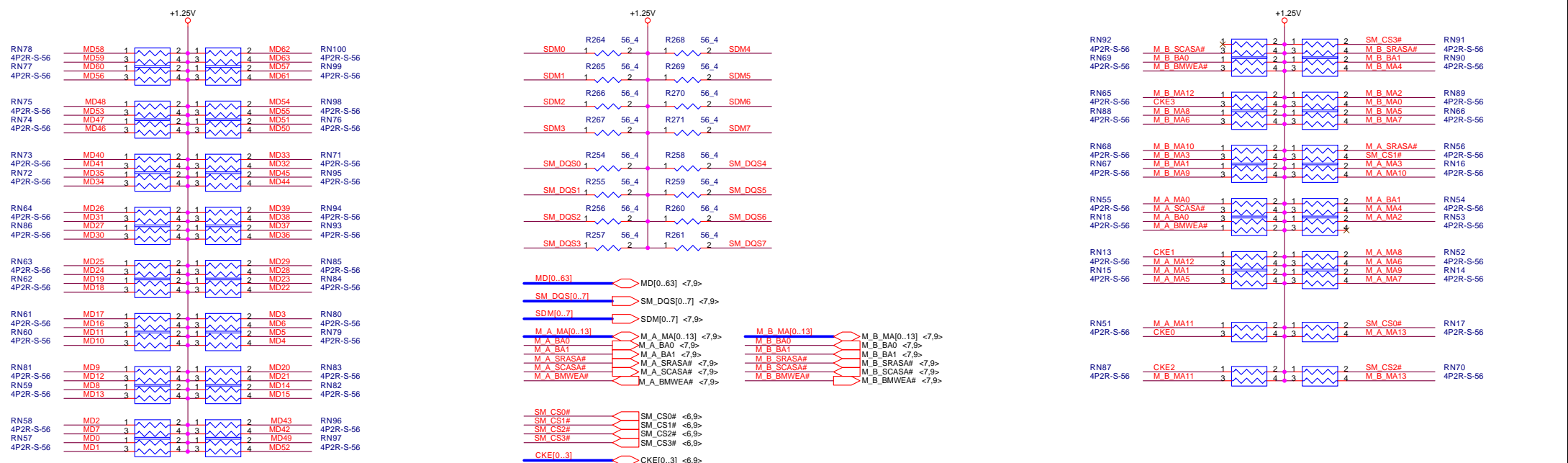
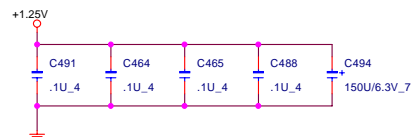
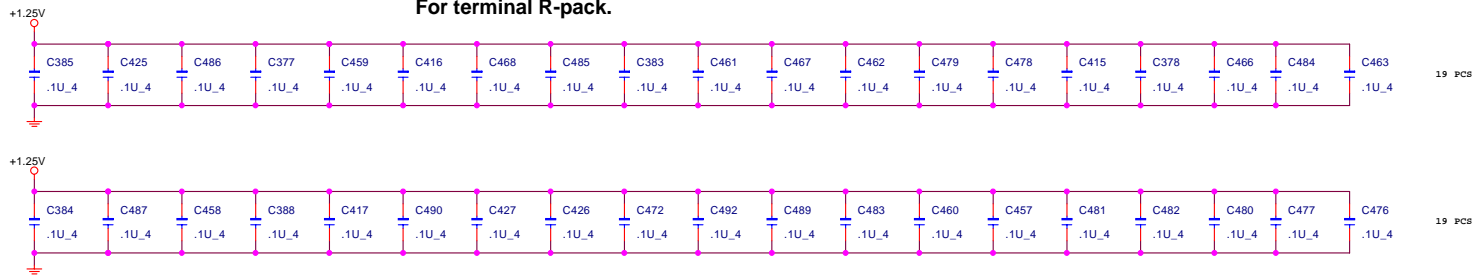
close to PIN B28,A28,A27






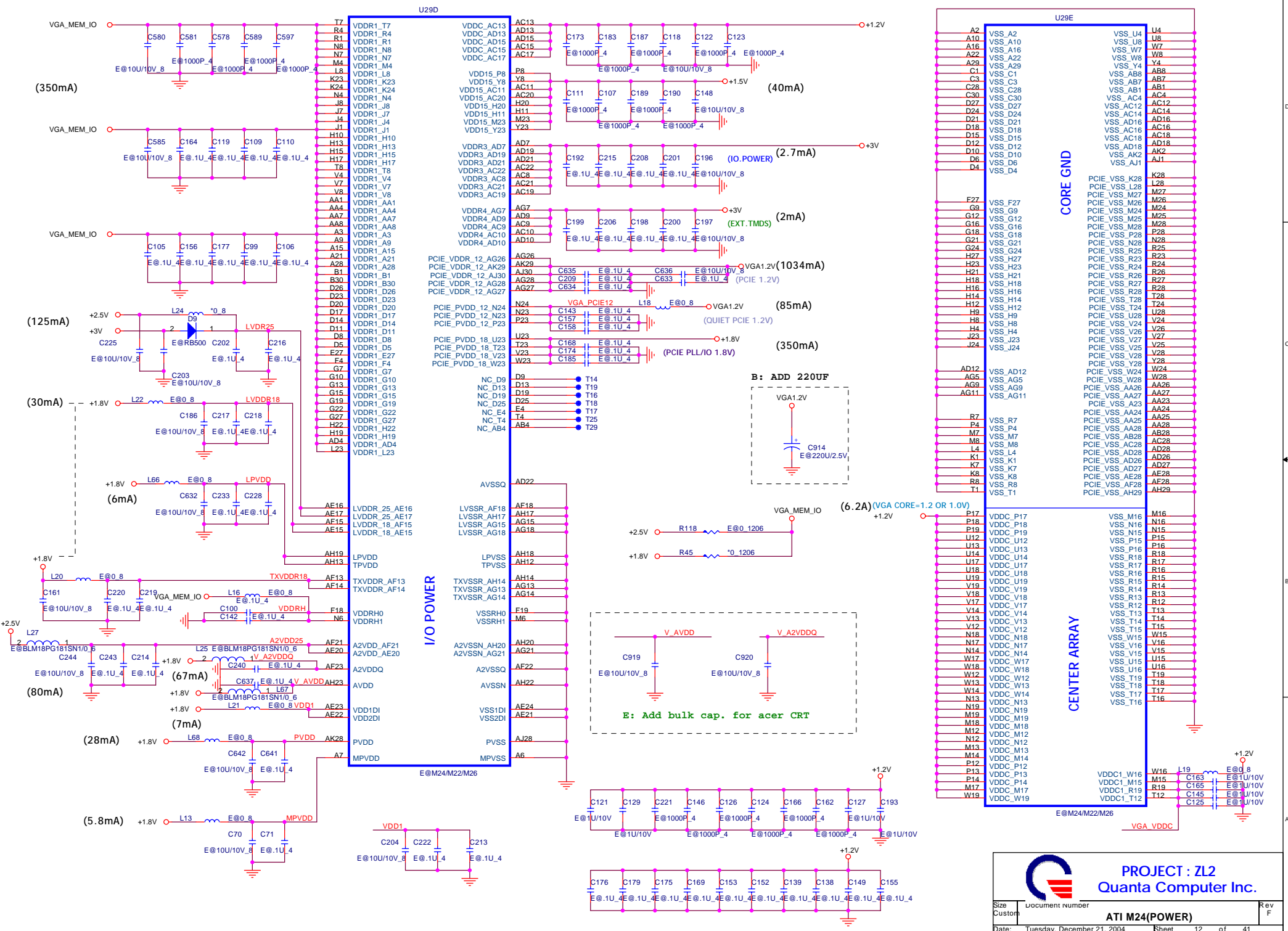
- M_A MA[0..13] <-> M_A MA[0..13] <7,10>
- M_A BA0 <-> M_A BA0 <7,10>
- M_A BA1 <-> M_A BA1 <7,10>
- M_A SRASA# <-> M_A SRASA# <7,10>
- M_A SCASA# <-> M_A SCASA# <7,10>
- M_A BMWEA# <-> M_A BMWEA# <7,10>
- M_B MA[0..13] <-> M_B MA[0..13] <7,10>
- M_B BA0 <-> M_B BA0 <7,10>
- M_B BA1 <-> M_B BA1 <7,10>
- M_B SRASA# <-> M_B SRASA# <7,10>
- M_B SCASA# <-> M_B SCASA# <7,10>
- M_B BMWEA# <-> M_B BMWEA# <7,10>
- MD[0..63] <-> MD[0..63] <7,10>
- SM_DQS[0..7] <-> SM_DQS[0..7] <7,10>
- SDM[0..7] <-> SDM[0..7] <7,10>
- SM_CS0# <-> SM_CS0# <6,10>
- SM_CS1# <-> SM_CS1# <6,10>
- SM_CS2# <-> SM_CS2# <6,10>
- SM_CS3# <-> SM_CS3# <6,10>
- CKE0 <-> CKE0 <6,10>
- CKE1 <-> CKE1 <6,10>
- CKE2 <-> CKE2 <6,10>
- CKE3 <-> CKE3 <6,10>

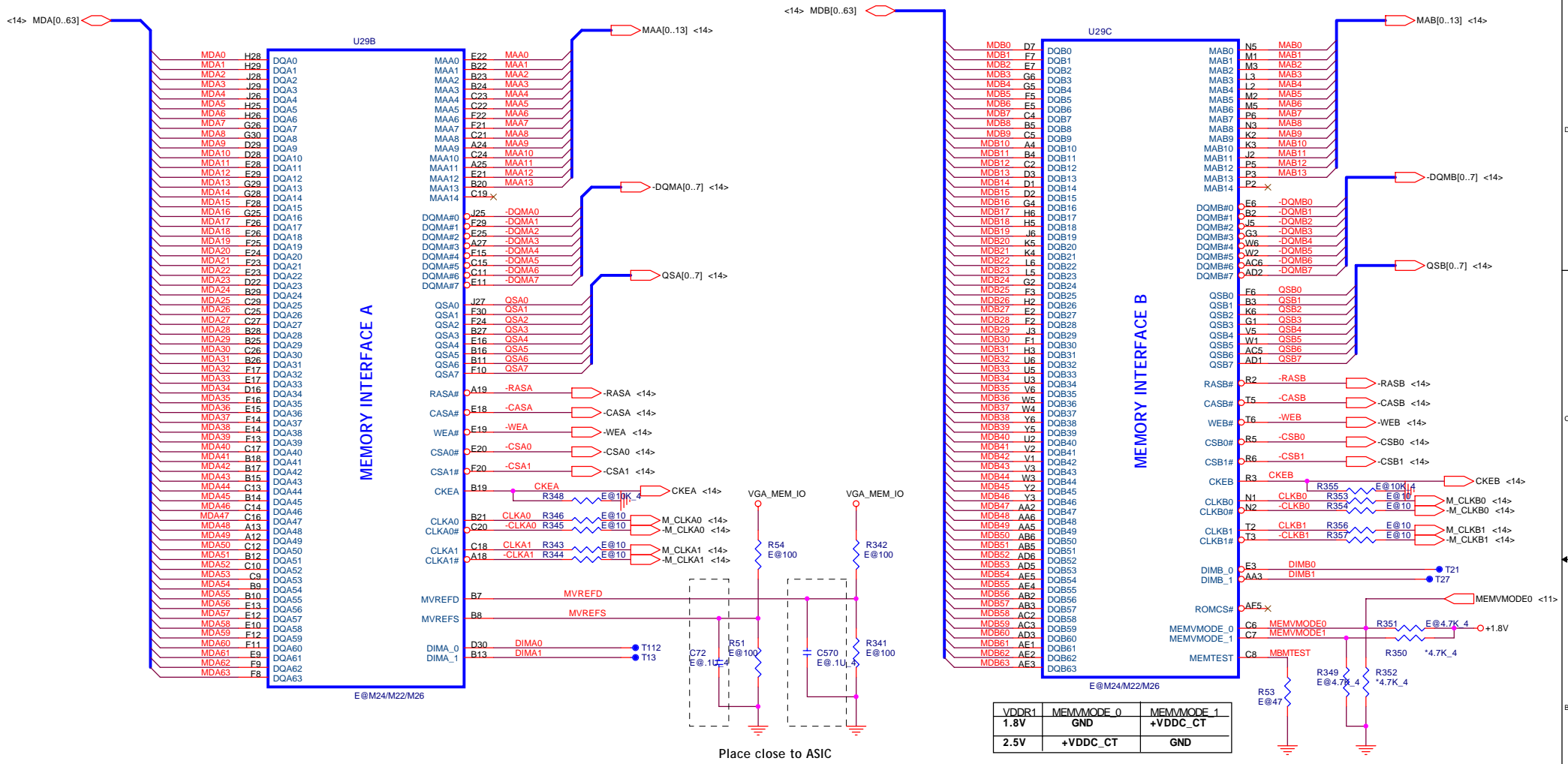
For terminal R-pack.




PROJECT : ZL2
Quanta Computer Inc.

Size	Document Number	Rev
	DDR TERMINATION	F
Date:	Tuesday, December 21, 2004	Sheet 10 of 41

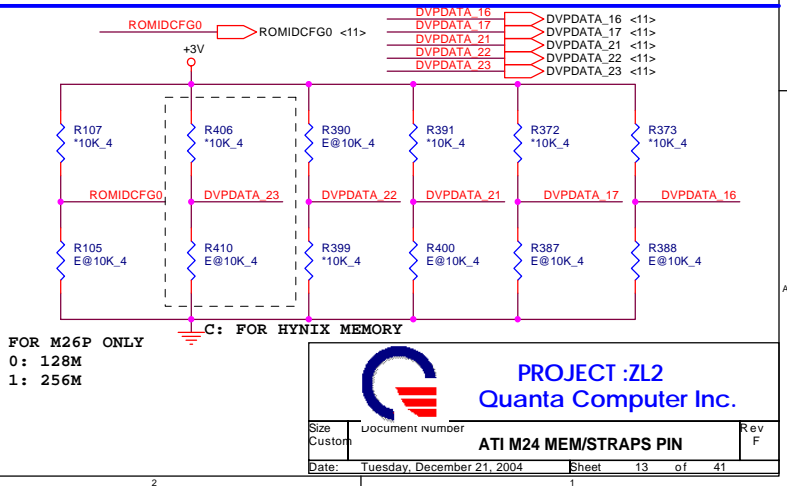




GPIO_0	PCI-Express Current Calibration Bandgap Backup 0: use reference voltage from Bandgap 1: use reference voltage from resistor divider
GPIO_1	PCI-Express PLL Calibration force enable 0: Disable PLL force calibration 1: Enable PLL force calibration
GPIO_(3,2)	00: PCI Express 1.0 mode 01: RESERVED 10: PCI Express 1.0 mode 11: RESERVED
GPIO_4	Turn off PCI-Express impedance / strength calibration 0: enable 1: disable
GPIO_5	Bypass PCI-Express PLL

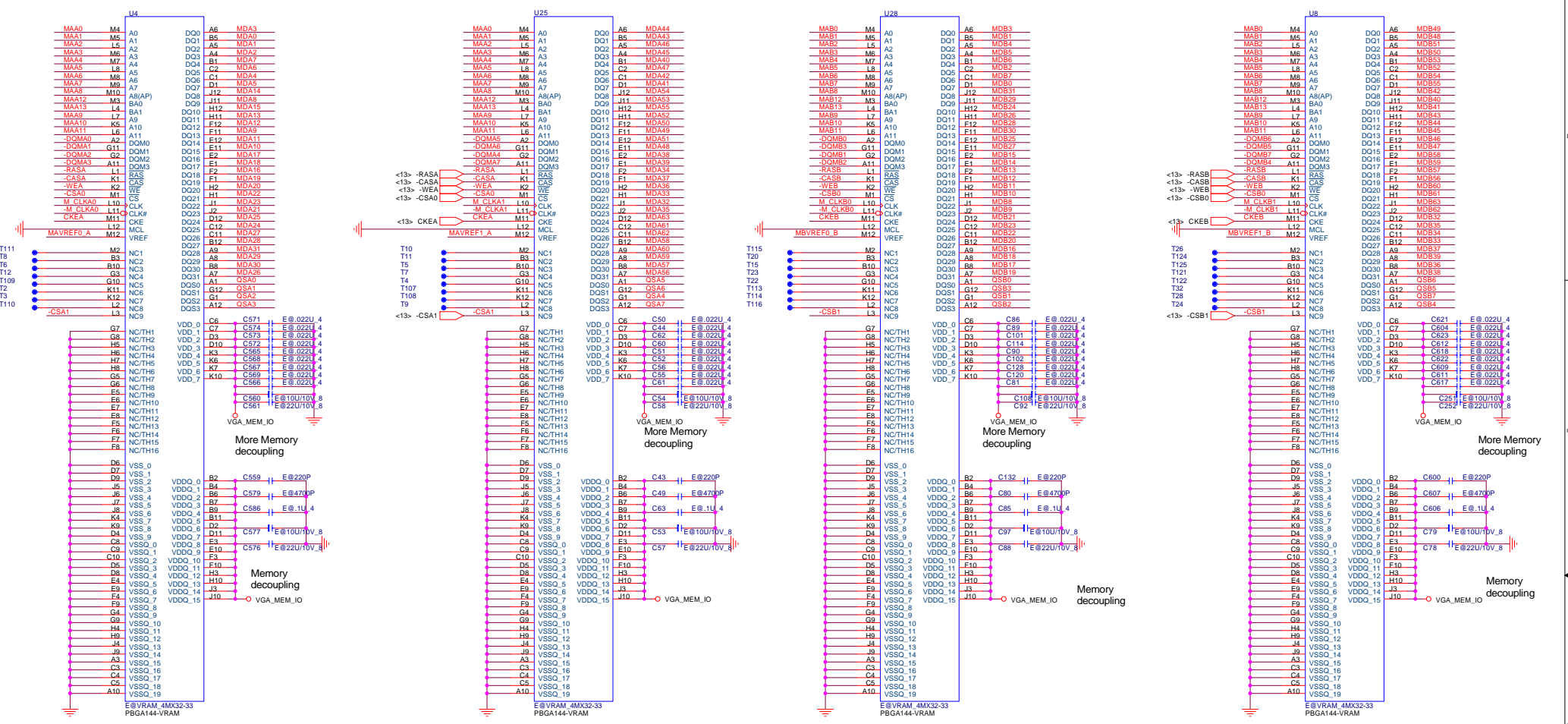
STRAPS PIN

GPIO_6	PCI-Express transmitter current compensation 0: Normal 1: Inject extra current for output buffer switching
GPIO_8	Strap to set the debug muxes to bring out DEBUG signals even if registers are inaccessible
GPIO(9,13:11) INT P/D	ROMIDCFG 0x0x: No ROM, CHG_ID=0 0x1x: No Rom, CHG_ID=1 1000: Parallel ROM, Chip ID'S from ROM 1000: Parallel ROM, Chip ID'S from ROM
DVPDATA_21-23 MEM TYPE	DVPDATA_21: 0=4Mx32 1=8Mx32 DVPDATA_22: 0=128M 1=64M DVPDATA_23: 0=Hynix 1=Samsung

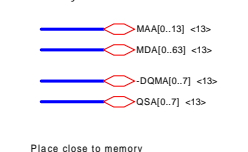


PROJECT :ZL2
Quanta Computer Inc.

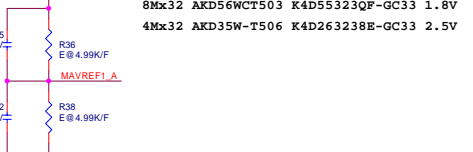
Size Custom	Document number	ATI M24 MEM/STRAPS PIN	Rev F
Date:	Tuesday, December 21, 2004	Sheet	13 of 41



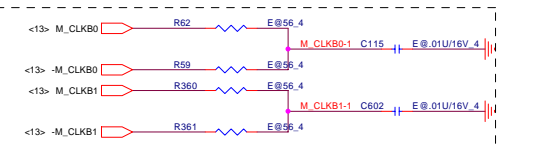
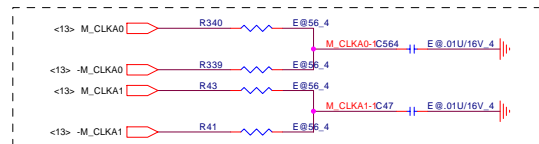
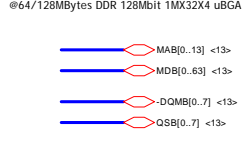
VGA DDR MEMORY A
 @64/128MBytes DDR 128Mbit 1MX32x4 uBGA



8Mx32 AKD56WCT503 K4D5323QP-GC33 1.8V
4Mx32 AKD35W-T506 K4D263238E-GC33 2.5V



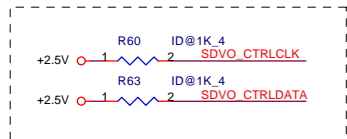
VGA DDR MEMORY B
 @64/128MBytes DDR 128Mbit 1MX32x4 uBGA



At least a 2.5:1 spacing between the pair
 These resistors and caps must be placed to minimize any stubs. These must also be placed after the memory

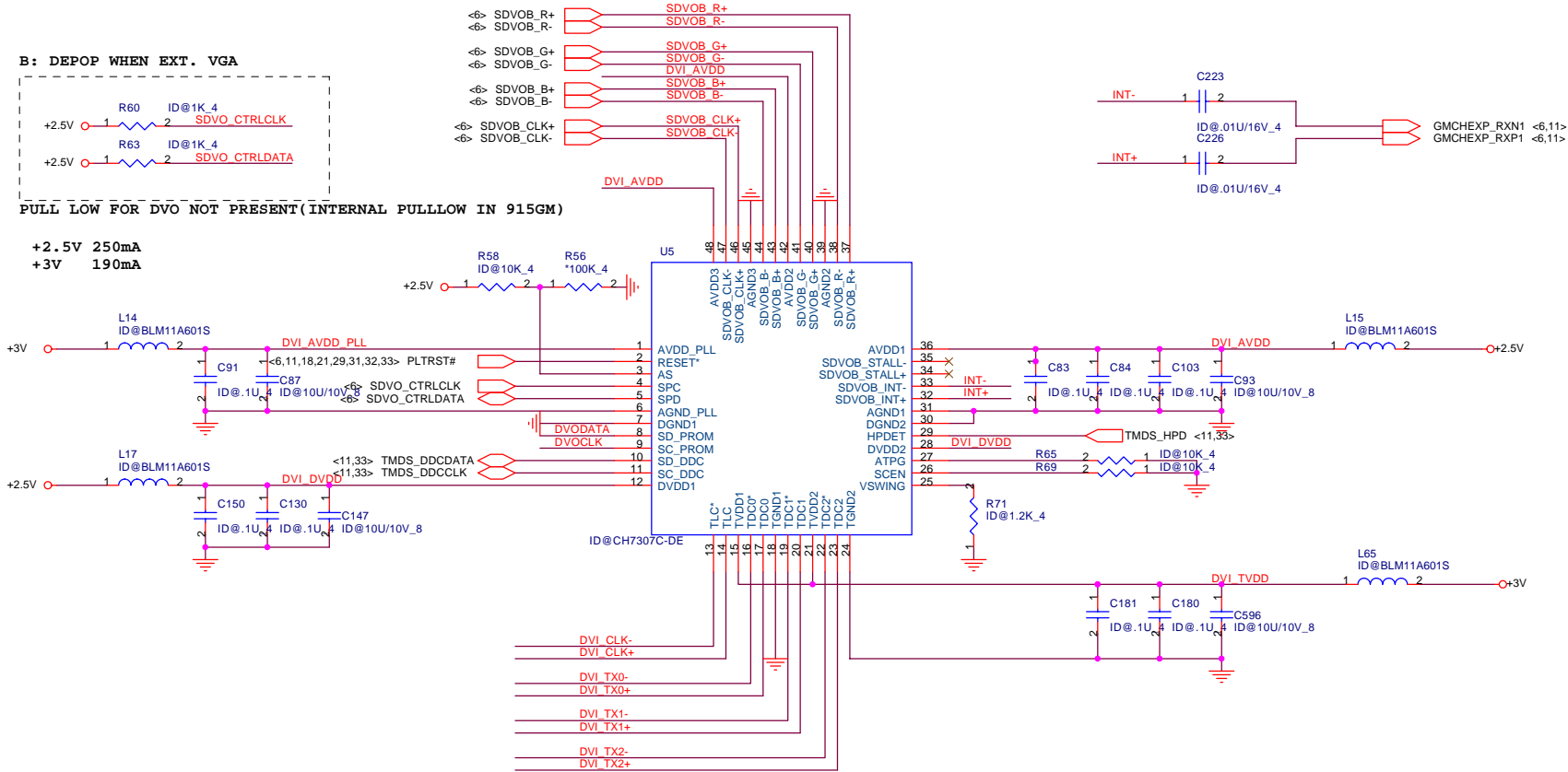
At least a 2.5:1 spacing between the pair
 These resistors and caps must be placed to minimize any stubs. These must also be placed after the memory

B: DEPOP WHEN EXT. VGA

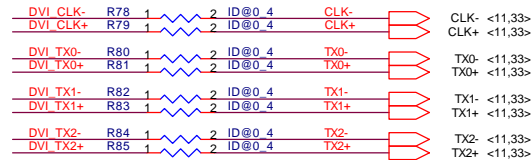
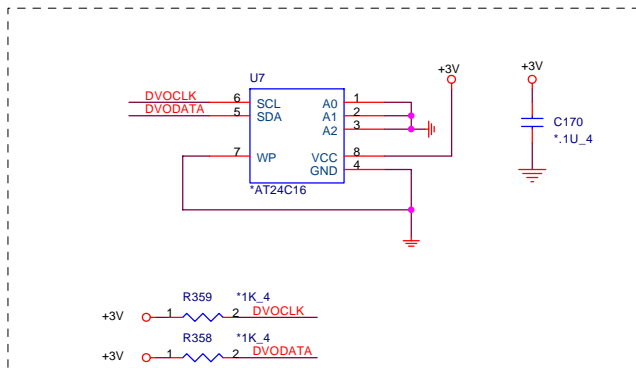


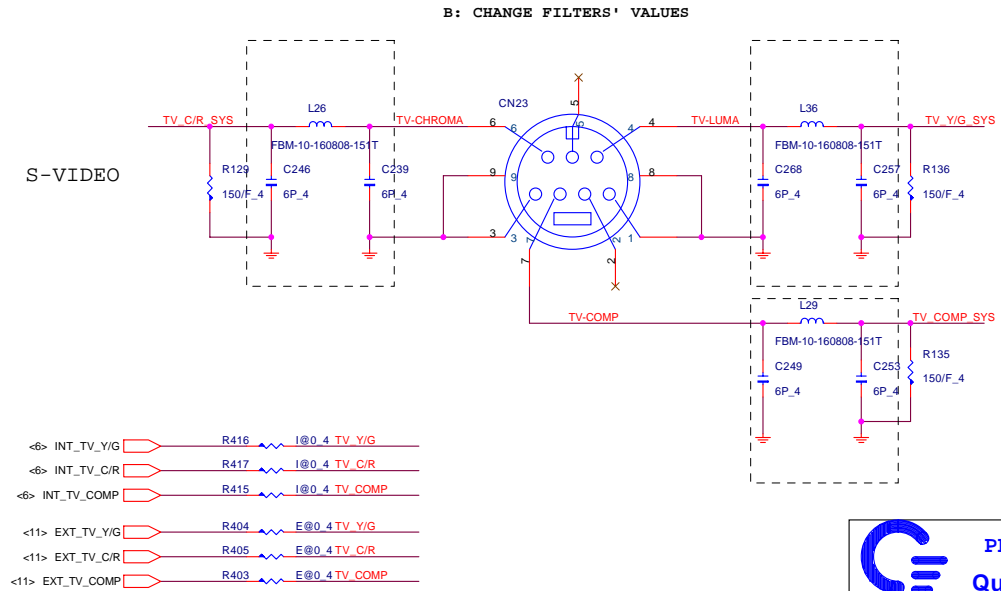
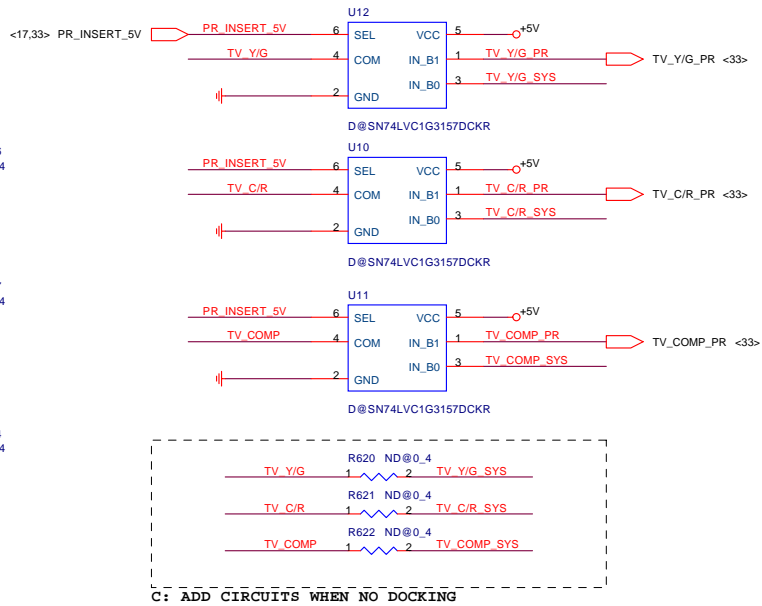
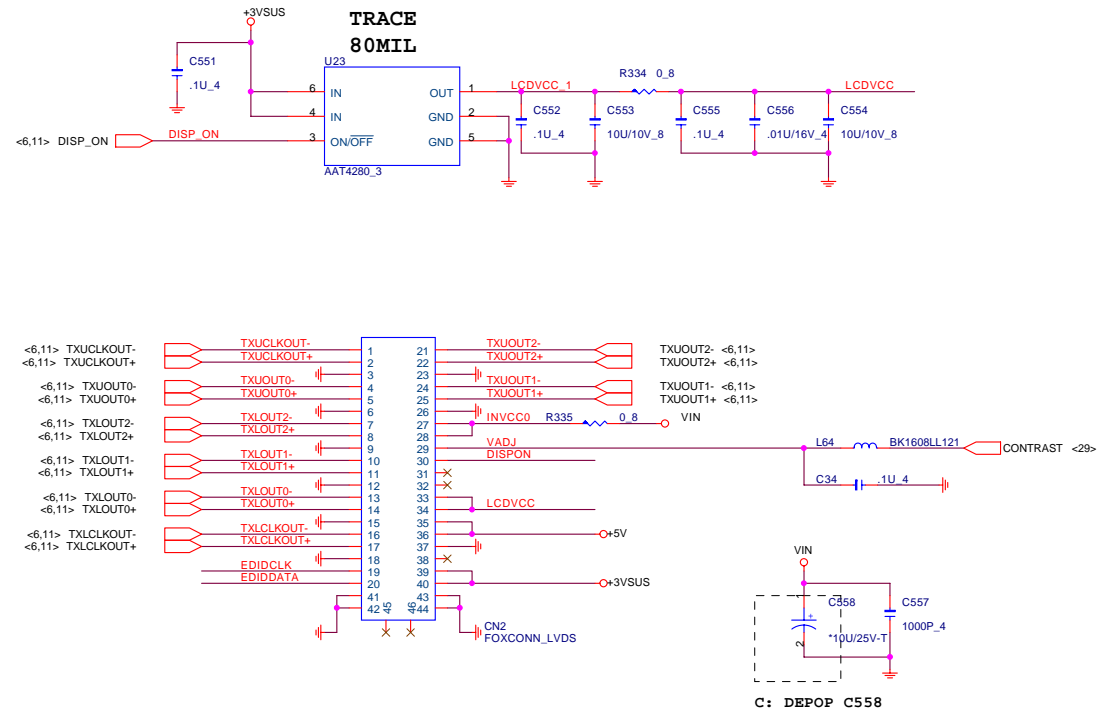
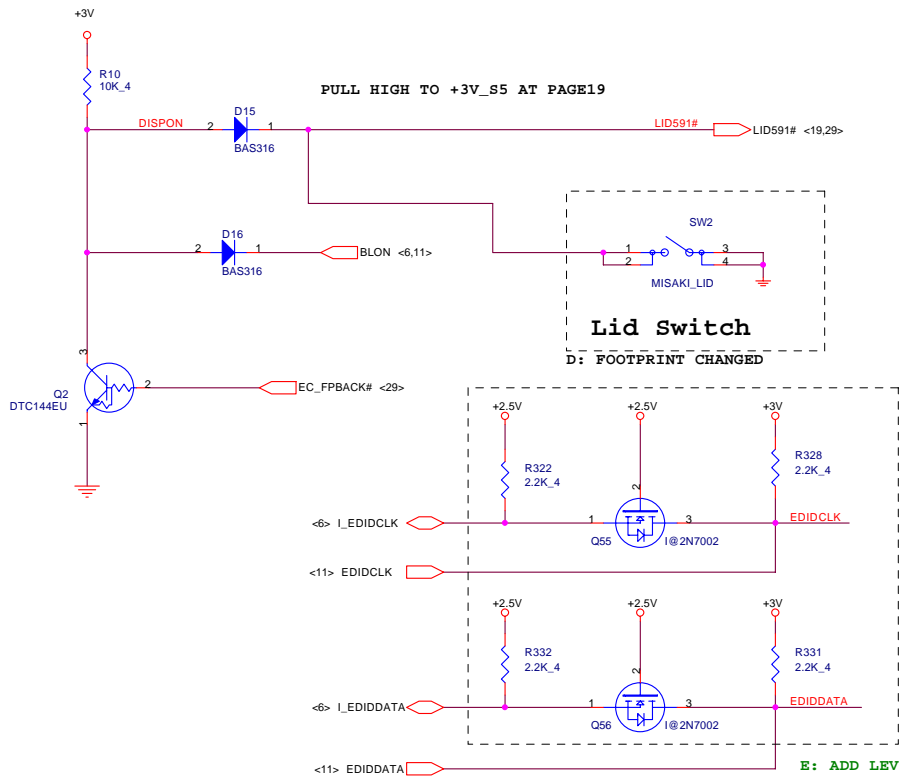
PULL LOW FOR DVO NOT PRESENT (INTERNAL PULLLOW IN 915GM)

+2.5V 250mA
+3V 190mA

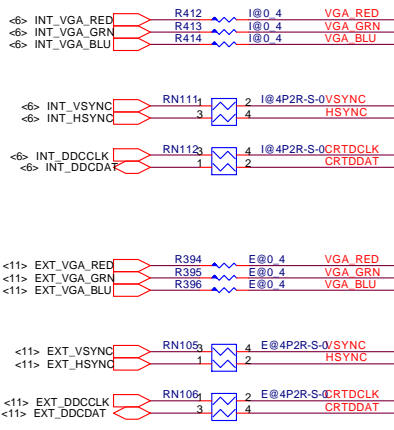


B: ALWAYS NOT ON, TEST ONLY

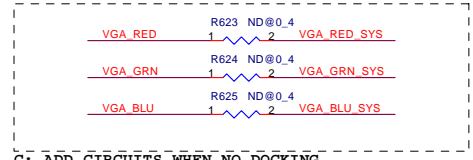
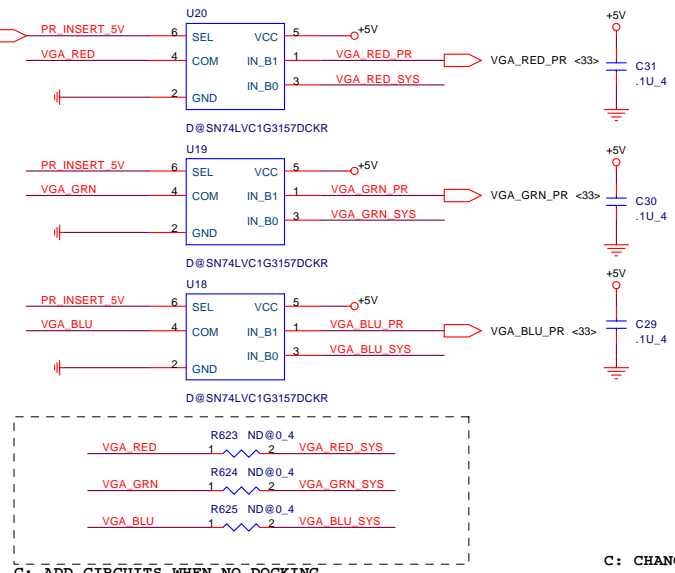




- <6> INT_TV_Y/G I@0.4 TV_Y/G R416
- <6> INT_TV_C/R I@0.4 TV_C/R R417
- <6> INT_TV_COMP I@0.4 TV_COMP R415
- <11> EXT_TV_Y/G E@0.4 TV_Y/G R404
- <11> EXT_TV_C/R E@0.4 TV_C/R R405
- <11> EXT_TV_COMP E@0.4 TV_COMP R403

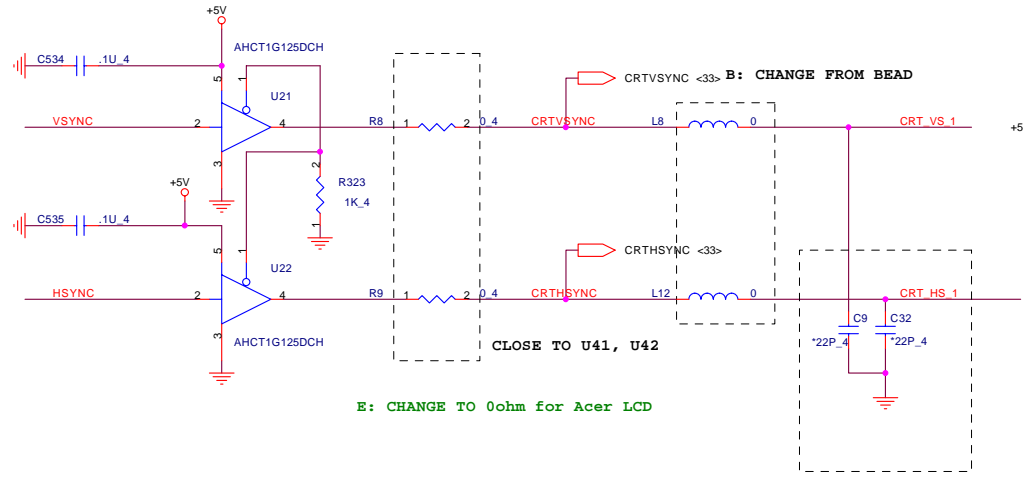
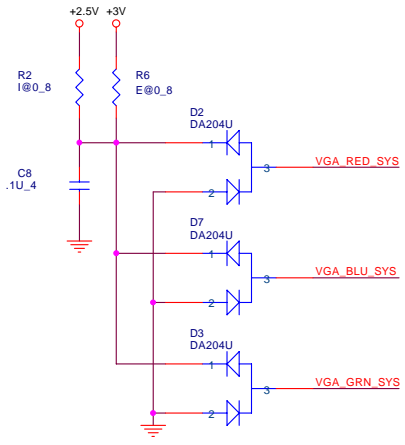
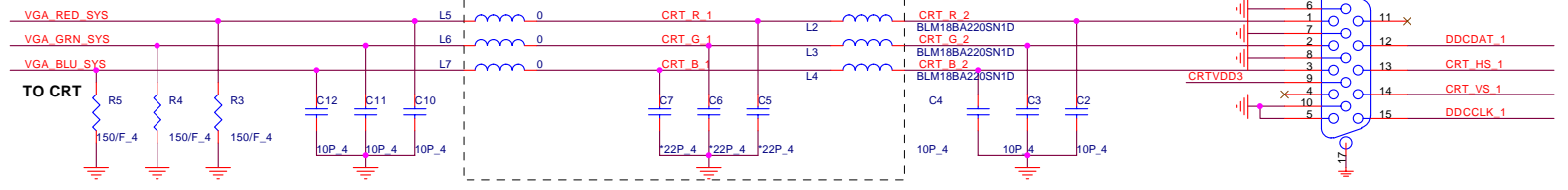


SEL	FUNCTION
LOW	IN_B0
HIGH	IN_B1

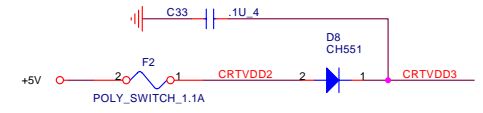
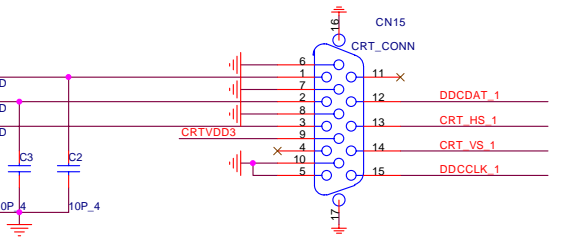
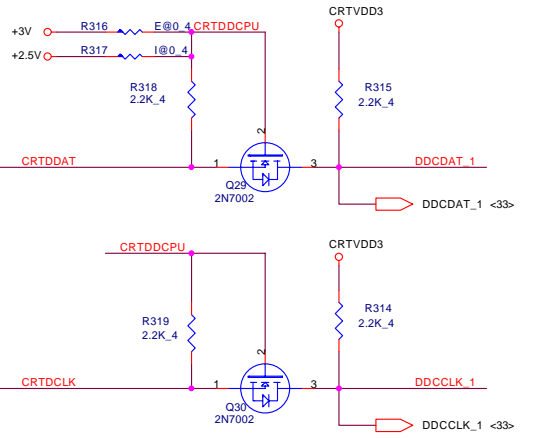


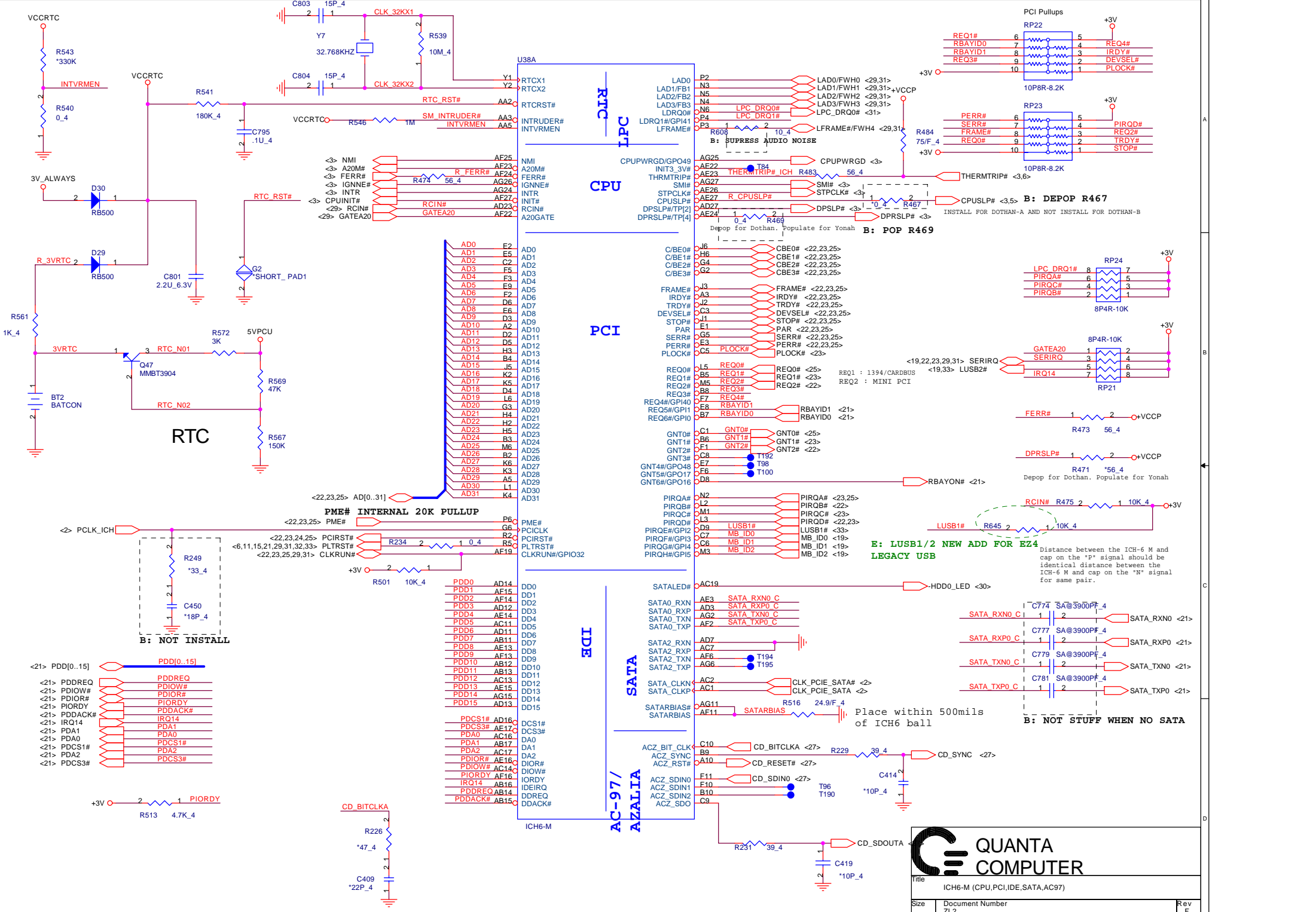
C: ADD CIRCUITS WHEN NO DOCKING

C: CHANGE VALUES



E: CHANGE TO 0ohm for Acer LCD





RTC

CPU

PCI

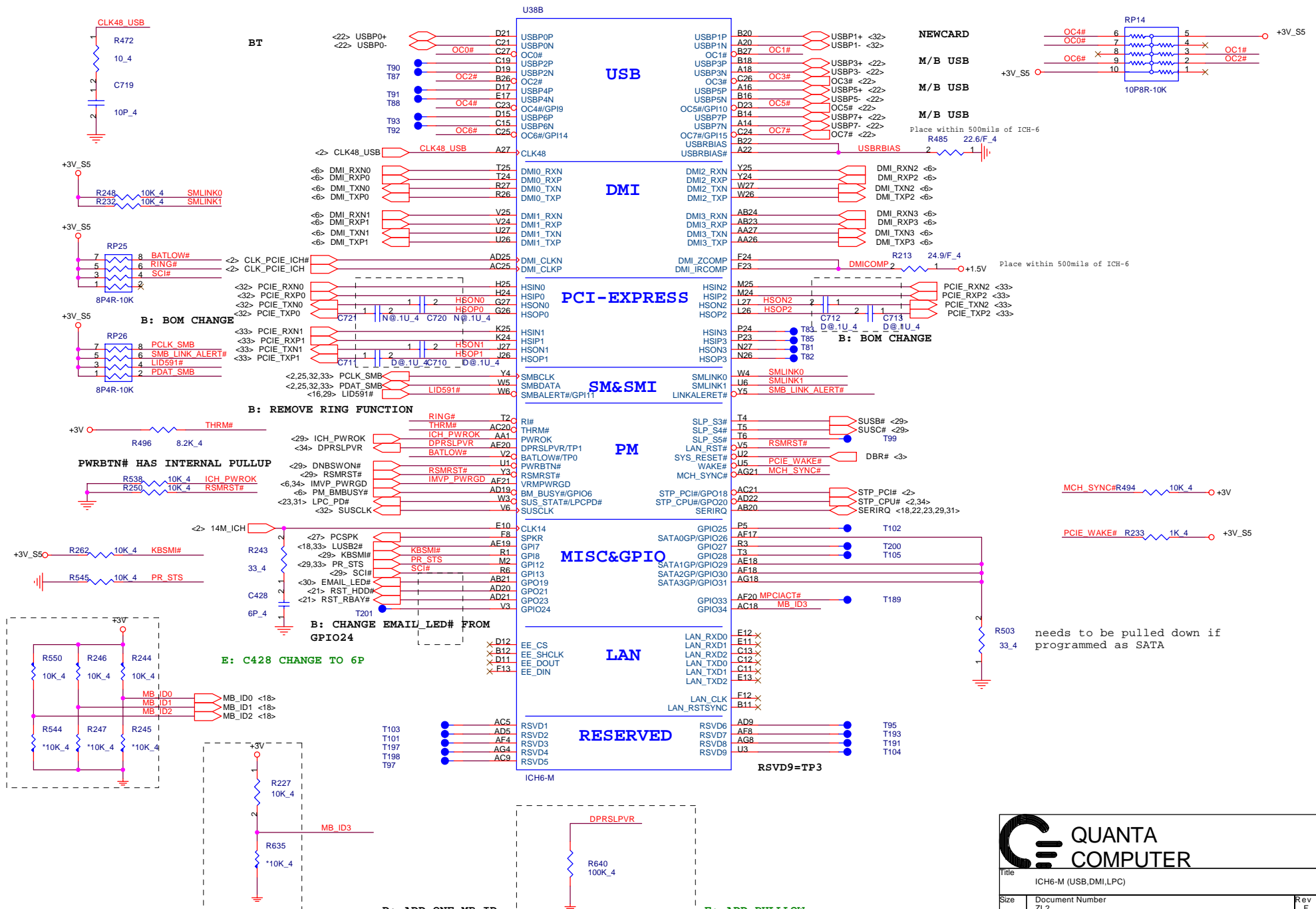
IDE

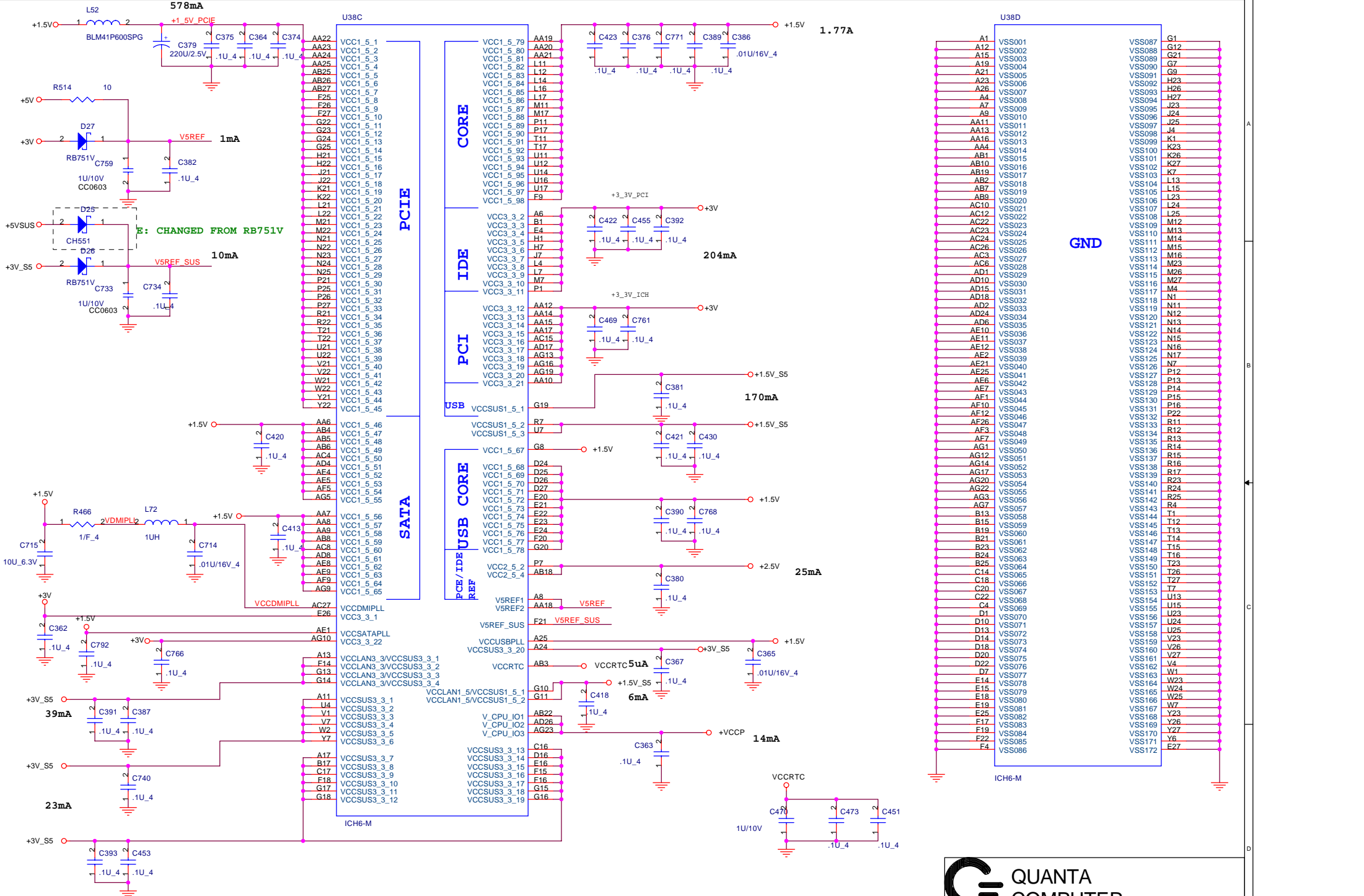
SATA
AC-97/
AZALIA

B: NOT INSTALL

B: NOT STUFF WHEN NO SATA

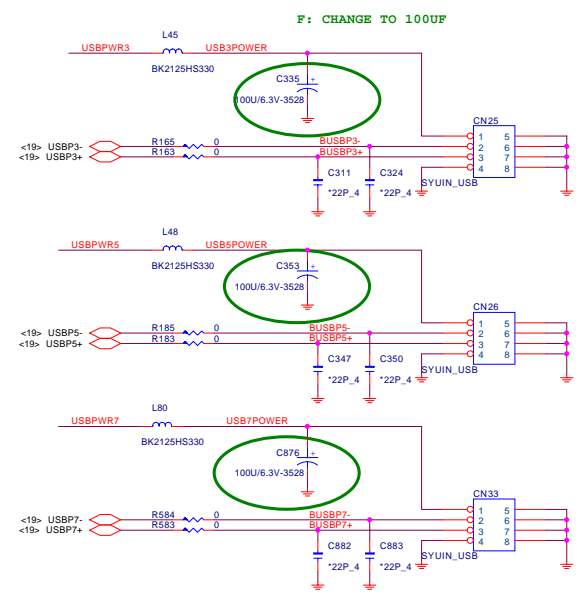
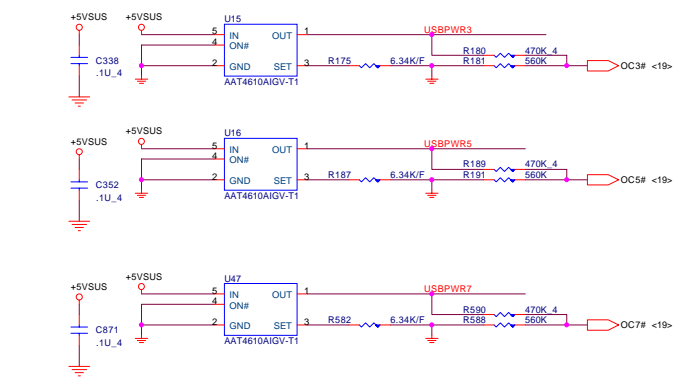
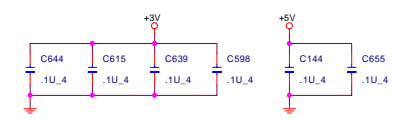
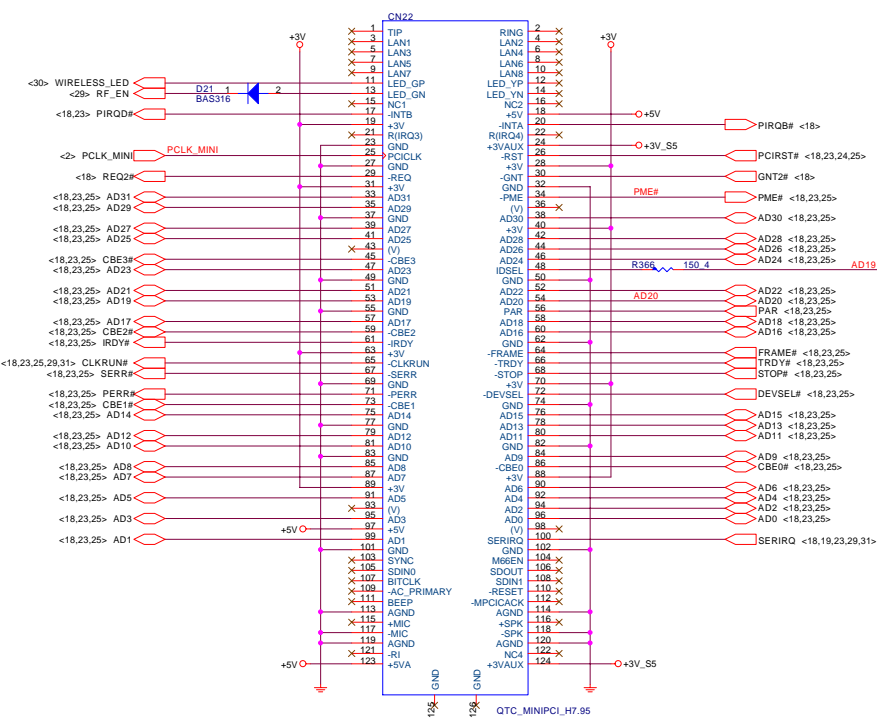




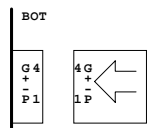
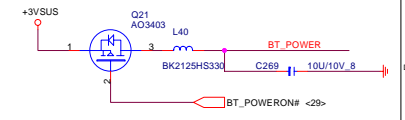
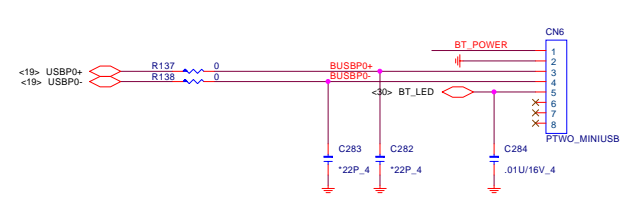


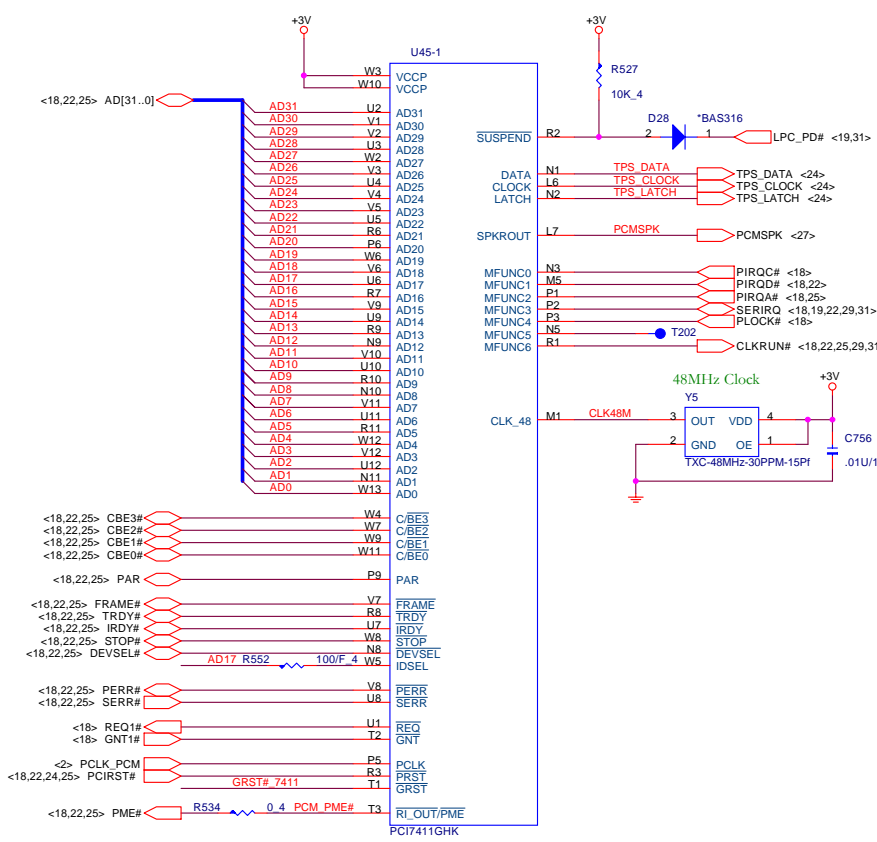
ID Select : AD20
 Interrupt Pin : INTB# , INTC#
 Request Indicate : REQ1#
 Grant Indicate : GNT1#

MINI-PCI

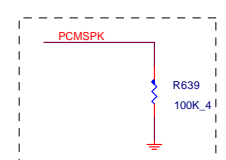


B: REMOVE CHOKE PADS

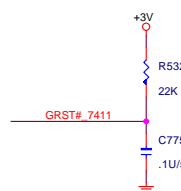




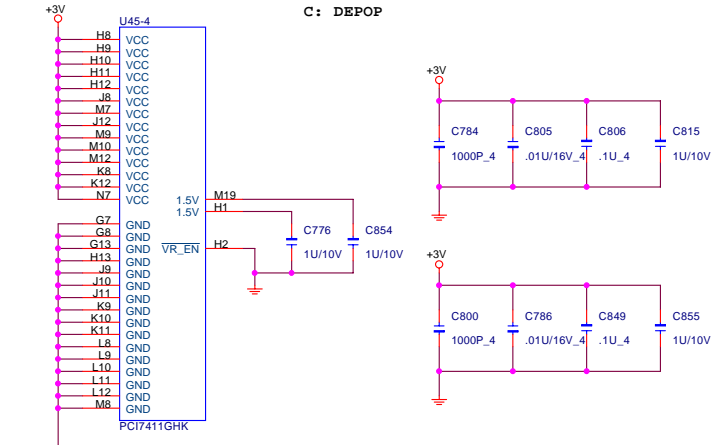
B: REMOVE RING FUNCTION



E: ADD PULL-LOW

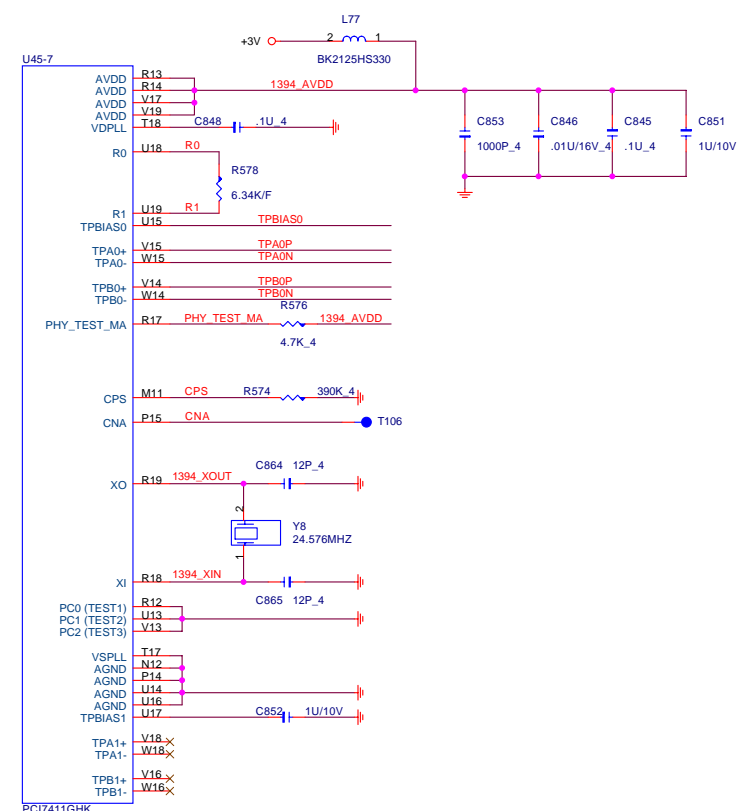


C: DEPOP

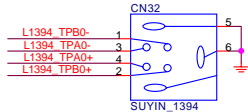
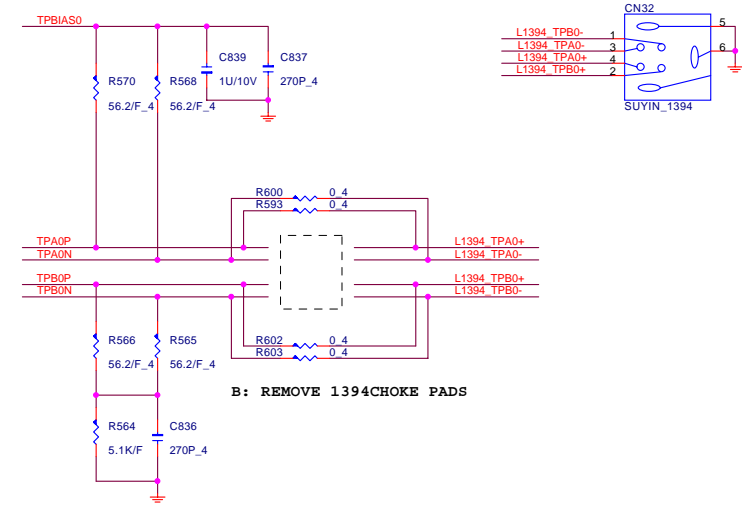


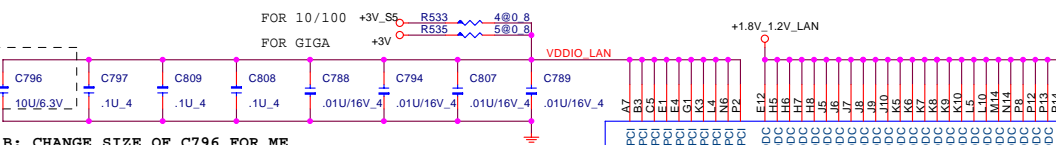
IF EEPROM NOT USE , CLK & DAT PULL DOWN

2ND SOURCE: AKE3L8S0A03



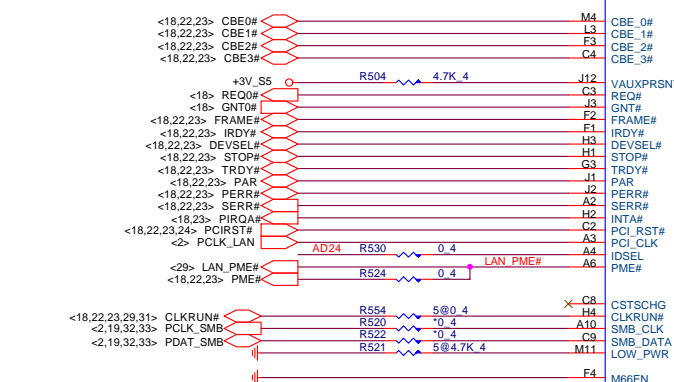
B: REMOVE 1394CHOKE PADS



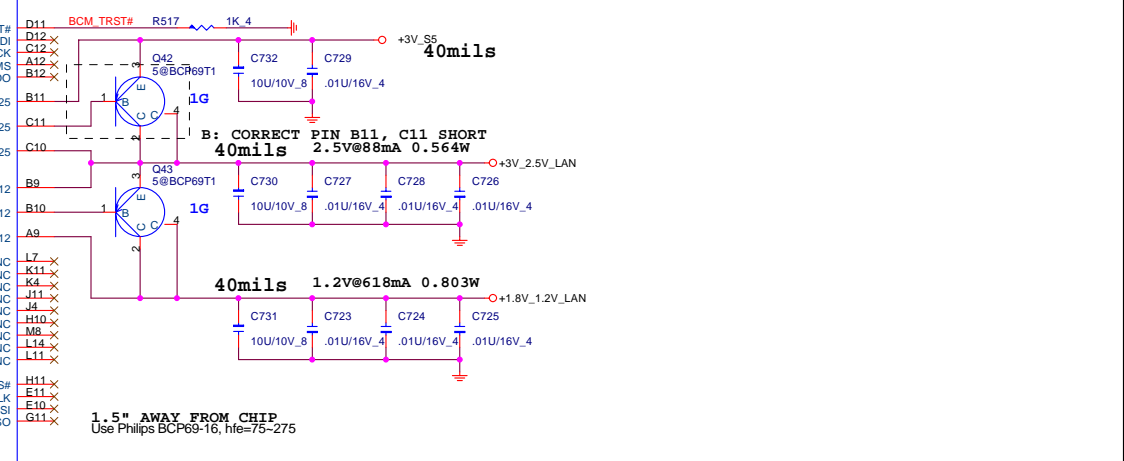
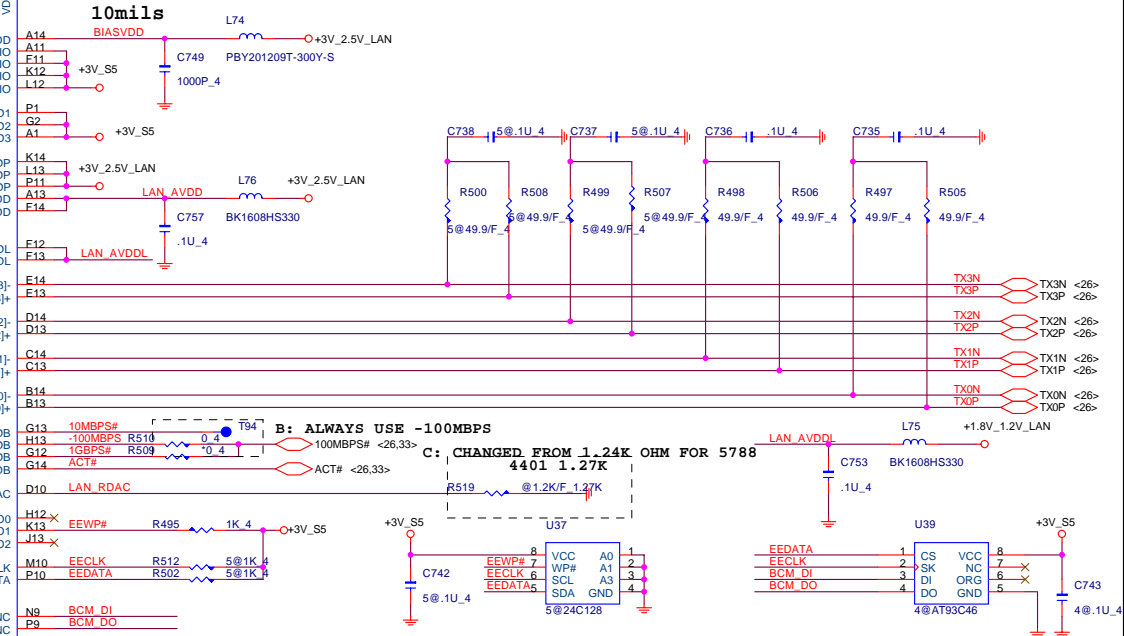
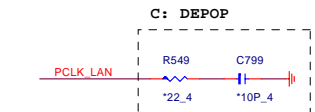
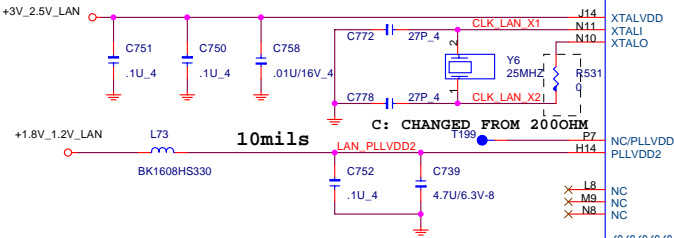


Voltage Rail

4401	5702	5705M
VDDIO_PCI	3V_S5	+3V
+3V_2.5V_LAN	3.3V	2.5V
+1.8V_1.2V_LAN	1.8V	1.2V



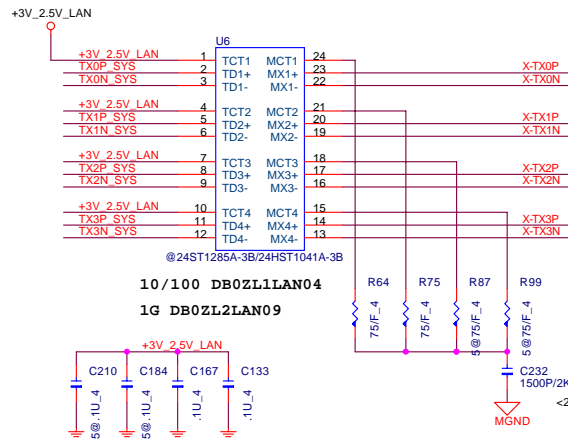
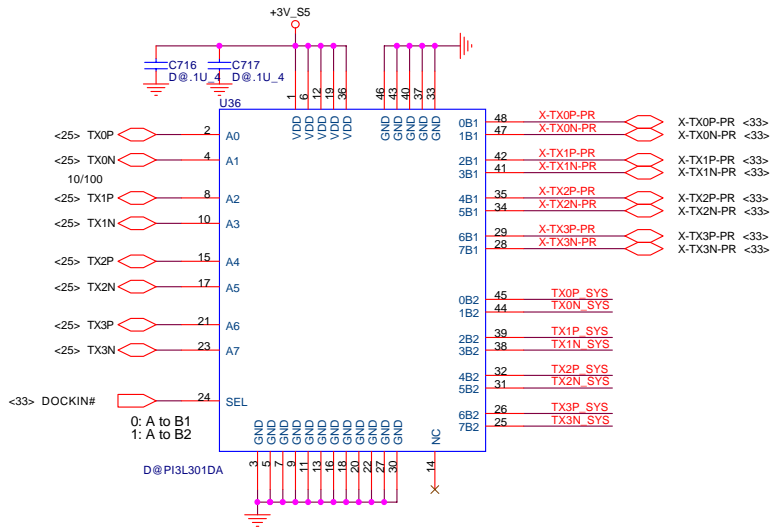
**15mm x 15mm
BGA196**



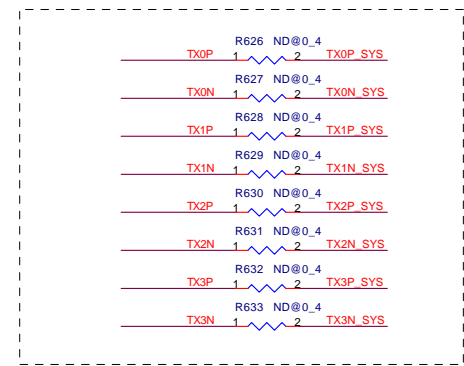
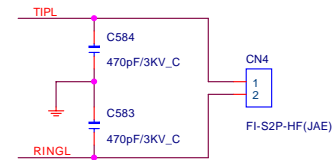
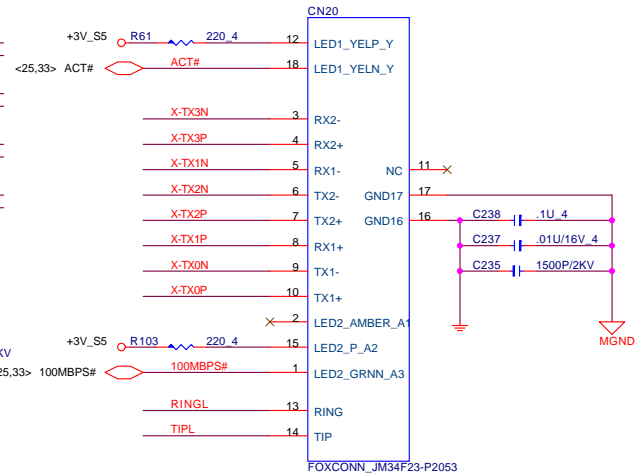
BCM4401 is for 10/100(1.8)
BCM5702 is for giga
BCM5705M is for giga cost-down(12)

PROJECT : ZL2
Quanta Computer Inc.

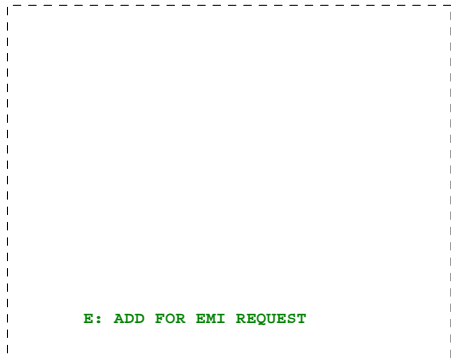
Size	Document Number	Rev
	BCM4401/5705M LAN	F
Date:	Tuesday, December 21, 2004	Sheet 25 of 41



B: DEPOP C210, C184, R87, R99 WHEN NO 1G LAN

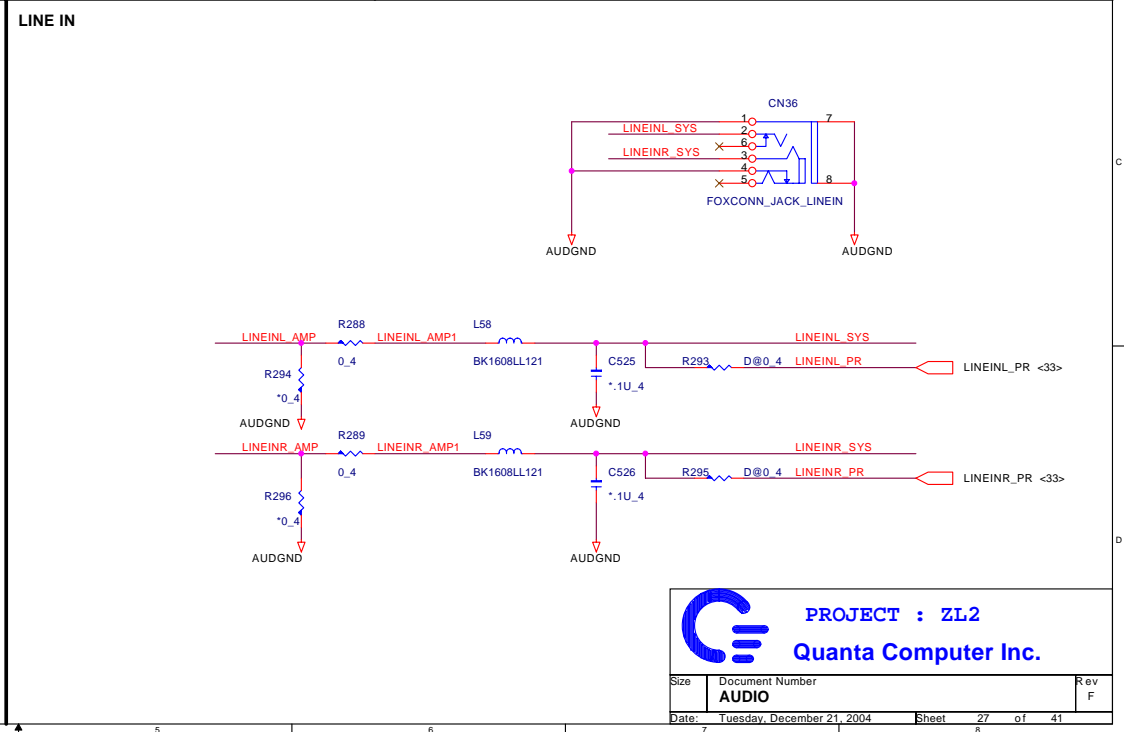
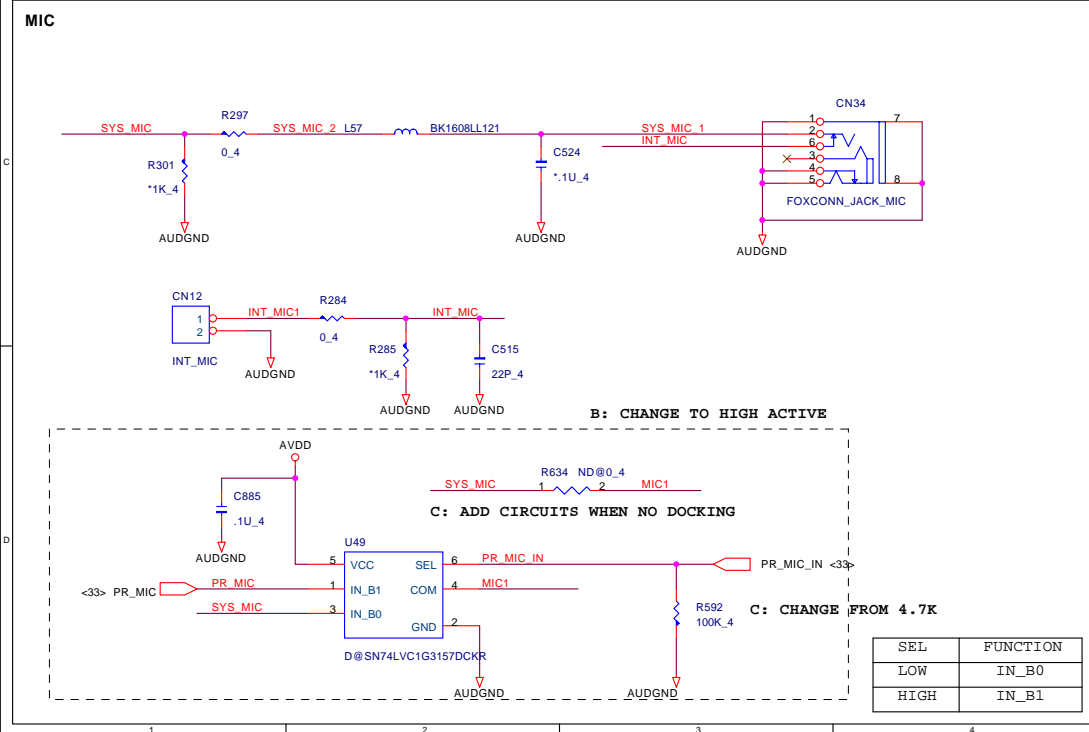
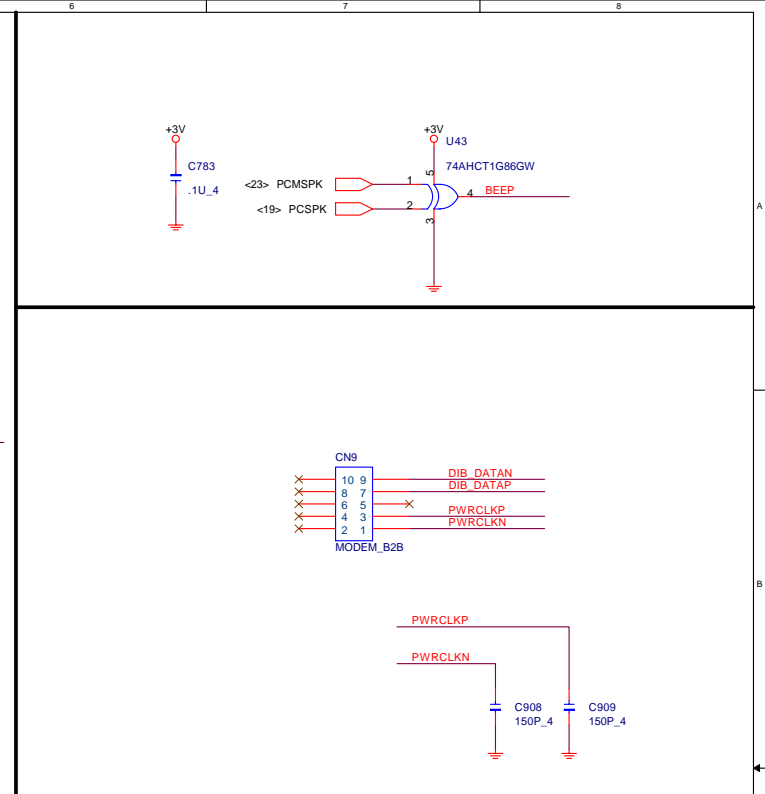
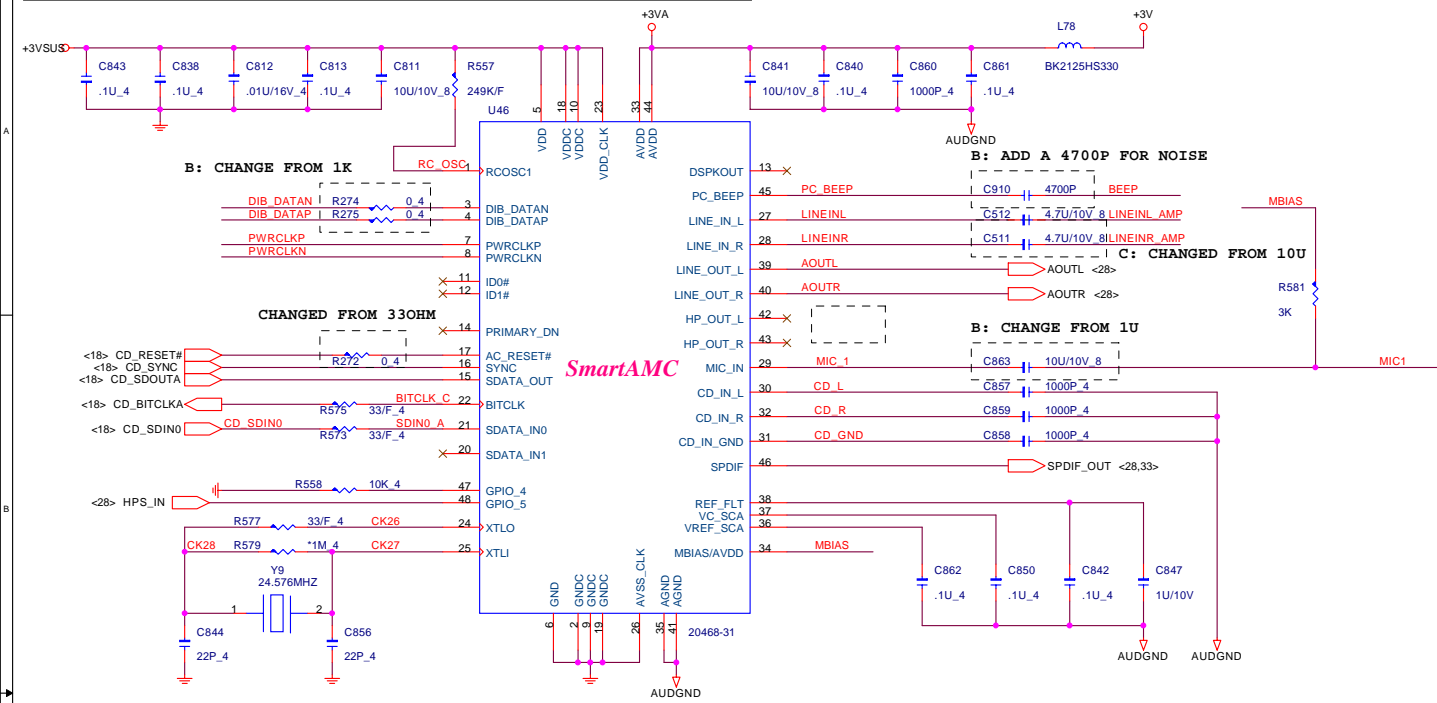


C: ADD CIRCUITS WHEN NO DOCKING



E: ADD FOR EMI REQUEST

The AMC20463-004 modem is used for mother board family MBAMC20463-004.

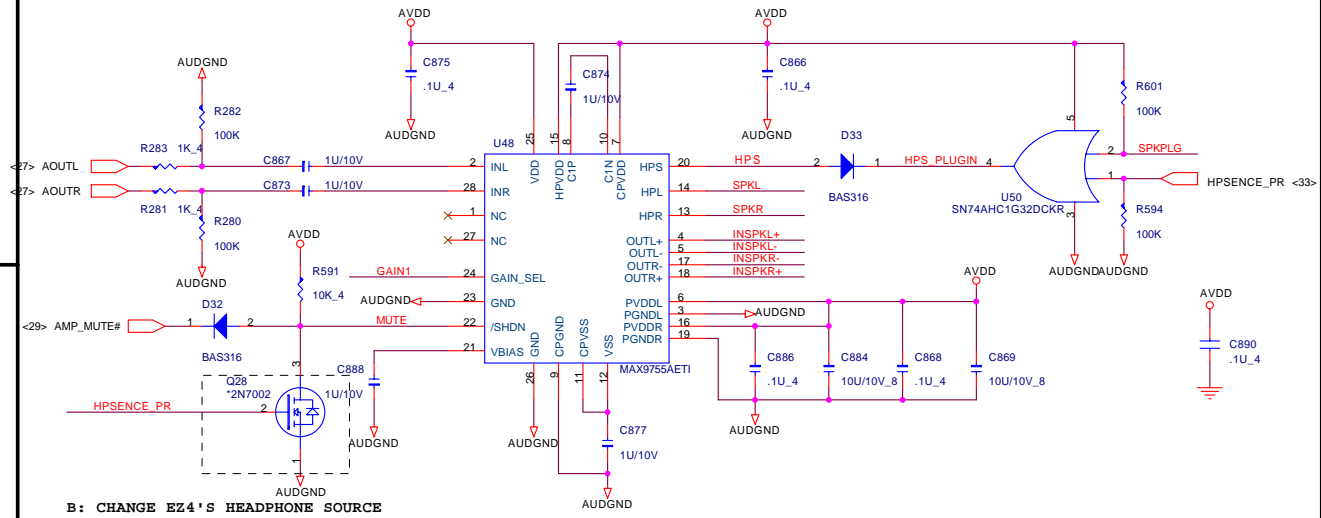
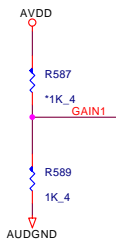


PROJECT : ZL2
Quanta Computer Inc.

Size: Document Number
AUDIO

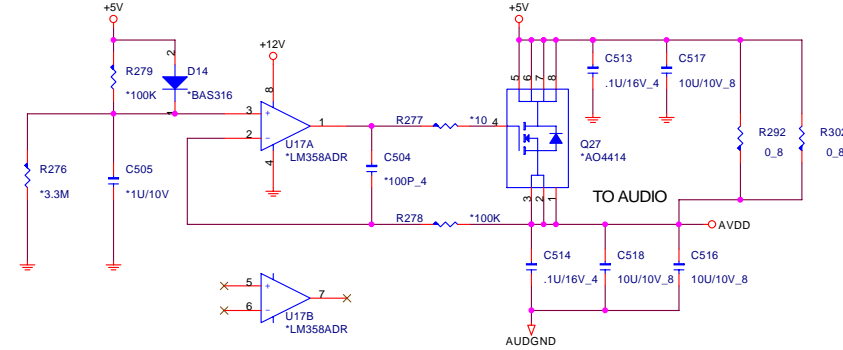
Date: Tuesday, December 21, 2004 Sheet 27 of 41

GAIN1	SPKR MODE	HP MODE
0	10.5	3
1	9	0

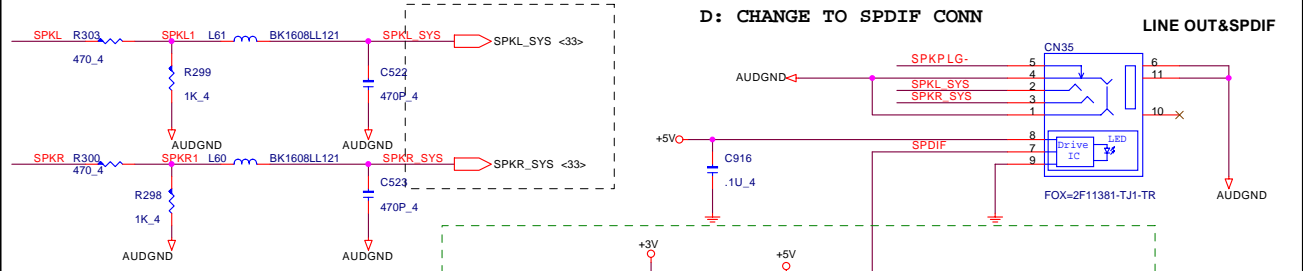
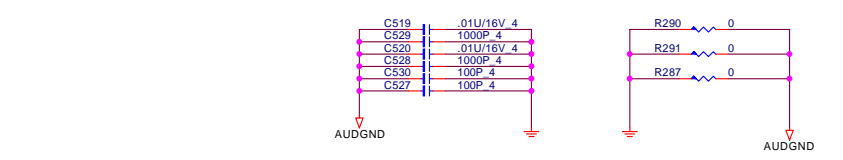
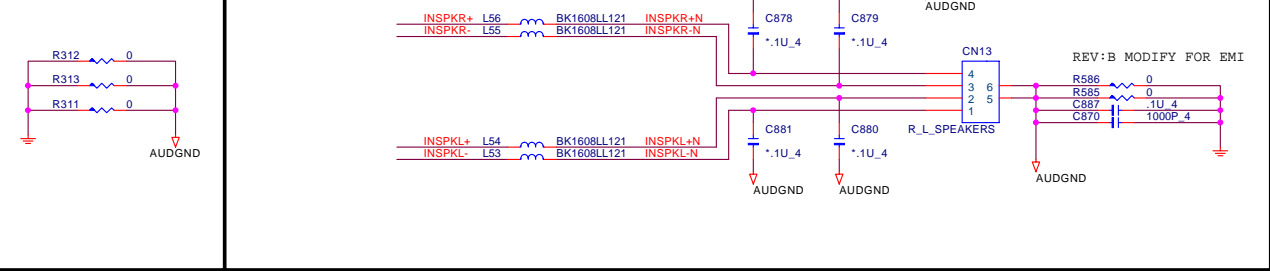


B: CHANGE EZ4'S HEADPHONE SOURCE

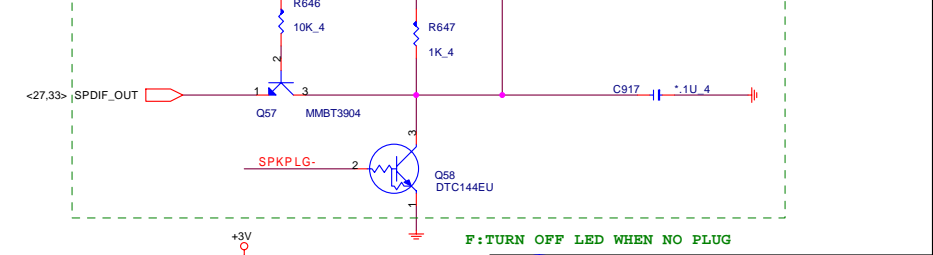
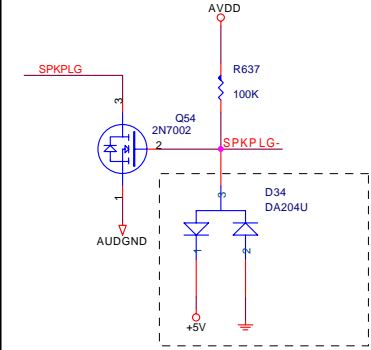
AMP POWER



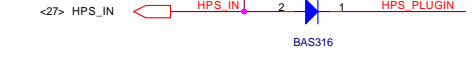
SPEAKER CON.



B: CHANGE EZ4'S HEADPHONE SOURCE



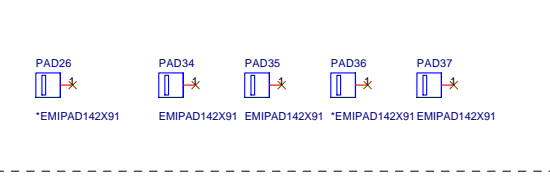
F: NEW ADD FOR ESD CLOSE TO CN35



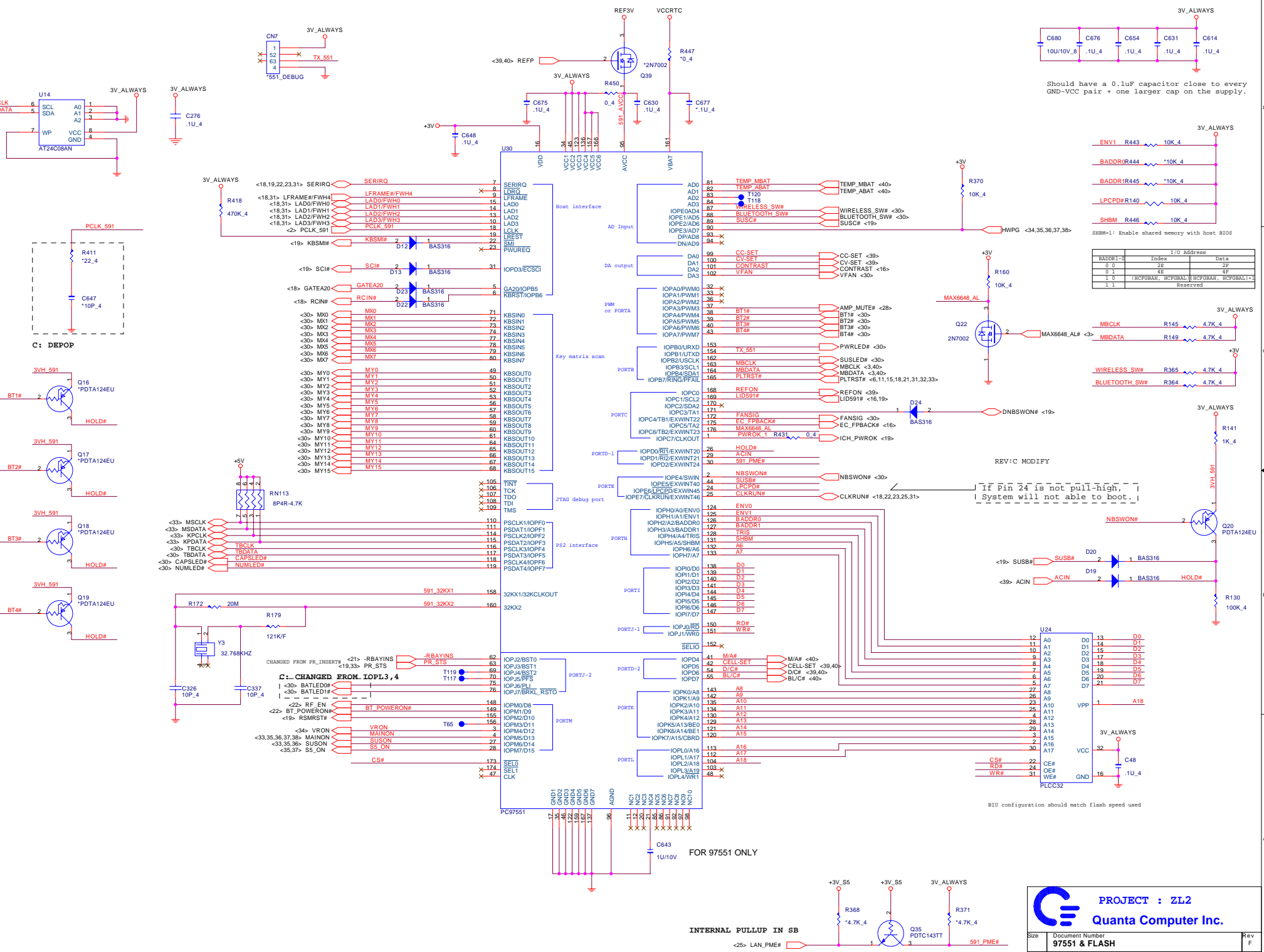
PROJECT : ZL2
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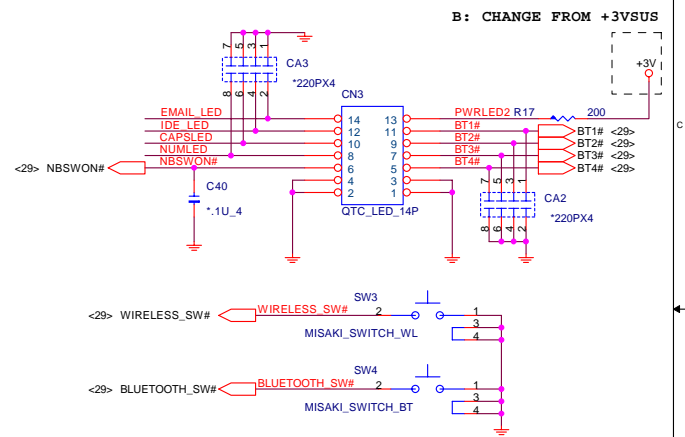
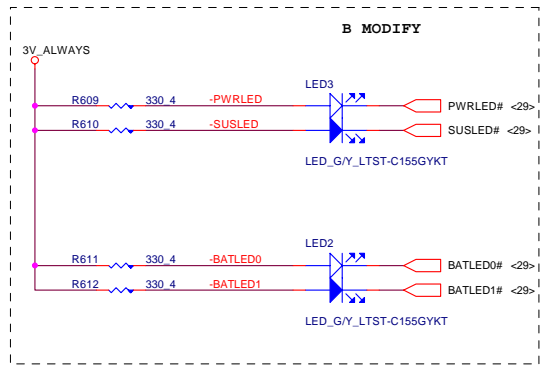
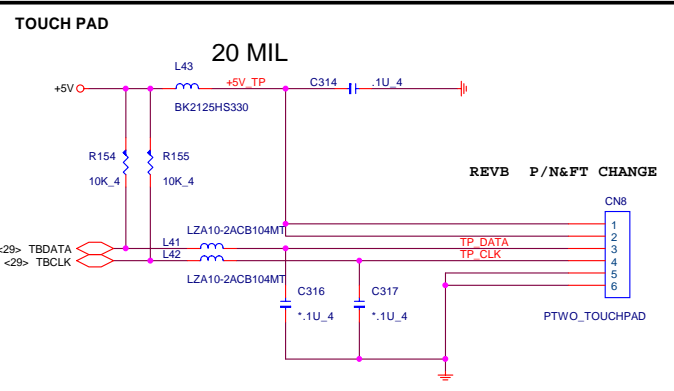
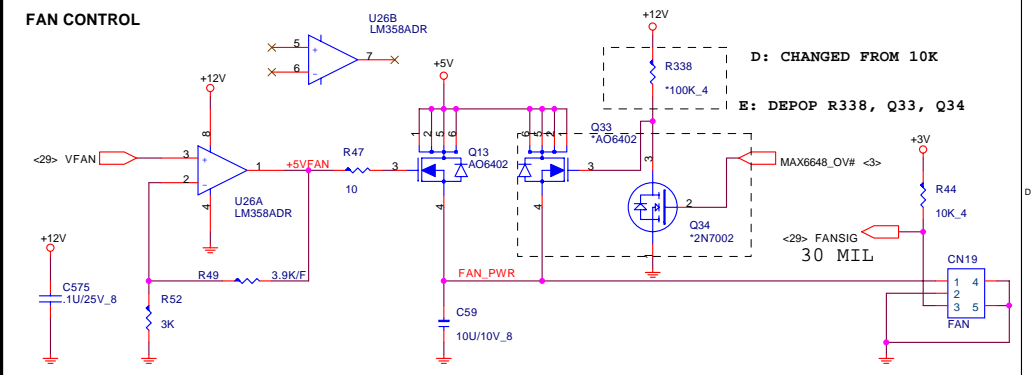
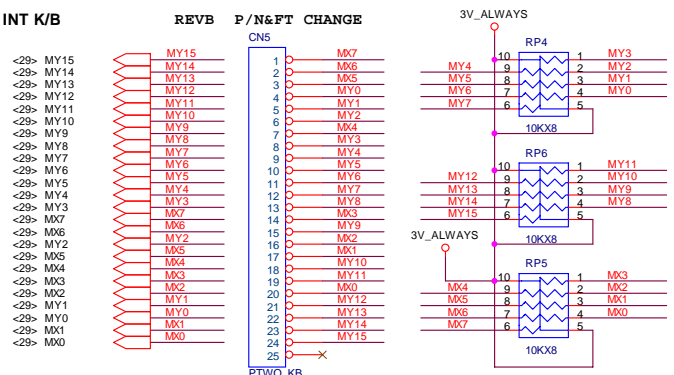
Size	Document Number	Rev
	AUDIO AMP	F
Date:	Tuesday, December 21, 2004	Sheet 28 of 41

- F: RESTORE PAD26 FOR EMI REQUEST
- E: REMOVE PAD26, AND PAD35 CHANGE LOCATION
- B: ADD SPRING FOR MODEM CABLE

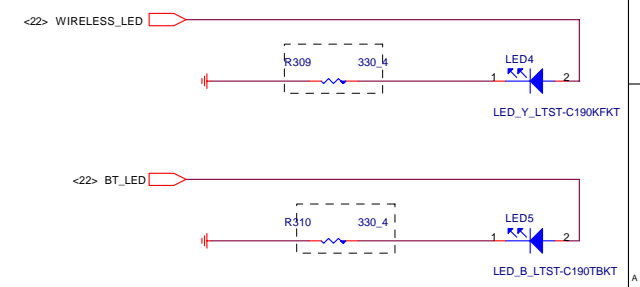
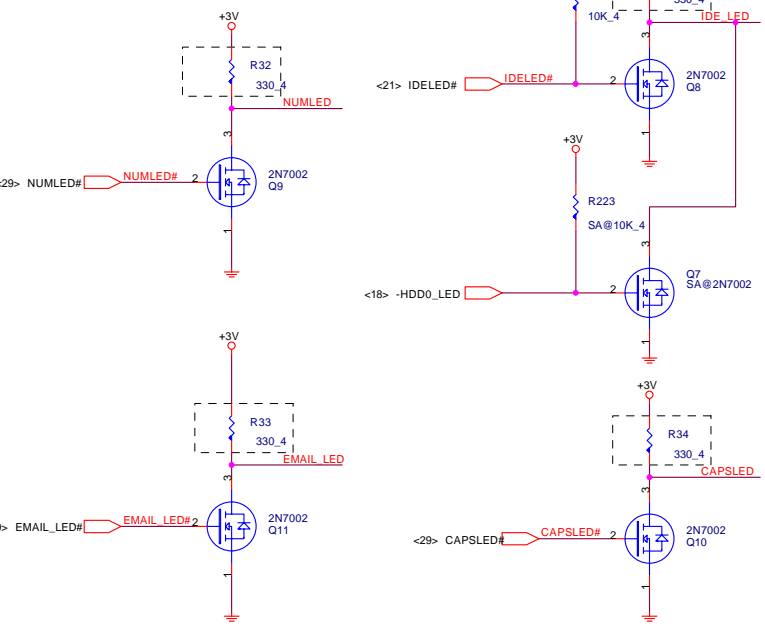


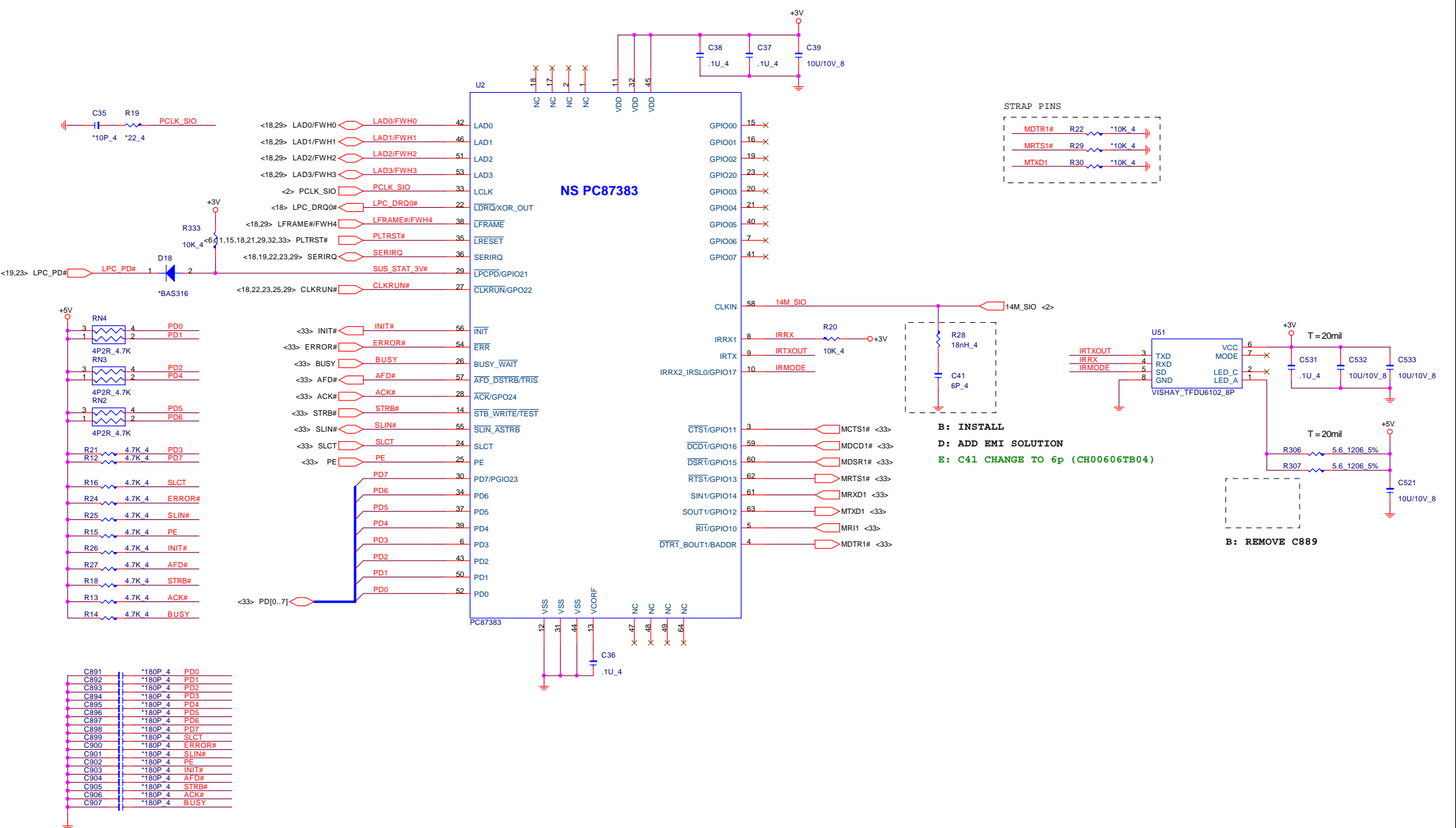
LDRQ#(pin 8) internal is no use





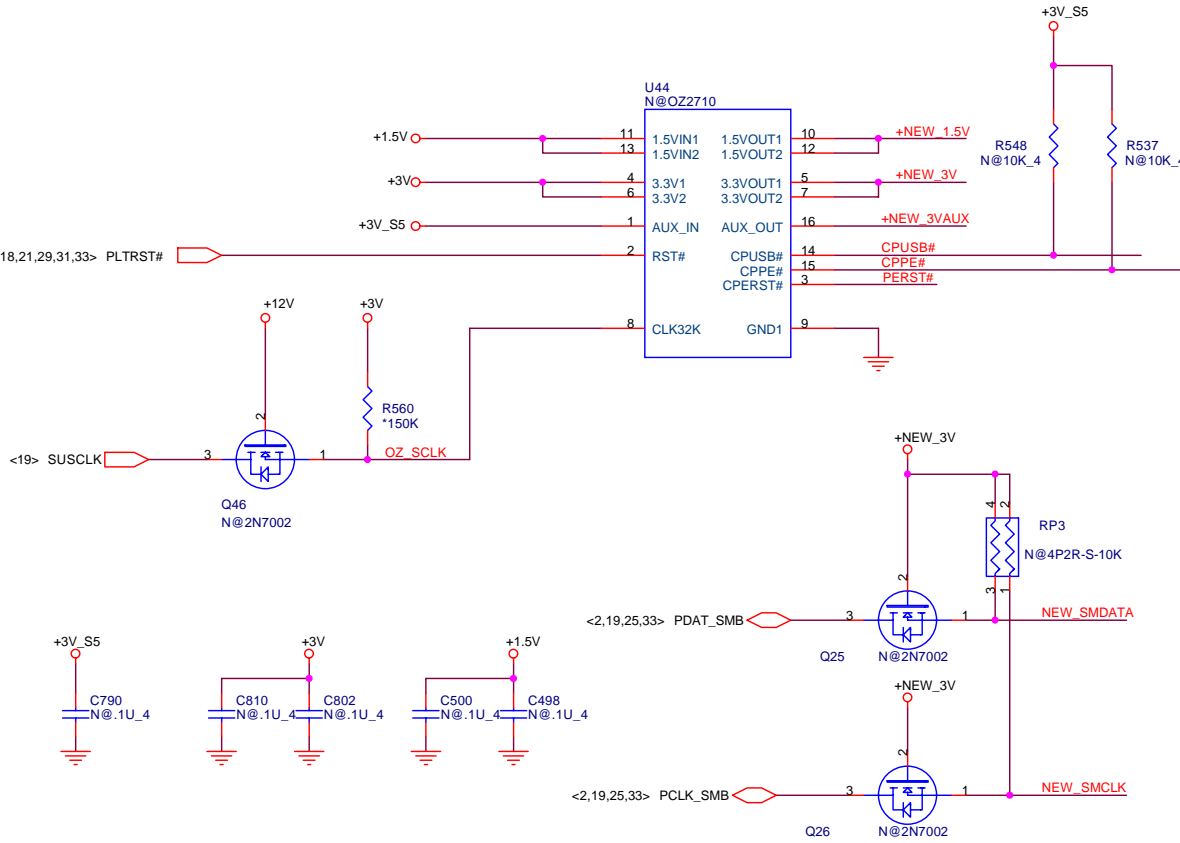
B CHANGE LED RESISTORS FROM 200 TO 680 OHM



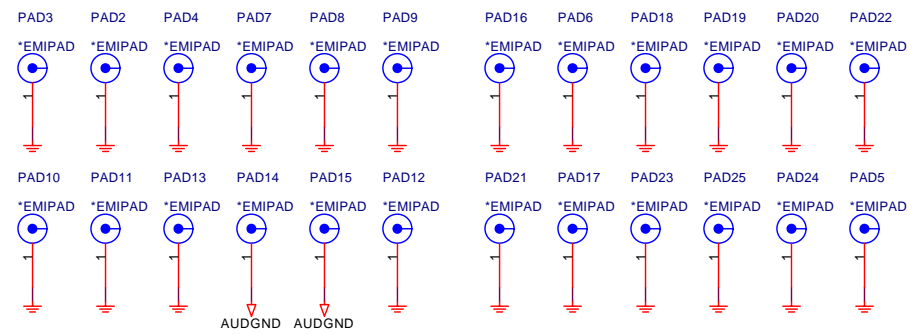
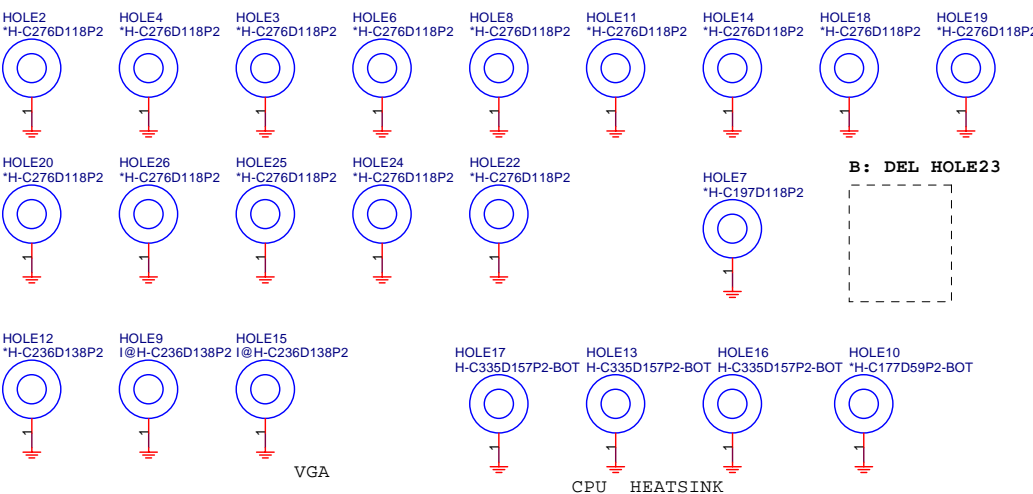
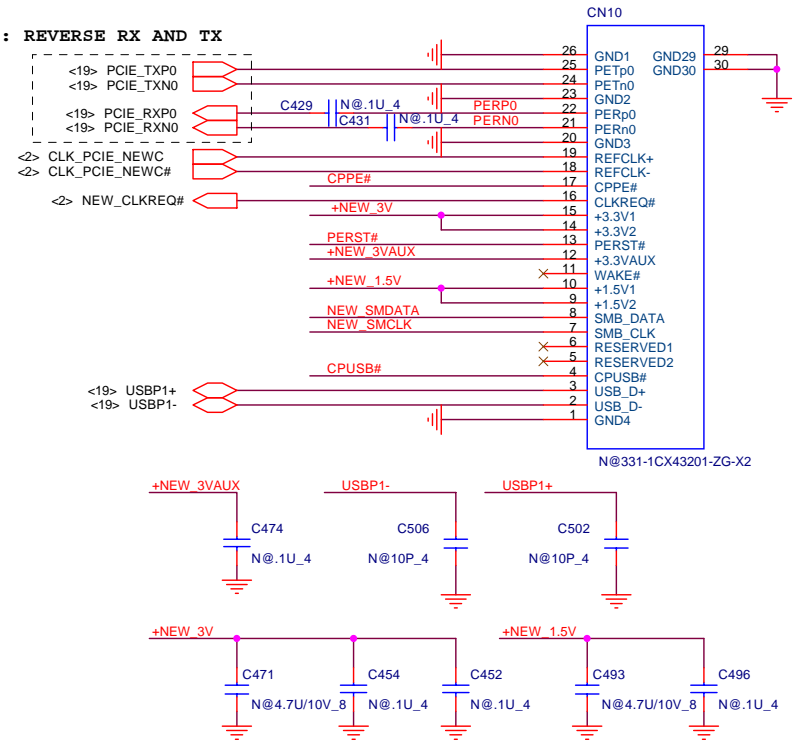


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	EZ PORT & SIO (87383)	F
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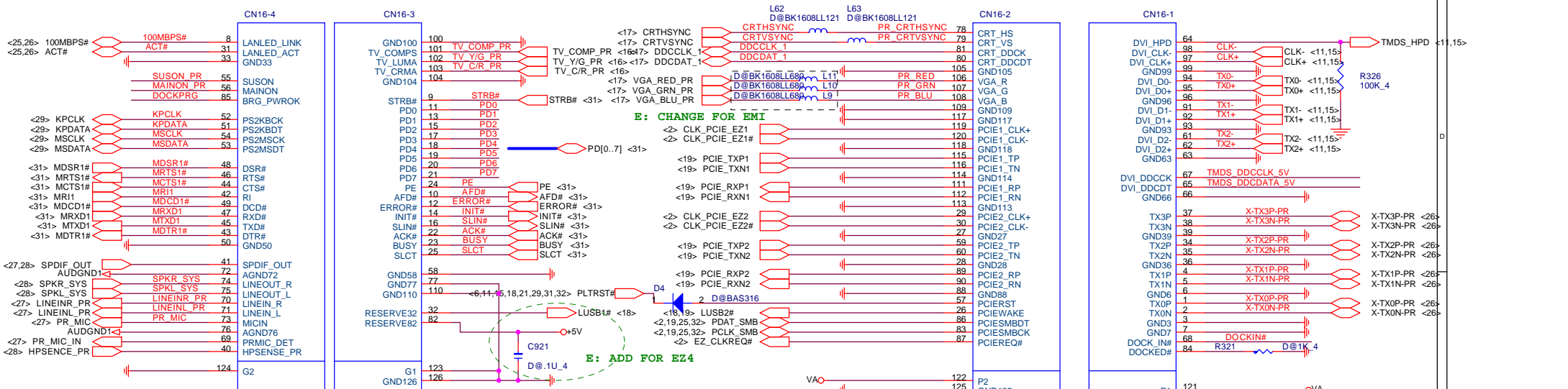


E: REVERSE RX AND TX

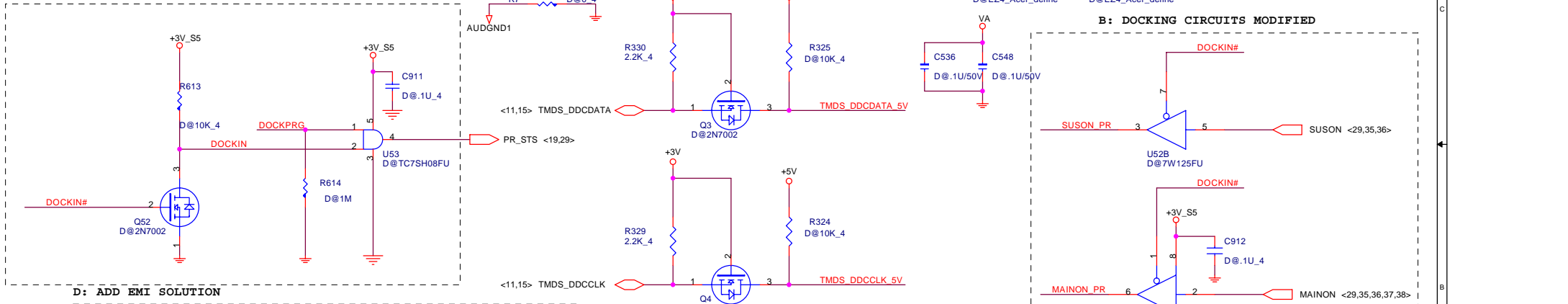


PROJECT : ZL2
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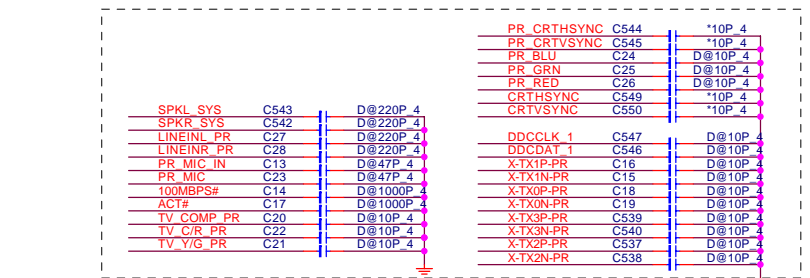
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	EZ PORT & SIO (87383)	F
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B: DOCKING CIRCUITS MODIFIED

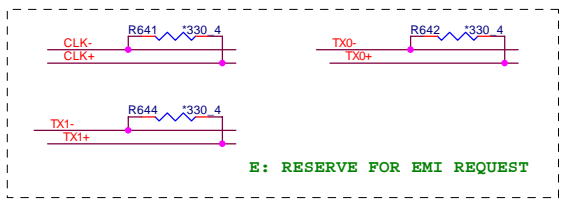
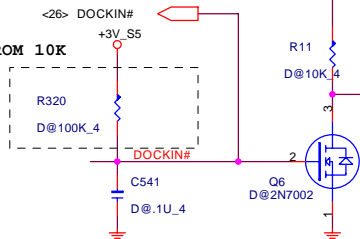


D: ADD EMI SOLUTION



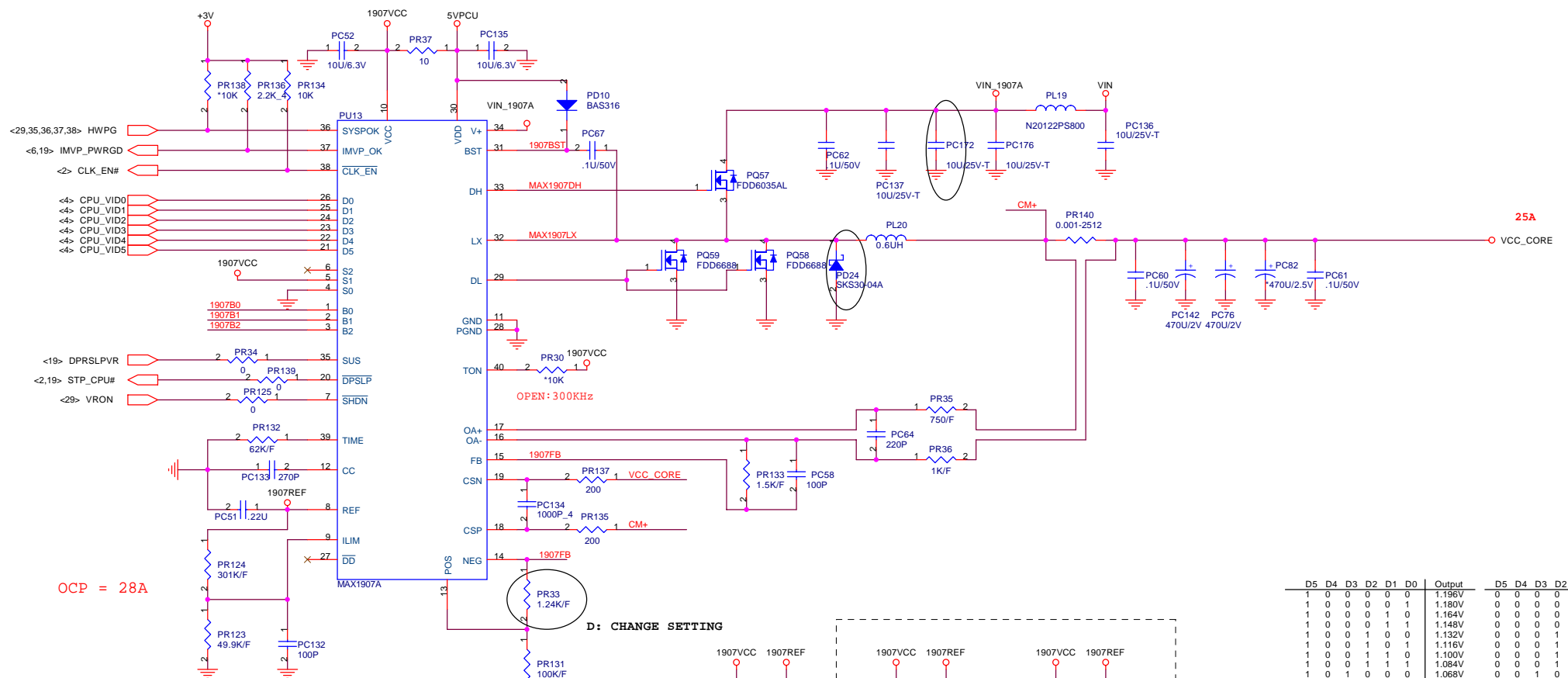
E: POP C24,25,26 FOR EMI

B: CHANGED FROM 10K



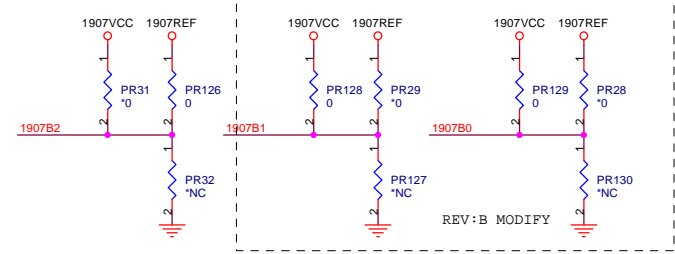
E: RESERVE FOR EMI REQUEST

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OCP = 28A

D: CHANGE SETTING



D: CHANGE SETTING

SUSPEND MODE (SUS=HIGH)

S2	S1	S0	Output
✓ OPEN	VCC	GND	0.748V

VCC_BOOT

B2	B1	B0	Output
GND	GND	GND	1.708V
REF	REF	REF	1.372V
OPEN	OPEN	OPEN	1.036V
VCC	VCC	VCC	0.700V
✓ REF	VCC	VCC	1.212V

D5	D4	D3	D2	D1	D0	Output	D5	D4	D3	D2	D1	D0	Output
1	0	0	0	0	0	1.196V	0	0	0	0	0	0	1.708V
1	0	0	0	0	1	1.180V	0	0	0	0	0	1	1.692V
1	0	0	0	1	0	1.164V	0	0	0	0	1	0	1.676V
1	0	0	0	1	1	1.148V	0	0	0	0	1	1	1.660V
1	0	0	1	0	0	1.132V	0	0	0	1	0	0	1.644V
1	0	0	1	0	1	1.116V	0	0	0	1	0	1	1.628V
1	0	0	1	1	0	1.100V	0	0	0	1	1	0	1.612V
1	0	0	1	1	1	1.084V	0	0	0	1	1	1	1.596V
1	0	1	0	0	0	1.068V	0	0	1	0	0	0	1.580V
1	0	1	0	0	1	1.052V	0	0	1	0	0	1	1.564V
1	0	1	0	1	0	1.036V	0	0	1	0	1	0	1.548V
1	0	1	0	1	1	1.020V	0	0	1	0	1	1	1.532V
1	0	1	1	0	0	1.004V	0	0	1	1	0	0	1.516V
1	0	1	1	0	1	0.988V	0	0	1	1	0	1	1.500V
1	0	1	1	1	0	0.972V	0	0	1	1	1	0	1.484V
1	0	1	1	1	1	0.956V	0	0	1	1	1	1	1.468V
1	1	0	0	0	0	0.940V	0	1	0	0	0	0	1.452V
1	1	0	0	0	1	0.924V	0	1	0	0	1	0	1.436V
1	1	0	0	1	0	0.908V	0	1	0	0	1	0	1.420V
1	1	0	0	1	1	0.892V	0	1	0	1	0	1	1.404V
1	1	0	1	0	0	0.876V	0	1	0	1	0	0	1.388V
1	1	0	1	0	1	0.860V	0	1	0	1	0	1	1.372V
1	1	0	1	1	0	0.844V	0	1	0	1	1	0	1.356V
1	1	0	1	1	1	0.828V	0	1	0	1	1	1	1.340V
1	1	1	0	0	0	0.812V	0	1	1	0	0	0	1.324V
1	1	1	0	0	1	0.796V	0	1	1	0	0	1	1.308V
1	1	1	0	1	0	0.780V	0	1	1	0	1	0	1.292V
1	1	1	0	1	1	0.764V	0	1	1	0	1	1	1.276V
1	1	1	1	0	0	0.748V	0	1	1	1	0	0	1.260V
1	1	1	1	0	1	0.732V	0	1	1	1	0	1	1.244V
1	1	1	1	1	0	0.716V	0	1	1	1	1	0	1.228V
1	1	1	1	1	1	0.700V	0	1	1	1	1	1	1.212V

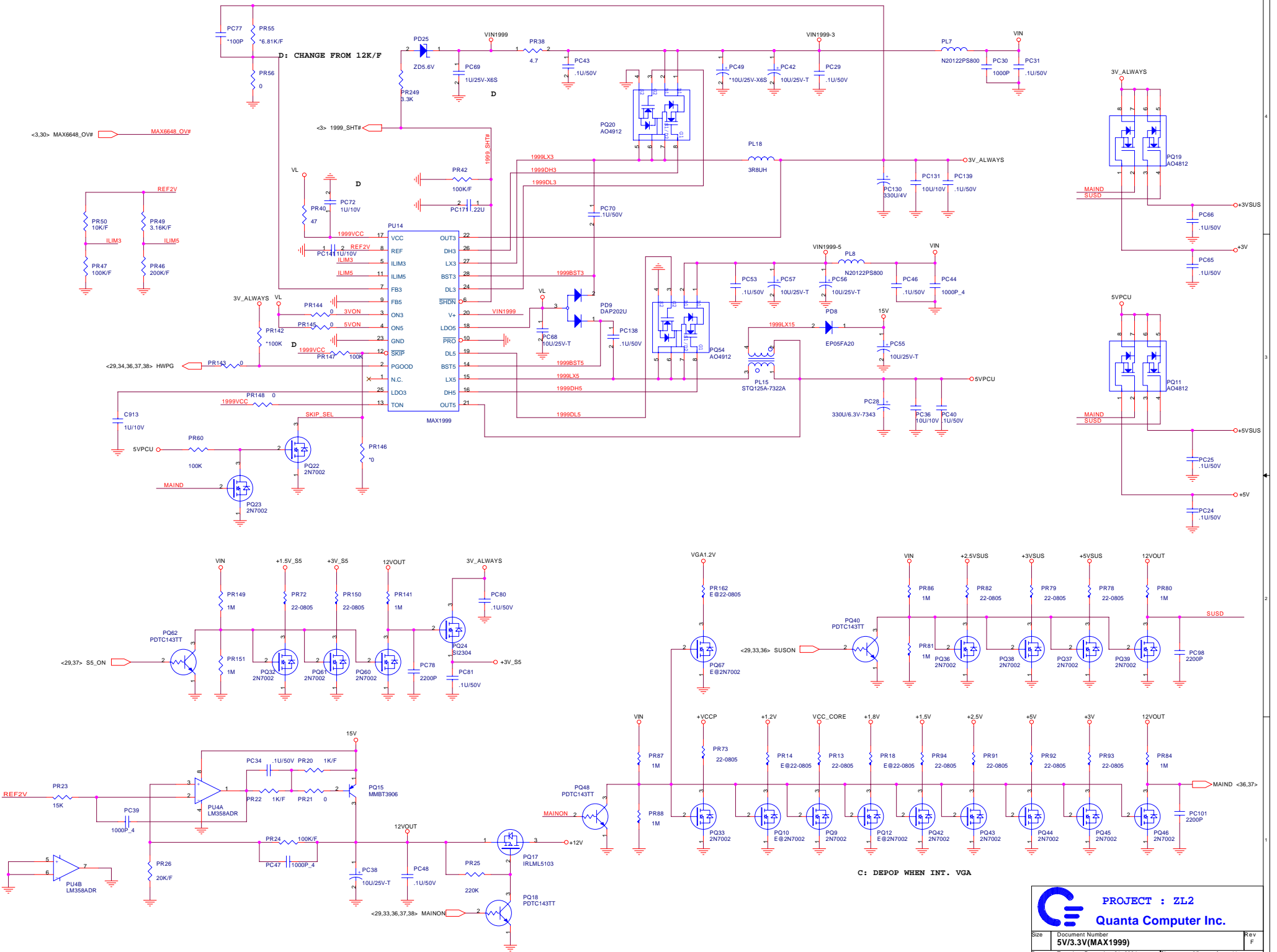
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<3.30> MAX6648_OV#

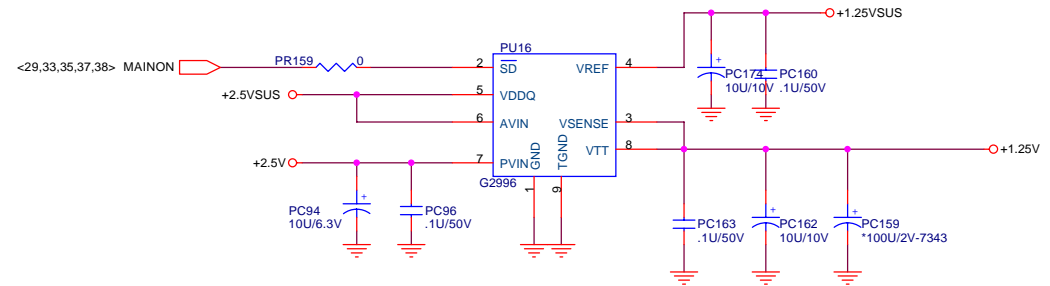
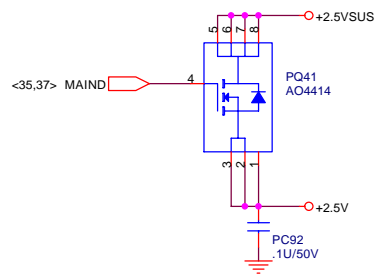
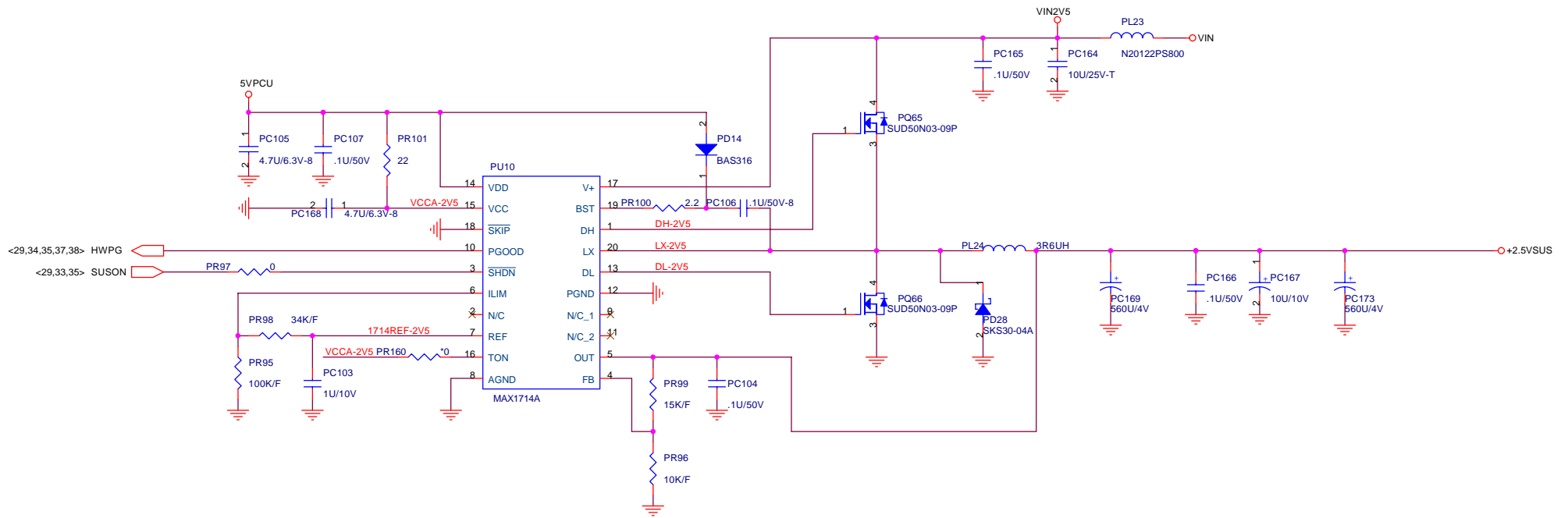
D: CHANGE FROM 12K/F

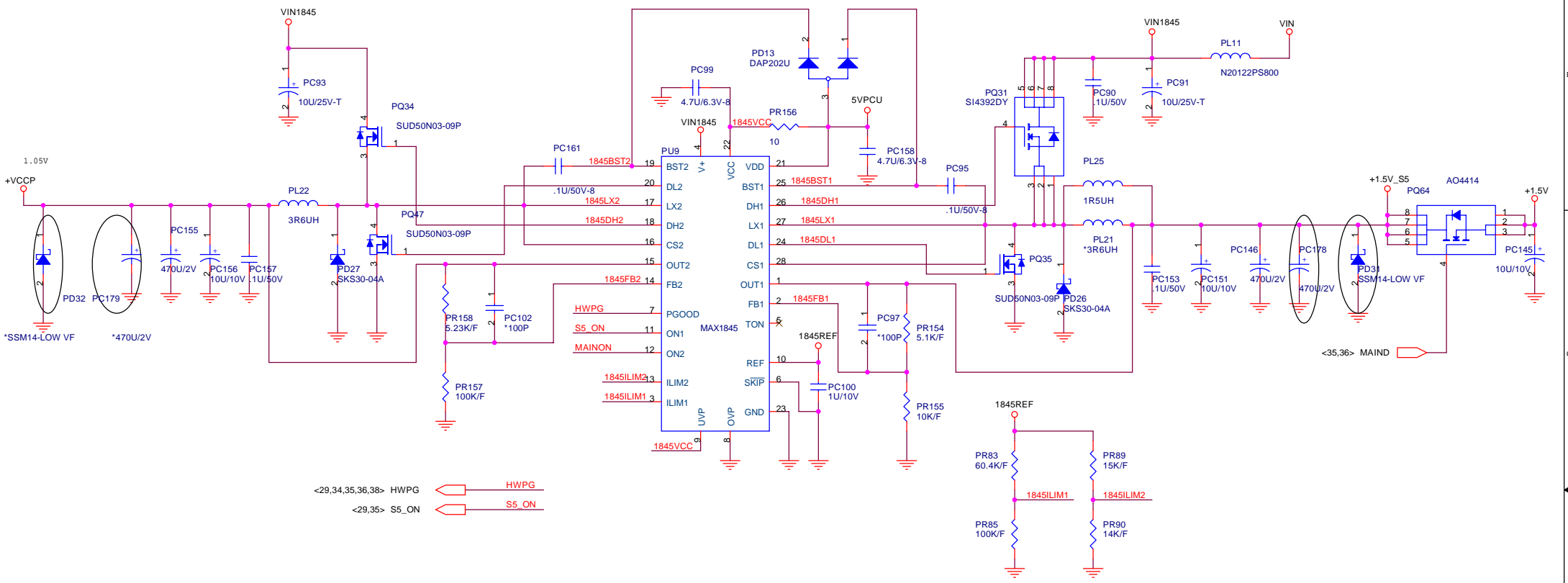


C: DEPOP WHEN INT. VGA

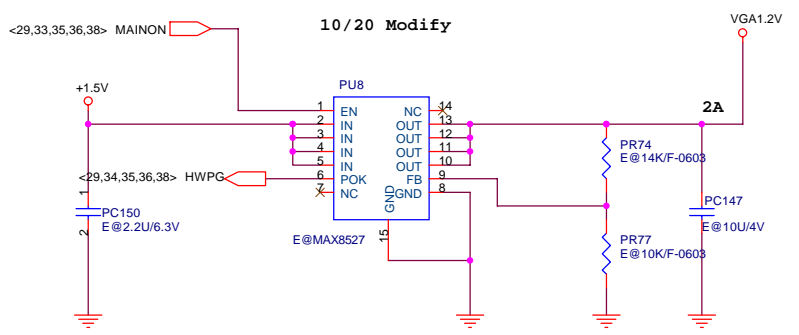
PROJECT : ZL2
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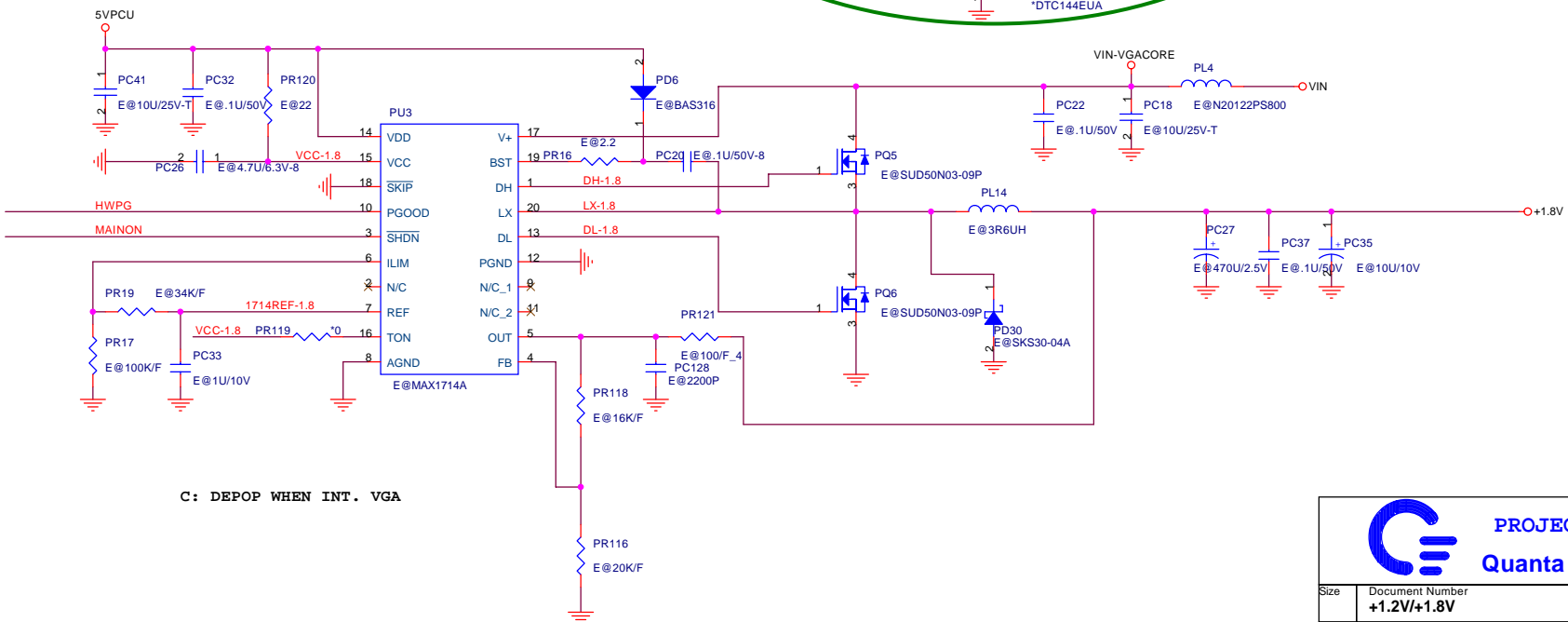
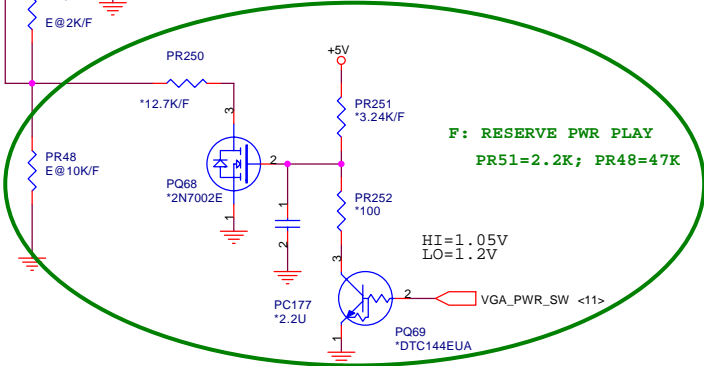
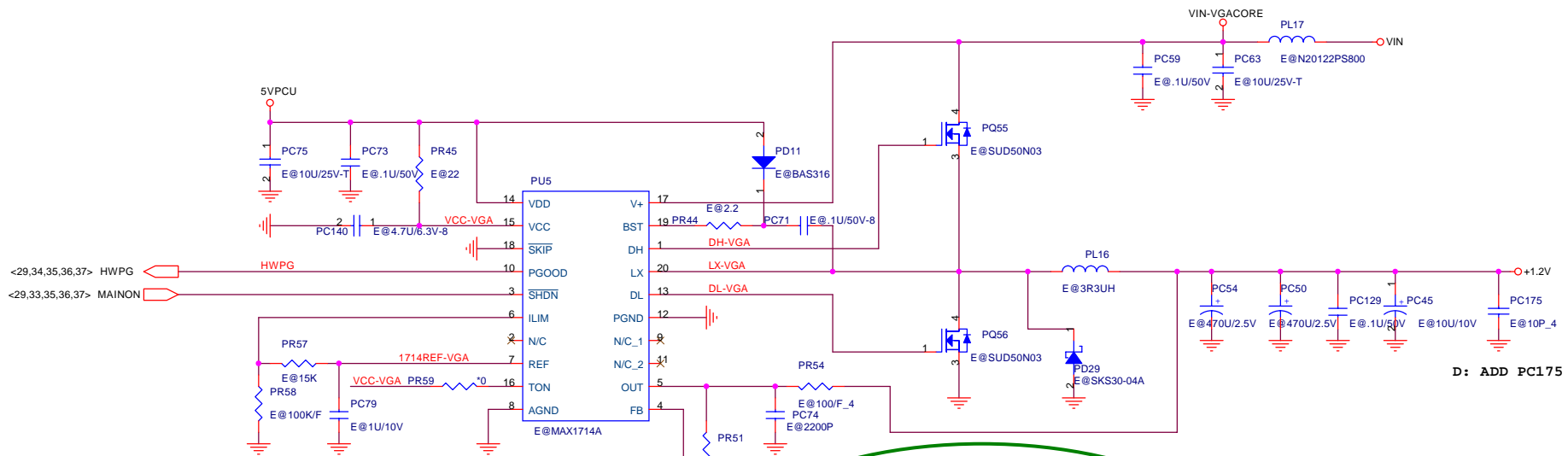
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5V/3.3V(MAX1999)
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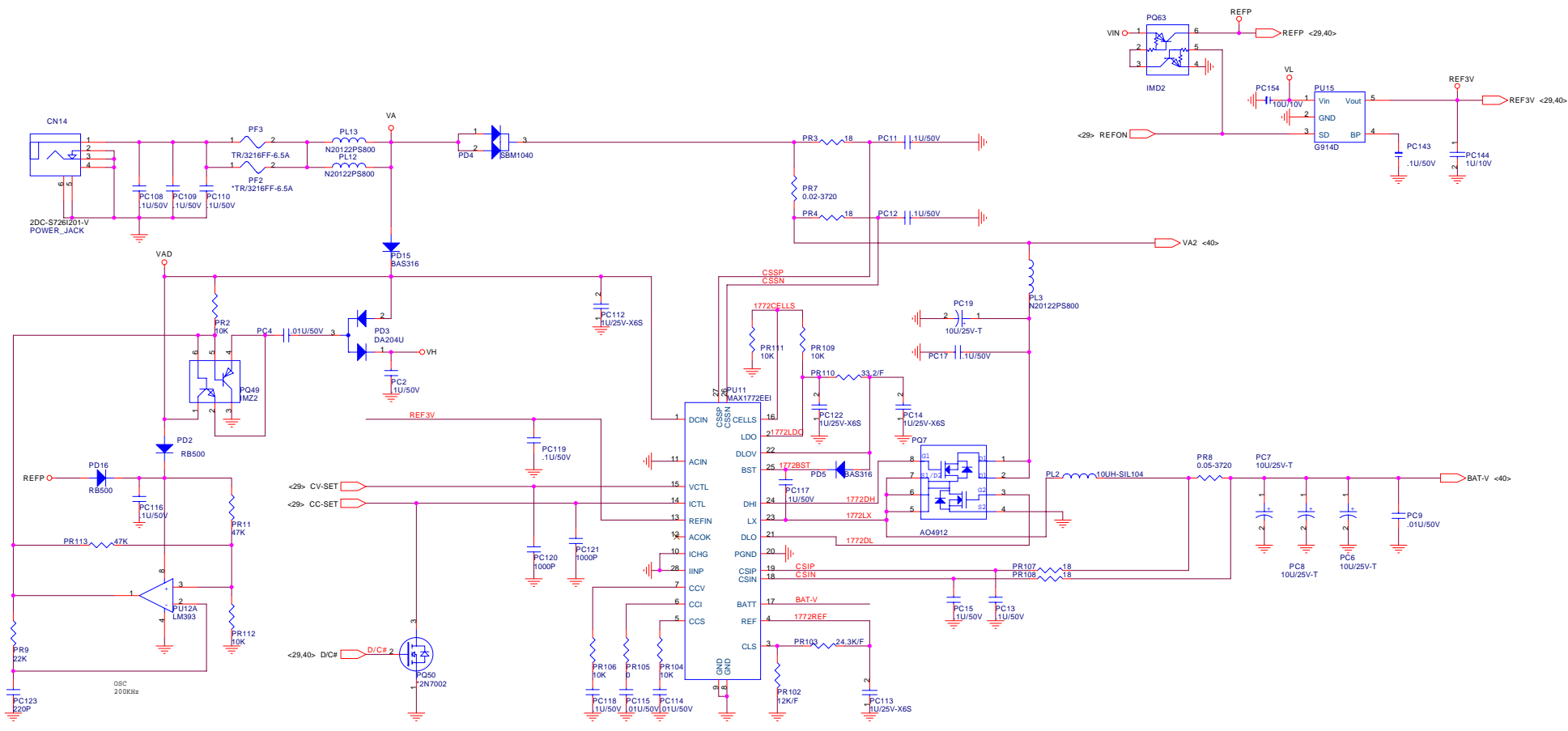
<29,34,35,36,38> HWPG
 <29,35> S5_ON



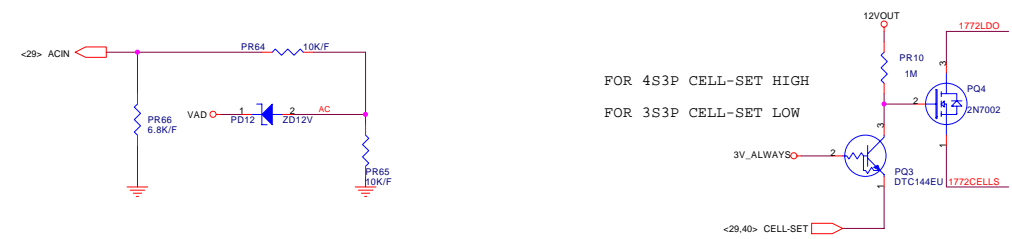



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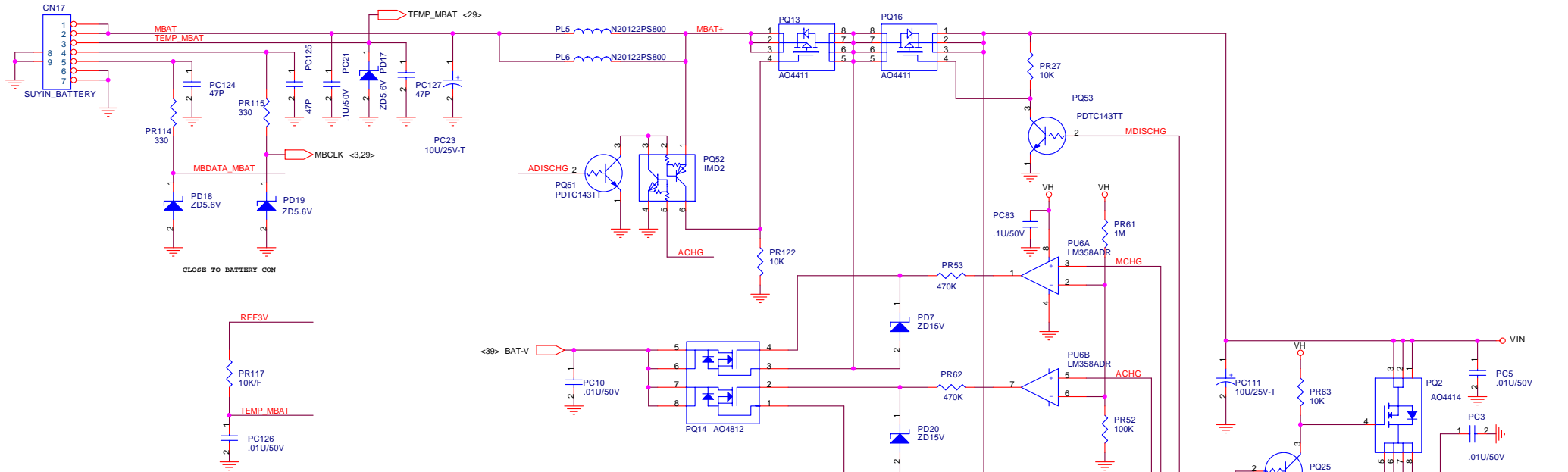


FOR 120W 6.2A

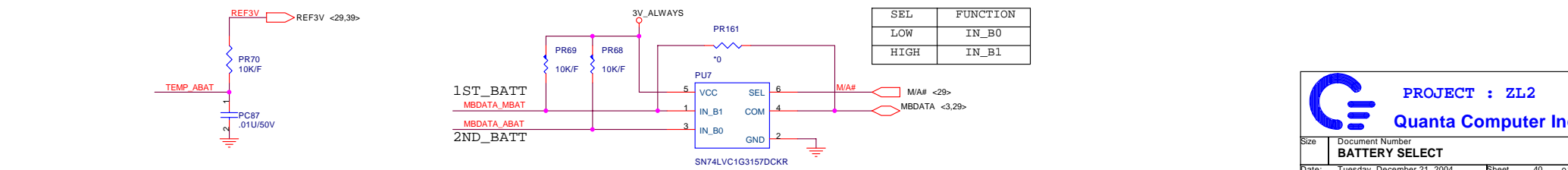
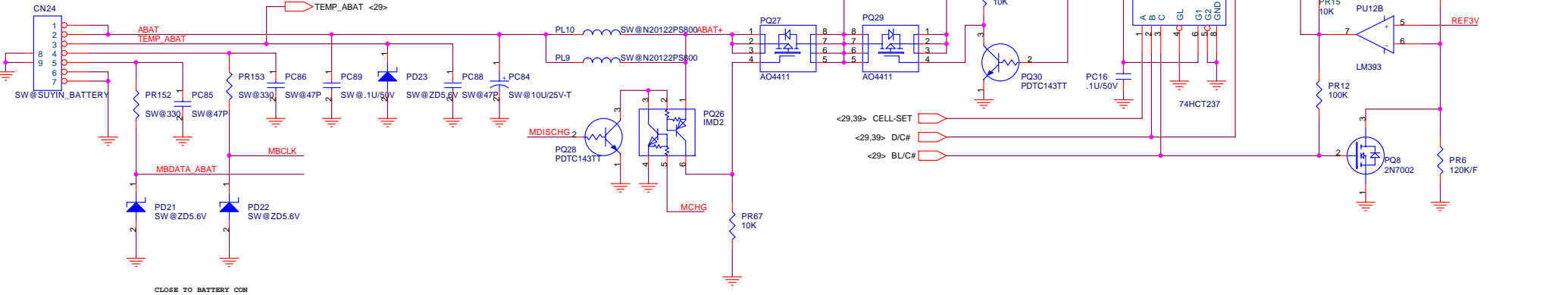


FOR 4S3P CELL-SET HIGH
FOR 3S3P CELL-SET LOW

1ST_BATT_CONN



2ND_BATT_CONN



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BATTERY SELECT

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MODEL:	REV:	CHANGE LIST:	PAGE	FROM	TO		
ZL2 MotherBoard	B	PAGE2 1. CHANGE FREQ. SETTINGS FOR DOTHANB 2. UNSTUFF SSC COMPONENTS 3. UNSTUFF COMPONENTS FOR DIFFERENT SKUS	1				
		PAGE3 1. REMOVE R449, PULL HIGH AT POWER SIDE 2. UNSTUFF ITP COMPONENTS 3. STUFF R441 FOR THEMTRIP#	2				
		PAGE4 1. STUFF R432, R433 FOR AUTO-SELECT	3				
		PAGE5 1. STUFF R162 FOR DOTHAN-B	4				
		PAGE6 1. STUFF R147, R148, R151, R143, R152, R159 ALWAYS 2. NOT STUFF DVO COMPONENTS WHEN NO DOCKING	5				
		PAGE8 1. NOT STUFF FILTER COMPONENTS WHEN EXT. VGA 2. CHANGE D10, D11 TO CH551					
		PAGE9 1. STUFF R76, PCIE TESTIN PULL LOW 2. STUFF R369, GPIO0 PULL HIGH 3. CHANGE CLK OUTPUT TO XTALIN 4. NOT STUFF DVI COMPONENTS WHEN NO DOCKING					
		PAGE12 1. ADD 220UF IN VG1.2V					
		PAGE15 1. NOT STUFF R60, R63 WHEN NO DVO DEVICE 2. NOT STUFF DVO COMPONENTS WHEN NO DOCKING					
		PAGE16 1. CHANGE TV-OUT LC VALUES					
		PAGE18 1. ADD DAMPING ON LFRAME# FOR AUDIO NOISE 2. STUFF R469 AND UNSTUFF R467 FOR DOTHAN-B 3. NOT STUFF COMPONENTS FOR SATA WHEN NO SATA 4. NOT STUFF AC TERMINATION FOR PCLK_1CH					
		PAGE19 1. NOT STUFF PCIE COMPONENTS WHEN NO PCIE DEVICES 2. CHANGE EMAIL LED GPIO 3. CHANGE MB_ID SETTING					
		PAGE21 1. REMOVE R50 2. CHANGE Q15 FROM BJT TO 2N7002	7				
		PAGE23 1. REMOVE RING FUNCTION 1. REMOVE 1394 CHOKE PADS	8				
		PAGE24 1. CHANGE 3IN1 CONNECTOR	9				
		PAGE25 1. CHANGE LED CONNECTION FOR 1G LAN 2. CORRECT U42 PIN.B11 PIN.C11 SHORT 3. CHANGE C741 AND C792'S SIZE FOR ME	10				
		PAGE26 1. UNINSTALL C210, C184, R87, R99 WHEN 10-100	11				
		PAGE27 1. INSERT 4700P IN BEEP SIGNALS 2. REMOVE SPK PR FROM CODEC 3. CHANGE C863 TO 10U 4. REVERSE MIC-SELECT 5. CHANGE R272 TO 0 OHM	12				
		PAGE28 1. CHANGE CONNECTION FOR SPKL-R TO EZ4 2. ADD SPRINGS FOR MODEM CABLE	13				
		PAGE29 1. CHANGE PR INSERT# TO PR_STS	14				
		PAGE30 1. CHANGE KB AND TP'S CONNECTOR 2. CHANGE LED CIRCUITS	15				
		PAGE31 1. REMOVE C8892. STUFF AC TERMINATIONS FOR 14M_SIO	16				
		PAGE33 1. MODIFY EZ4 INTERFACE	17				
		PAGE 35 1. INCREASE CAPACITOR PC171 NEAR PR422. CHANGE COMPONENT PR38 SERIAL NUMBER FROM 0603 TO 1206 3. TAKE OFF PR39 PR43 PQ21 AND CHANGE NET NAME TO MAX6648_OV#	18				
		PAGE 35 3. INCREASE CAPACITOR C913 4. ADD DISCHARGE FOR VG1.2V	19				
		PAGE 40 1. INCREASE RESISTOR PR161 NEAR PU7	20				
		PAGE 22 1. REMOVE CHOKE PADS	21				
		PAGE 39 1. TAKE OFF PQ50	22				
		PAGE 37 1. CHANGE PUS NET NAME TO +2.5V	23				
		PAGE 17 1. CHANGE HSYNC& VSYNC'S BEADS TO 0 OHM	24				
		C		DA0ZL2MB8C3	25		
		PAGE2 1. ADD PULLUPS ON CLKREQ PINS	26				
		PAGE3 1. ADD THERMAL SHUTDOWN CIRCUITS	27				
		PAGE13 1. CHANGE OPTIONS TO HYNIX MEMORY	28				
		PAGE16 1. DEPOP C558	29				
PAGE17 1. CHANGE LC VALUES FOR RGB	30						
PAGE16, 17, 26 ADD 0 OHM RESISTORS TO SUBSTITUTE SWITCHES WHEN NO DOCKING	31						
PAGE25 1. CHANGE R531 TO 0 OHM 1. CHANGE R519 TO 1.2K/F	32						
PAGE27 1. CHANGE C512, C511 TO .7UF 1. CHANGE R592 TO 100K	33						
PAGE28 1. DEPOP Q28	34						
PAGE29 1. CHANGE BATLED0,1# PINS TO IOPJ6,7	35						
PAGE24 1. CHANGE 3-IN-1 CONNECTOR							
PAGE 34 1. INCREASE CAPACITOR PC172 10U/25V IN VIN 1907A 2. INCREASE SCHOTTKY DIODE PD24 SKS30-04A IN MAX1907LX .							
PAGE 35 1. INCREASE ZENER DIODE PD25 ZD5.6V SERIES WITH VIN1999 AND PR249 2. CHANGE NET NAME TO 1999_CHT#							
PAGE 36 1. CHANGE MOSFET SUD50N03-09P TO PQ65 PQ66 2. INCREASE CAPACITOR PC173 560U/4V IN +2.5VSUS 3. INCREASE CAPACITOR PC174 10U/10V IN +1.25VSUS 4. INSERT PR250 BETWEEN PU16 PIN2 AND PIN 5 .							
PAGE 37 1. CHANGE MOSFET SUD50N03-09P TO PQ34 PQ47 AND PQ35 2. TAKE OFF JUMP 3.CHANGE CAPACITOR PC155 PC146 TO 560U/4V							
PAGE 38 1. CHANGE MOSFET SUD50N03-09P TO PQ5 PQ6 PQ55 AND PQ56 2. TAKE OFF JUMP 3. CHANGE CHOKE PL16 TO 3R3UH 4.CHANGE CAPACITOR PC27 TO E@470U/2.5V							
PAGE 39 1. EXCHANGE NET NAME 3V_ALWAYS AND CELL-SET							
PAGE 23,25,29,31 1. DEPOP RC FILTERS ON PCI CLOCKS							
D		PAGE2 1. DEPOP R615 2. ADD 47P ON 14M_SIO	28				
PAGE3 1. POP R449	29						
PAGE6 1. DEPOP RP7	30						
PAGE16 1. LID SW FOOTPRINT CHANGED	31						
PAGE19 1. ADD MB_ID3	32						
PAGE21 1. CHANGE C82'S RATING TO 25V	33						
PAGE28 1. PHONE JACK CHANGED TO SPDIF	34						
PAGE30 1. CHANGE R338 TO 100K	35						
PAGE31 1. CHANGE R28 AND C41'S VALUE							
PAGE33 1. ADD EMI CAPS							
PAGE34 1. ADD CAP PC176							
PAGE35 1. CHANGE CAP PC69 COMPONENT 2. CHANGE CAP PC72 CONNECT POINT 3. CHANGE RESISTOR PR147 COMPONENT							
E		PAGE2 Change R200, R202, C915 value to pass EA	PAGE18 Change GPIO pin define, add R645				
PAGE3,30 DEPOP COMPONENTS FOR MAX6648_OV#	PAGE20 D25 change to CH551						
PAGE6 1. DEPOP R186, R184	PAGE31 Change C41 to 6pF						
PAGE8 Add C918 to solve TV issue	PAGE33 Modify EZ4 pin define, add R641, 642, 644 for EMI						
PAGE12 Add C919,920, change L25,27,67							
PAGE16 1. ADD LEVEL SHIFT FOR EDID							
PAGE16 Change R8, R9, remove C9, C32 for pass Acer LCD							
PAGE19 ADD 100K PULLLOW ON DPRSLPVR, change C428							
PAGE21 1. CHANGE SWAP-ODD RESET							
PAGE23 1. ADD PULL-LOW ON PCMSPK	PAGE 35 1. CHANGE PC68 COMPONENT.						
PAGE24 1. ADD 30OHM CURRENT LIMIT ON VCC_XD	PAGE 36 1. CHANGE PR99 PD28 COMPONENT.						
PAGE32 1. REVERSE RX AND TX	PAGE 37 1. CHANGE PD26 PD27 COMPONENT. 2. CHANGE PR74 PR77 PUS PC147 PC150 COMPONENT.						
	PAGE 38 1. CHANGE PR51 COMPONENT. 2. CHANGE PD29 PD30 COMPONENT.						
	PAGE 39 1. CHANGE PQ7 COMPONENT.						



PROJECT : ZL2
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PROJECT : ZL2

APPROVE BY: SELMON LIU

DRAWING BY:JOE LIN

REV

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	CHANGE LIST	F

MB ASSY'S P/N : 31ZL1MB0004

PROJECT LEADER: SELMON LIU

DOCUMENT NO:

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