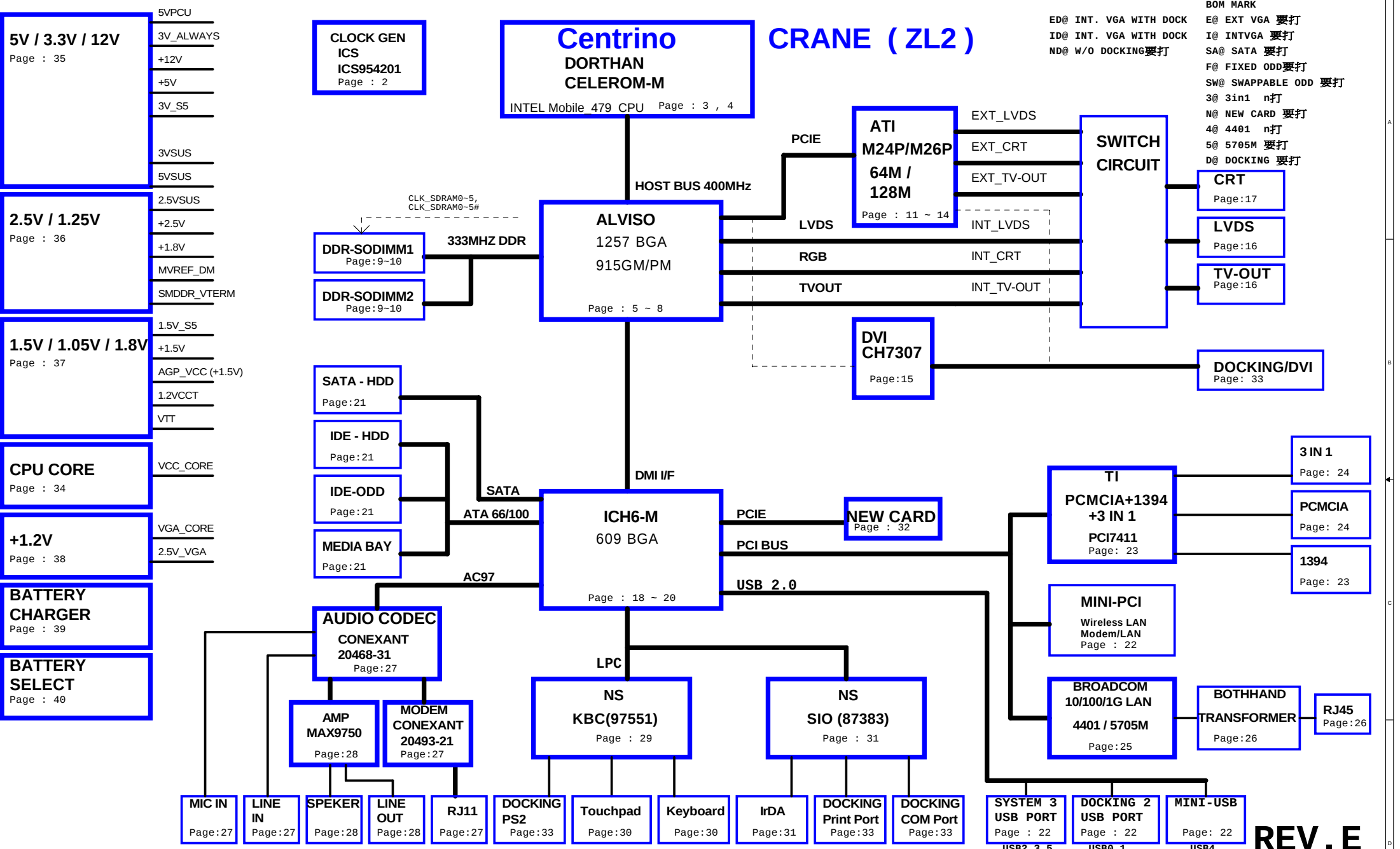




PM : 紀明進 Sunyu Jih  
EE Laerer : 劉鳴豹 Selmon Liu  
ME Leader : 林哲敏 Mill Lin

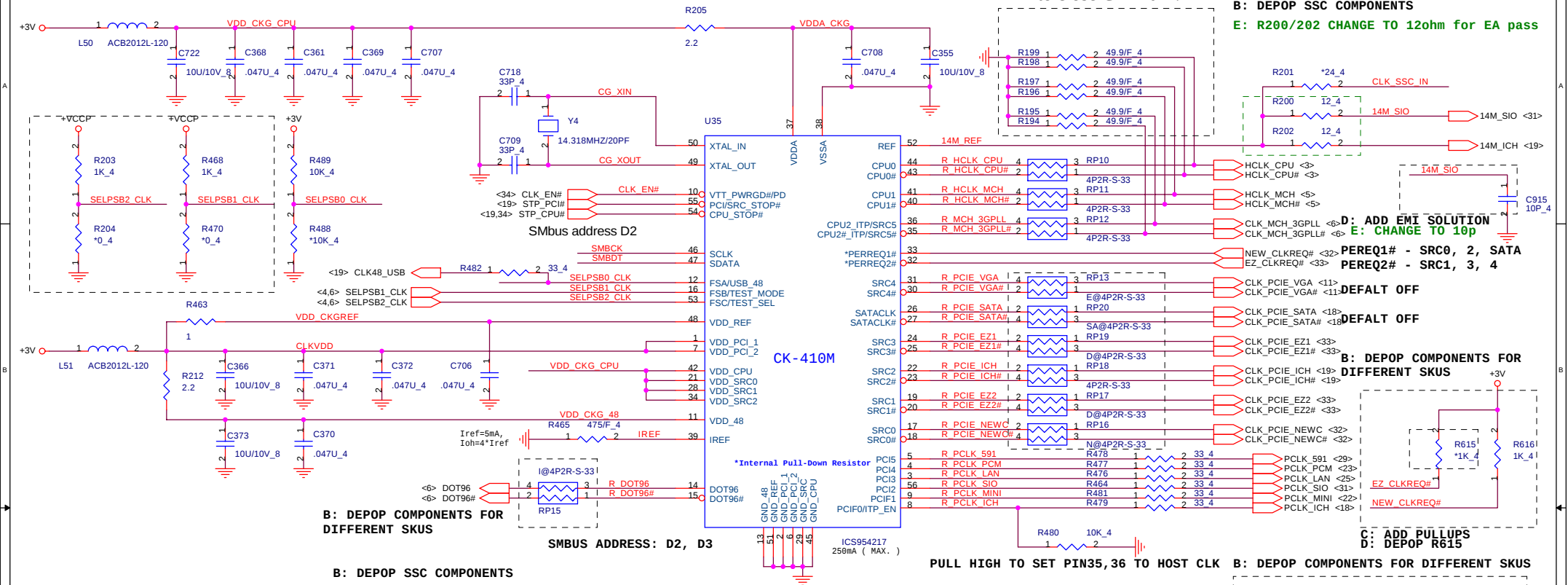
| PCI ROUTING TABLE | IDSEL | INTERUPT            | DEVICE       |
|-------------------|-------|---------------------|--------------|
| REQ0# / GNT0#     | AD24  | INTA#               | BROADCOM LAN |
| REQ2# / GNT2#     | AD19  | INTB# , INTD#       | MINI-PCI     |
| REQ1# / GNT1#     | AD17  | INTC#,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

REV B: 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 120ohm for EA pass



B: DEPOP COMPONENTS FOR  
DIFFERENT SKUS

SMBUS ADDRESS: D2, D3

B: DEPOP SSC COMPONENTS

SMBUS ADDRESS: D4, D5

PULL HIGH TO SET PIN35,36 TO HOST CLK

B: DEPOP COMPONENTS FOR DIFFERENT SKUS

Place these termination  
to close CK410M.

DOETHAN-A 400  
DOETHAN-A 533

| FSC | FSB | FSA | CPU  | SRC | PCI |
|-----|-----|-----|------|-----|-----|
| 1   | 0   | 1   | 100  | 100 | 33  |
| 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  |

QUANTA  
COMPUTER

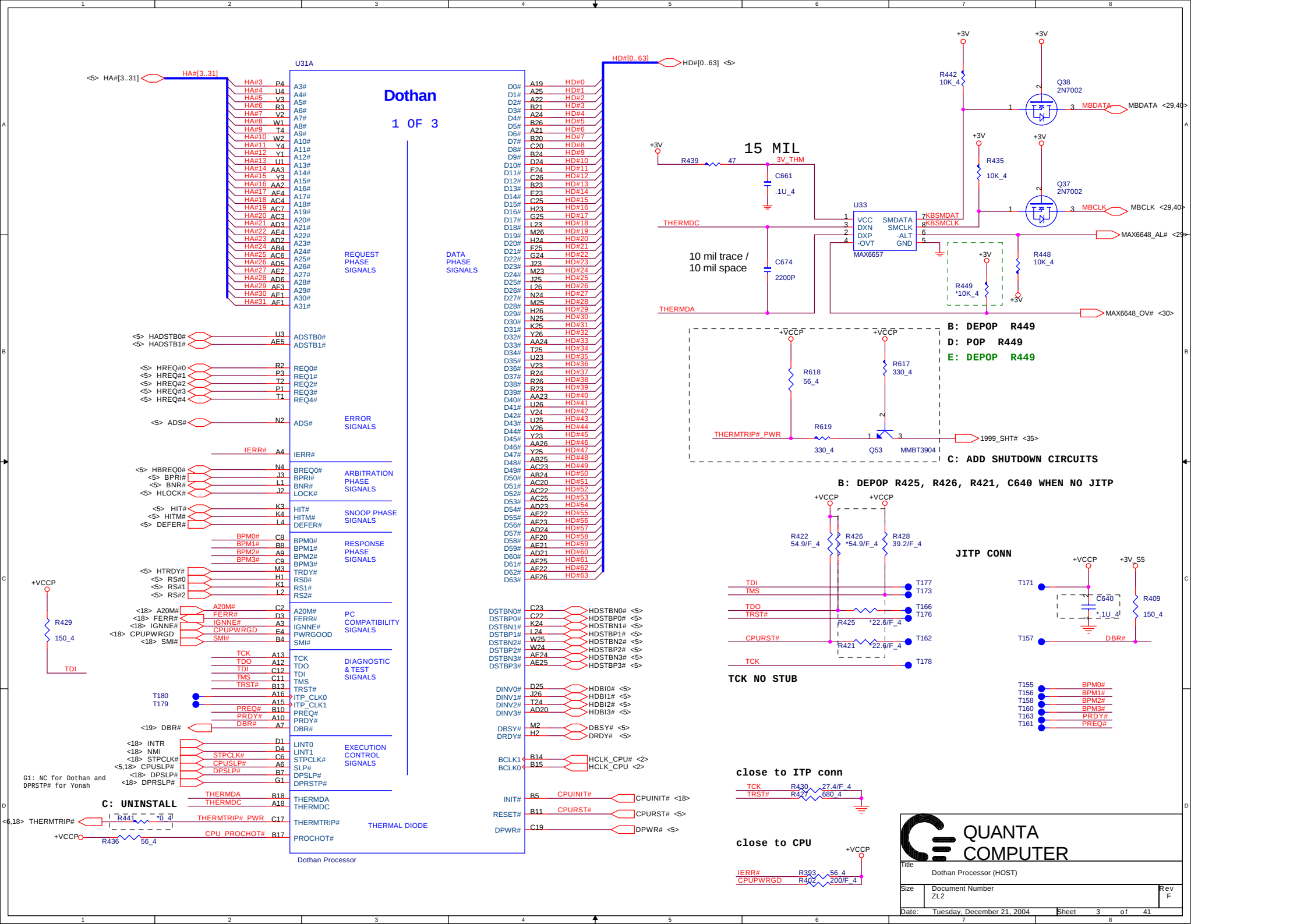
CLOCK GENERATOR

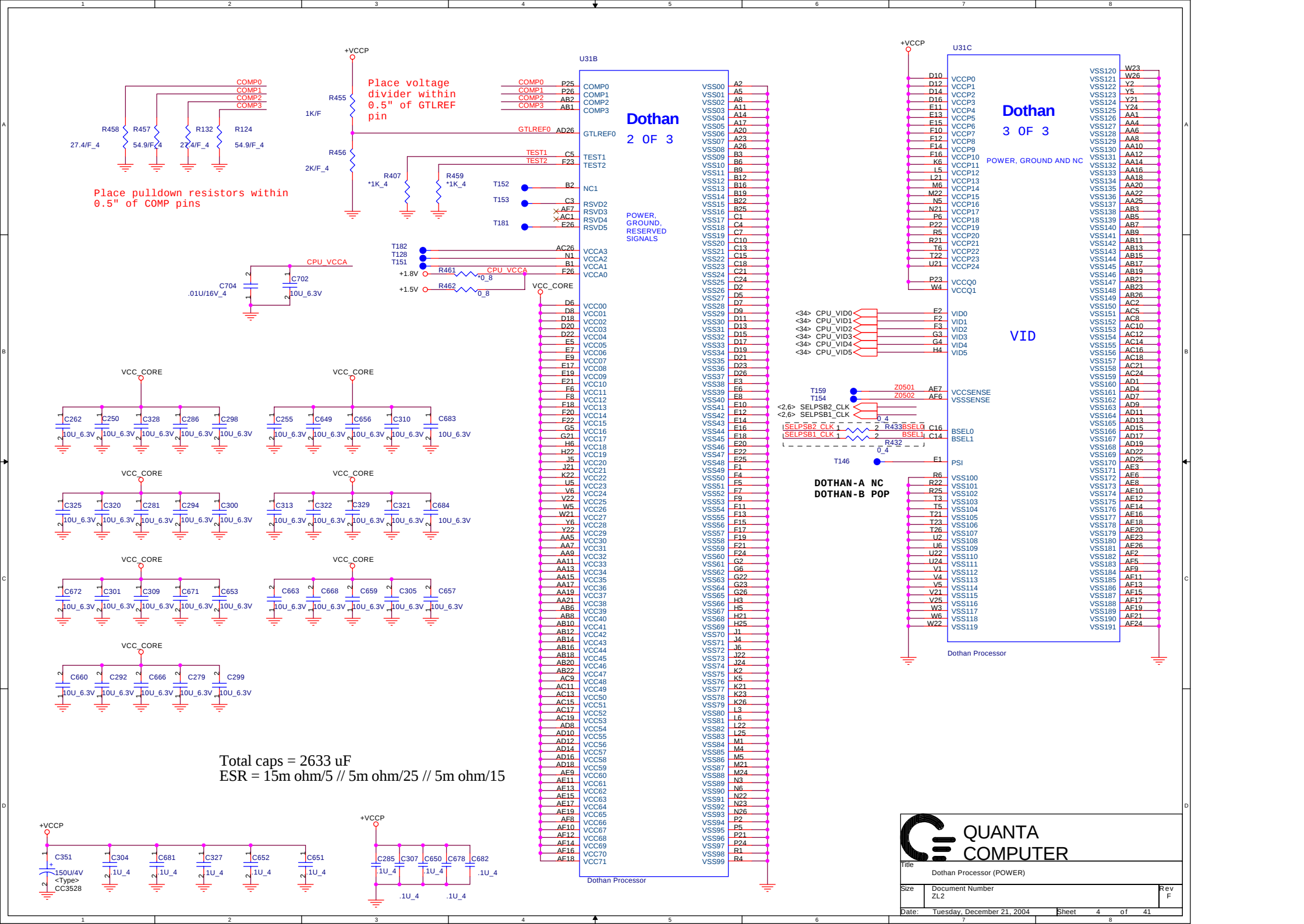
Size Document Number  
ZL2

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Date: Tuesday, December 21, 2004

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| U34E   |        |      |
|--------|--------|------|
| AF23   | VSS136 | AC37 |
| H23    | VSS137 | Y37  |
| AL22   | VSS138 | V37  |
| AM22   | VSS139 | T37  |
| J22    | VSS140 | P37  |
| E22    | VSS141 | M37  |
| D22    | VSS142 | K37  |
| A22    | VSS143 | H37  |
| AN21   | VSS144 | E37  |
| AF21   | VSS145 | AN36 |
| F21    | VSS146 | AL36 |
| C21    | VSS147 | AJ36 |
| AK20   | VSS148 | AE36 |
| V20    | VSS149 | AC36 |
| G20    | VSS150 | AD36 |
| E20    | VSS151 | AB36 |
| D20    | VSS152 | AA36 |
| AD0    | VSS153 | C36  |
| AN19   | VSS154 | AE35 |
| AG19   | VSS155 | Y35  |
| W19    | VSS156 | W35  |
| T19    | VSS157 | V35  |
| J19    | VSS158 | U35  |
| H19    | VSS159 | T35  |
| VSS24  | VSS160 | R35  |
| C19    | VSS161 | P35  |
| AL18   | VSS162 | N35  |
| U18    | VSS163 | M35  |
| B18    | VSS164 | K35  |
| AN17   | VSS165 | J35  |
| AJ17   | VSS166 | H35  |
| AE17   | VSS167 | G35  |
| G17    | VSS168 | F35  |
| C17    | VSS169 | E35  |
| AL16   | VSS170 | D35  |
| K16    | VSS171 | C35  |
| D16    | VSS172 | AN34 |
| D16    | VSS173 | AH34 |
| A16    | VSS174 | AD34 |
| VSS175 | VSS175 | AC34 |
| K15    | VSS176 | AB34 |
| C15    | VSS177 | AA34 |
| AN14   | VSS178 | CS4  |
| AL14   | VSS179 | AL33 |
| AJ14   | VSS180 | AE33 |
| AG14   | VSS181 | AD33 |
| K14    | VSS182 | W33  |
| J14    | VSS183 | U33  |
| B14    | VSS184 | T33  |
| A14    | VSS185 | P33  |
| VSS186 | VSS186 | N33  |
| D12    | VSS187 | M33  |
| B12    | VSS188 | K33  |
| VSS189 | VSS189 | J33  |
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| AL11   | VSS191 | G33  |
| AG11   | VSS192 | F33  |
| AE11   | VSS193 | E33  |
| AA11   | VSS194 | D33  |
| Y11    | VSS195 | AN32 |
| H11    | VSS196 | AH32 |
| F11    | VSS197 | AD32 |
| AA10   | VSS198 | AC32 |
| Y10    | VSS199 | AB32 |
| L10    | VSS200 | AA32 |
| D10    | VSS201 | C32  |
| AN9    | VSS202 | AL31 |
| AH9    | VSS203 | AG31 |
| AE9    | VSS204 | AD31 |
| AC9    | VSS205 | W31  |
| AA9    | VSS206 | V31  |
| VSS207 | VSS207 | U31  |
| T9     | VSS208 | T31  |
| VSS209 | VSS209 | P31  |
| K9     | VSS210 | N31  |
| H9     | VSS211 | M31  |
| A9     | VSS212 | K31  |
| AL8    | VSS213 | J31  |
| Y8     | VSS214 | H31  |
| P8     | VSS215 | G31  |
| L8     | VSS216 | F31  |
| CR     | VSS217 | E31  |
| AK7    | VSS218 | D31  |
| AG7    | VSS219 | AN30 |
| AA7    | VSS220 | AH30 |
| V7     | VSS221 | AD30 |
| G7     | VSS222 | AC30 |
| AJ6    | VSS223 | AB30 |
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| AC6    | VSS225 | C30  |
| AA6    | VSS226 | Y30  |
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| P6     | VSS228 | V29  |
| L6     | VSS229 | U29  |
| B6     | VSS230 | T29  |
| AF5    | VSS231 | L29  |
| AL5    | VSS232 | H29  |
| W5     | VSS233 | G29  |
| ES     | VSS234 | F29  |
| AN4    | VSS235 | E29  |
| FE4    | VSS236 | D29  |
| Y4     | VSS237 | C29  |
| U4     | VSS238 | AN28 |
| P4     | VSS239 | AH28 |
| L4     | VSS240 | AD28 |
| A13    | VSS241 | AC28 |
| AC3    | VSS242 | AB28 |
| AB3    | VSS243 | AA28 |
| AA3    | VSS244 | W28  |
| C3     | VSS245 | E28  |
| AN2    | VSS246 | D28  |
| AL2    | VSS247 | C28  |
| AH2    | VSS248 | AN27 |
| AE2    | VSS249 | AL27 |
| AD2    | VSS250 | AJ27 |
| V2     | VSS251 | AG27 |
| T2     | VSS252 | AE27 |
| P2     | VSS253 | AD27 |
| L2     | VSS254 | W27  |
| B27    | VSS255 | V27  |
| J26    | VSS256 | U27  |
| Q26    | VSS257 | T27  |
| E26    | VSS258 | P27  |
| A26    | VSS259 | N27  |
| AN24   | VSS260 | M27  |
| AL24   | VSS261 | K27  |
| J2     | VSS262 | J27  |
| G2     | VSS263 | H27  |
| D2     | VSS264 | G27  |
| VSS265 | VSS265 | F27  |
| Y1     | VSS266 | E27  |
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| VSS275 | VSS275 | AC26 |
| VSS276 | VSS276 | AB26 |
| VSS277 | VSS277 | AA26 |
| VSS278 | VSS278 | C26  |
| VSS279 | VSS279 | Y26  |
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| VSS281 | VSS281 | V26  |
| VSS282 | VSS282 | U26  |
| VSS283 | VSS283 | T26  |
| VSS284 | VSS284 | P26  |
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| VSS295 | VSS295 | AN25 |
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| VSS309 | VSS309 | T25  |
| VSS310 | VSS310 | P25  |
| VSS311 | VSS311 | N25  |
| VSS312 | VSS312 | M25  |
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| VSS315 | VSS315 | H25  |
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| VSS329 | VSS329 | AA24 |
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| VSS541 | VSS541 | V16  |
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| VSS543 | VSS543 | T16  |
| VSS544 | VSS544 | P16  |
| VSS545 | VSS545 | N16  |
| VSS546 | VSS546 | M16  |
| VSS547 | VSS547 | K16  |
| VSS54  |        |      |

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

FOR DDR533

CFG5 Low=DMIX2  
High=DMIX4  
CFG6 Low=DDR2  
High=DDR  
CFG9 Low=REVERSE LANE  
High=NORMAL  
CFG11 FOR CPU533

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

B: POP ALWAYS

<11> GMCHEXP\_TXP[0..15] GMCHEXP\_TXN[0..15]  
<11> GMCHEXP\_TXN[0..15] GMCHEXP\_TXN[0..15]  
<11,15> GMCHEXP\_RXP[0..15] GMCHEXP\_RXP[0..15]  
<11,15> GMCHEXP\_RXN[0..15] GMCHEXP\_RXN[0..15]

PCI-EXPRESS GRAPHICS

B: NO STUFF WHEN NO DOCKING

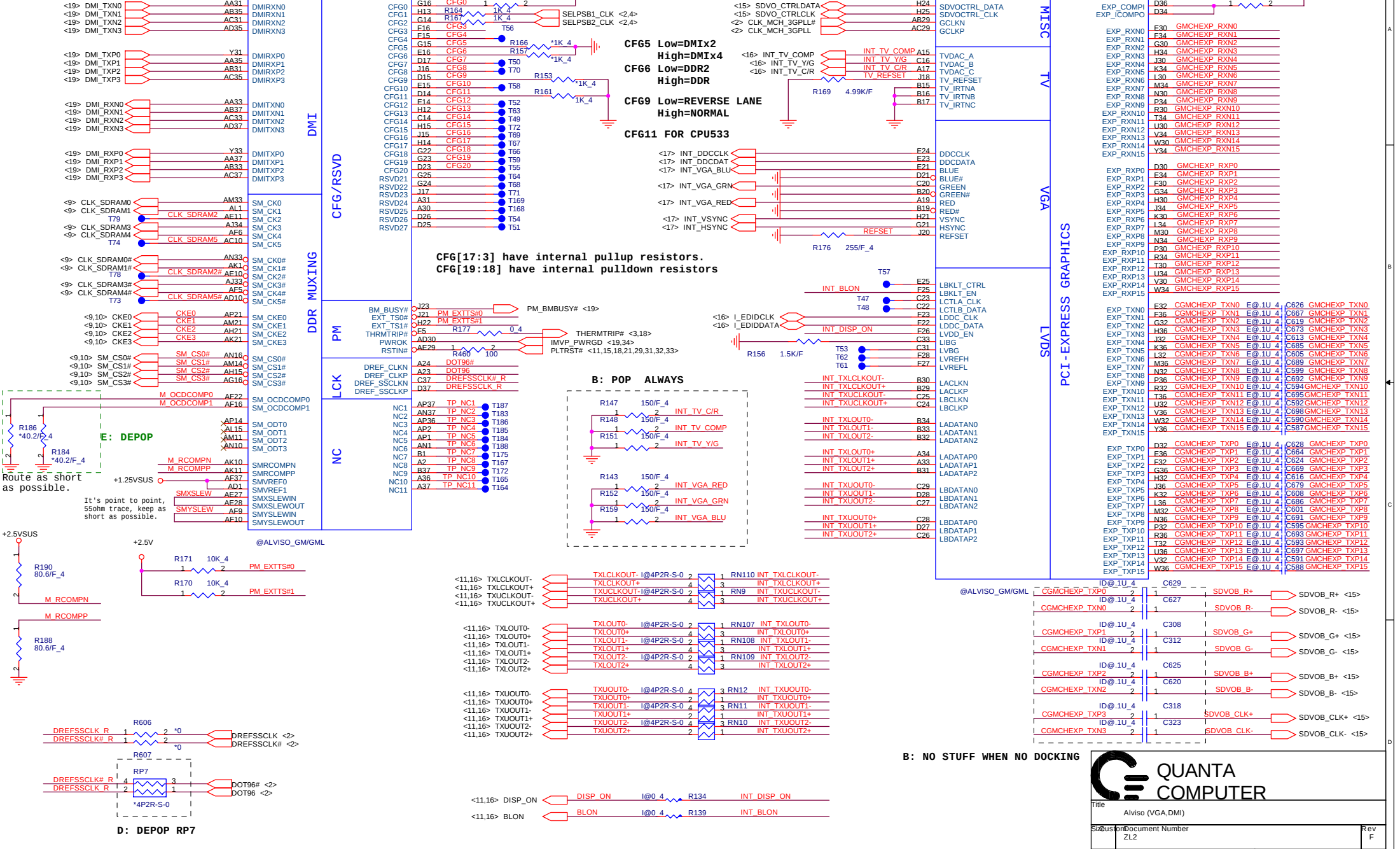
QUANTA COMPUTER

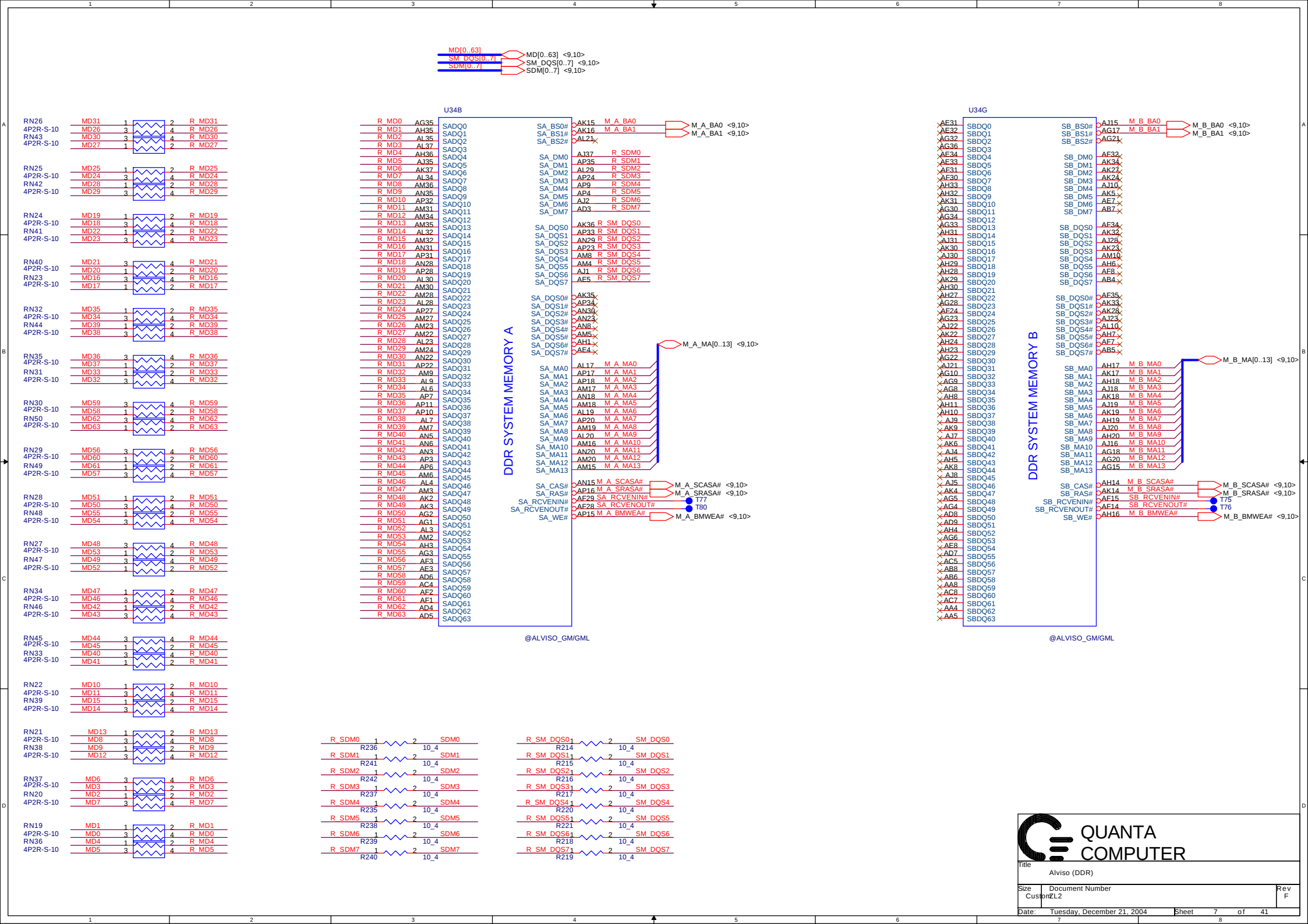
Alviso (VGA, DMI)

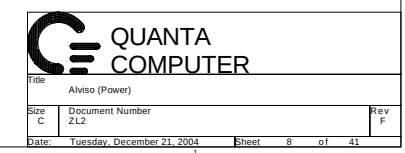
Document Number ZL2

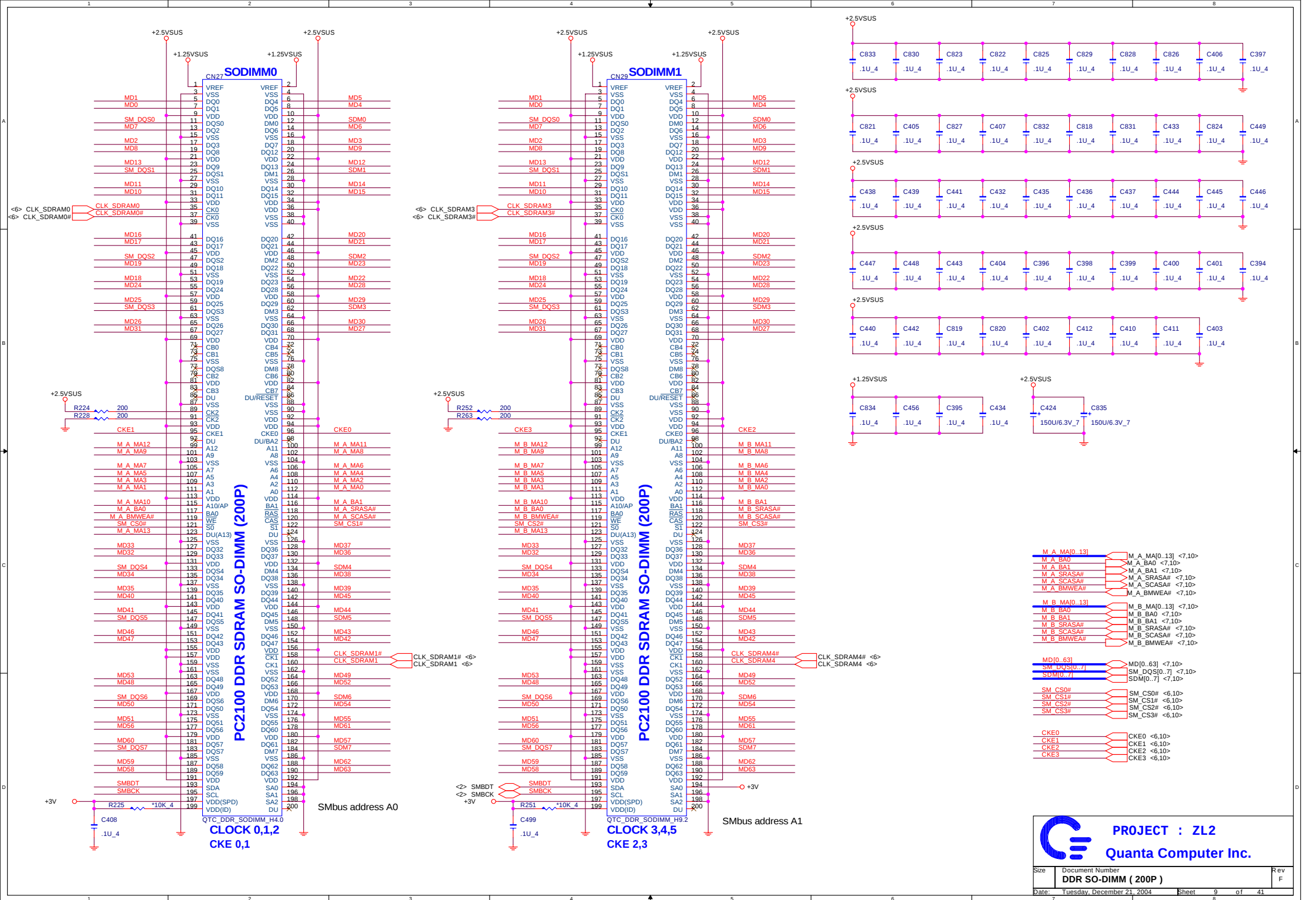
Date: Tuesday, December 21, 2004 Sheet 6 of 41

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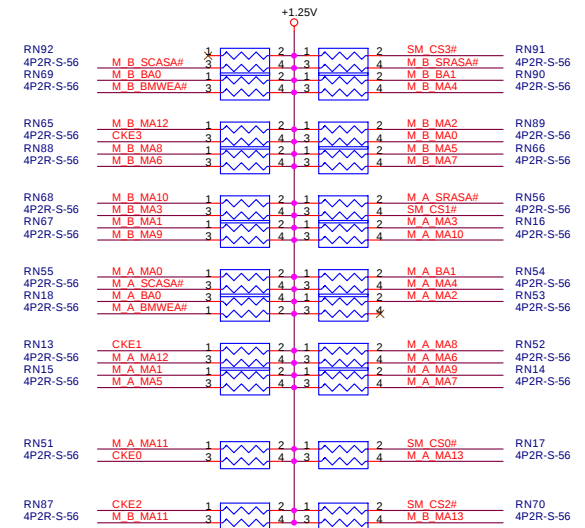
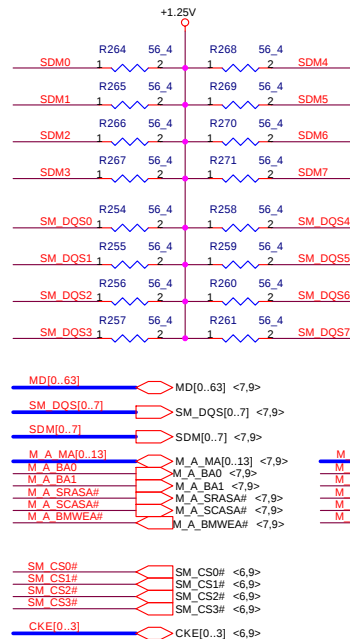
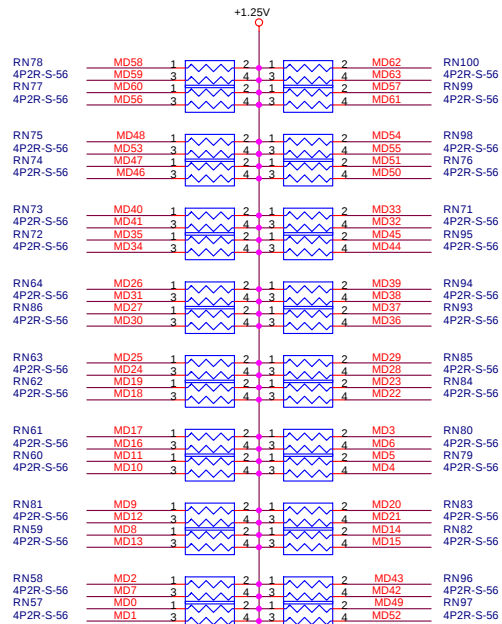
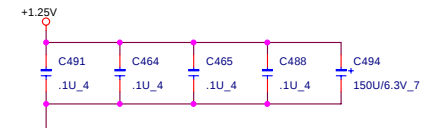
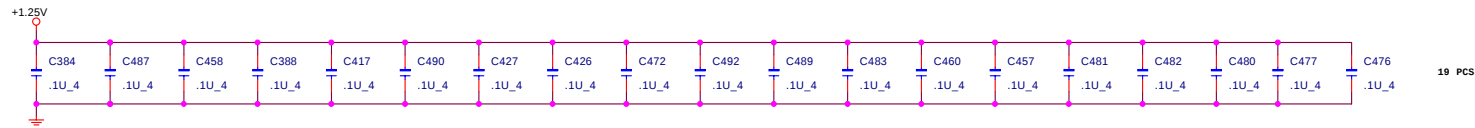
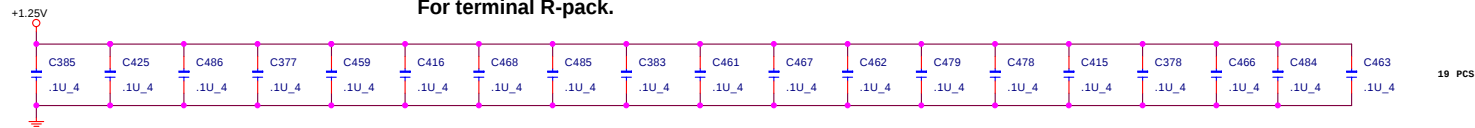






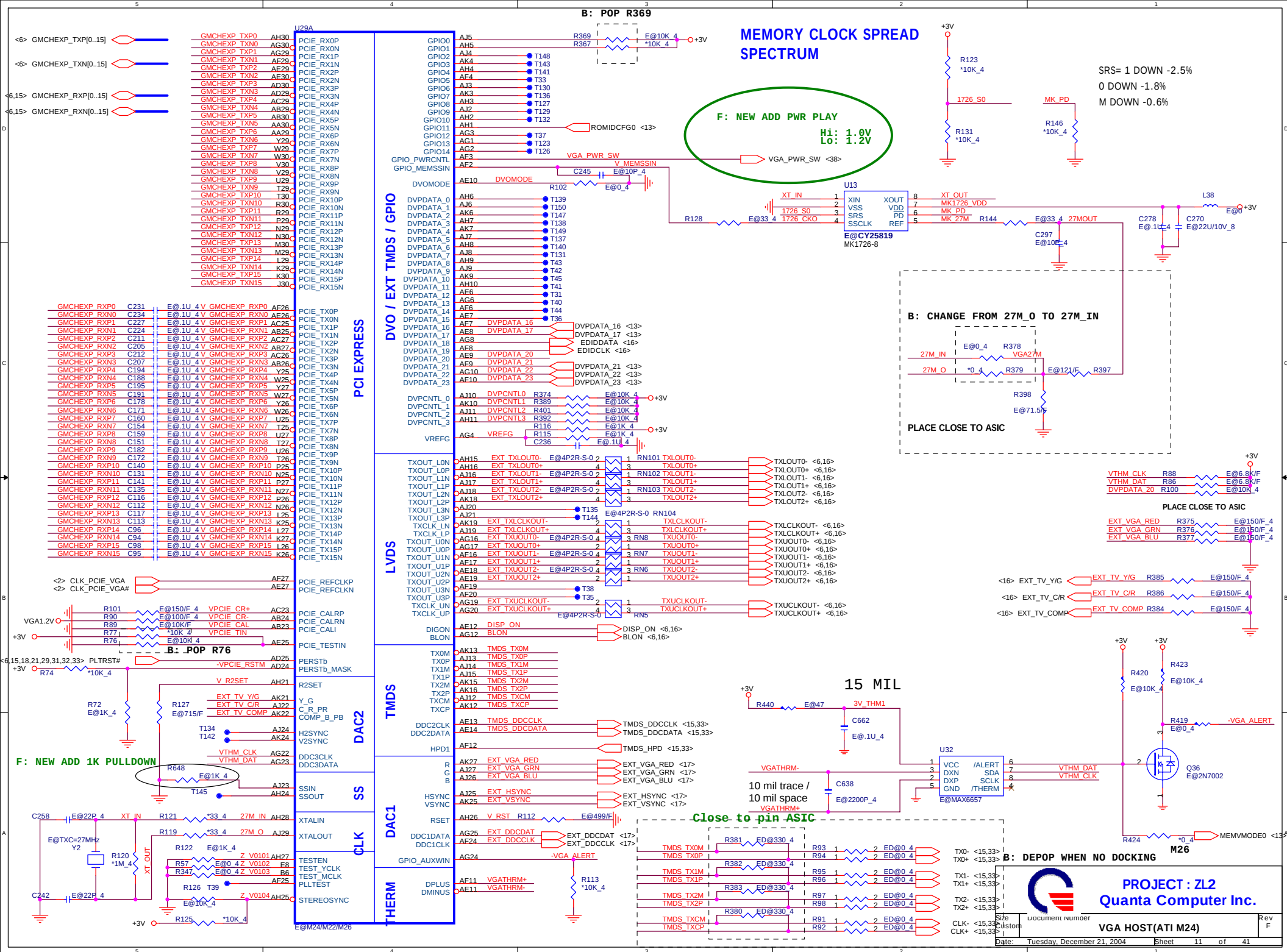


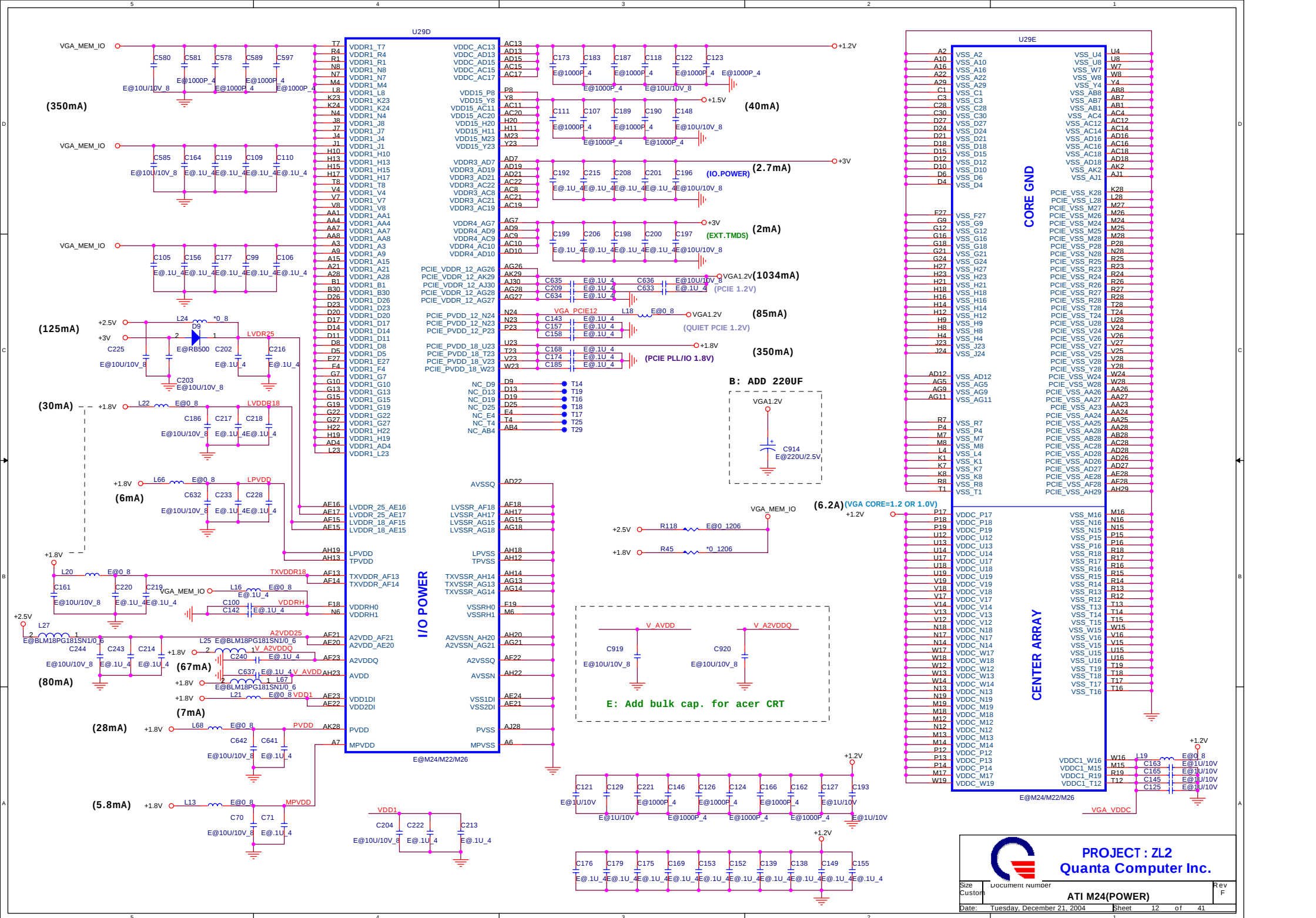
# For terminal R-pack.

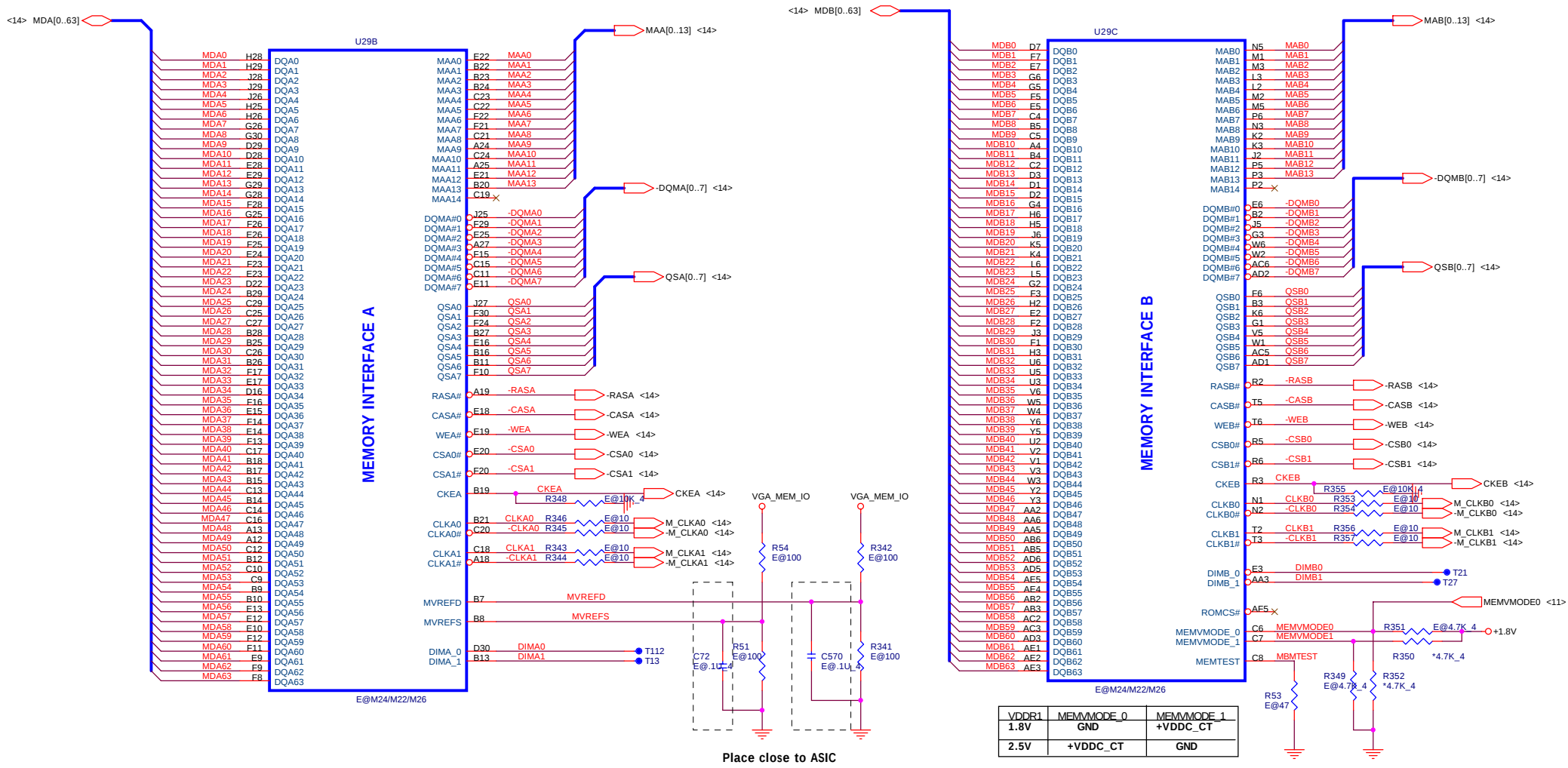


PROJECT : ZL2  
Quanta Computer Inc.

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







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

| STRAPS PIN               |                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| GPIO_6                   | PCI-Express transmitter current compensation<br>0: Normal<br>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)<br>INT P/D | ROMIDCFG<br>0x0x: No ROM, CHG_ID=0<br>0x1x: No Rom, CHG_ID=1<br>1000: Parallel ROM, Chip ID'S from ROM<br>1000: Parallel ROM, Chip ID'S from ROM |
| DVPDATA_21-23            | DVPDATA_21: 0=4Mx32 1=8Mx32<br>DVPDATA_22: 0=128M 1=64M<br>DVPDATA_23: 0=Hynix 1=Samsung                                                         |

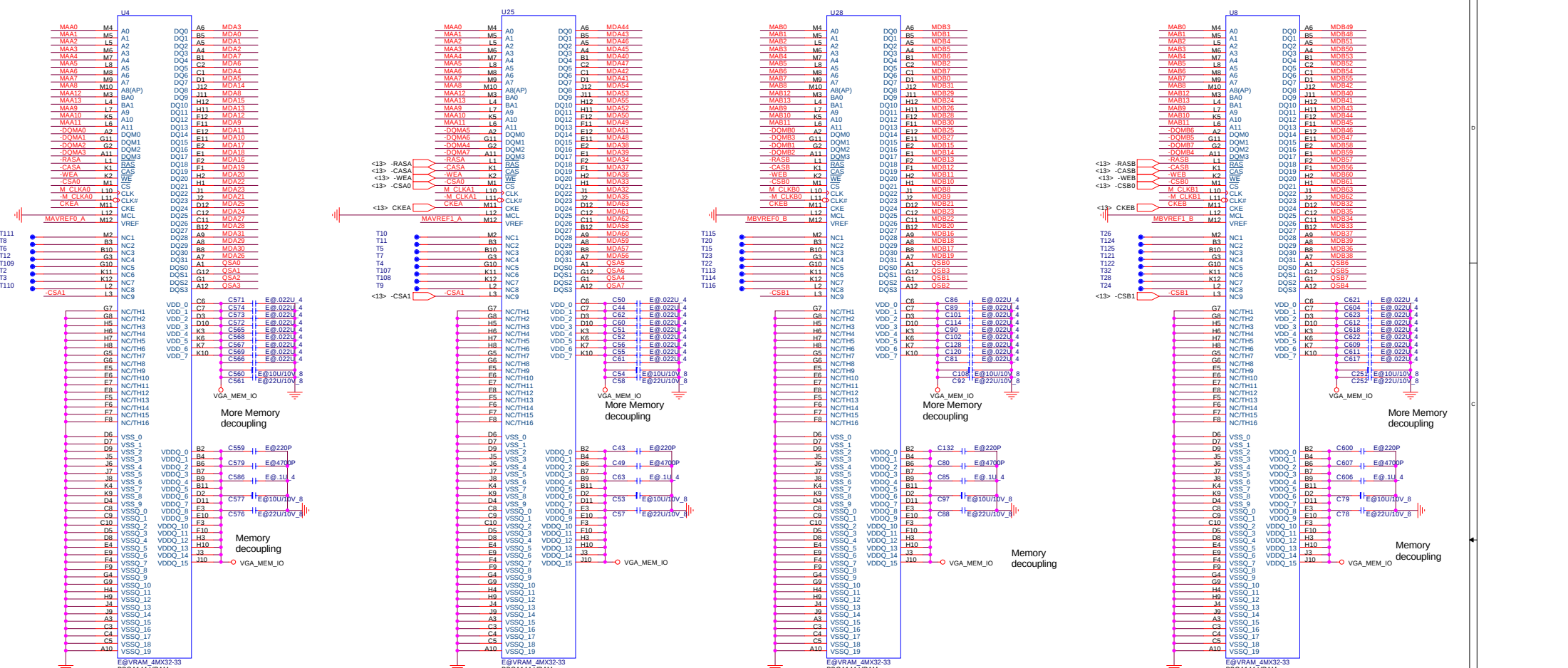
FOR M26P ONLY  
0: 128M  
1: 256M

C: FOR HYNIX MEMORY

PROJECT :ZL2  
Quanta Computer Inc.

ATI M24 MEM/STRAPS PIN

Size Custom Document number Date: Tuesday, December 21, 2004 Sheet 13 of 41



### VGA DDR MEMORY A

@64/128Mbytes DDR 128Mbit 1MX32X4 uBGA



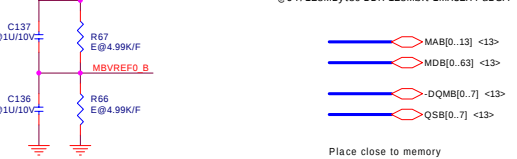
### 8Mx32 AKD56WCT503 K4D55323QF-GC33 1.8V

### 4Mx32 AKD35W-T506 K4D263238E-GC33 2.5V



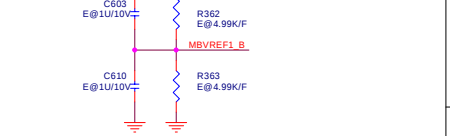
### VGA DDR MEMORY B

@64/128Mbytes DDR 128Mbit 1MX32X4 uBGA



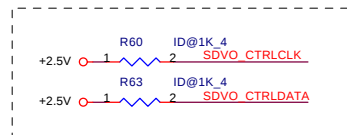
### 8Mx32 AKD56WCT503 K4D55323QF-GC33 1.8V

### 4Mx32 AKD35W-T506 K4D263238E-GC33 2.5V

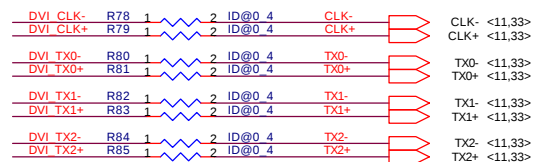
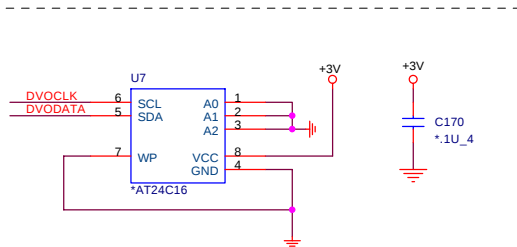


At least a 2.5:1 spacing between the pair  
These resistors and caps must be placed to minimize any stubs. These must also be placed after the memory

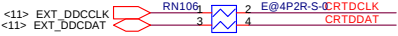
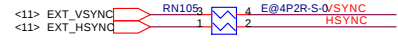
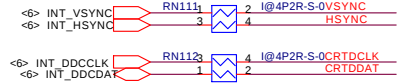
At least a 2.5:1 spacing between the pair  
These resistors and caps must be placed to minimize any stubs. These must also be placed after the memory



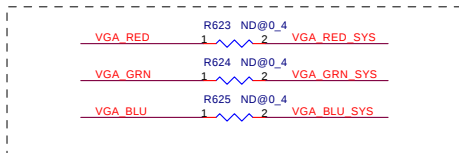
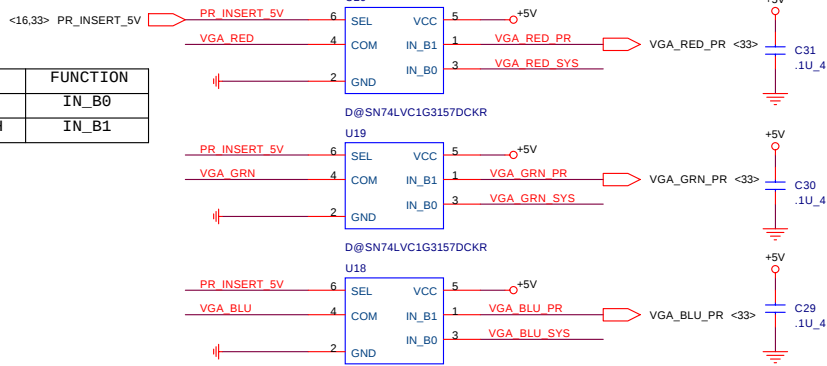
|       |       |
|-------|-------|
| +2.5V | 250mA |
| +3V   | 190mA |



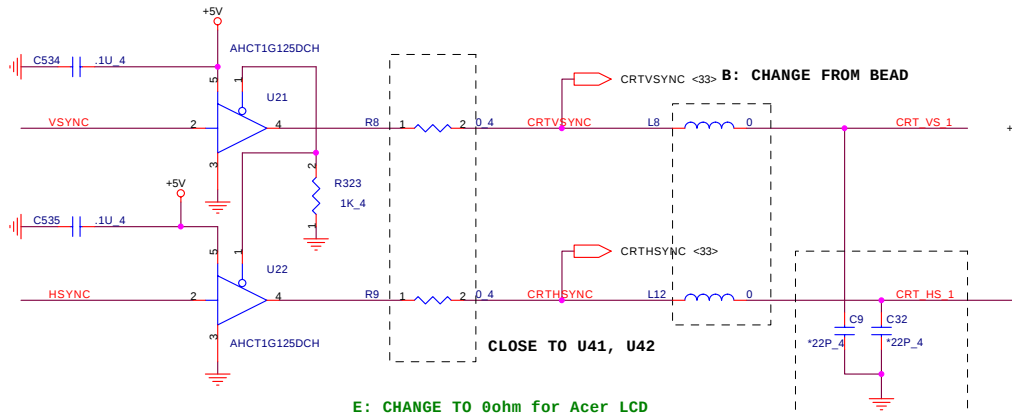
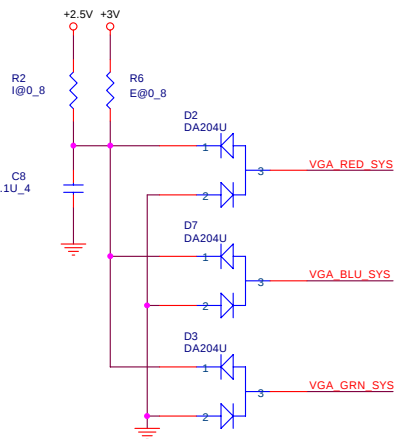
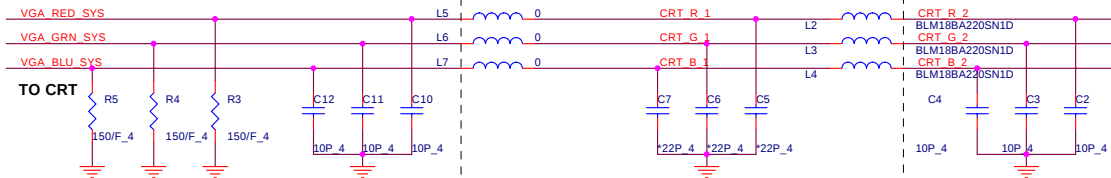




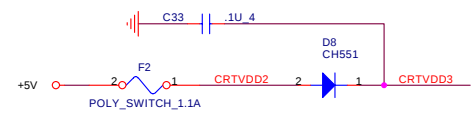
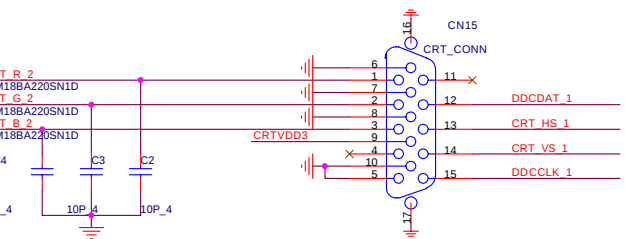
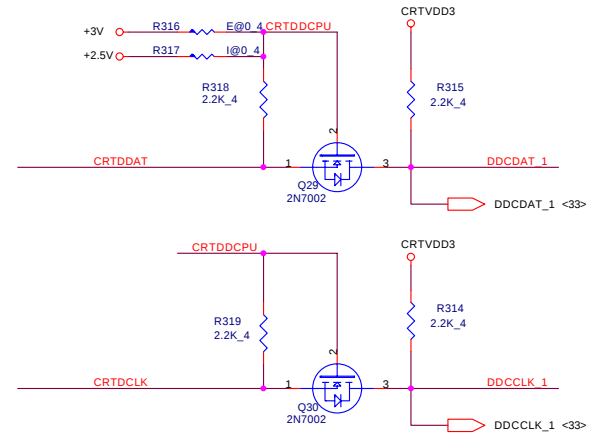
| SEL  | FUNCTION |
|------|----------|
| LOW  | IN_B0    |
| HIGH | IN_B1    |

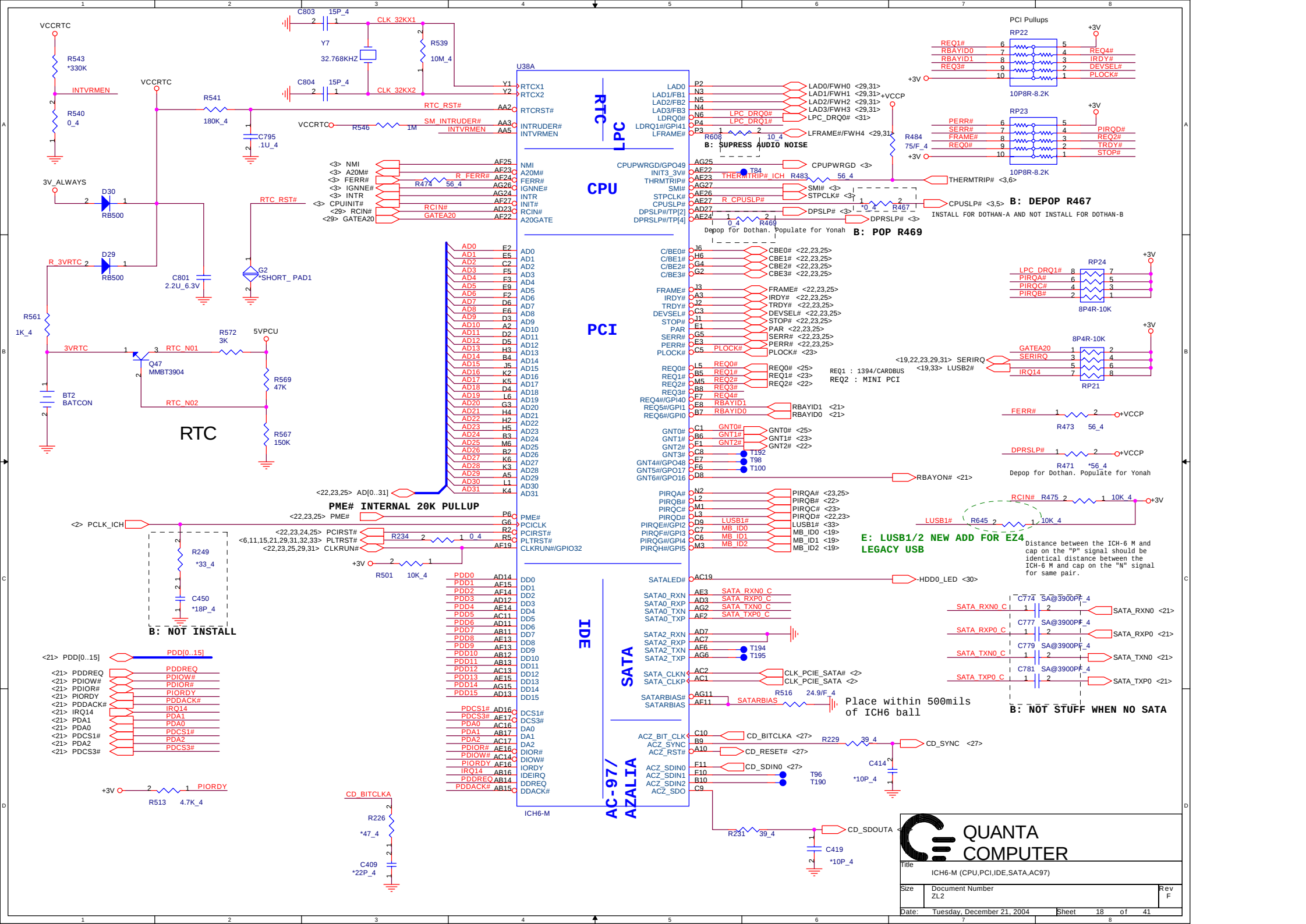


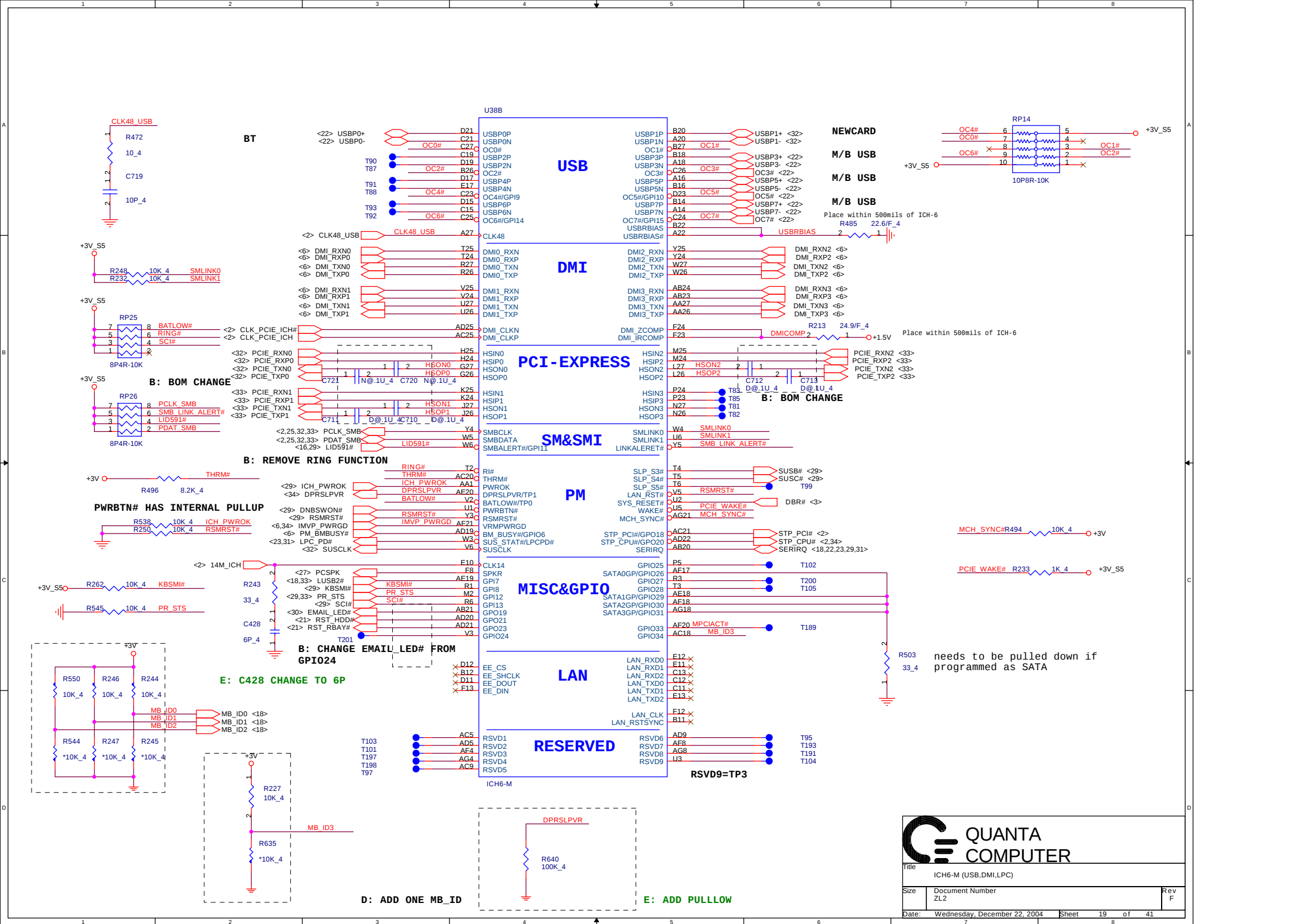
C: ADD CIRCUITS WHEN NO DOCKING



E: CHANGE TO 0ohm for Acer LCD



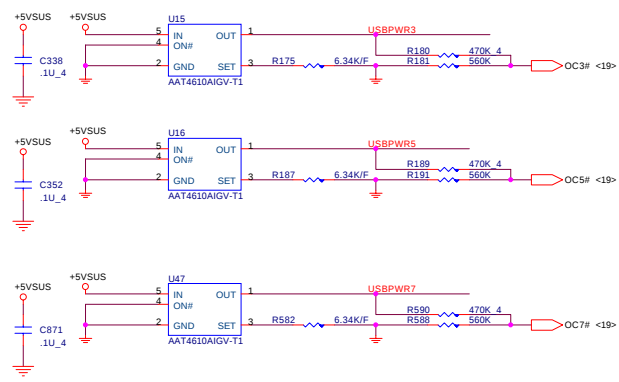
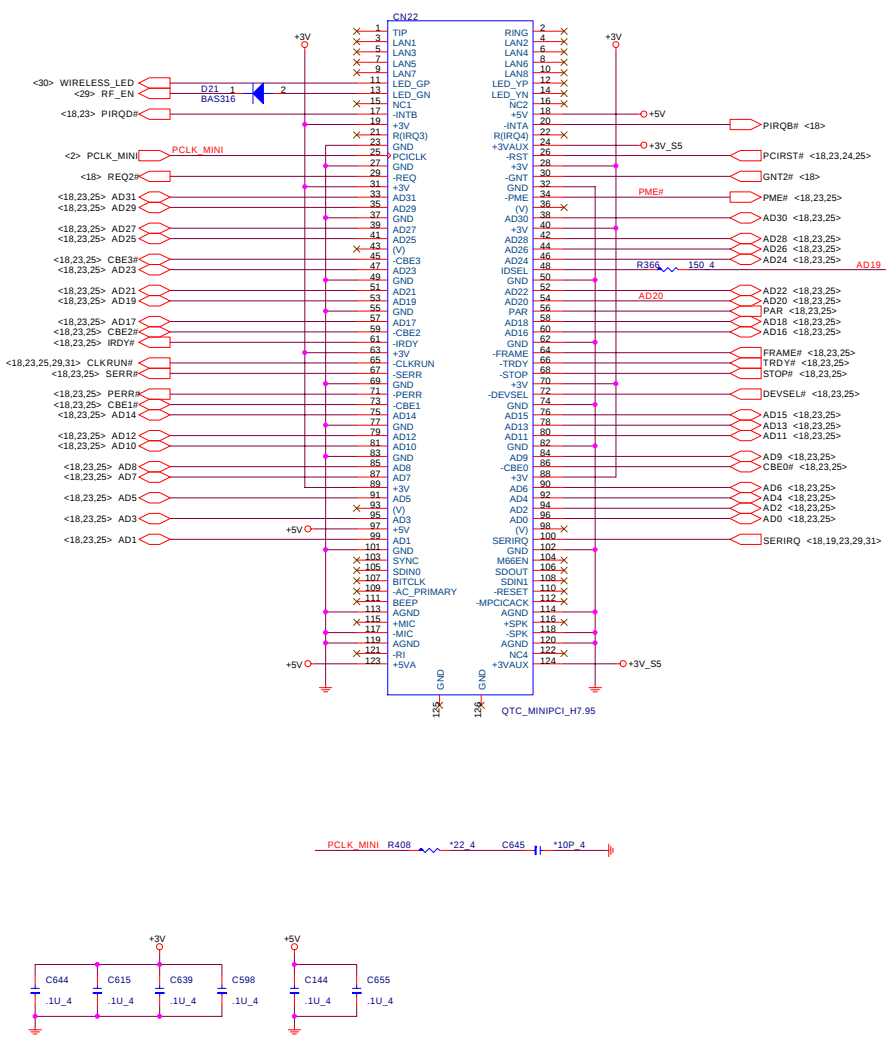




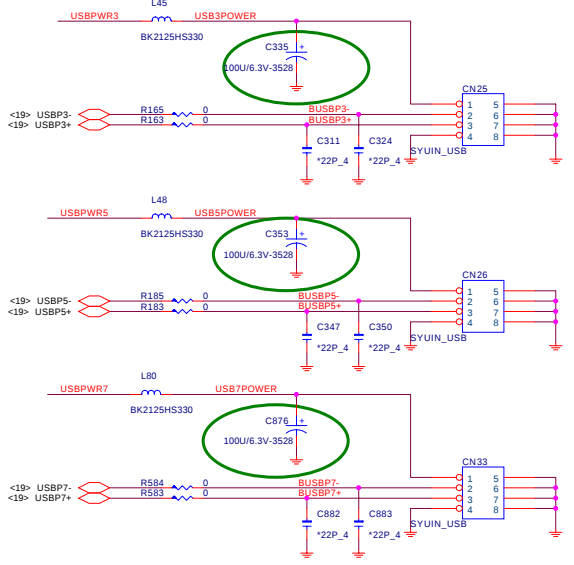




### MINI-PCI



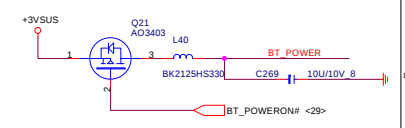
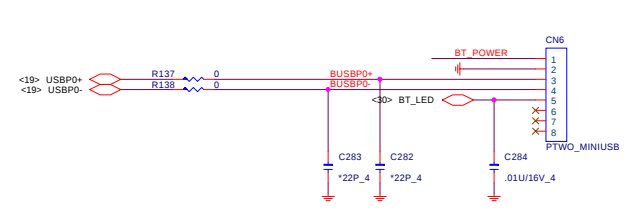
F: CHANGE TO 100UF



BOT

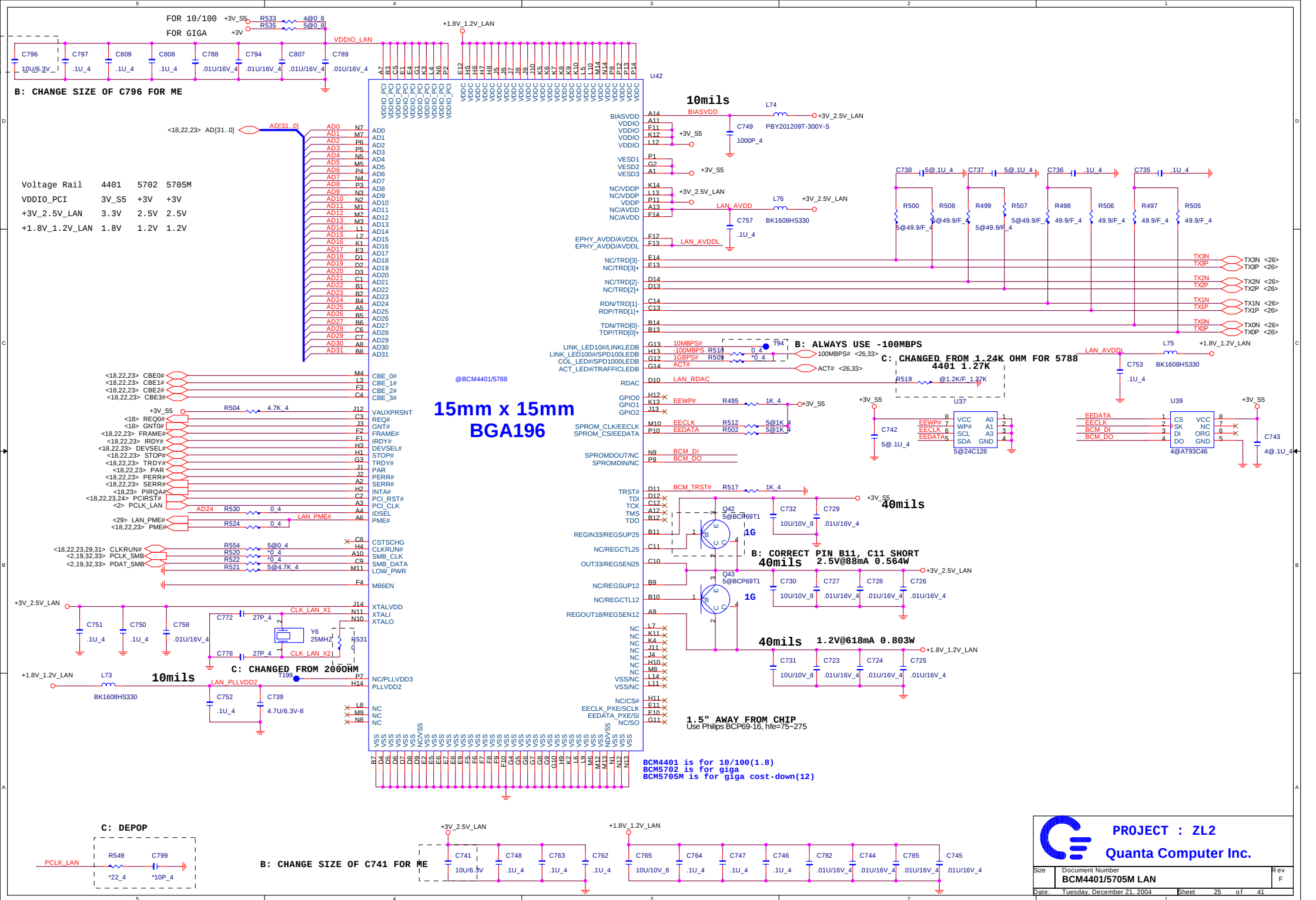


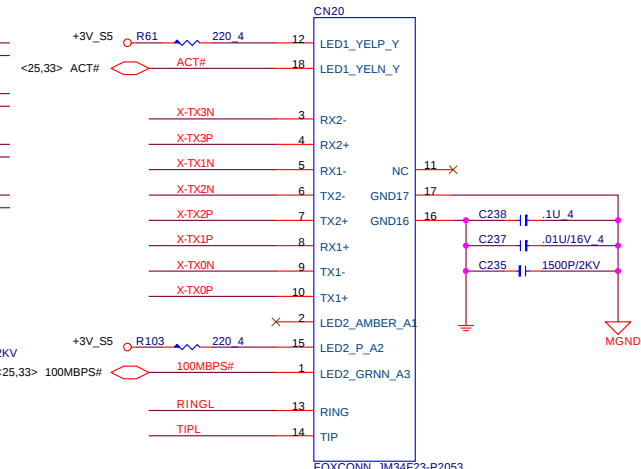
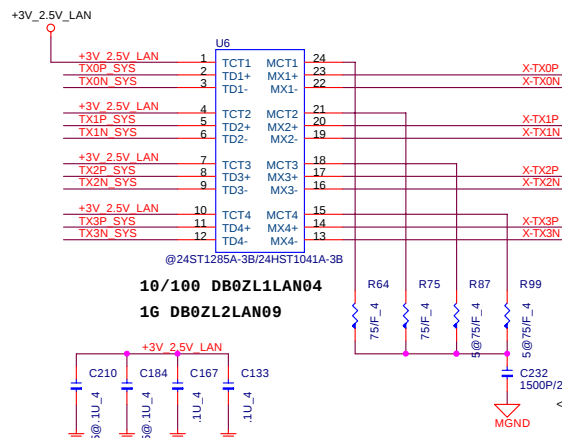
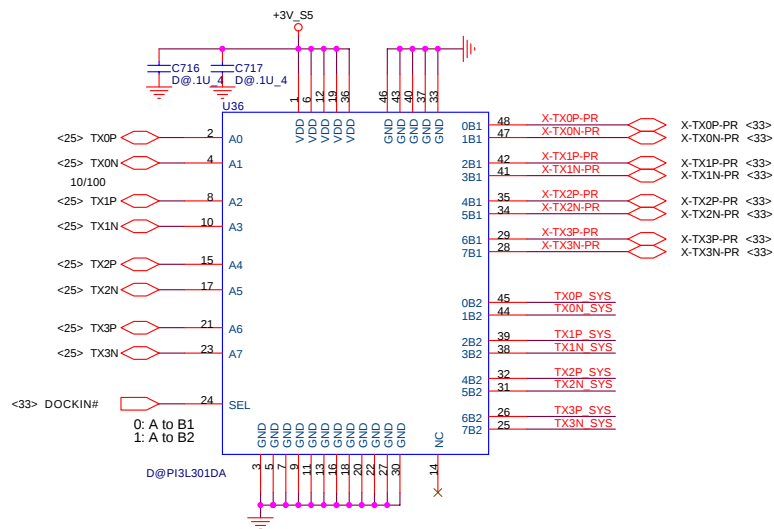
**B: REMOVE CHOKE PADS**



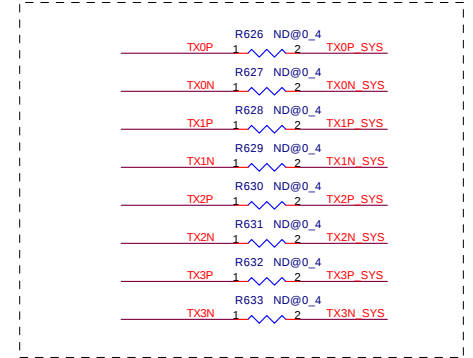




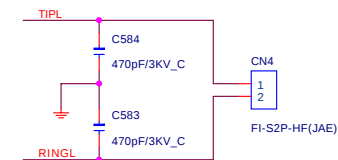




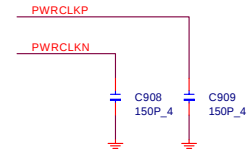
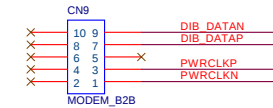
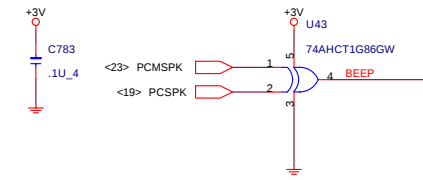
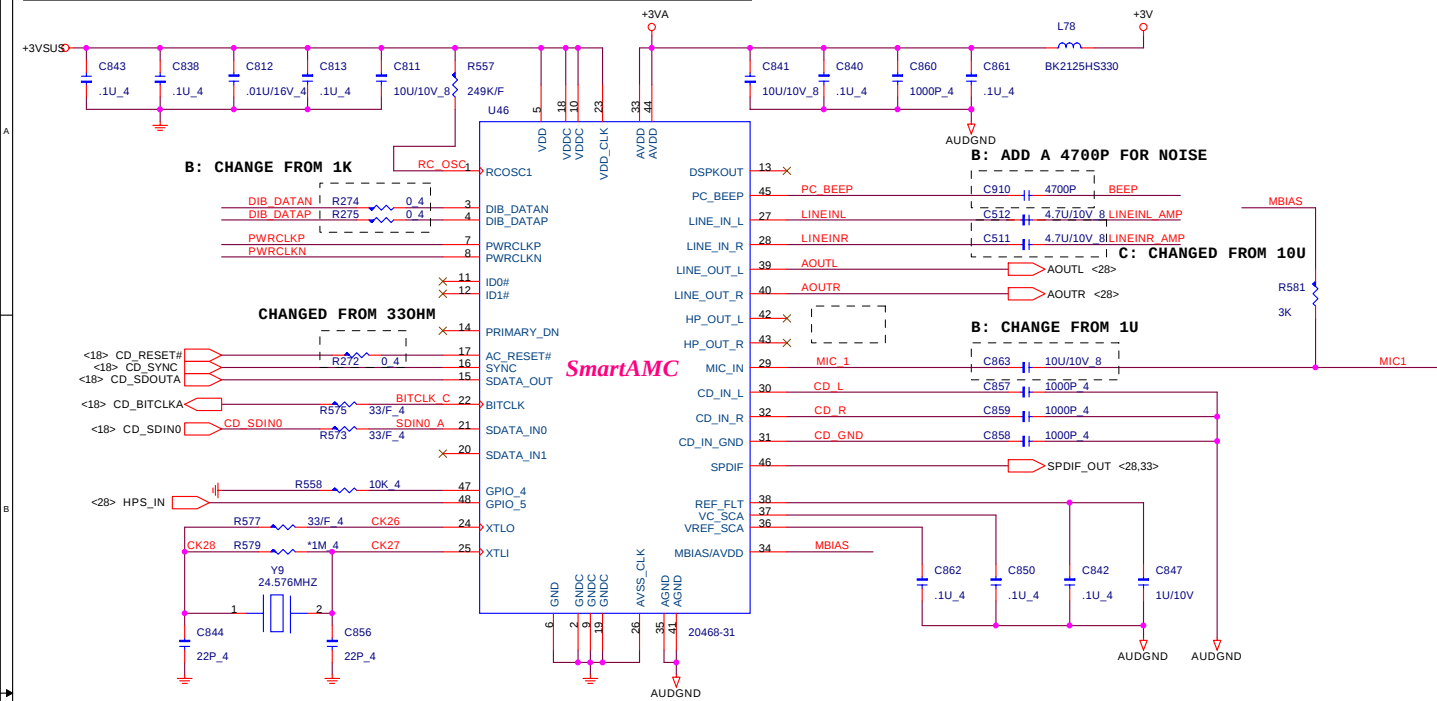
B: DEPOP C210, C184, R87, R99 WHEN NO 1G LAN



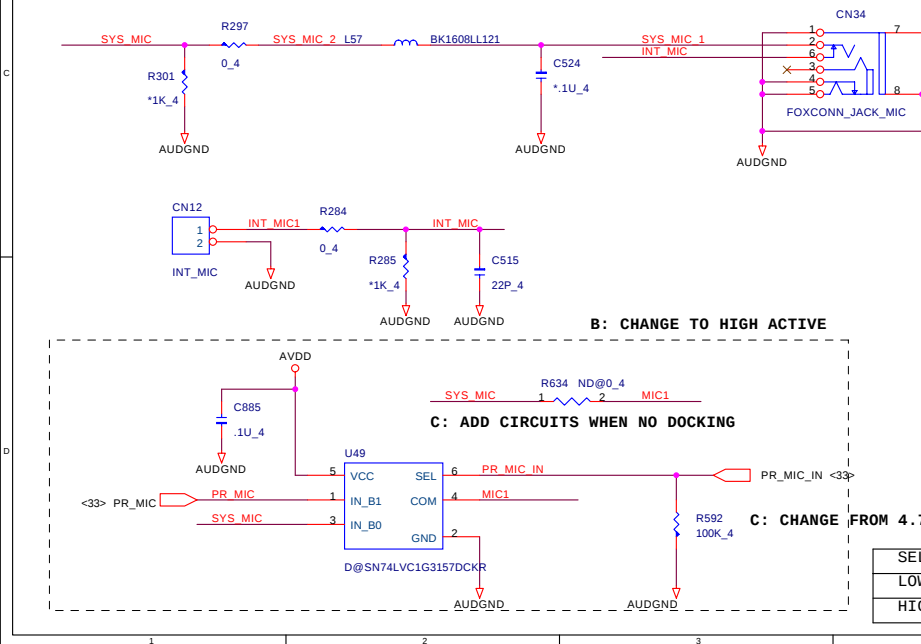
C: ADD CIRCUITS WHEN NO DOCKING



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

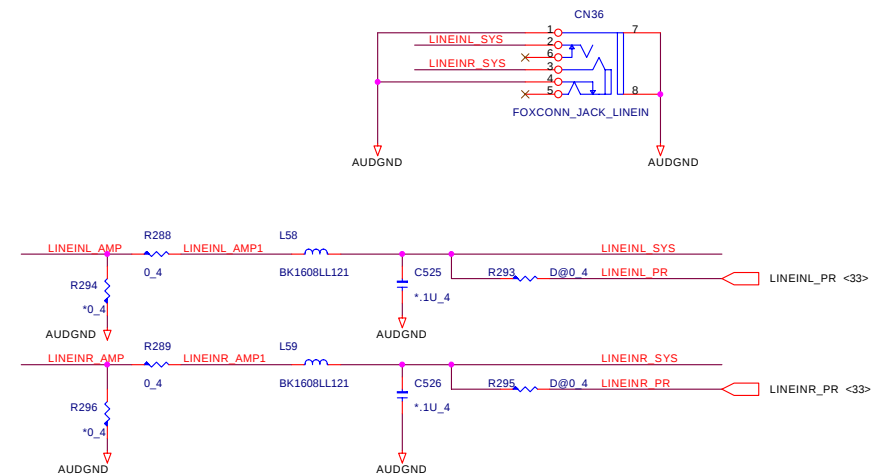


MIC

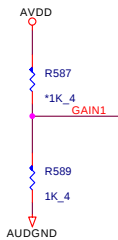


| SEL  | FUNCTION |
|------|----------|
| LOW  | IN_B0    |
| HIGH | IN_B1    |

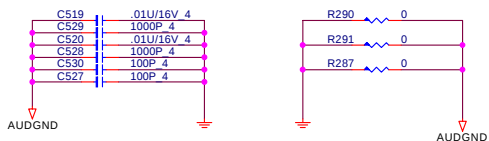
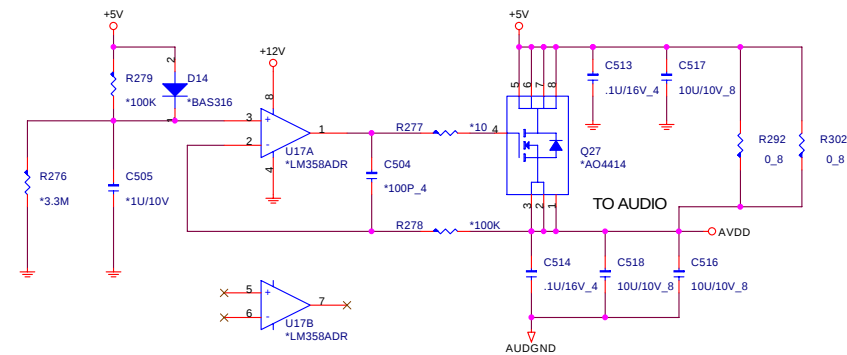
LINE IN



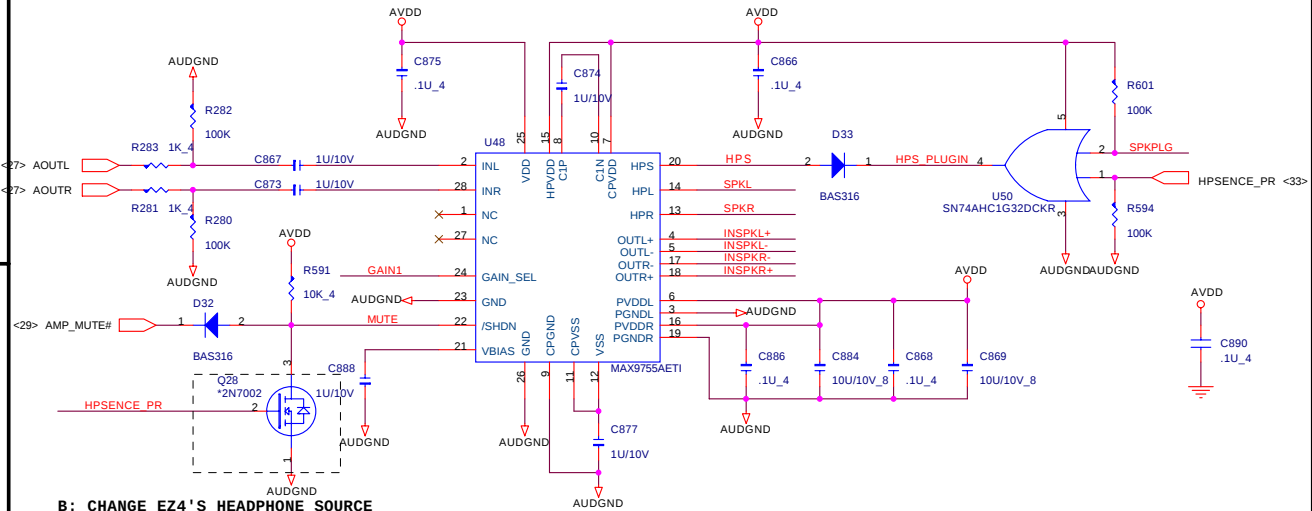
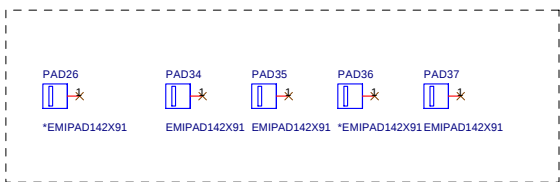
| GAIN1 | SPKR MODE | HP MODE |
|-------|-----------|---------|
| 0     | 10.5      | 3       |
| 1     | 9         | 0       |



# AMP POWER

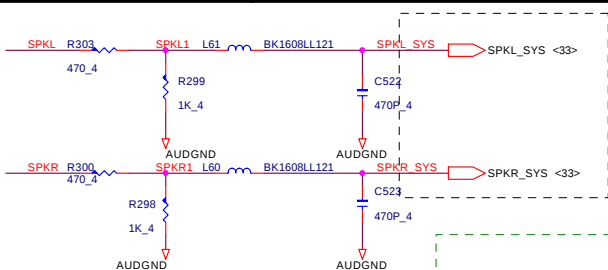
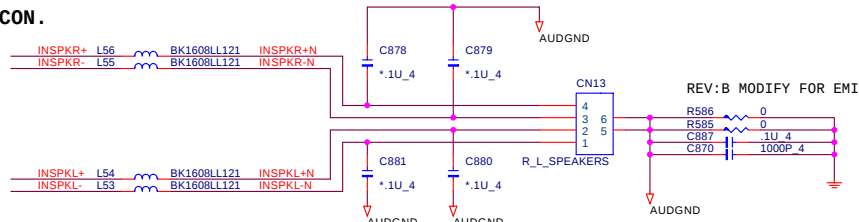
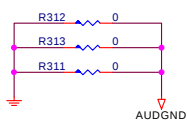


- F: RESTORE PAD26 FOR EMI REQUEST
- E: REMOVE PAD26, AND PAD35 CHANGE LOCATION
- B: ADD SPRING FOR MODEM CABLE

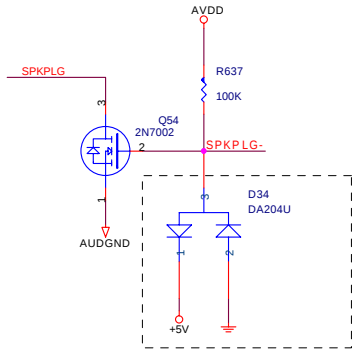


## B: CHANGE EZ4'S HEADPHONE SOURCE

## SPEAKER CON.

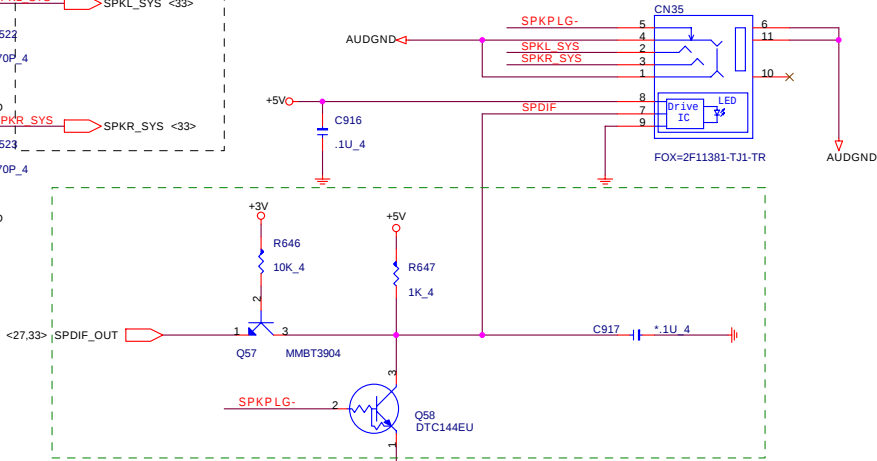


## B: CHANGE EZ4'S HEADPHONE SOURCE



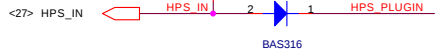
## D: CHANGE TO SPDIF CONN

## LINE OUT&SPDIF



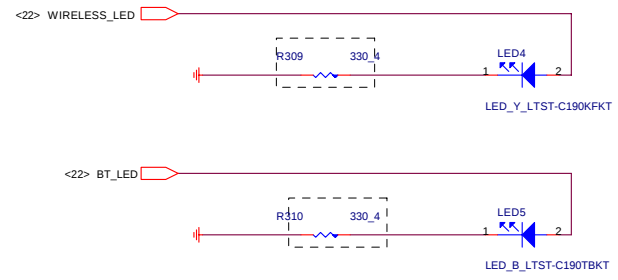
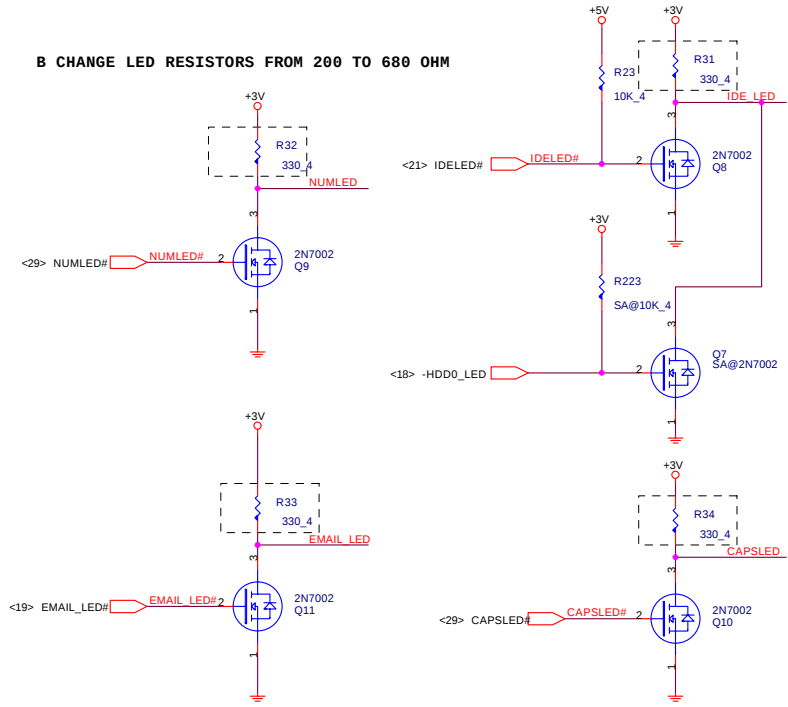
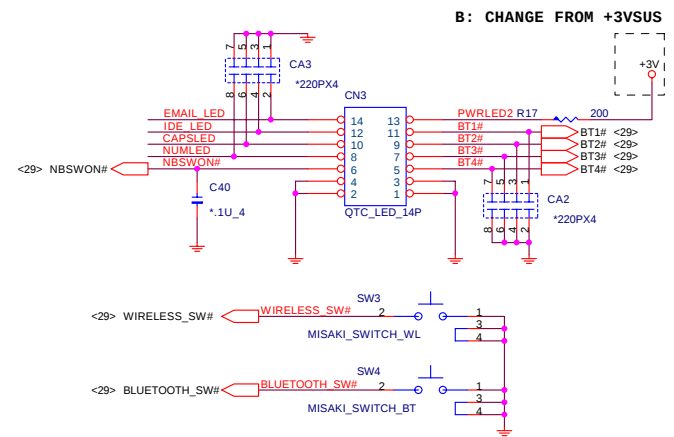
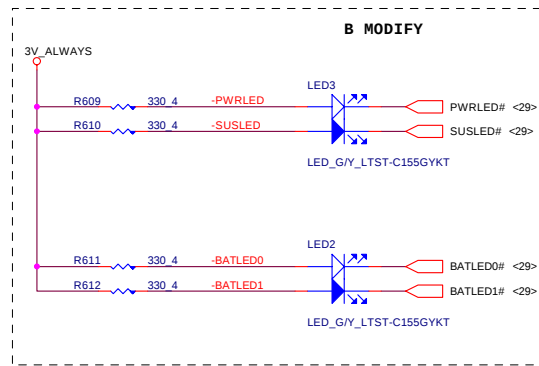
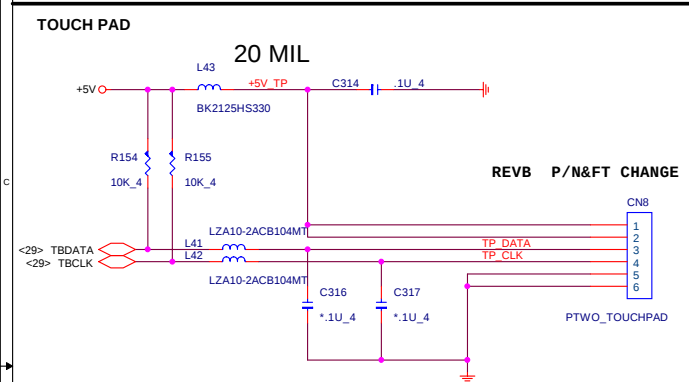
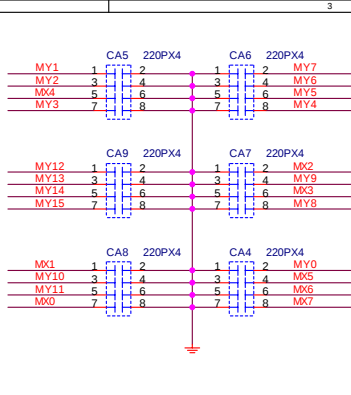
## F: TURN OFF LED WHEN NO PLUG

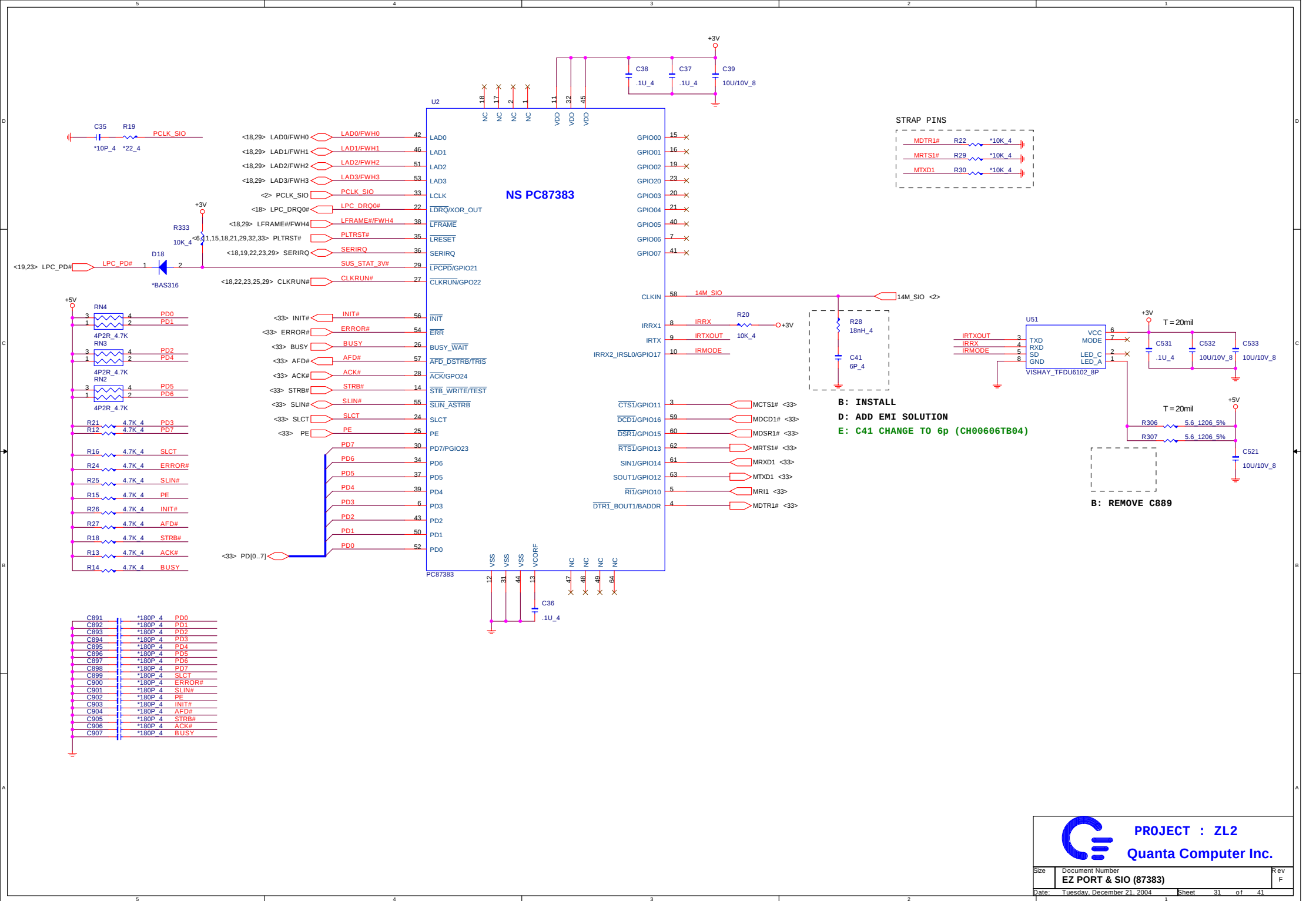
- F: NEW ADD FOR ESD
- CLOSE TO CN35

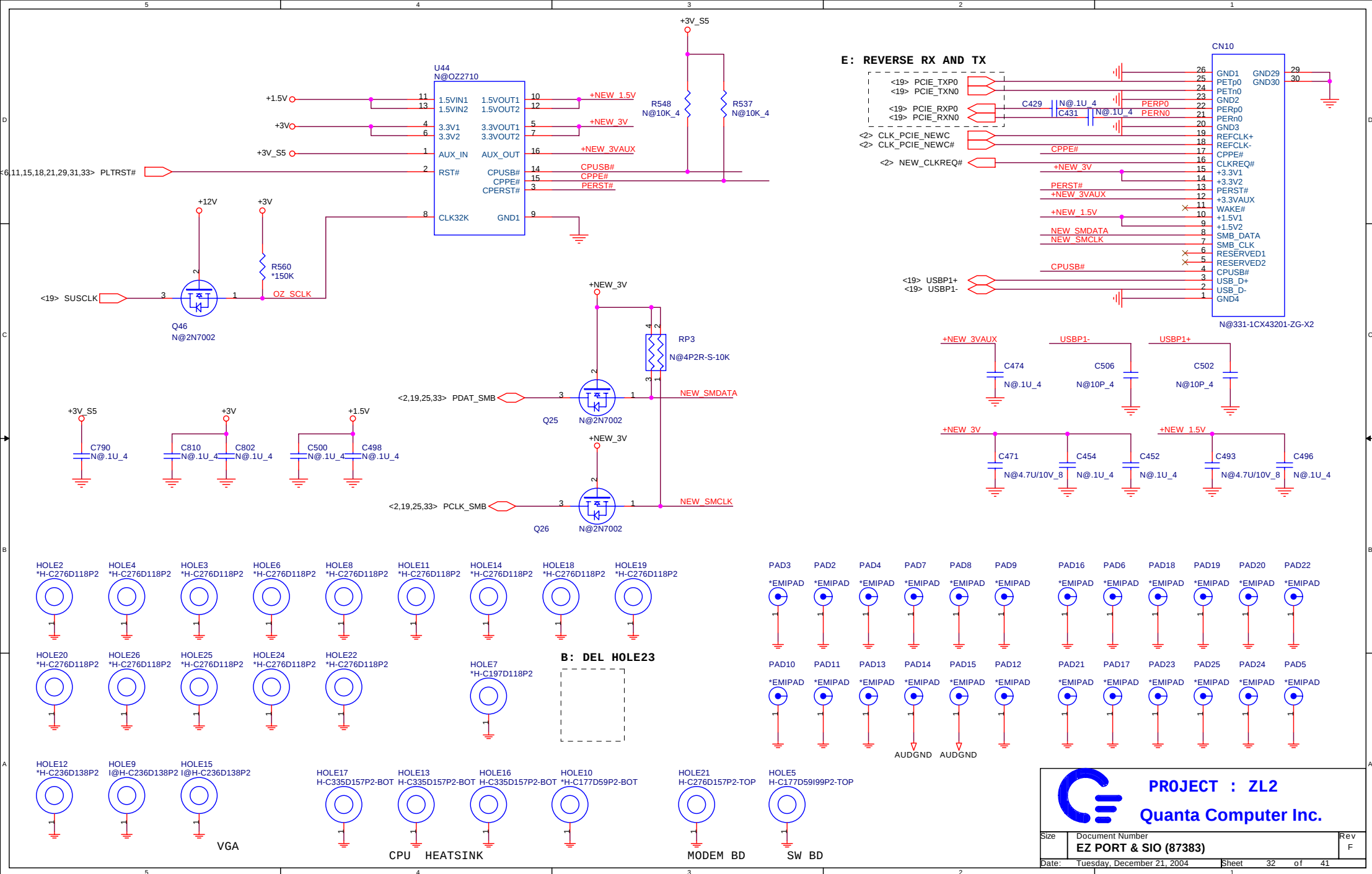


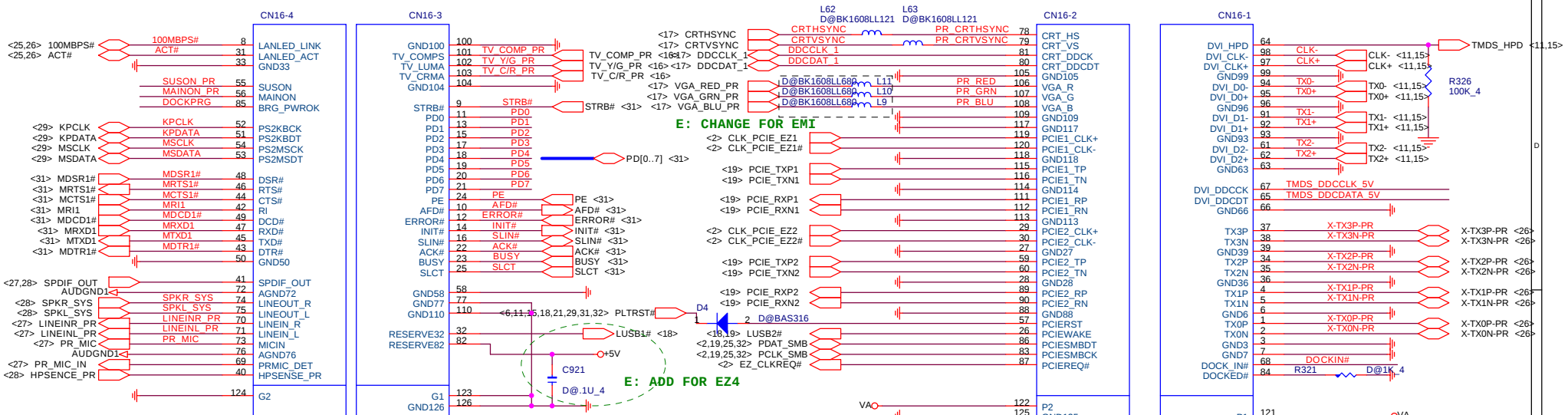
**PROJECT : ZL2**  
**Quanta Computer Inc.**



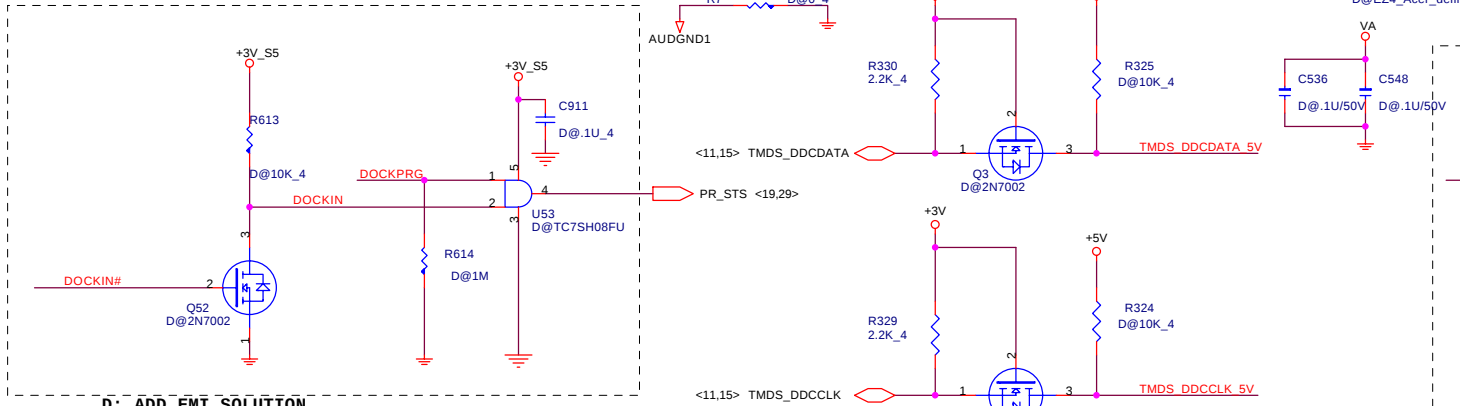




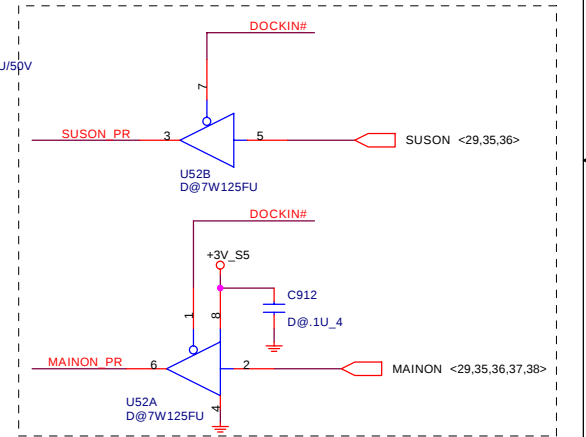




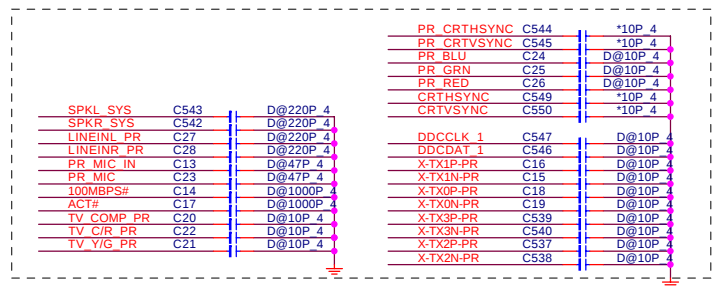
**B: DOCKING CIRCUITS MODIFIED**



**B: DOCKING CIRCUITS MODIFIED**

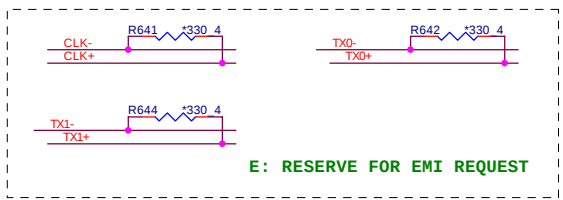
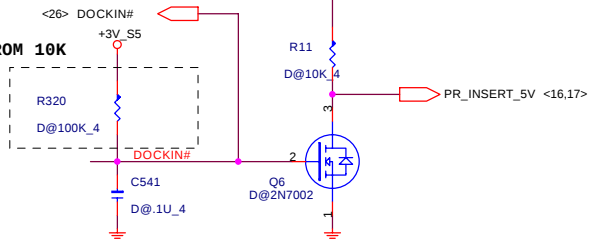


**D: ADD EMI SOLUTION**

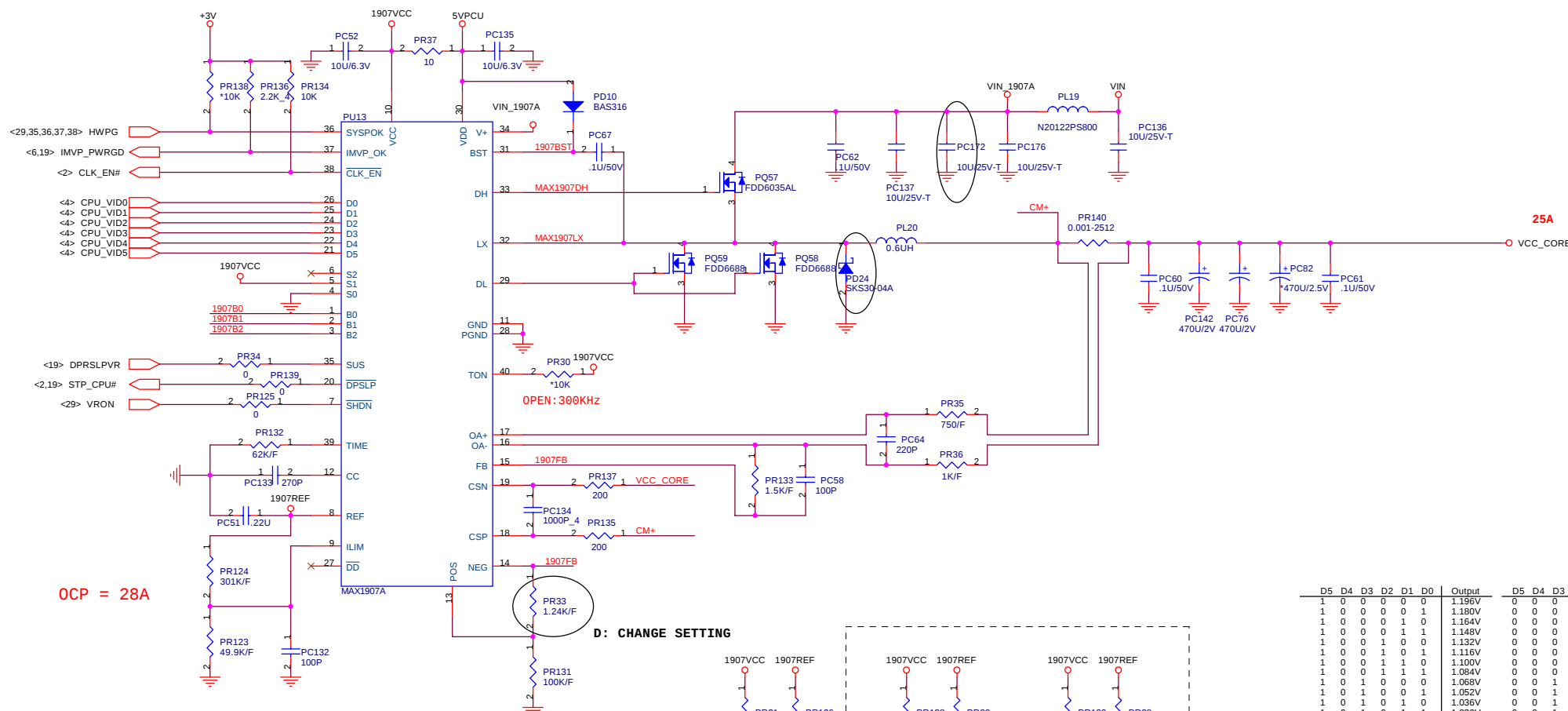


**E: POP C24,25,26 FOR EMI**

**B: CHANGED FROM 10K**

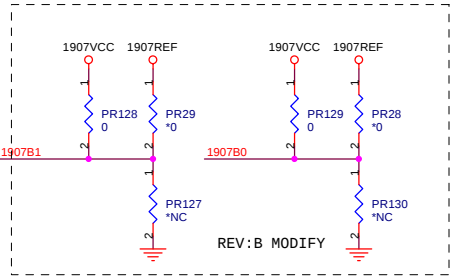


**E: RESERVE FOR EMI REQUEST**



OCP = 28A

D: CHANGE SETTING



D: CHANGE SETTING

SUSPEND MODE (SUS=HIGH)

| S2 | S1   | S0  | Output |
|----|------|-----|--------|
| ✓  | OPEN | VCC | GND    |
|    |      |     | 0.748V |

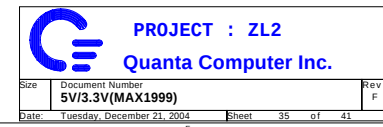
VCC\_BOOT

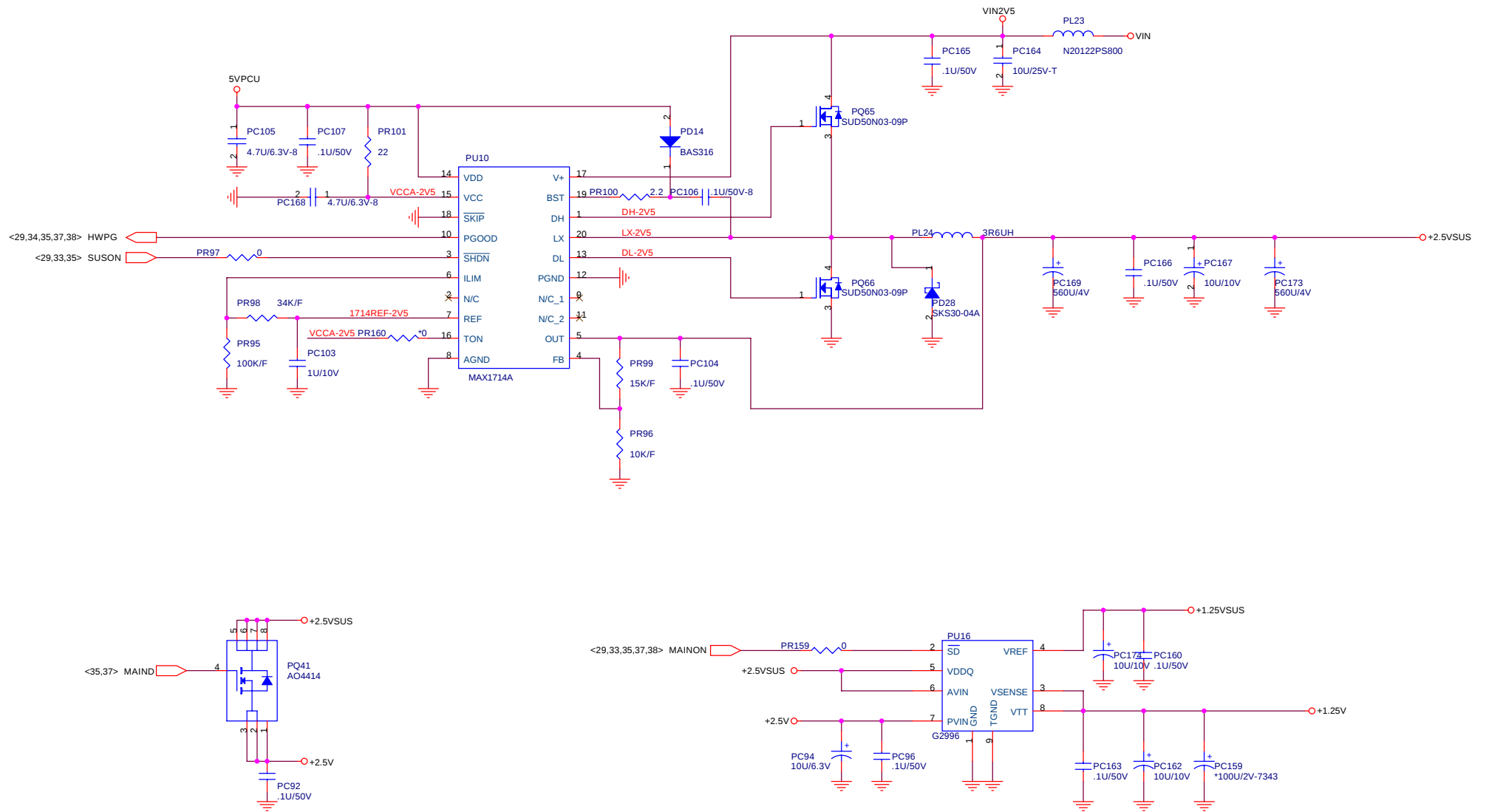
| B2   | B1   | B0   | Output |
|------|------|------|--------|
| GND  | GND  | GND  | 1.708V |
| REF  | REF  | REF  | 1.372V |
| OPEN | OPEN | OPEN | 1.036V |
| ✓    | VCC  | VCC  | 0.700V |
| ✓    | REF  | VCC  | 1.212V |

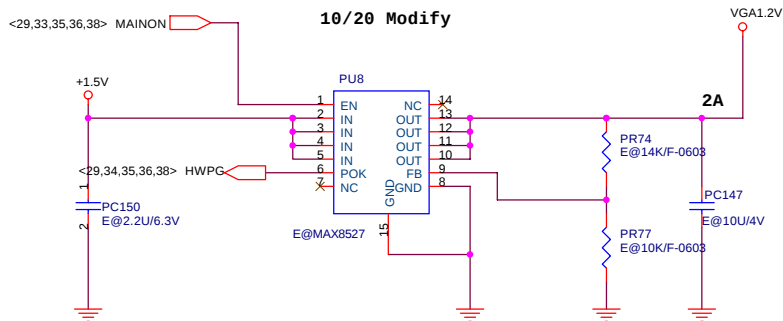
| D5 | D4 | D3 | D2 | D1 | D0 | Output | D5 | D4 | D3 | D2 | D1 | D0 | Output |
|----|----|----|----|----|----|--------|----|----|----|----|----|----|--------|
| 1  | 0  | 0  | 0  | 0  | 0  | 1.196V | 0  | 0  | 0  | 0  | 0  | 0  | 1.708V |
| 1  | 0  | 0  | 0  | 0  | 1  | 1.180V | 0  | 0  | 0  | 0  | 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  | 1  | 1.420V |
| 1  | 1  | 0  | 0  | 1  | 1  | 0.892V | 0  | 1  | 0  | 0  | 1  | 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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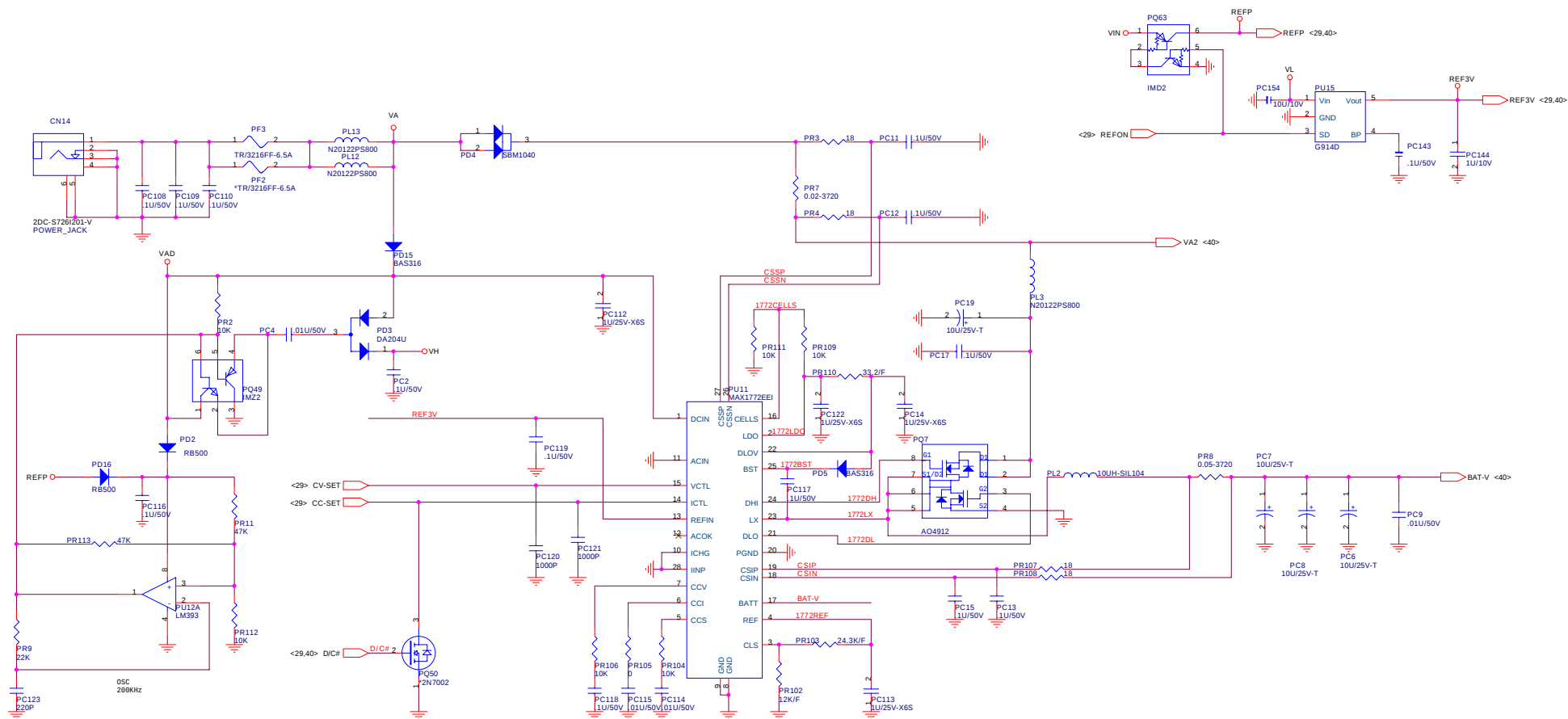
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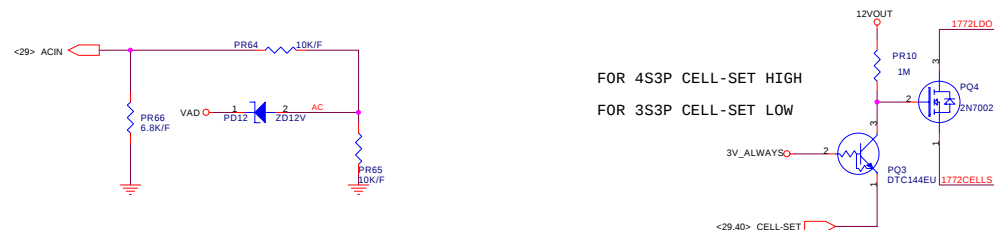






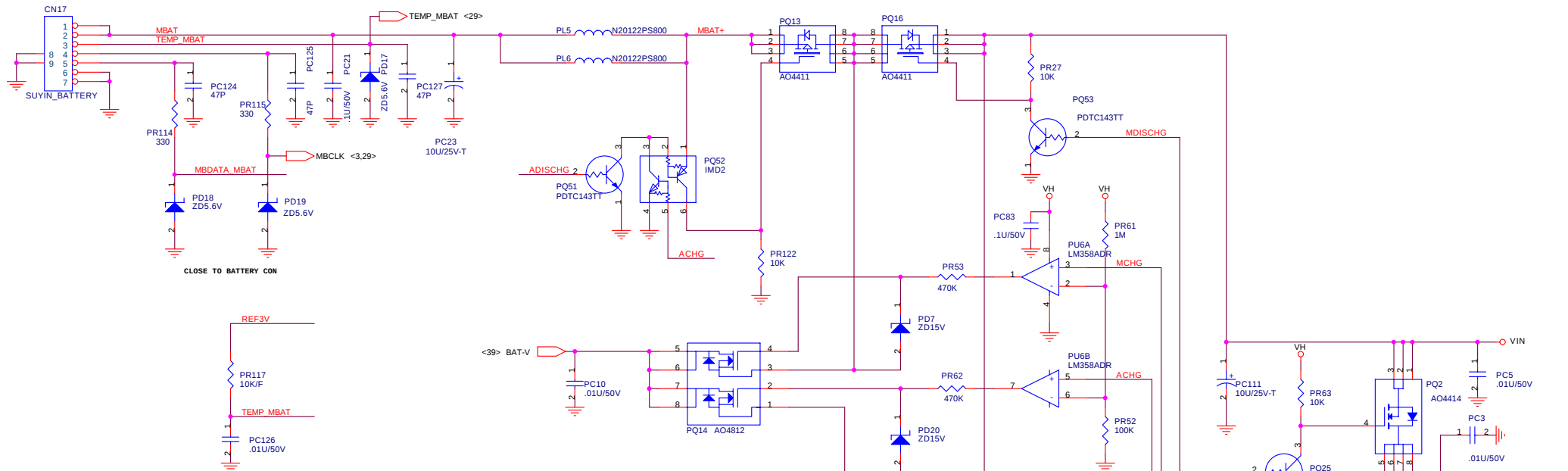


FOR 120W 6.2A

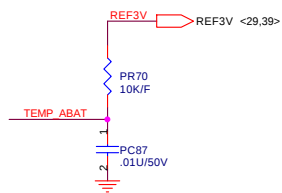
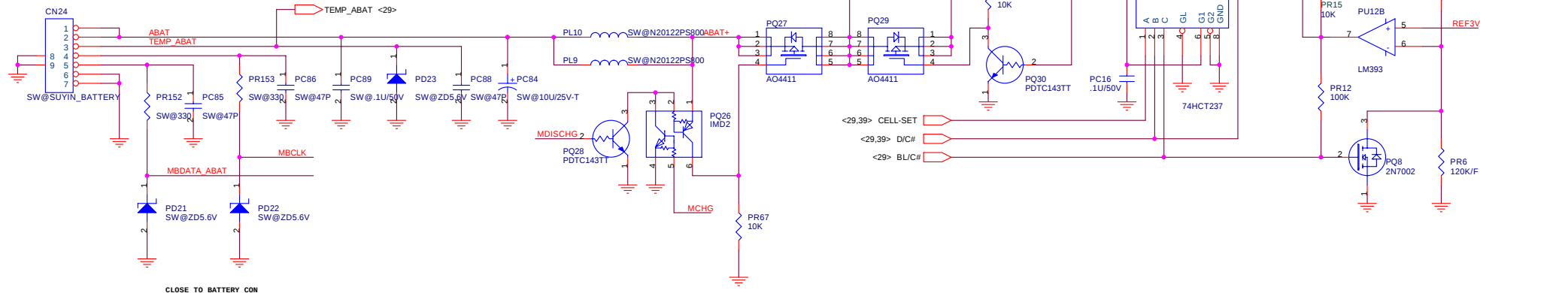


FOR 4S3P CELL-SET HIGH  
FOR 3S3P CELL-SET LOW

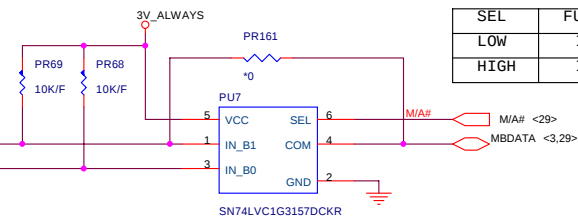
# 1ST\_BATT\_CONN



# 2ND\_BATT\_CONN



1ST\_BATT  
MBDATA\_MBAT  
2ND\_BATT



| SEL  | FUNCTION |
|------|----------|
| LOW  | IN_B0    |
| HIGH | IN_B1    |

**PROJECT : ZL2**  
**Quanta Computer Inc.**

| MODEL :                                                                                                                             |                                                                                                                                                                                           | REV:                                                                                             | CHANGE LIST:                                                                                                                                                                 | PAGE                                              | FROM                             | TO                 |    |                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------|--------------------|----|------------------|--|
| ZL2<br>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 VGA1.2V                                                                                                                                                      |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     |                                                                                                                                                                                           | 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 C889 2. 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                                                |                                  |                    |    |                  |  |
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|                                                                                                                                     |                                                                                                                                                                                           |                                                                                                  | PAGE2                                                                                                                                                                        | 1. ADD PULLUPS ON CLKREQ PINS                     | 26                               |                    |    |                  |  |
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| PAGE17                                                                                                                              | 1. CHANGE LC VALUES FOR RGB                                                                                                                                                               |                                                                                                  | 30                                                                                                                                                                           |                                                   |                                  |                    |    |                  |  |
| PAGE16, 17,                                                                                                                         | 26 ADD 0 OHM RESISTORS TO SUBSTITUE SWITCHES WHEN NO DOCKING                                                                                                                              |                                                                                                  | 31                                                                                                                                                                           |                                                   |                                  |                    |    |                  |  |
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| 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                                                              |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     | PAGE3                                                                                                                                                                                     | 1. POP R449                                                                                      |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     | PAGE6                                                                                                                                                                                     | 1. DEPOP RP7                                                                                     |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     | PAGE16                                                                                                                                                                                    | 1. LID SW FOOTPRINT CHANGED                                                                      |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     | PAGE19                                                                                                                                                                                    | 1. ADD MB_ID3                                                                                    |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     | PAGE21                                                                                                                                                                                    | 1. CHANGE C82'S RATING TO 25V                                                                    |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     | PAGE28                                                                                                                                                                                    | 1. PHONE JACK CHANGED TO SPDIF                                                                   |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     | PAGE30                                                                                                                                                                                    | 1. CHANGE R338 TO 100K                                                                           |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     | 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                                                                        |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
| PAGE24                                                                                                                              |                                                                                                                                                                                           | 1. ADD 330HM CURRENT LIMIT ON VCC_XD                                                             |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
| PAGE32                                                                                                                              |                                                                                                                                                                                           | 1. REVERSE RX AND TX                                                                             |                                                                                                                                                                              |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     |                                                                                                                                                                                           |                                                                                                  | PAGE 35                                                                                                                                                                      | 1. CHANGE PC68 COMPONENT.                         |                                  |                    |    |                  |  |
|                                                                                                                                     |                                                                                                                                                                                           |                                                                                                  | PAGE 36                                                                                                                                                                      | 1. CHANGE PR99 PD28 COMPONENT.                    |                                  |                    |    |                  |  |
|                                                                                                                                     |                                                                                                                                                                                           |                                                                                                  | PAGE 37                                                                                                                                                                      | 1. CHANGE PD26 PD27 COMPONENT.                    |                                  |                    |    |                  |  |
|                                                                                                                                     |                                                                                                                                                                                           | PAGE 38                                                                                          | 1. CHANGE PR51 COMPONENT.                                                                                                                                                    |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     |                                                                                                                                                                                           | PAGE 39                                                                                          | 1. CHANGE PQ7 COMPONENT.                                                                                                                                                     |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     |                                                                                                                                                                                           |                                                                                                  | 2. CHANGE PR74 PR77 PU8 PC147 PC150 COMPONENT.                                                                                                                               |                                                   |                                  |                    |    |                  |  |
|                                                                                                                                     |                                                                                                                                                                                           |                                                                                                  | 2. CHANGE PD29 PD30 COMPONENT.                                                                                                                                               |                                                   |                                  |                    |    |                  |  |
| <div>PROJECT : ZL2<br/>Quanta Computer Inc.</div> |                                                                                                                                                                                           |                                                                                                  |                                                                                                                                                                              | COVER SHEET 1 OF 1                                |                                  |                    |    |                  |  |
| PROJECT : ZL2                                                                                                                       |                                                                                                                                                                                           |                                                                                                  |                                                                                                                                                                              | APPROVE BY: SELMON LIU                            |                                  | DRAWING BY:JOE LIN |    | REV              |  |
| MB ASSY'S P/N : 31ZL1MB0004                                                                                                         |                                                                                                                                                                                           |                                                                                                  |                                                                                                                                                                              | PROJECT LEADER: SELMON LIU                        |                                  | DOCUMENT NO:       |    | DATE :2004/06/01 |  |
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| Date:                                                                                                                               | Tuesday, December 21, 2004                                                                                                                                                                |                                                                                                  |                                                                                                                                                                              | Sheet                                             | 41                               | of                 | 41 |                  |  |