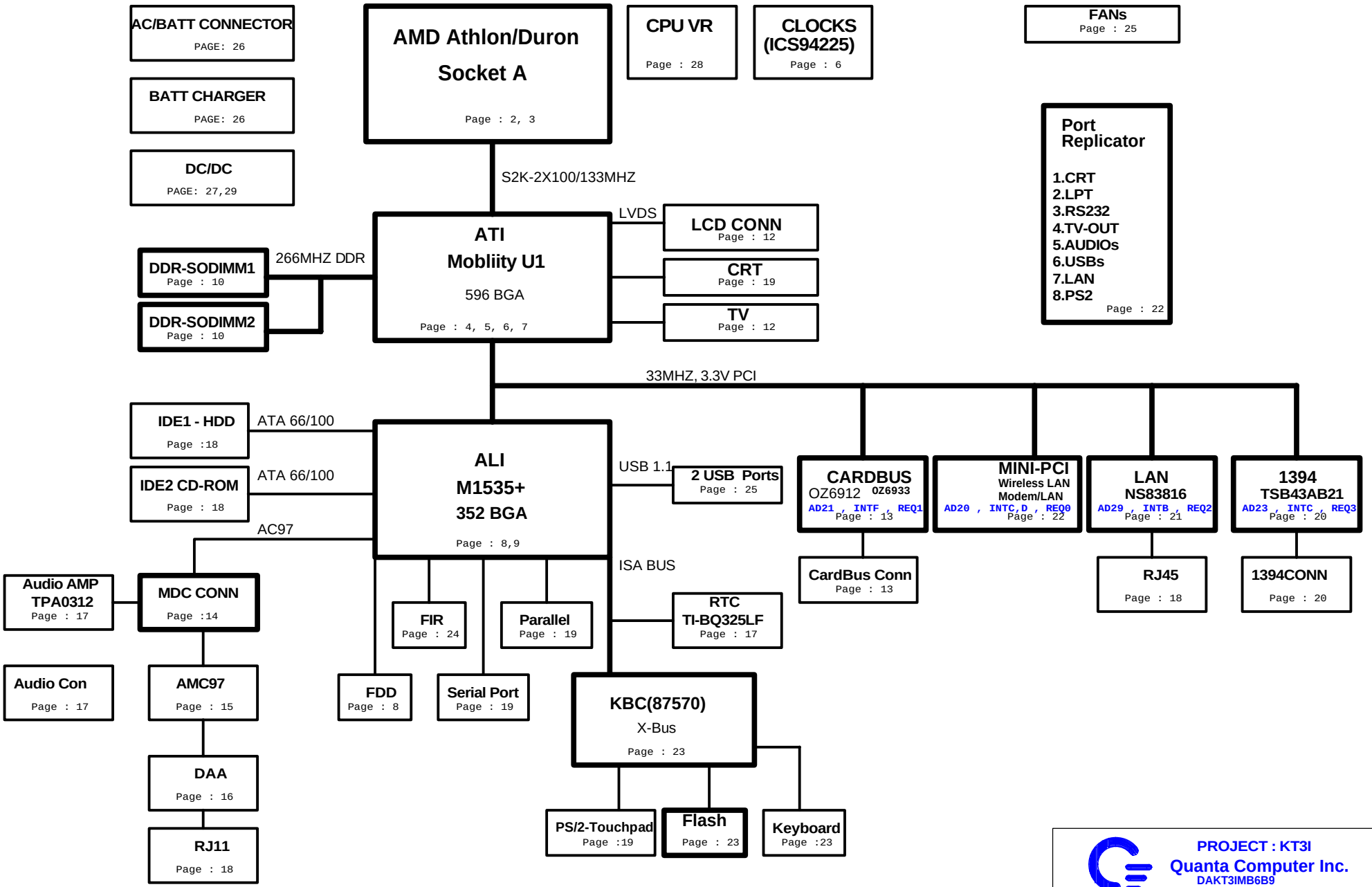
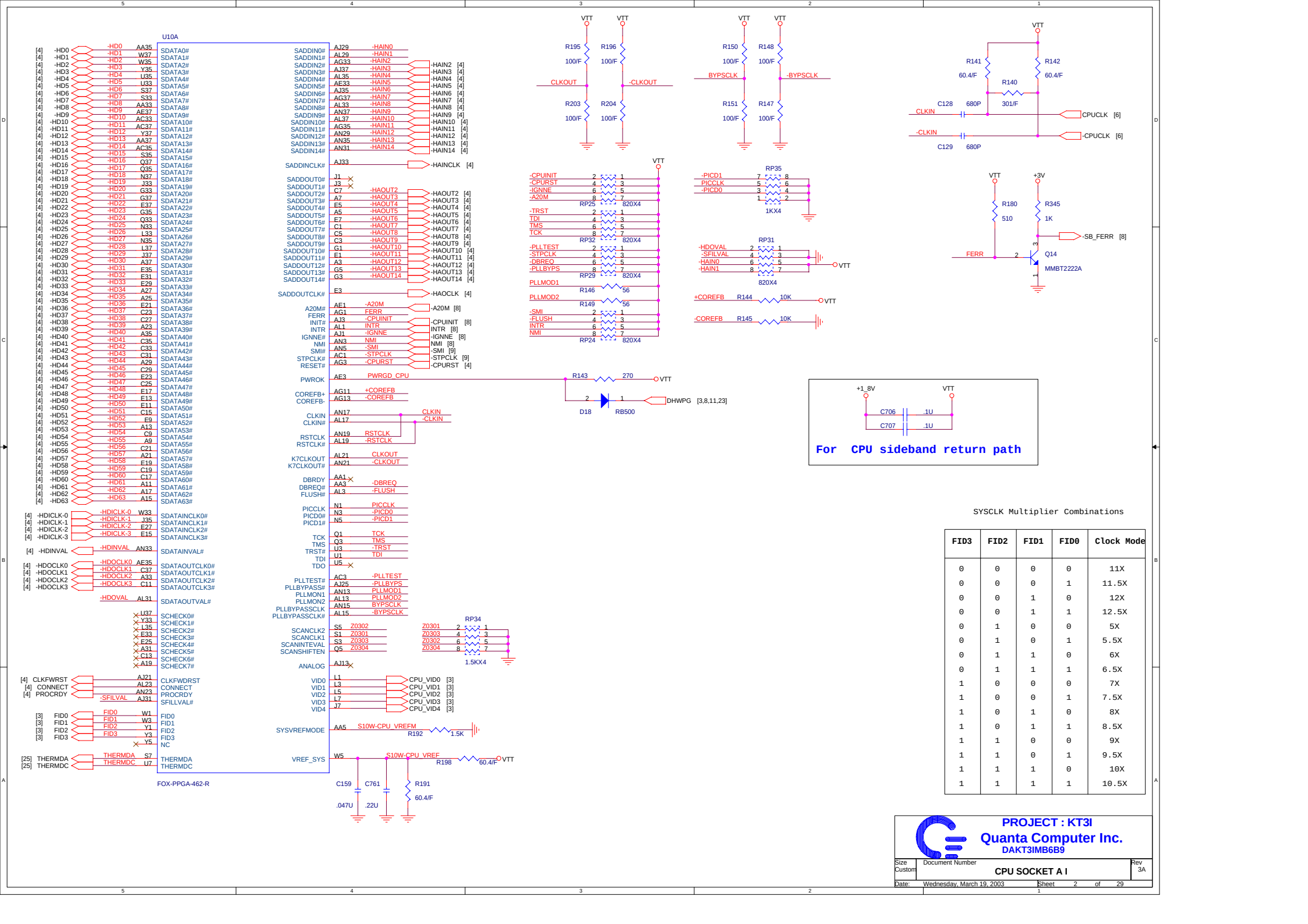
# T2.2

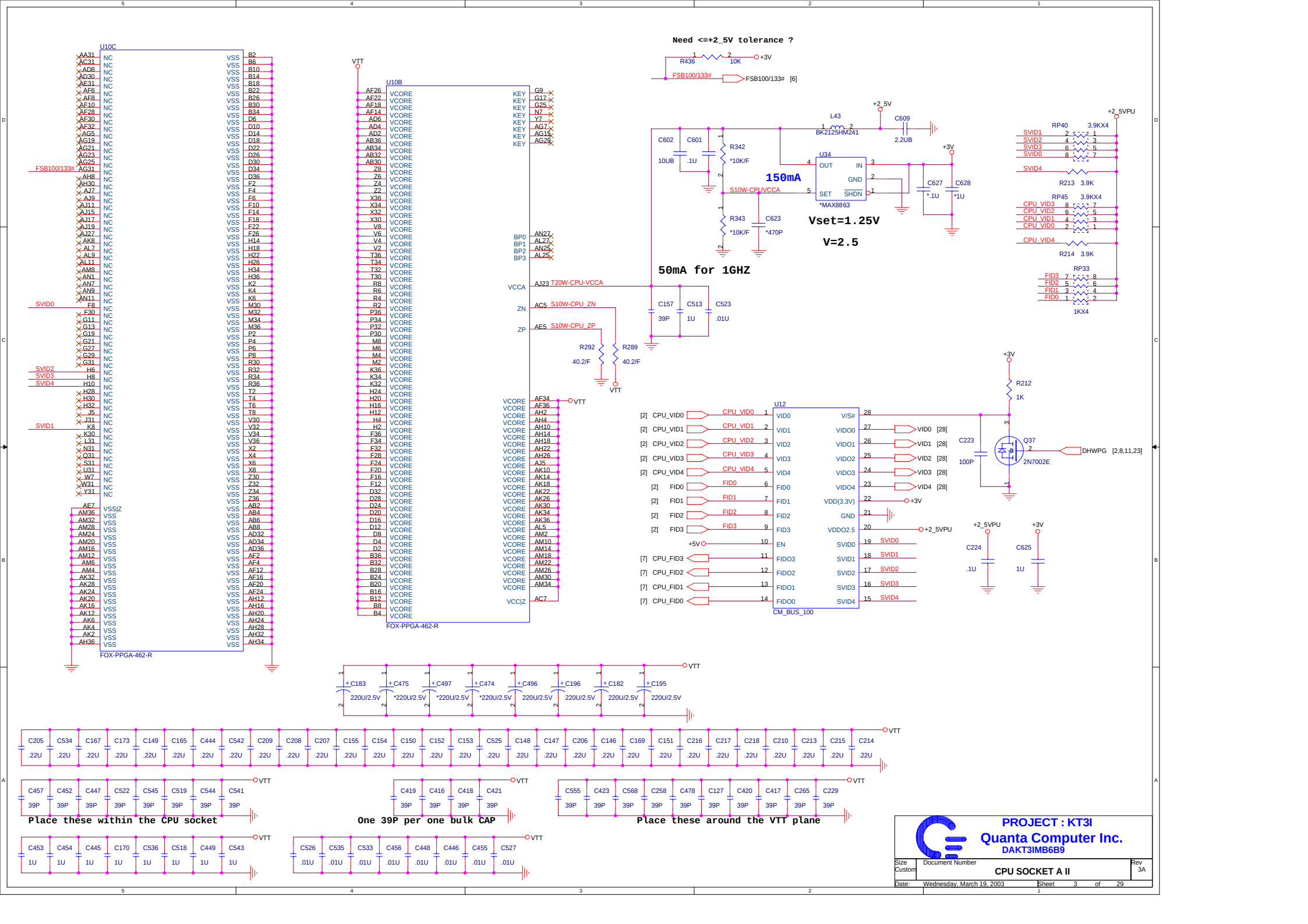


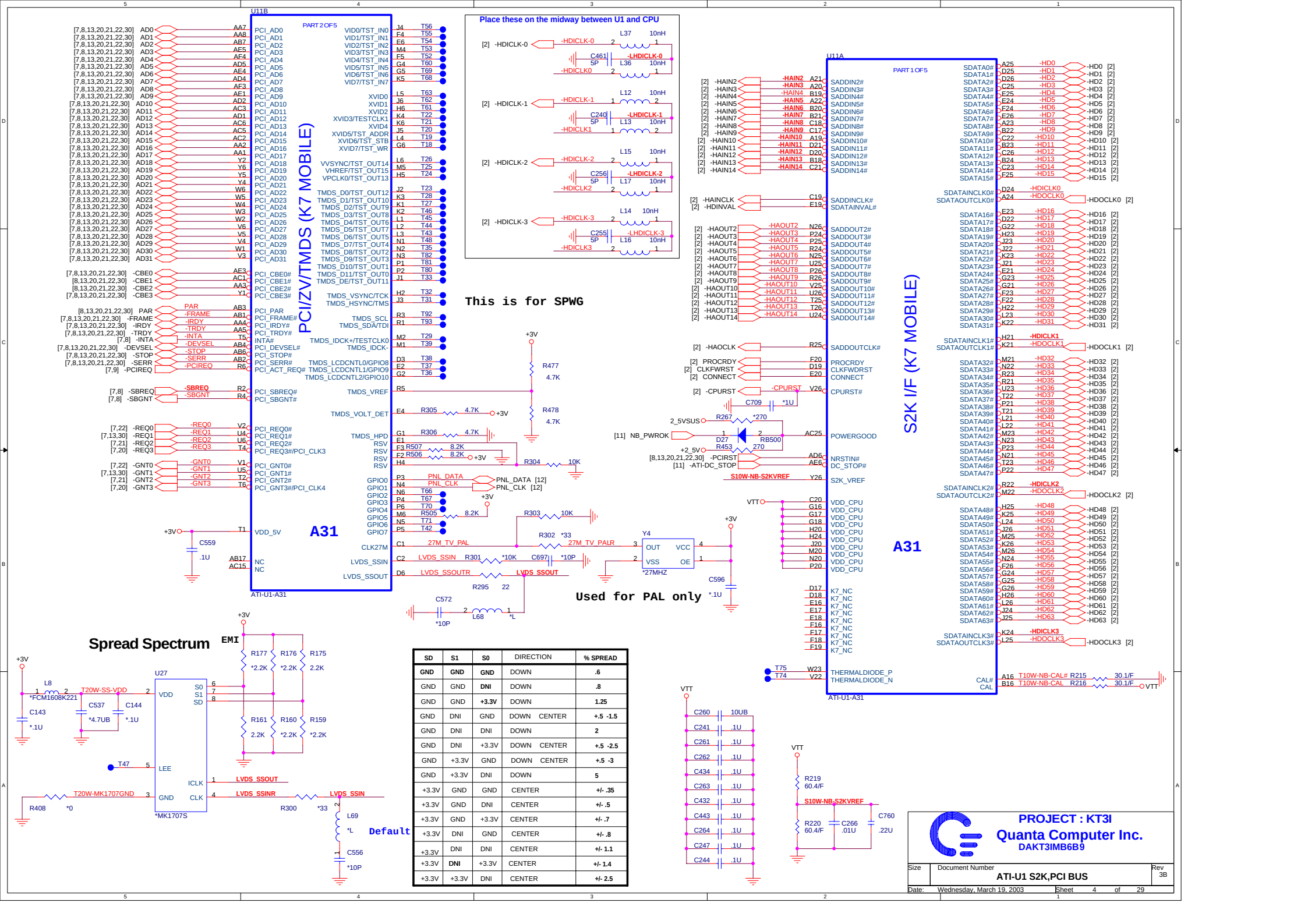

PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9

| Size | Document Number | Rev |
|---|---|---|
| B | Schematic Block Digram | 3D |
| Date: Wednesday, March 19, 2003 | Sheet 1 of 29 | |

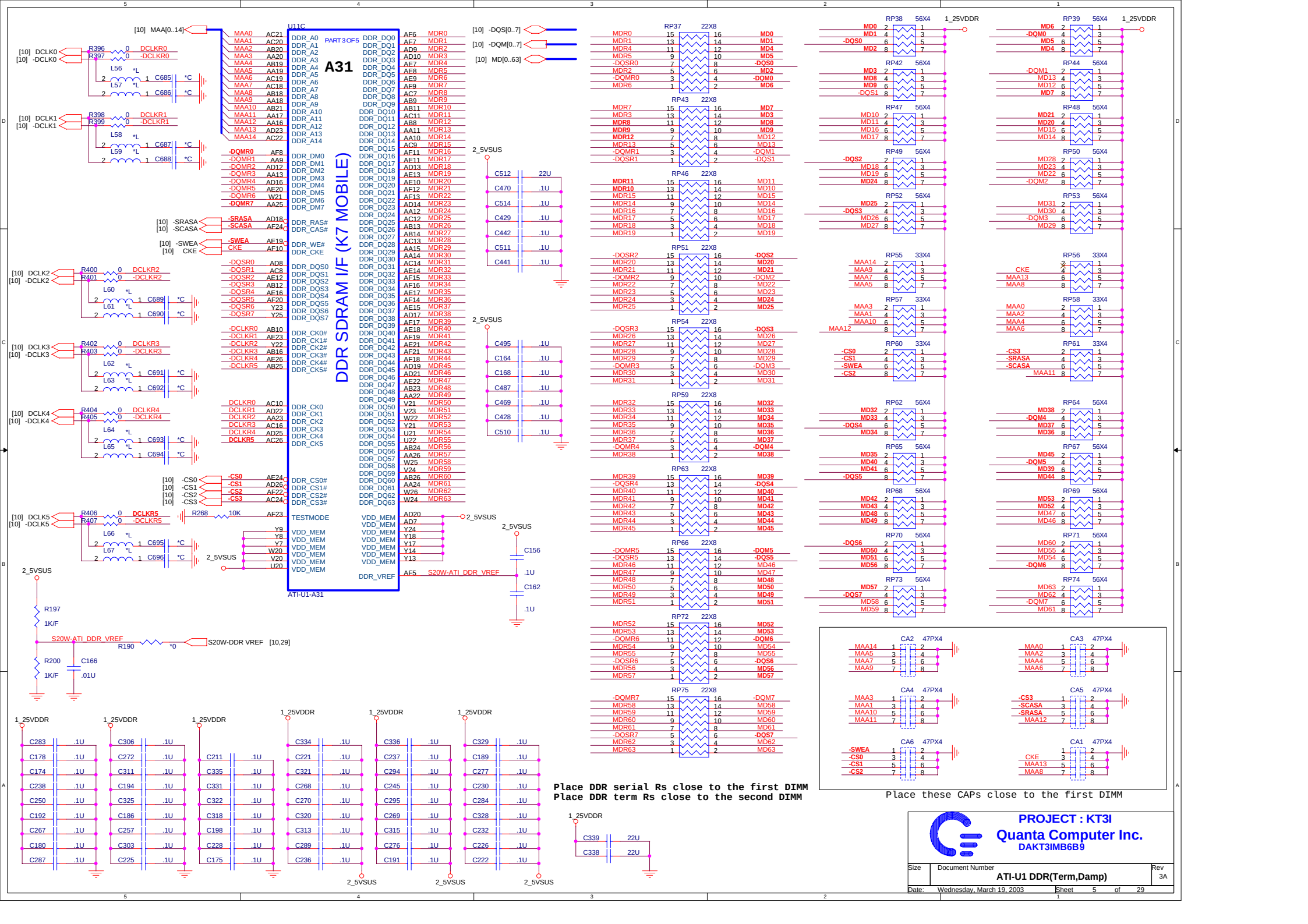



| FID3 | FID2 | FID1 | FID0 | Clock Mode |
|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 11X |
| 0 | 0 | 0 | 1 | 11.5X |
| 0 | 0 | 1 | 0 | 12X |
| 0 | 0 | 1 | 1 | 12.5X |
| 0 | 1 | 0 | 0 | 5X |
| 0 | 1 | 0 | 1 | 5.5X |
| 0 | 1 | 1 | 0 | 6X |
| 0 | 1 | 1 | 1 | 6.5X |
| 1 | 0 | 0 | 0 | 7X |
| 1 | 0 | 0 | 1 | 7.5X |
| 1 | 0 | 1 | 0 | 8X |
| 1 | 0 | 1 | 1 | 8.5X |
| 1 | 1 | 0 | 0 | 9X |
| 1 | 1 | 0 | 1 | 9.5X |
| 1 | 1 | 1 | 0 | 10X |
| 1 | 1 | 1 | 1 | 10.5X |


Need <=+2_5V tolerance ?
U10C
FOX-PPGA-462-R
U10B
FOX-PPGA-462-R
R436
10K
+3V
FSB100/133#
FSB100/133# [6]
L43
BK2125HM241
C609
2.2UB
+2_5V
C602
10UB
C601
.1U
R342
*10K/F
R343
*10K/F
C623
*470P
U34
*MAX8863
150mA
S10W-CPUVCCA
C627
*.1U
C628
*1U
Vset=1.25V
V=2.5
50mA for 1GHZ
+2_5VPU
RP40
3.9KX4
SVID1
SVID2
SVID3
SVID0
SVID4
R213
3.9K
RP45
3.9KX4
CPU_VID3
CPU_VID2
CPU_VID1
CPU_VID0
CPU_VID4
R214
3.9K
RP33
FID3
FID2
FID1
FID0
1KX4
VCCA
AJ23
T20W-CPU-VCCA
ZN
AC5
S10W-CPU_ZN
ZP
AE5
S10W-CPU_ZP
C157
39P
C513
1U
C523
.01U
R292
40.2/F
R289
40.2/F
VTT
U12
CM_BUS_100
CPU_VID0
CPU_VID1
CPU_VID2
CPU_VID3
CPU_VID4
FID0
FID1
FID2
FID3
CPU_FID3
CPU_FID2
CPU_FID1
CPU_FID0
VID0
VID1
VID2
VID3
VID4
FIDO3
FIDO2
FIDO1
FIDO0
V/S#
VIDO0
VIDO1
VIDO2
VIDO3
VIDO4
VDD(3.3V)
GND
VDDO2.5
EN
SVID0
SVID1
SVID2
SVID3
SVID4
R212
1K
C223
100P
Q37
2N7002E
DHWPG [2,8,11,23]
C224
.1U
C625
1U
C183
220U/2.5V
C475
*220U/2.5V
C497
*220U/2.5V
C474
*220U/2.5V
C496
220U/2.5V
C196
220U/2.5V
C182
220U/2.5V
C195
220U/2.5V
C205 C534 C167 C173 C149 C165 C444 C542 C209 C208 C207 C155 C154 C150 C152 C153 C525 C148 C147 C206 C146 C169 C151 C216 C217 C218 C210 C213 C215 C214
.22U
C457 C452 C447 C522 C545 C519 C544 C541
39P
Place these within the CPU socket
C419 C416 C418 C421
39P
One 39P per one bulk CAP
C555 C423 C568 C258 C478 C127 C420 C417 C265 C229
39P
Place these around the VTT plane
C453 C454 C445 C170 C536 C518 C449 C543
1U
C526 C535 C533 C456 C448 C446 C455 C527
.01U
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
Size: Custom
Document Number: CPU SOCKET A II
Rev: 3A
Date: Wednesday, March 19, 2003
Sheet 3 of 29




| SD | S1 | S0 | DIRECTION | % SPREAD |
|---|---|---|---|---|
| GND | GND | GND | DOWN | .6 |
| GND | GND | DNI | DOWN | .8 |
| GND | GND | +3.3V | DOWN | 1.25 |
| GND | DNI | GND | DOWN CENTER | +.5 -1.5 |
| GND | DNI | DNI | DOWN | 2 |
| GND | DNI | +3.3V | DOWN CENTER | +.5 -2.5 |
| GND | +3.3V | GND | DOWN CENTER | +.5 -3 |
| GND | +3.3V | DNI | DOWN | 5 |
| +3.3V | GND | GND | CENTER | +/- .35 |
| +3.3V | GND | DNI | CENTER | +/- .5 |
| +3.3V | GND | +3.3V | CENTER | +/- .7 |
| +3.3V | DNI | GND | CENTER | +/- .8 |
| +3.3V | DNI | DNI | CENTER | +/- 1.1 |
| +3.3V | DNI | +3.3V | CENTER | +/- 1.4 |
| +3.3V | +3.3V | DNI | CENTER | +/- 2.5 |


DDR SDRAM I/F (K7 MOBILE)
A31
U11C
PART 3 OF 5
ATI-U1-A31
[10] MAA[0..14]
[10] DCLK0
[10] -DCLK0
[10] DCLK1
[10] -DCLK1
[10] DCLK2
[10] -DCLK2
[10] DCLK3
[10] -DCLK3
[10] DCLK4
[10] -DCLK4
[10] DCLK5
[10] -DCLK5
[10] -SRASA
[10] -SCASA
[10] -SWEA
[10] CKE
[10] -CS0
[10] -CS1
[10] -CS2
[10] -CS3
[10] -DQS[0..7]
[10] -DQM[0..7]
[10] MD[0..63]
S20W-ATI_DDR_VREF
S20W-DDR VREF [10,29]
2_5VSUS
1_25VDDR
Place DDR serial Rs close to the first DIMM
Place DDR term Rs close to the second DIMM
Place these CAPs close to the first DIMM
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
Size
Document Number
ATI-U1 DDR(Term,Damp)
Rev
3A
Date: Wednesday, March 19, 2003
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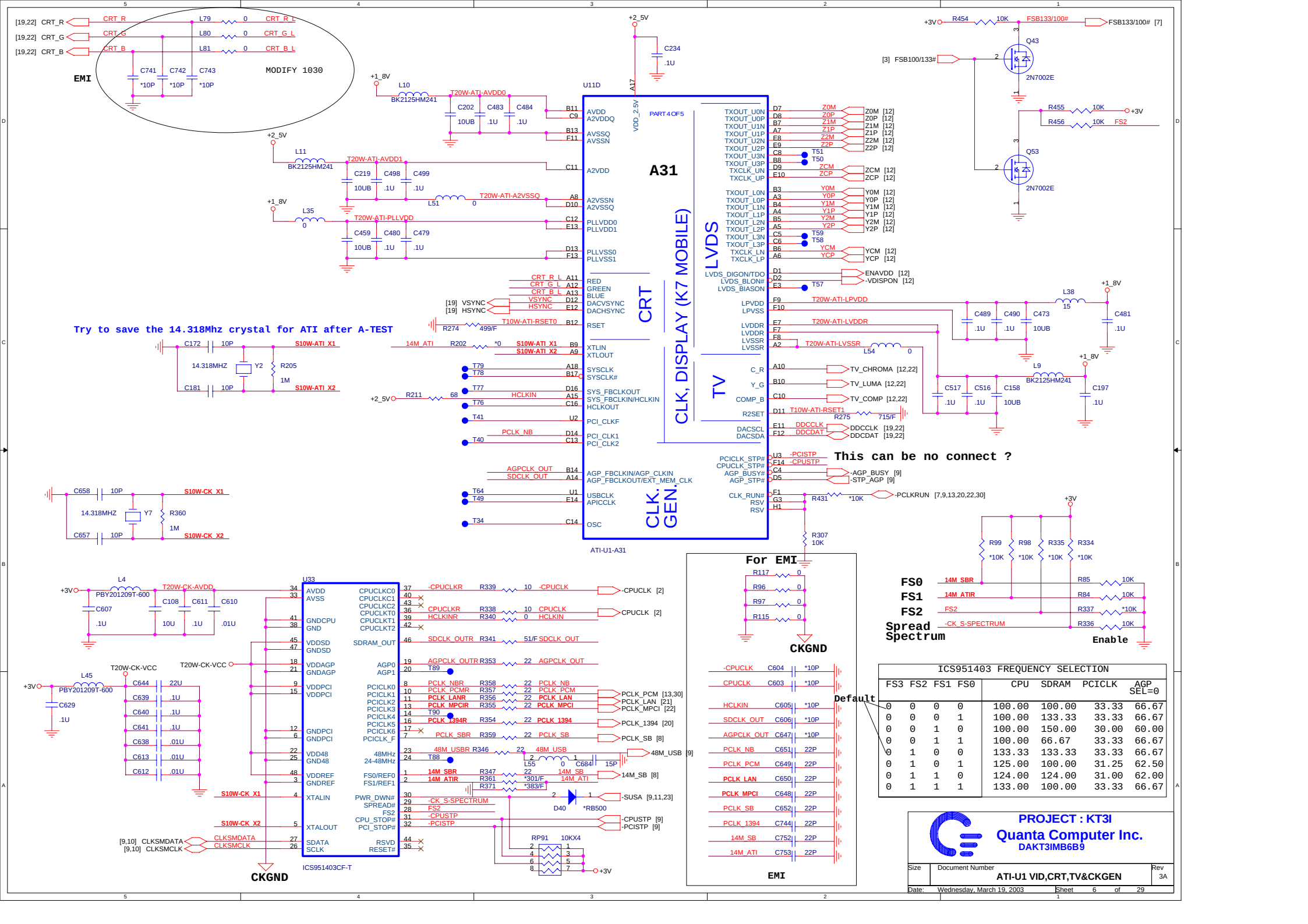



ICS951403 FREQUENCY SELECTION

| FS3 | FS2 | FS1 | FS0 | CPU | SDRAM | PCICLK | AGP SEL=0 |
|---|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 100.00 | 100.00 | 33.33 | 66.67 |
| 0 | 0 | 0 | 1 | 100.00 | 133.33 | 33.33 | 66.67 |
| 0 | 0 | 1 | 0 | 100.00 | 150.00 | 30.00 | 60.00 |
| 0 | 0 | 1 | 1 | 100.00 | 66.67 | 33.33 | 66.67 |
| 0 | 1 | 0 | 0 | 133.33 | 133.33 | 33.33 | 66.67 |
| 0 | 1 | 0 | 1 | 125.00 | 100.00 | 31.25 | 62.50 |
| 0 | 1 | 1 | 0 | 124.00 | 124.00 | 31.00 | 62.00 |
| 0 | 1 | 1 | 1 | 133.00 | 100.00 | 33.33 | 66.67 |

## ISA PU

RP14 4.7K-10P8R: +5V — SD0 SD1 SD2 SD3 SD4 SD5 SD6 SD7 — +5V

RP9 4.7K-10P8R: +5V — SA0 SA1 SA2 SA3 SA4 SA5 SA6 SA7 — +5V

RP10 4.7K-10P8R: +5V — SA8 SA9 SA10 SA11 SA12 SA13 SA14 SA15 — +5V

RP11 4.7K-10P8R: +5V — SA16 SA17 SA18 — -MEMW -MEMR -IOR -IOW — [8,23] IOCHRDY — +5V

SA[0..18] [8,23]

SD[0..7] [8,23]

## PCI PU

RP18 8.2K-10P8R: +3V — [4,8] -INTA, [8,21] -INTB, [8,20,22] -INTC, [8,22] -INTD — -INTE, -INTF, -SBREQ, -SBGNT — -INTE [8], -INTF [8,13,30], -SBREQ [4,8], -SBGNT [4,8] — +3V

Place this close to South Bridge

RP16 8.2K-10P8R: +3V — [4,22] -REQ0, [4,13,30] -REQ1, [4,21] -REQ2, [4,20] -REQ3 — -GNT0 -GNT1 -GNT2 -GNT3 — -GNT0 [4,22], -GNT1 [4,13,30], -GNT2 [4,21], -GNT3 [4,20] — +3V

Place this close to North Bridge

RP4 8.2K-10P8R: +3V — [4,8,13,20,21,22,30] -FRAME, [4,8,13,20,21,22,30] -TRDY, [4,8,13,20,21,22,30] -IRDY, [4,8,13,20,21,22,30] -DEVSEL — -STOP -SERR -PERR -PCLKRUN — -STOP [4,8,13,20,21,22,30], -SERR [4,8,13,20,21,22,30], -PERR [13,20,21,22,30], -PCLKRUN [6,9,13,20,22,30] — +3V

Place this close to Mini PCI

+1_8V: C280 10UB; C468 C438 C492 C494 C437 C485 C467 C465 C463 .1U

+1_8V: C274 10UB; C440 C435 C493 C436 C439 C491 C466 C464 C486 .1U

+3V: C562 10UB; C500 C502 C557 C508 C501 C558 C507 C503 C509 C506 .1U

## POWER (K7 MOBILE)

U11E PART 5 OF 5 — ATI-U1-A31

+1_8V: K10 K11 K12 K15 K16 K17 L10 L11 L12 L15 L16 L17 M10 M11 M12 M15 M16 M17 R10 R11 R12 R15 R16 R17 T10 T11 T12 T15 T16 T17 U10 U11 U12 U15 U16 U17 VDD_CORE

+3V: C7 G10 G11 T3 U7 V7 W7 Y3 VDD_3.3V; G7 K7 L7 VDD_VID; H3 P7 VDD_TMDS

C505 C504 .1U .1U

B15 C15 D15 E15 F15 G15 NC

T13 T14 T20 T24 U13 U14 Y10 Y11 Y12 Y15 Y16 Y19 Y20 GND

A1 A26 AA6 AA21 AB5 AB15 AB22 AC23 AC4 AC17 AD3 AD11 AD15 AD24 AE2 AE25 AF1 AF2 AF25 AF26 B1 B2 B25 B26 C3 C24 D4 D23 E5 E22 F6 F21 G8 G9 G12 G13 G14 G19 G20 H7 J7 K13 K14 K20 L13 L14 L20 M3 M7 M13 M14 M24 N7 N10 N11 N12 N13 N14 N15 N16 N17 P10 P11 P12 P13 P14 P15 P16 P17 R7 R13 R14 R20 T7 GND

AD0 R284 2.2K — Use Internal AGP

R278 *10K +3V; AD2 R281 2.2K — Disable Cal Defaults for CPU

AD3 R280 2.2K — PCI 33MHZ

### Panel IDs

+3V; RP27 10KX4; RP28 2.2KX4

AD5 AD7 AD4 AD6 — LCDID1 [12], LCDID0 [12], LCDID2 [12]

AD12 R297 2.2K

AD[0..31] [4,8,13,20,21,22,30]

AD20 R46 2.2K — REQ3/GNT3 used as REQ3/GNT3

AD21 R58 2.2K — Disable PLL Bypass mode

R45 *2.2K; AD24 R55 10K +3V — Disable INCLK_Delay; Enable INCLK_Delay

### S2K Timming

AD26 R44 2.2K; R54 *10K +3V — 00:Default(Best Performance); 01:Slow CPU by one cycle for read data

AD27 R43 2.2K; R53 *10K +3V — 10:Slow NB by one cycle for write data; 11:Slow Both by one cycle for write data

AD28 R42 2.2K; R52 *10K +3V — Disable Spread Spectrum; Enable Spread Spectrum

AD29 R51 2.2K; R41 *10K +3V — Use full Straps set; Use reduce Straps set

R288 *2.2K; AD8 R291 10K +3V — Disnable K7 outclk delay; Enable K7 outclk delay

AD11 R293 2.2K — Disable internal clock generator (A11 ASIC)

R287 2.2K; AD14 R283 *10K +3V — 1.2V Interface(Mobile); 1.7V Interface(Desktop) (Auto-Calibration Default Value)

AD15 R61 2.2K — S2K Interface

### CLK Speed

AD30 R40 *2.2K; R50 10K +3V — 00:66MHZ; 01:100MHZ

AD31 R49 *2.2K; R39 *10K +3V — 10:166MHZ; 11:133MHZ

R418 2.2K FSB133/100# — FSB133/100# [6]

RP26 2.2KX4: AD1 AD9 AD10 AD13

RP1 2.2KX4: AD22 AD23 AD25

### CPU Frequency

+3V; RP2 10KX4; RP3 2.2KX4

AD16 AD17 AD18 AD19 — CPU_FID0 [3], CPU_FID1 [3], CPU_FID2 [3], CPU_FID3 [3]

R309 *10K +3V; [4,9] -PCIREQ — R308 2.2K — Disable internal clock generator (A12 ASIC)

[4,8,13,20,21,22,30] -CBE3 — R32 10K +3V — Normal operation

[4,8,13,20,21,22,30] -CBE0 — R290 2.2K — Disable external SIP ROM

CPU_FID3 [3]

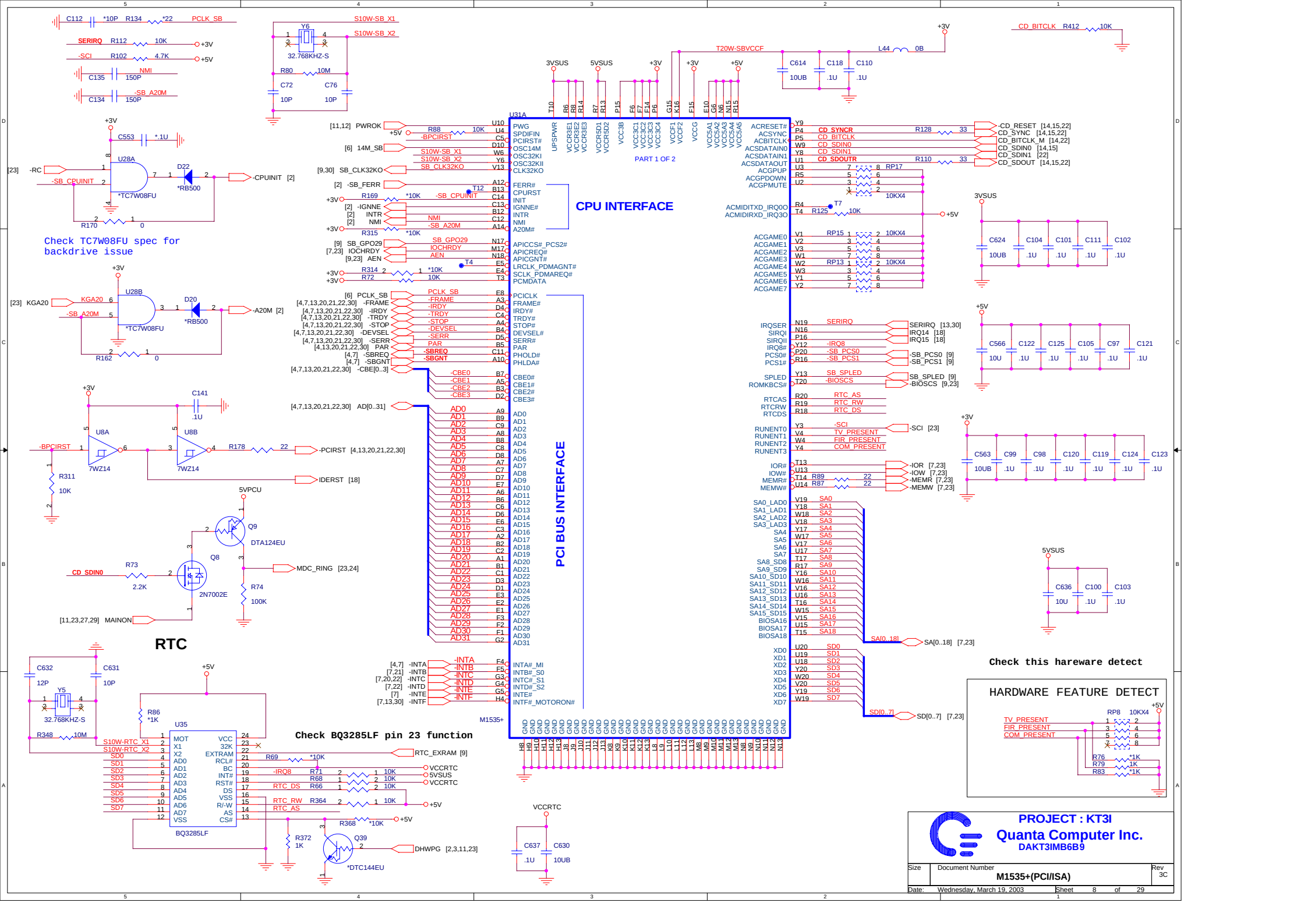
PROJECT : KT3I

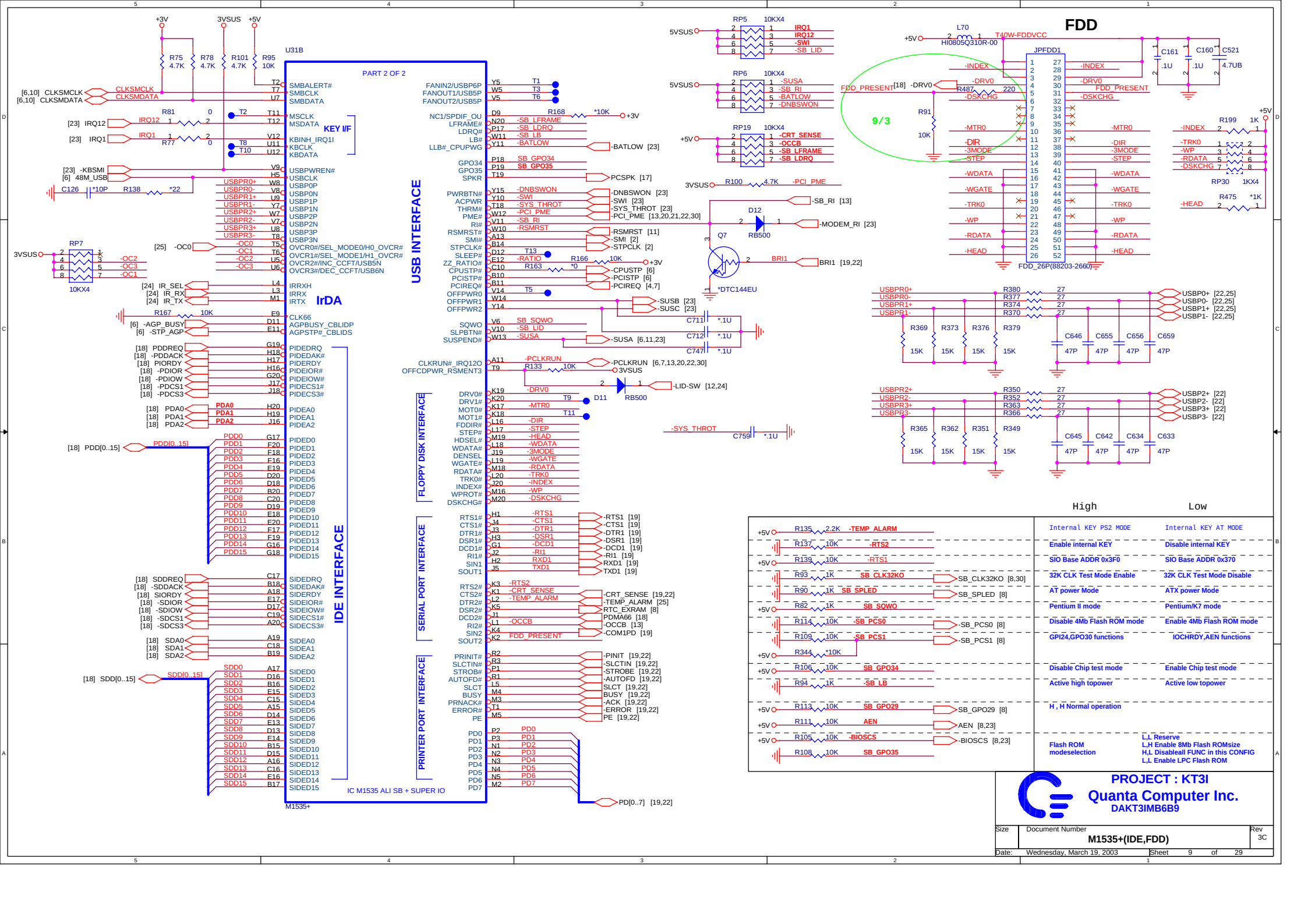
Quanta Computer Inc.

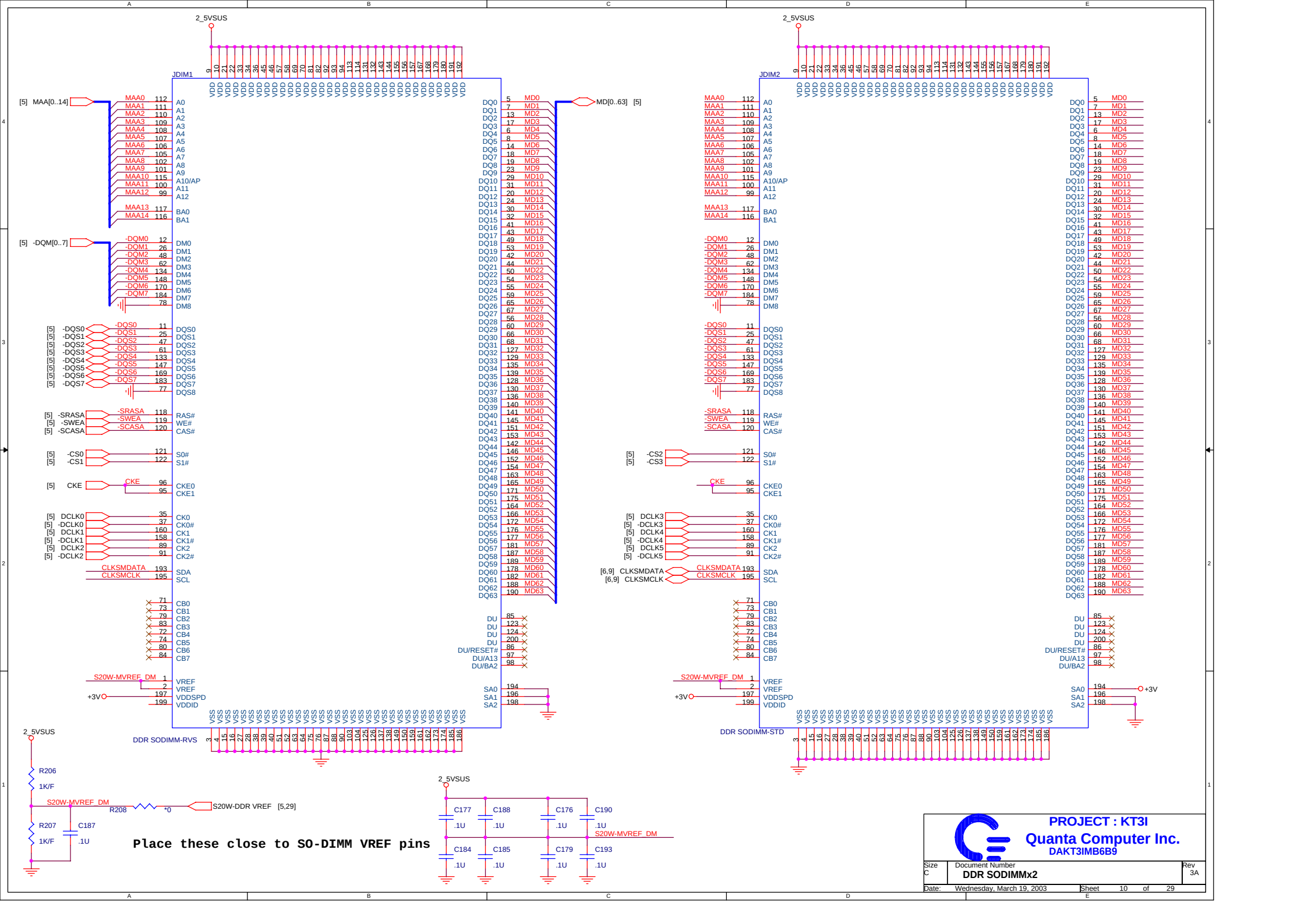
DAKT3IMB6B9

| Size | Document Number | Rev |
|---|---|---|
| | ATI-U1 PWR,GND | 2A |

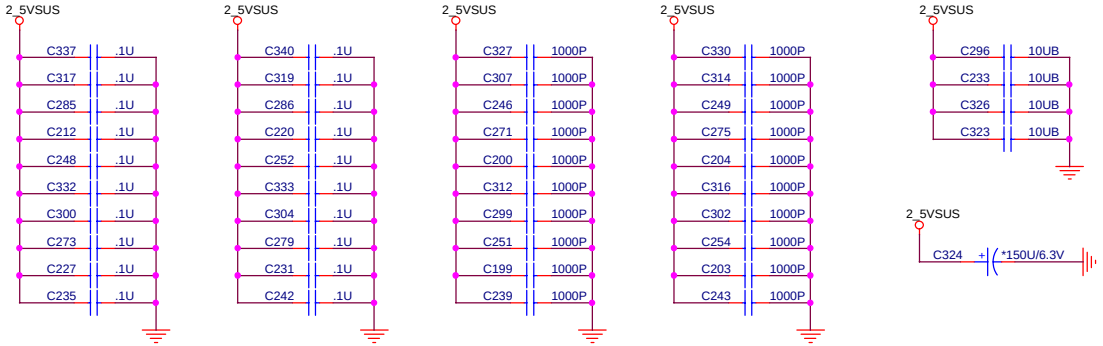
Date: Wednesday, March 19, 2003 Sheet 7 of 29

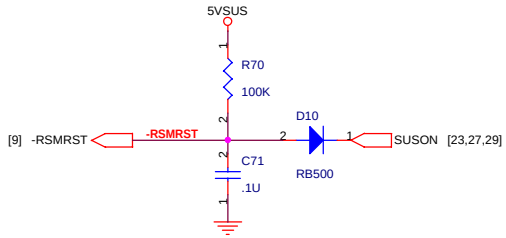

CPU INTERFACE
PART 1 OF 2
PCI BUS INTERFACE
M1535+
RTC
Check TC7W08FU spec for backdrive issue
Check BQ3285LF pin 23 function
Check this hareware detect
HARDWARE FEATURE DETECT
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
M1535+(PCI/ISA)
Size
Document Number
Rev
3C
Date: Wednesday, March 19, 2003
Sheet 8 of 29

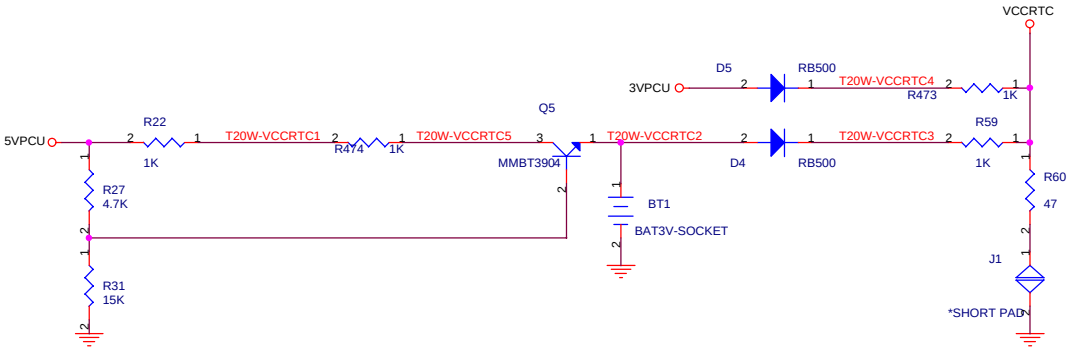

U31B
PART 2 OF 2
KEY I/F
USB INTERFACE
IrDA
IDE INTERFACE
FLOPPY DISK INTERFACE
SERIAL PORT INTERFACE
PRINTER PORT INTERFACE
IC M1535 ALI SB + SUPER IO
M1535+
FDD
JPFDD1
FDD_26P(88203-2660)
9/3
High
Low
Internal KEY PS2 MODE
Internal KEY AT MODE
Enable internal KEY
Disable internal KEY
SIO Base ADDR 0x3F0
SIO Base ADDR 0x370
32K CLK Test Mode Enable
32K CLK Test Mode Disable
AT power Mode
ATX power Mode
Pentium II mode
Pentium/K7 mode
Disable 4Mb Flash ROM mode
Enable 4Mb Flash ROM mode
GPI24,GPO30 functions
IOCHRDY,AEN functions
Disable Chip test mode
Enable Chip test mode
Active high topower
Active low topower
H , H Normal operation
Flash ROM modeselection
L,L Reserve
L,H Enable 8Mb Flash ROMsize
H,L Disableall FUNC in this CONFIG
L,L Enable LPC Flash ROM
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
Size
Document Number
M1535+(IDE,FDD)
Rev
3C
Date: Wednesday, March 19, 2003
Sheet 9 of 29

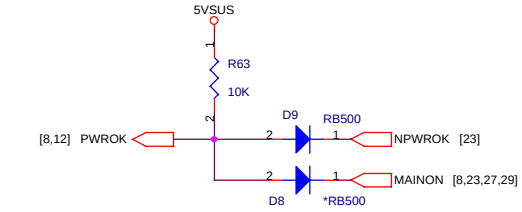

JDIM1
JDIM2
DDR SODIMM-RVS
DDR SODIMM-STD
2_5VSUS
+3V
MAA[0..14]
-DQM[0..7]
-DQS0
-DQS1
-DQS2
-DQS3
-DQS4
-DQS5
-DQS6
-DQS7
-SRASA
-SWEA
-SCASA
-CS0
-CS1
-CS2
-CS3
CKE
DCLK0
-DCLK0
DCLK1
-DCLK1
DCLK2
-DCLK2
DCLK3
-DCLK3
DCLK4
-DCLK4
DCLK5
-DCLK5
CLKSMDATA
CLKSMCLK
MD[0..63]
S20W-MVREF_DM
S20W-DDR VREF [5,29]
R206
1K/F
R207
1K/F
R208
*0
C187
.1U
C177
C188
C176
C190
C184
C185
C179
C193
Place these close to SO-DIMM VREF pins
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
Size C
Document Number
DDR SODIMMx2
Rev 3A
Date: Wednesday, March 19, 2003
Sheet 10 of 29

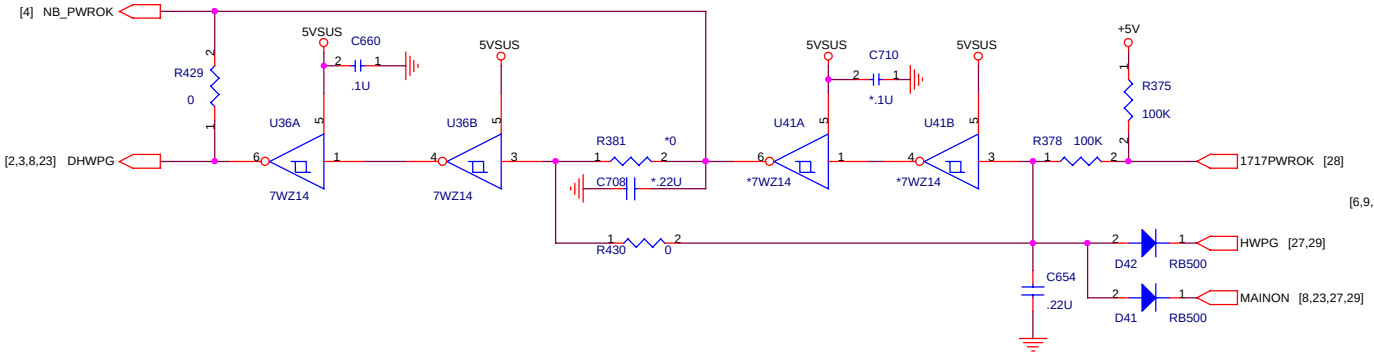
## For SO-DIMM

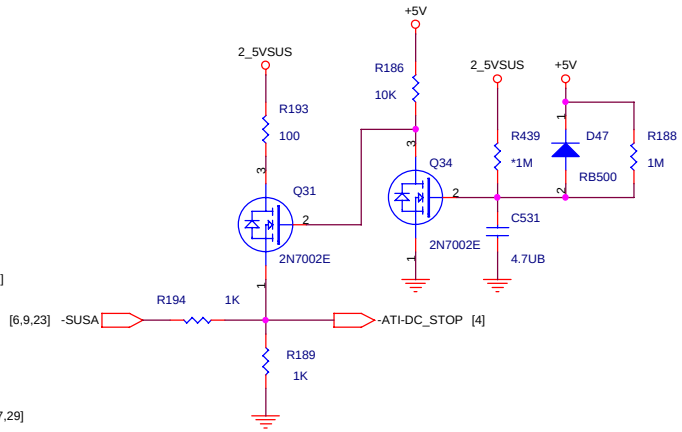


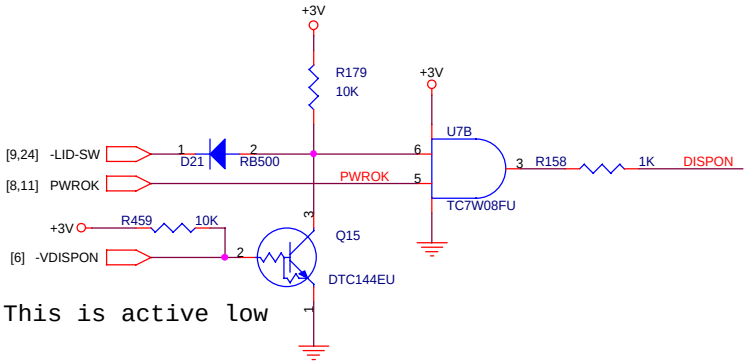




**PROJECT : KT3I**

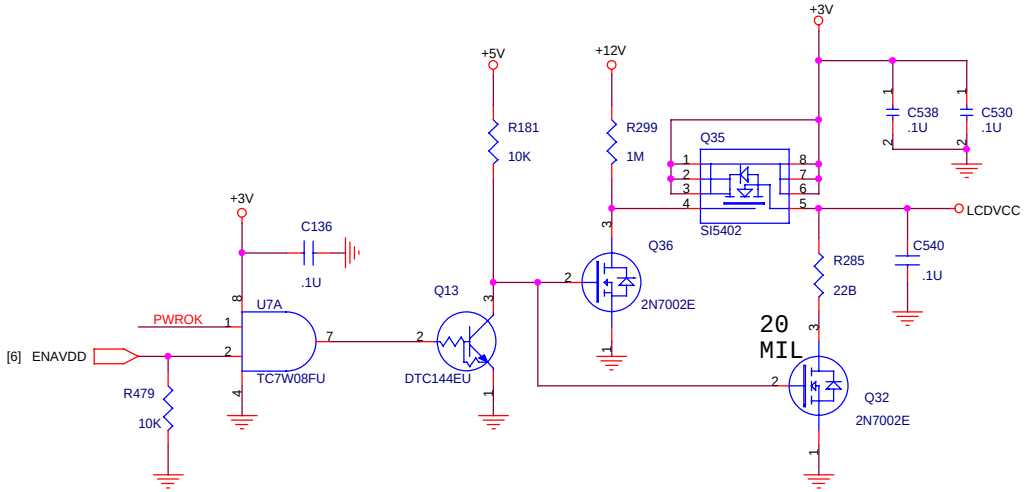
**Quanta Computer Inc.**

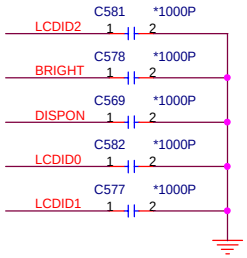
**DAKT3IMB6B9**

| Size | Document Number | Rev |
|---|---|---|
| C | DDR CAPs,VCCRTC&PWRGDs | 3A |
| Date: Wednesday, March 19, 2003 | Sheet 11 of 29 | |

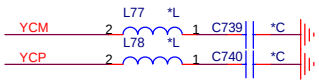



This is active low

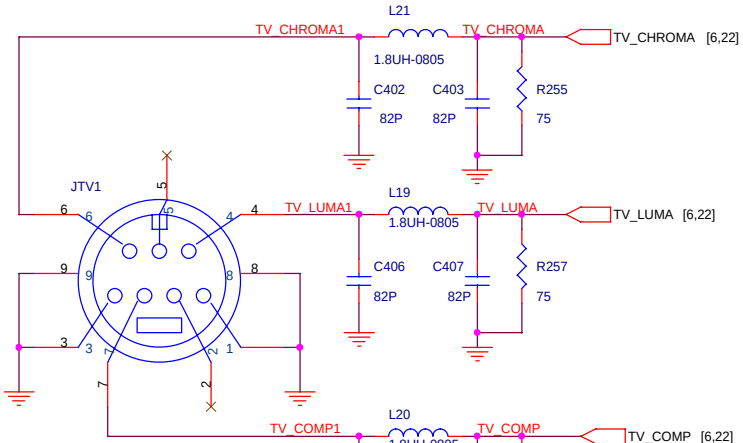



| LCDID0 | LCDID1 | LCDID2 | |
|---|---|---|---|
| 1 | 1 | 1 | Non SPWG XGA 1024*768 TFT |
| 0 | 1 | 1 | SXGA 1400*1050 TFT |
| 1 | 0 | 1 | SPWG XGA 1024*768 TFT |

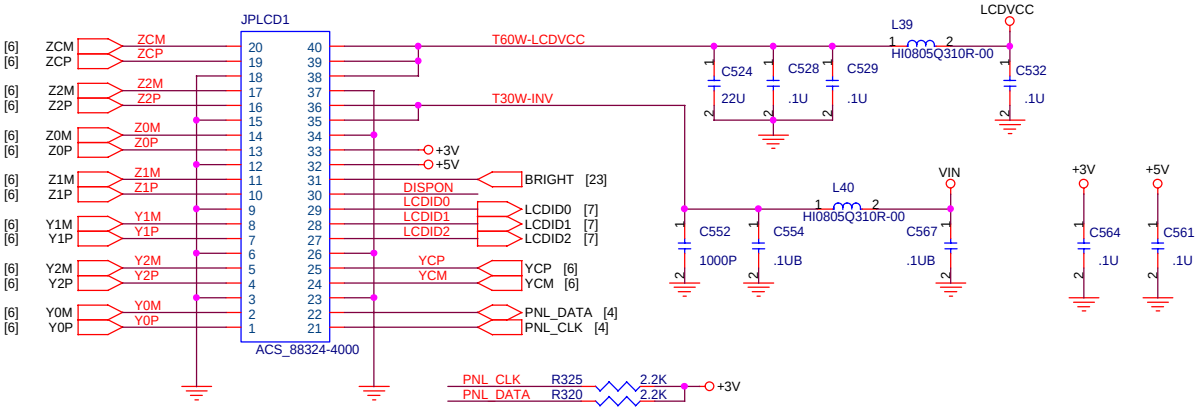



Close to C594,C581




## S-VIDEO(35138S-07T1)

## LCD INTERFACE

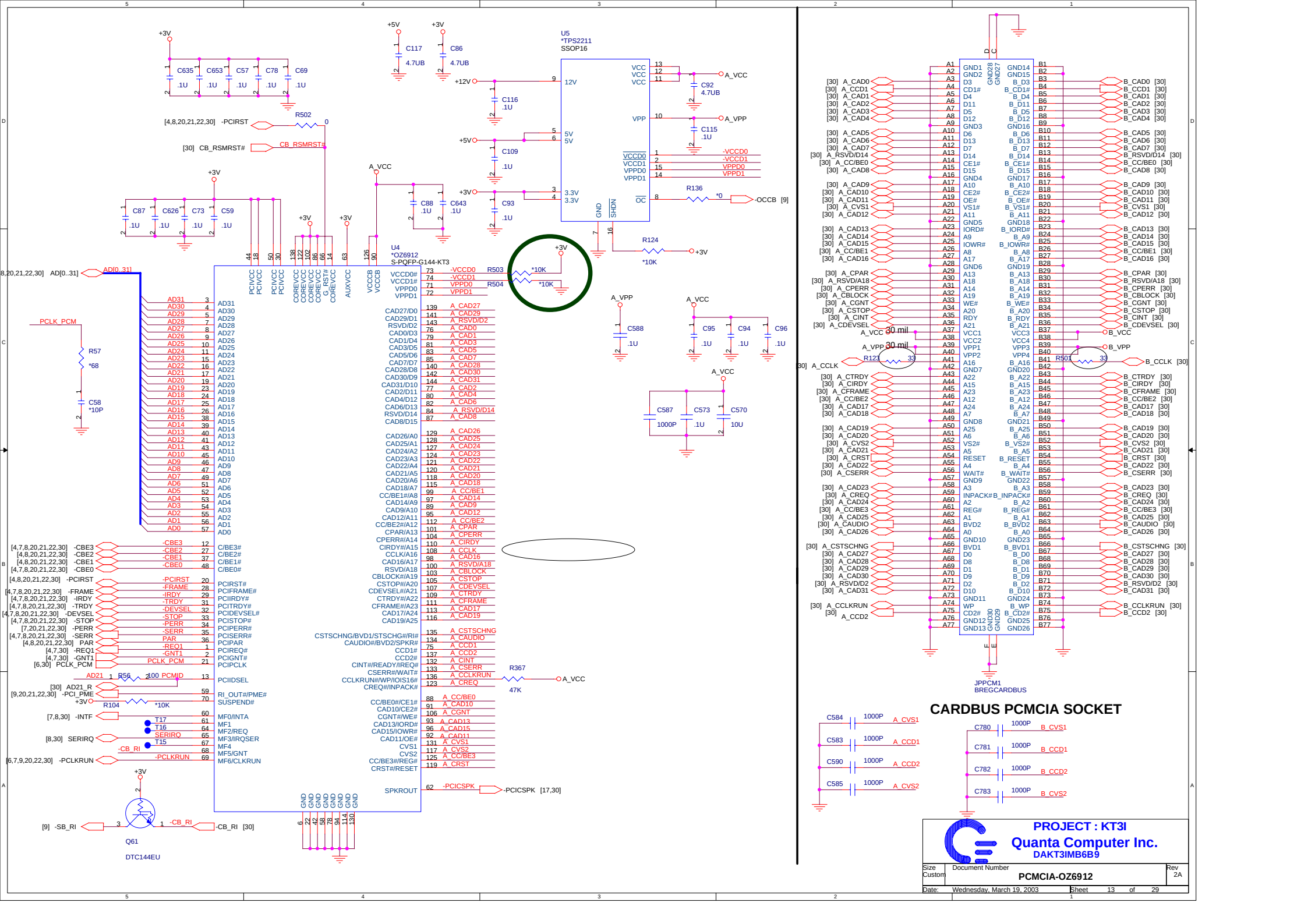



**PROJECT : KT3I**

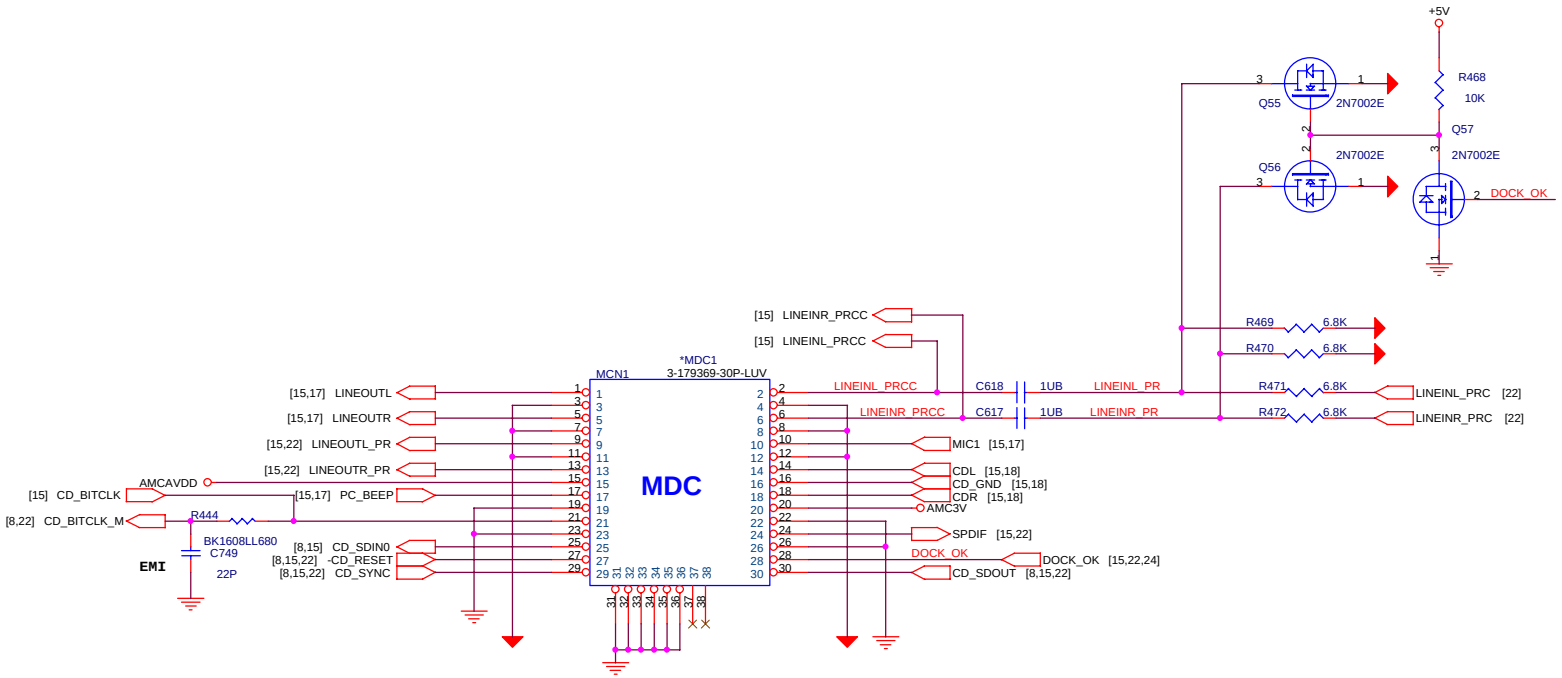
**Quanta Computer Inc.**

**DAKT3IMB6B9**

| Size | Document Number | Rev |
|---|---|---|
| | LCD &TV Interface | 3A |
| Date: Wednesday, March 19, 2003 | Sheet 12 of 29 | |


U4
*OZ6912
S-PQFP-G144-KT3
U5
*TPS2211
SSOP16
CARDBUS PCMCIA SOCKET
JPPCM1
BREGCARDBUS
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
PCMCIA-OZ6912
Wednesday, March 19, 2003
Sheet 13 of 29
Rev 2A
30 mil
30 mil
Q61
DTC144EU

| | DEFEATURE | FULL FUNCTION |
|---|---|---|
| R468 | NO INSTALL | INSTALL |
| R469 | 0 OHM | 6.8K |
| R470 | 0 OHM | 6.8K |
| R471 | NO INSTALL | INSTALL |
| R472 | NO INSTALL | INSTALL |
| Q55 | NO INSTALL | INSTALL |
| Q56 | NO INSTALL | INSTALL |
| Q57 | NO INSTALL | INSTALL |




**Treat MDC conn ,Smart DAA and CODEC as a daughter board**

**PROJECT : KT3I**

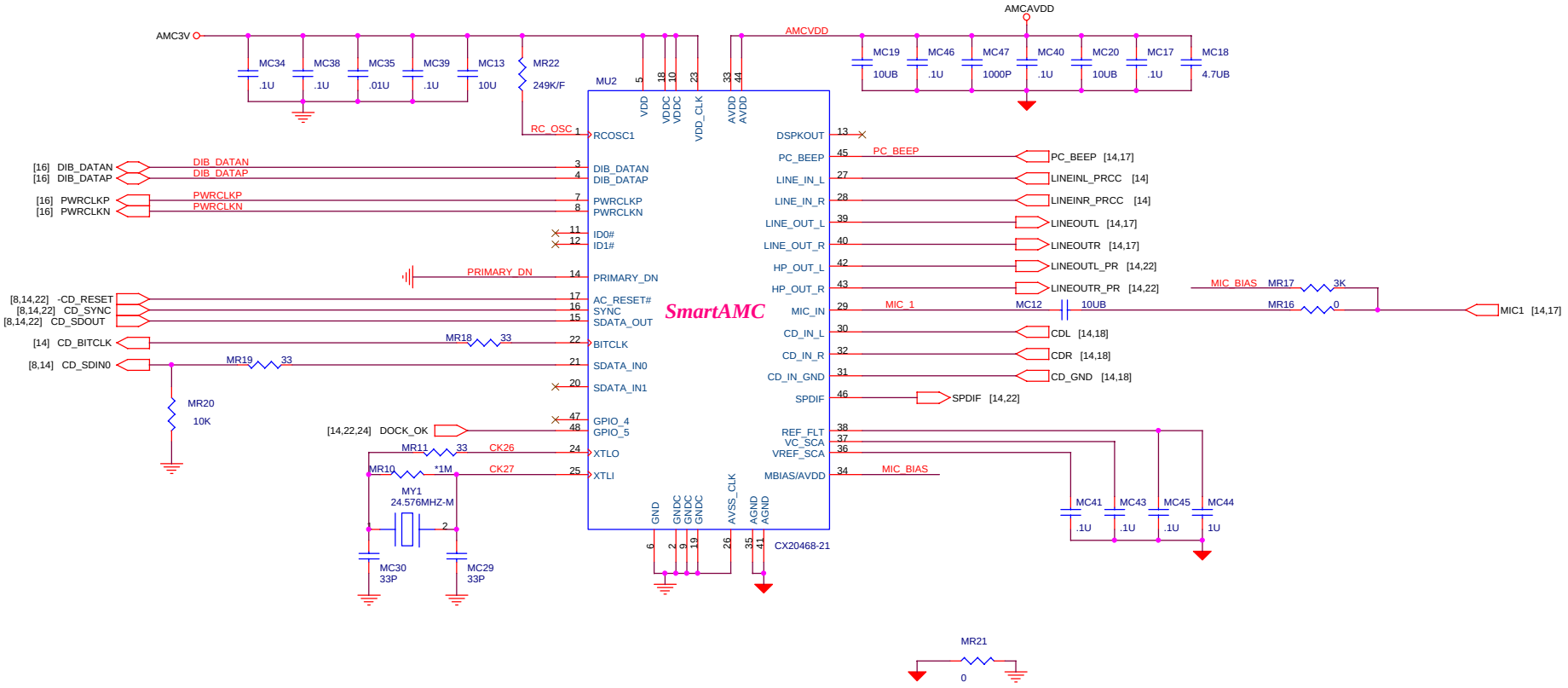
**Quanta Computer Inc.**

**DAKT3IMB6B9**

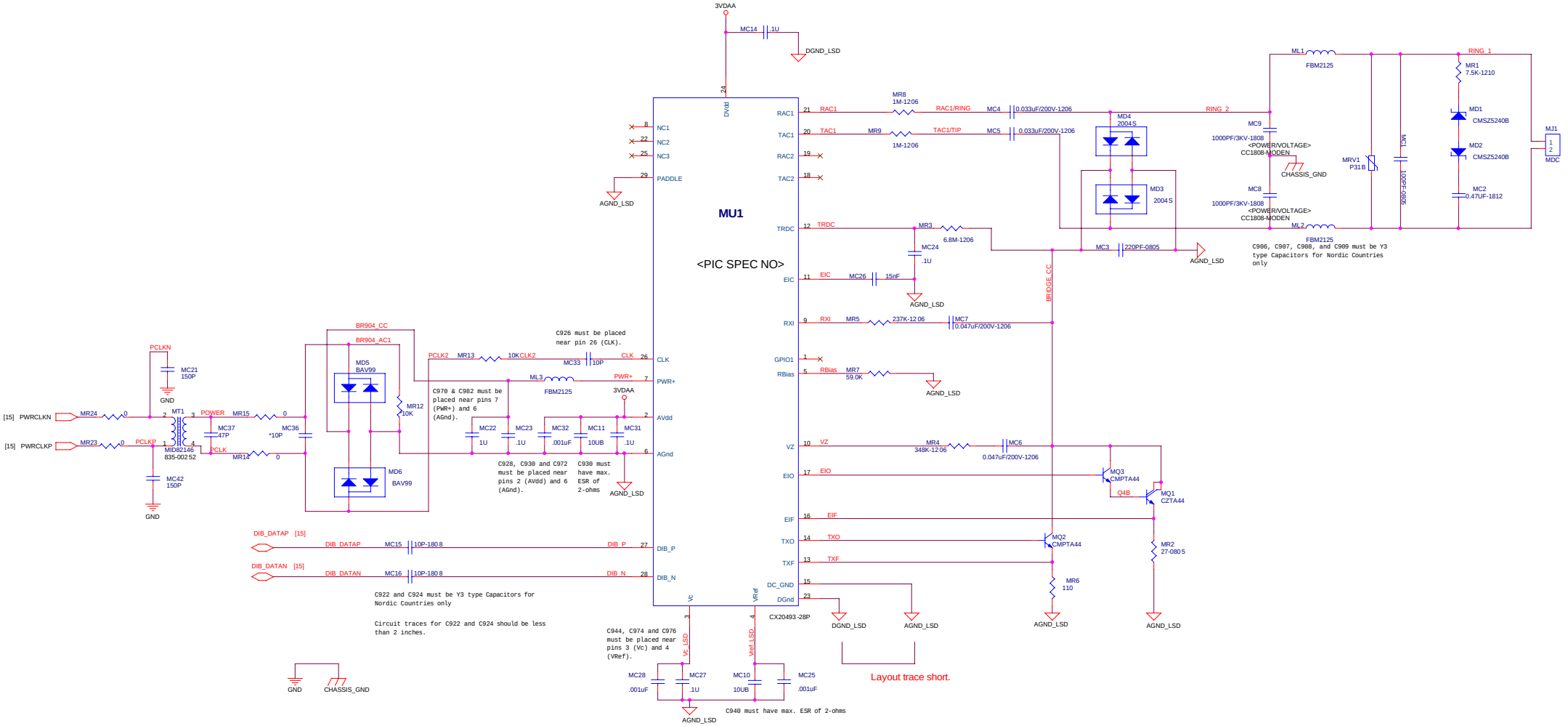
| Size | Document Number | Rev |
|---|---|---|
| Custom | Modem CONN | 3C |

Date: Wednesday, March 19, 2003 Sheet 14 of 29

The AMC20493-001 modem is used for mother board family MBAMC20493-001.




| | | |
|---|---|---|
| PROJECT : KT3I | | |
| Quanta Computer Inc. | | |
| DAKT3IMB6B9 | | |
| Size: Custom | Document Number: AC97 CODEC | Rev: 2A |
| Date: Wednesday, March 19, 2003 | Sheet 15 of 29 | |




| | | |
|---|---|---|
| PROJECT : KT3I | | |
| Quanta Computer Inc. | | |
| DAKT3IMB6B9 | | |
| Size | Document Number: MODEM DAA | Rev: 2A |
| Date: Wednesday, March 19, 2003 | Sheet 16 of 29 | |

| GAIN0 | GAIN1 | Av |
|---|---|---|
| 0 | 0 | 6dB |
| 0 | 1 | 10dB |
| 1 | 0 | 15.6dB |
| 1 | 1 | 21.6dB |

# AUDIO AMPLIFIER

TPA0312

Close to RJ11
Close to H3 EMI
Close to RP

DEL Q61,R484--1030 MODIFY

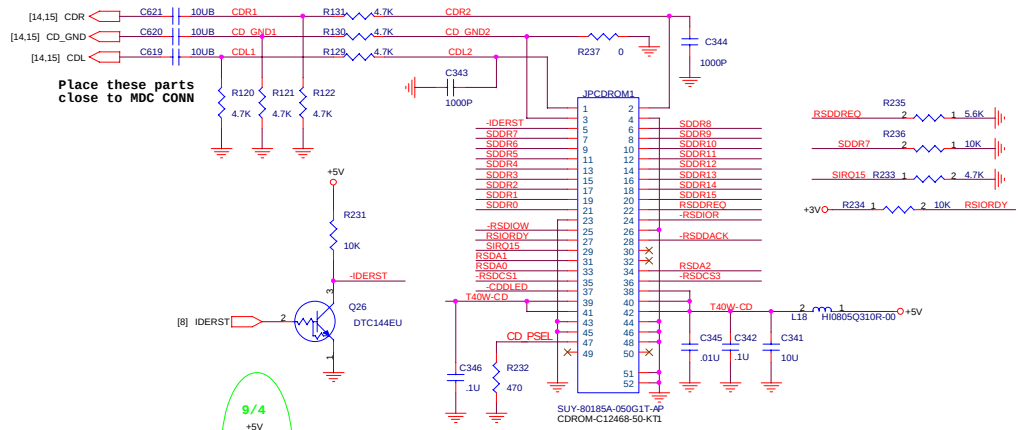
# PC SPEAKER

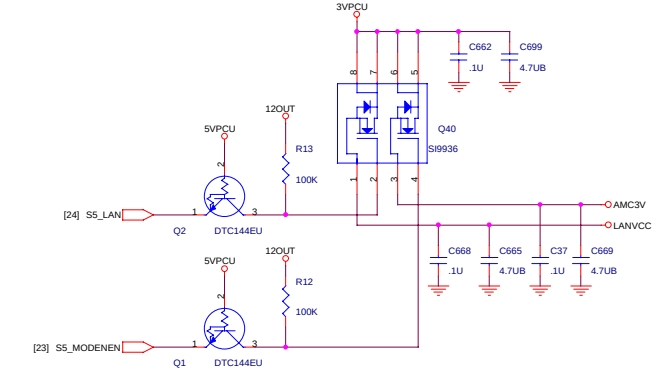
Place this close to MDC CONN

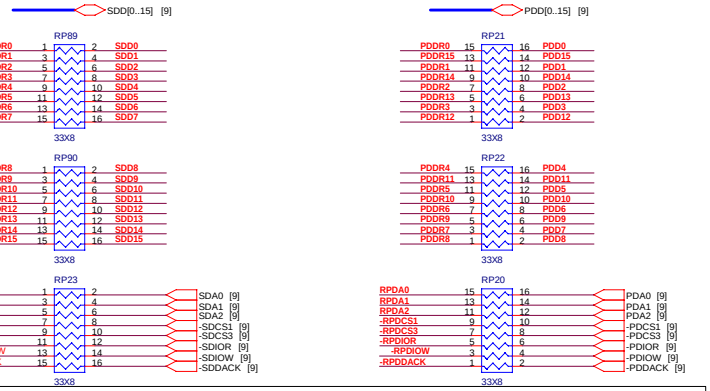
800 mA

| | |
|---|---|
| PROJECT : KT3I | |
| Quanta Computer Inc. | |
| DAKT3IMB6B9 | |
| Size: Custom | Document Number: TPA0312&Audio Jack |
| Rev: 3D | |
| Date: Wednesday, March 19, 2003 | Sheet 17 of 29 |

# CD-ROM CONNECTOR



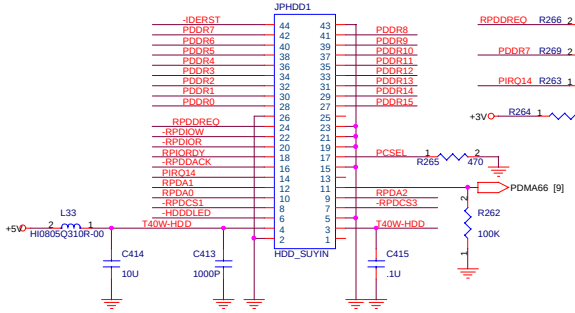



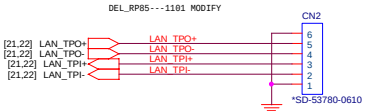





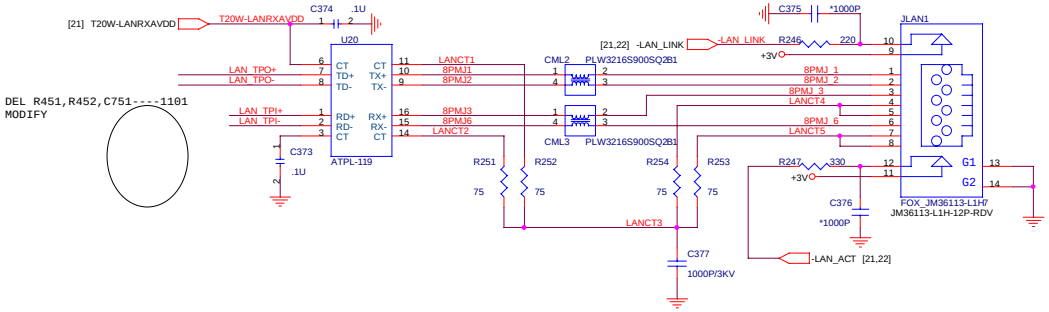


# HDD CONNECTOR

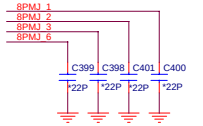


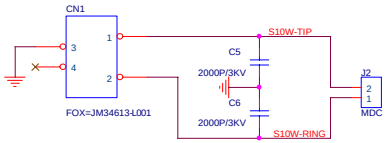




Overlay these two components



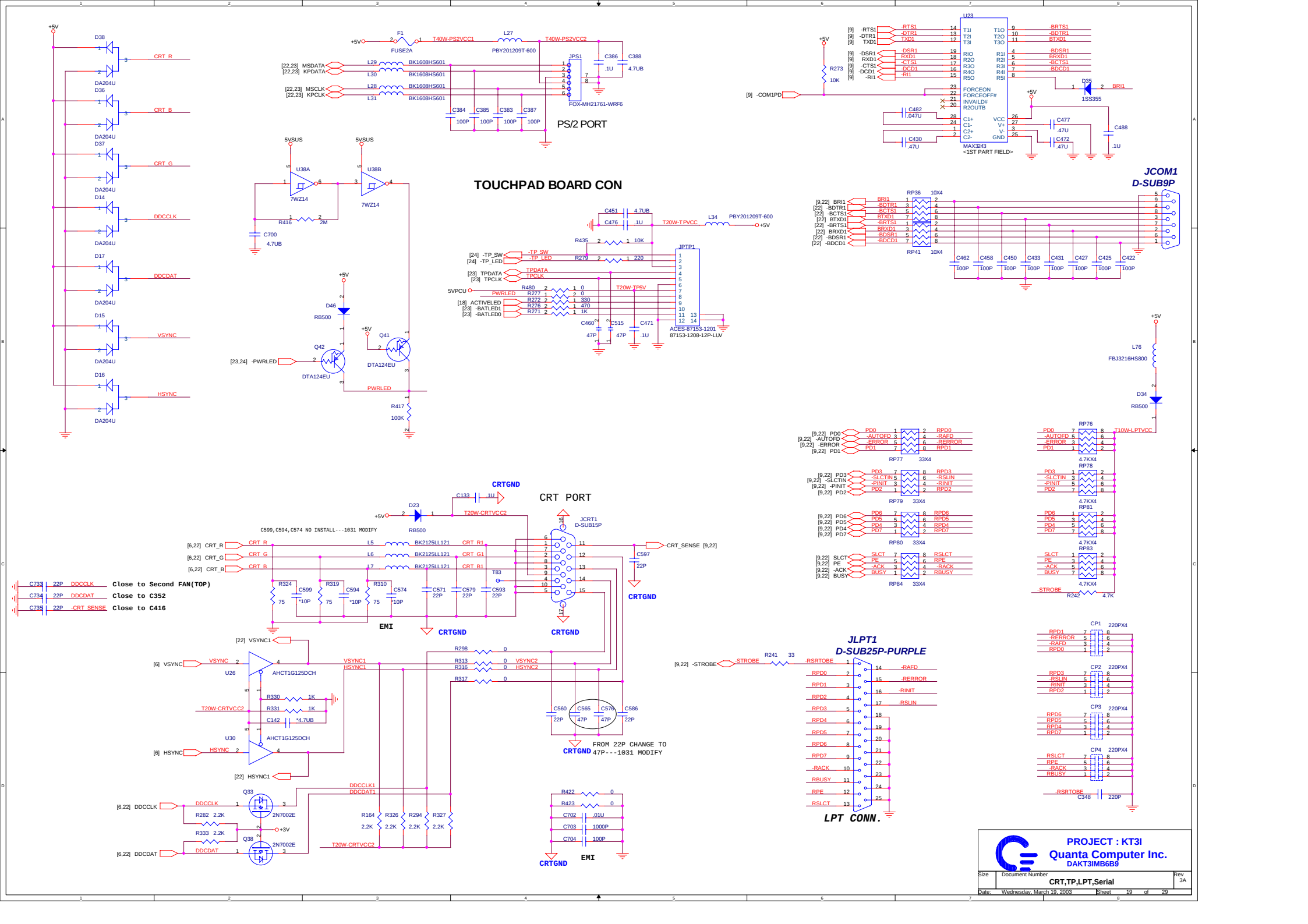

DEL R451,R452,C751---1101 MODIFY

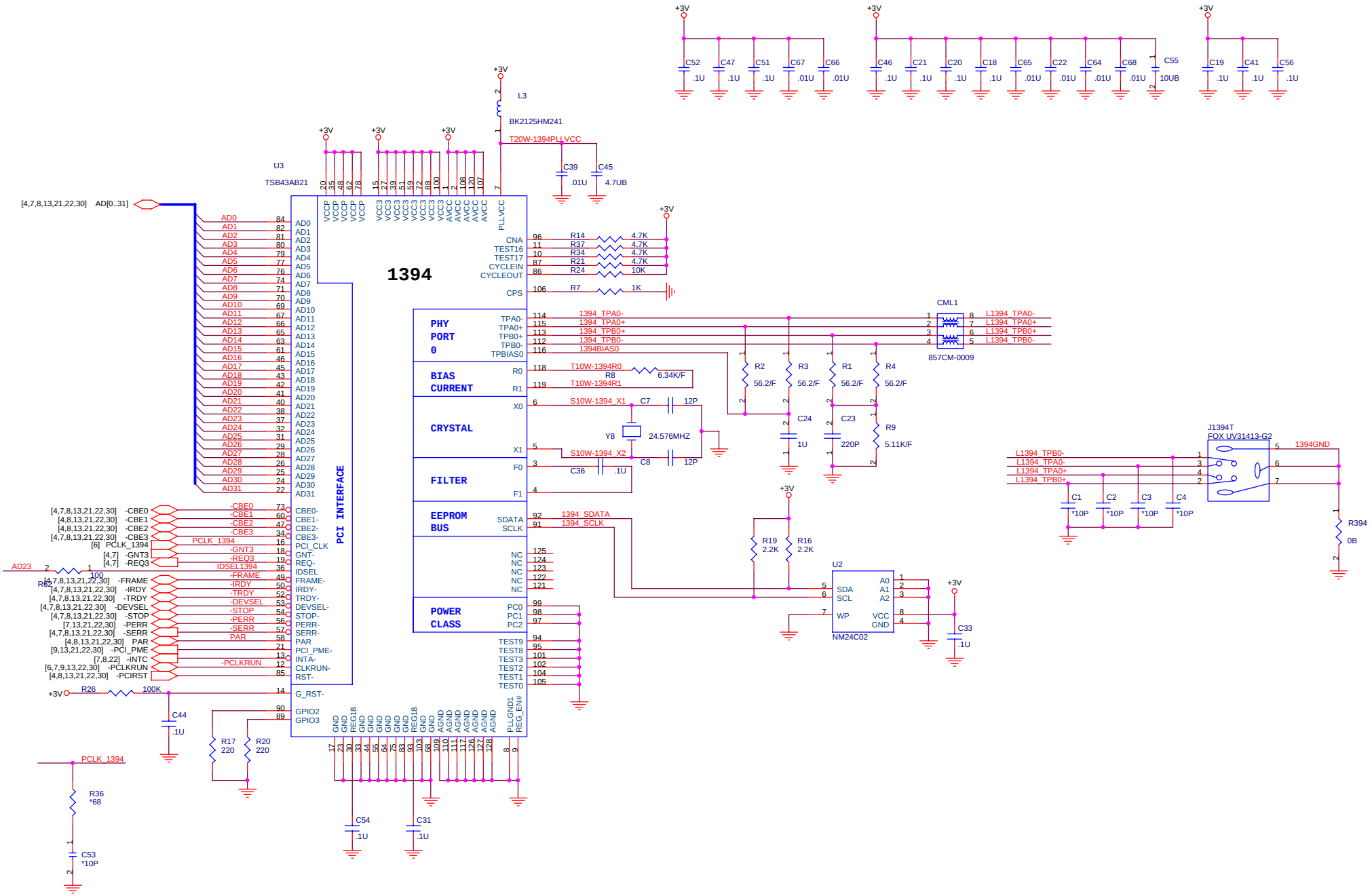


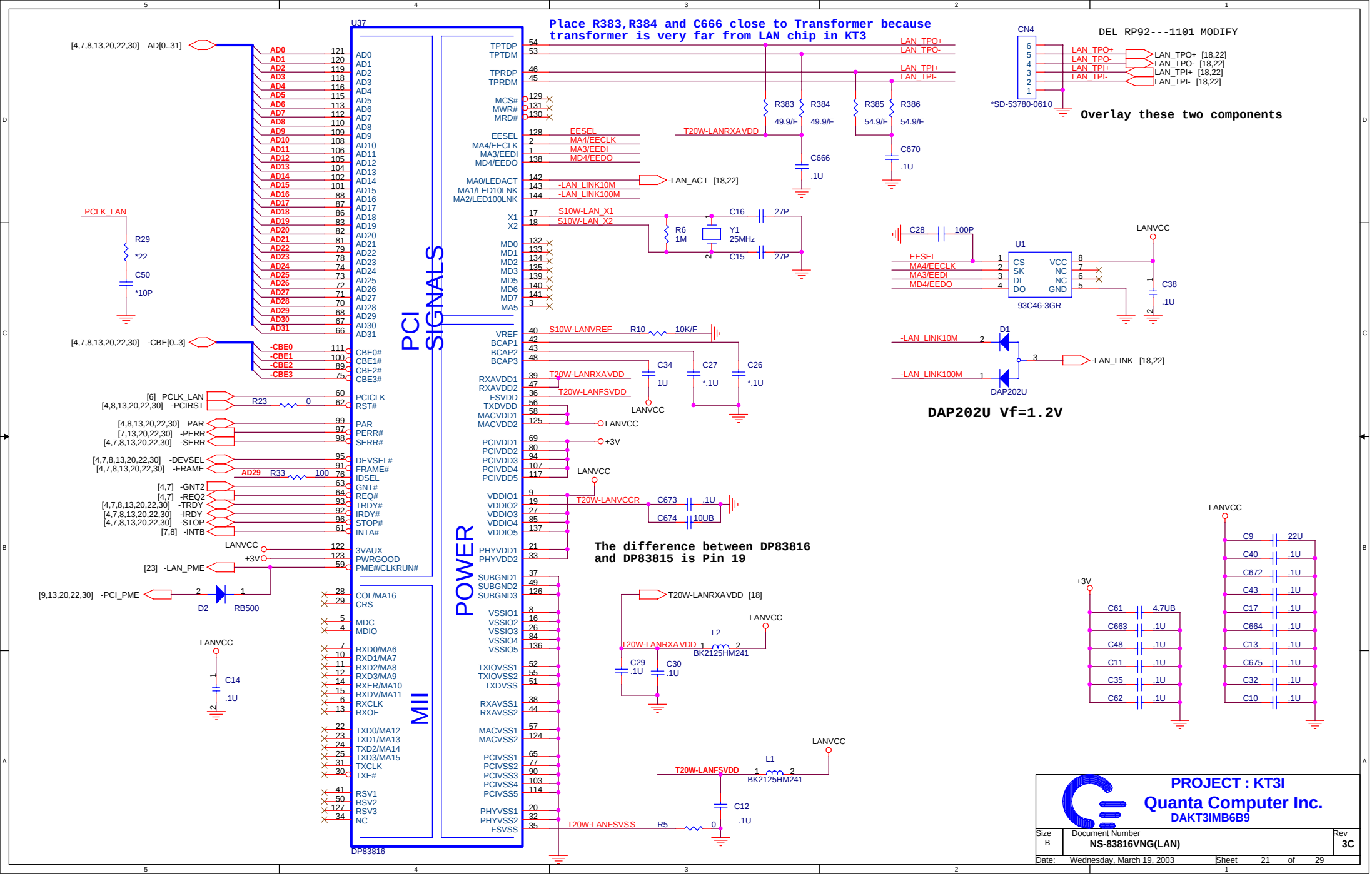



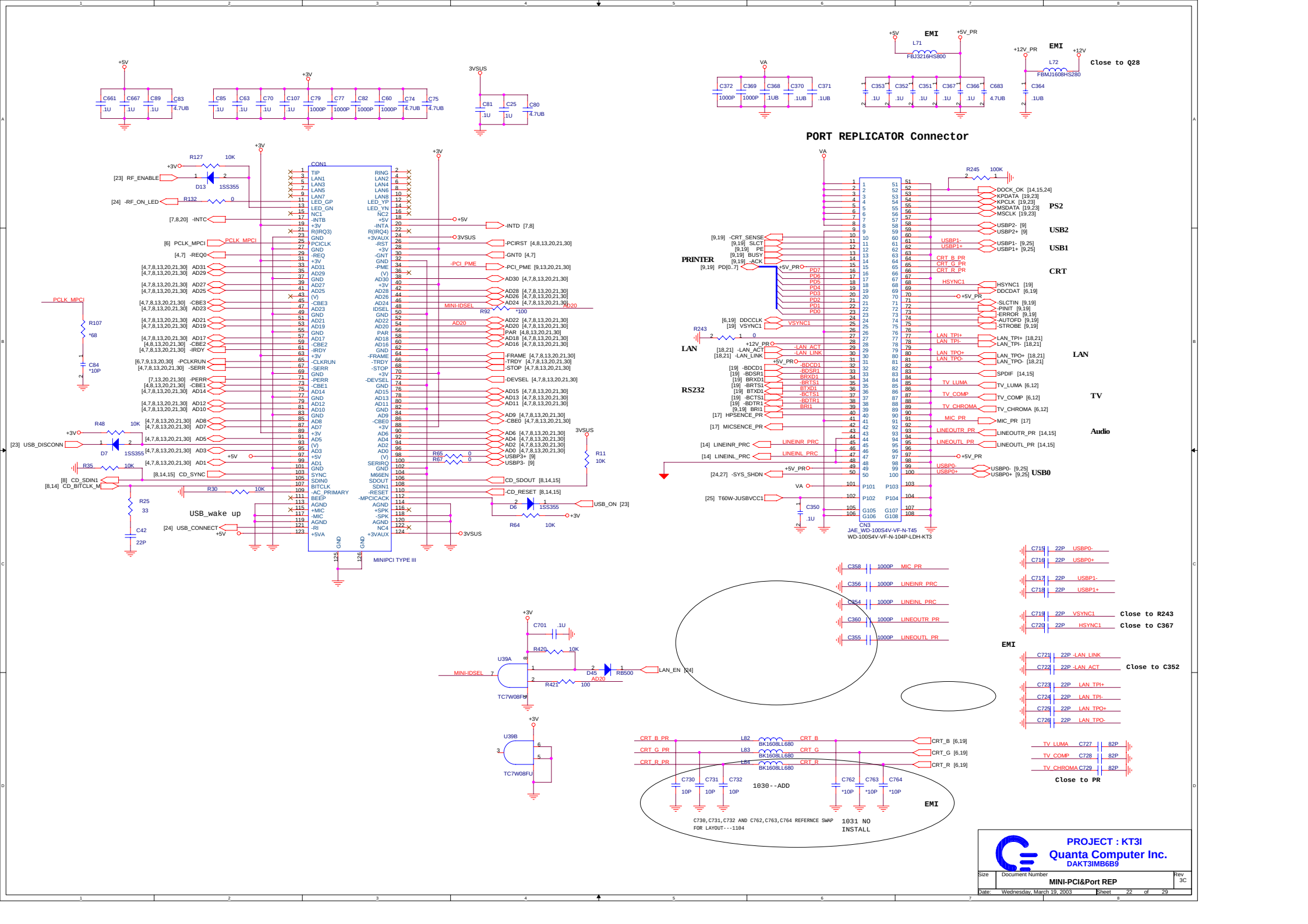

PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9

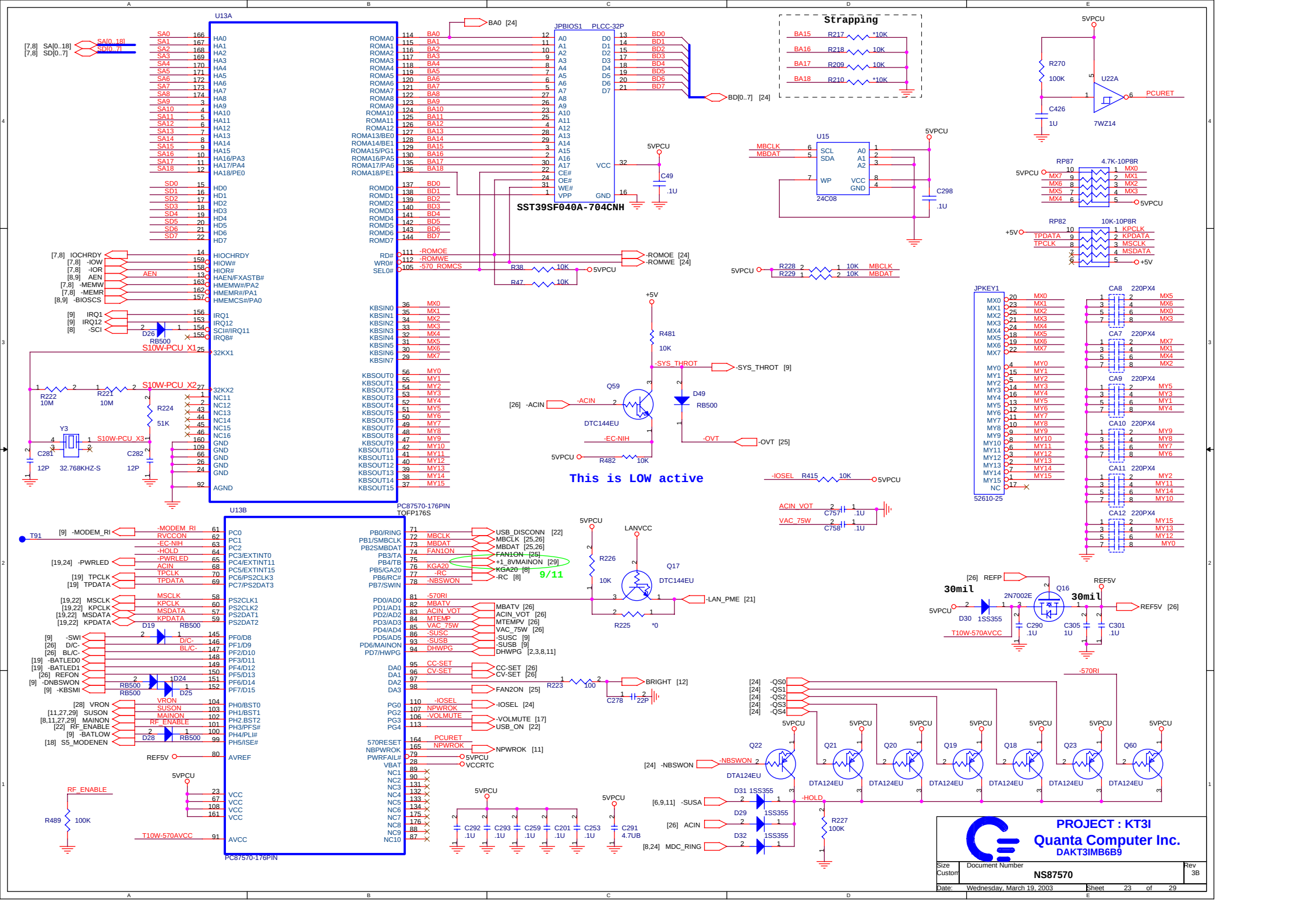
| Size | Document Number | Rev |
|---|---|---|
| | IDE,RJ11/45&PowerSW | 3C |
| Date: Wednesday, March 19, 2003 | Sheet 18 of 29 | |

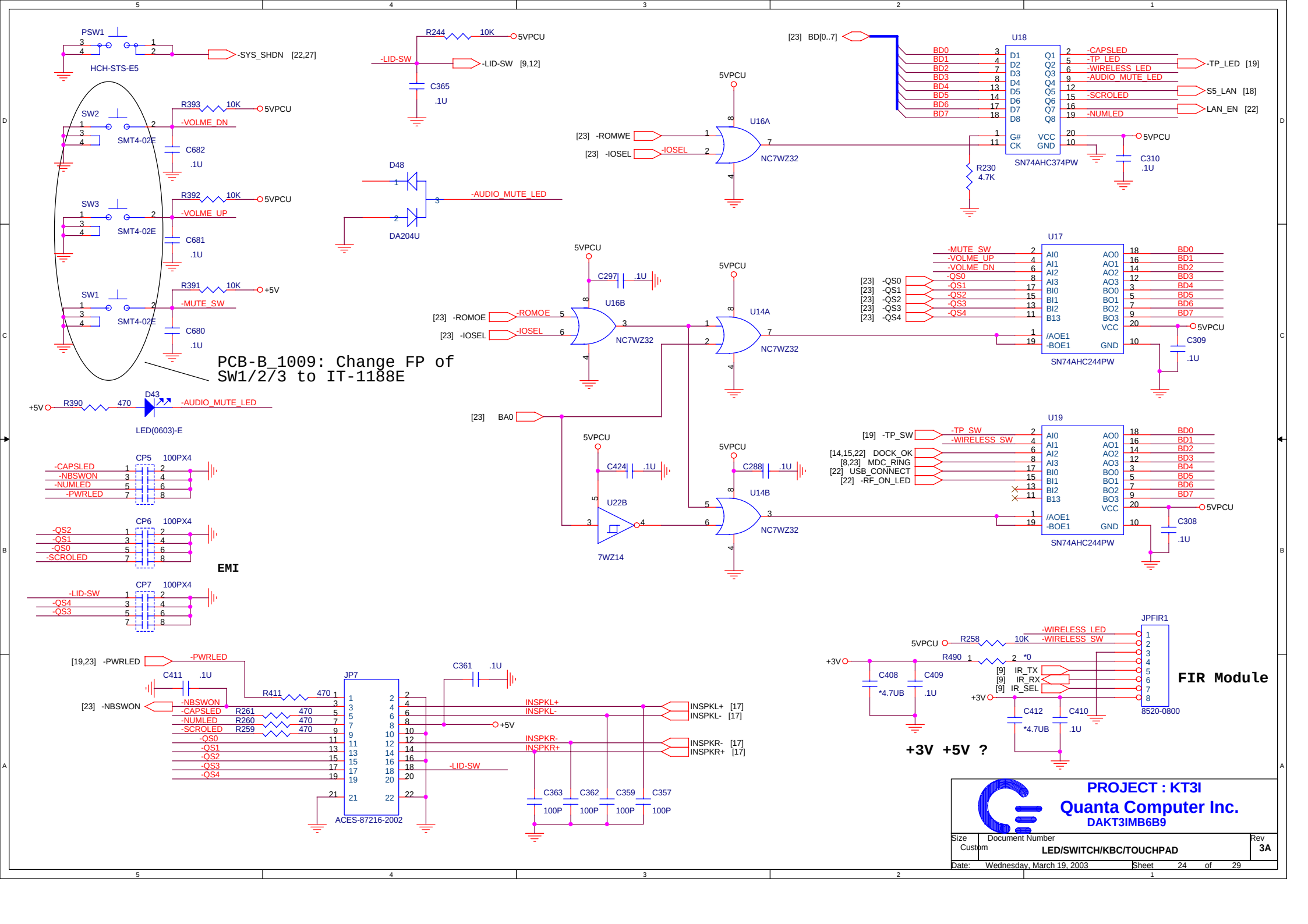

TOUCHPAD BOARD CON
PS/2 PORT
CRT PORT
JCOM1
D-SUB9P
JLPT1
D-SUB25P-PURPLE
LPT CONN.
EMI
Close to Second FAN(TOP)
Close to C352
Close to C416
FROM 22P CHANGE TO 47P---1031 MODIFY
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
CRT,TP,LPT,Serial
Wednesday, March 19, 2003

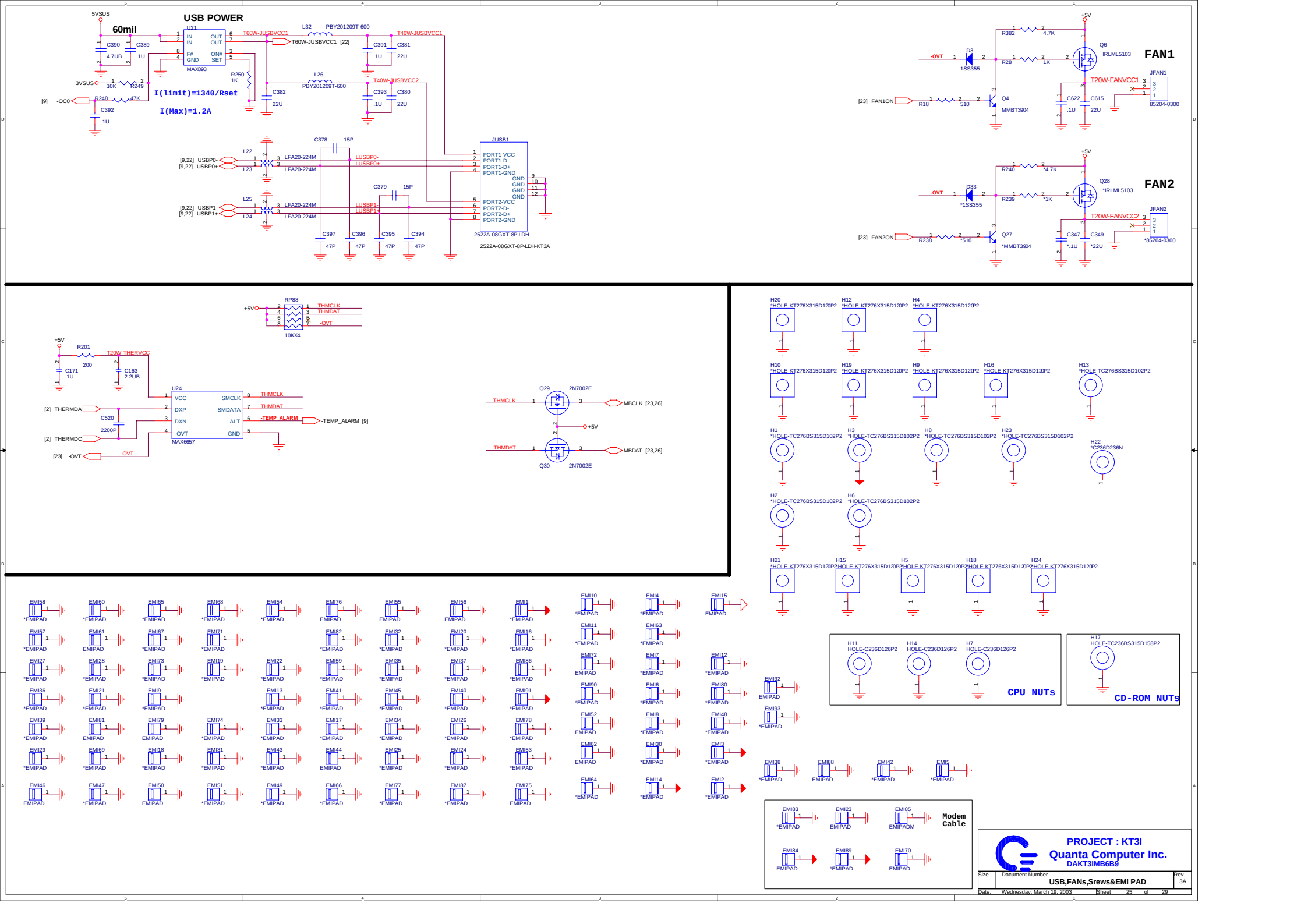

1394
PCI INTERFACE
PHY PORT 0
BIAS CURRENT
CRYSTAL
FILTER
EEPROM BUS
POWER CLASS
U3
TSB43AB21
L3
BK2125HM241
T20W-1394PLLVCC
CML1
857CM-0009
J1394T
FOX UV31413-G2
U2
NM24C02
Y8
24.576MHZ
R26
100K
R36
*68
C53
*10P
R17
220
R20
220
R394
0B
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
TSB43AB21(1394)
Size
Custom
Document Number
Rev
2A
Date:
Wednesday, March 19, 2003
Sheet
20
of
29

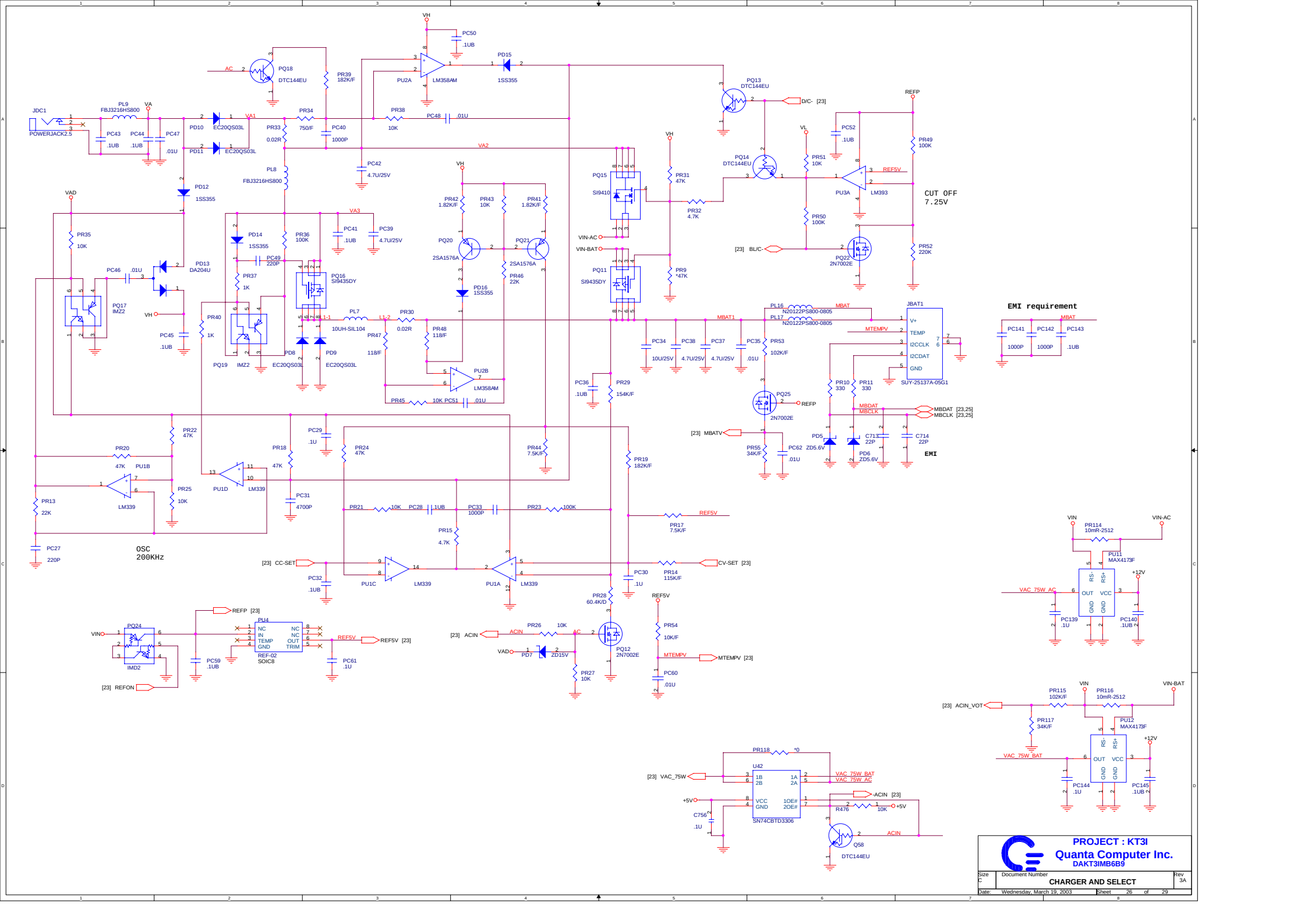

Place R383,R384 and C666 close to Transformer because transformer is very far from LAN chip in KT3
DEL RP92---1101 MODIFY
Overlay these two components
DAP202U Vf=1.2V
The difference between DP83816 and DP83815 is Pin 19
U37
DP83816
PCI SIGNALS
MII
POWER
93C46-3GR
DAP202U
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
Size B
Document Number NS-83816VNG(LAN)
Rev 3C
Date: Wednesday, March 19, 2003
Sheet 21 of 29


PORT REPLICATOR Connector
MINIPCI TYPE III
CON1
CN3
JAE_WD-100S4V-VF-N-T45
WD-100S4V-VF-N-104P-LDH-KT3
PRINTER
RS232
LAN
PS2
USB2
USB1
CRT
TV
Audio
USB0
EMI
L71
FBJ3216HS800
L72
FBMJ1608HS280
Close to Q28
Close to R243
Close to C367
Close to C352
Close to PR
USB_wake up
1030--ADD
1031 NO INSTALL
C730,C731,C732 AND C762,C763,C764 REFERNCE SWAP FOR LAYOUT---1104
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
MINI-PCI&Port REP
Wednesday, March 19, 2003
Sheet 22 of 29


U13A
SST39SF040A-704CNH
JPBIOS1 PLCC-32P
Strapping
BA15 R217 *10K
BA16 R218 10K
BA17 R209 10K
BA18 R210 *10K
U15
24C08
U22A
7WZ14
PCURET
RP87 4.7K-10P8R
RP82 10K-10P8R
JPKEY1
52610-25
CA8 220PX4
CA7 220PX4
CA9 220PX4
CA10 220PX4
CA11 220PX4
CA12 220PX4
U13B
PC87570-176PIN
TOFP176S
This is LOW active
9/11
30mil
30mil
2N7002E
Q16
D30 1SS355
T10W-570AVCC
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
Size Custom
Document Number
NS87570
Rev 3B
Date: Wednesday, March 19, 2003
Sheet 23 of 29


PSW1
HCH-STS-E5
-SYS_SHDN [22,27]
SW2
SMT4-02E
R393 10K
5VPCU
-VOLME_DN
C682 .1U
SW3
SMT4-02E
R392 10K
-VOLME_UP
C681 .1U
SW1
SMT4-02E
R391 10K
+5V
-MUTE_SW
C680 .1U
PCB-B_1009: Change FP of
SW1/2/3 to IT-1188E
R244 10K
-LID-SW
-LID-SW [9,12]
C365 .1U
D48
DA204U
-AUDIO_MUTE_LED
+5V
R390 470
D43
LED(0603)-E
-AUDIO_MUTE_LED
CP5 100PX4
-CAPSLED
-NBSWON
-NUMLED
-PWRLED
CP6 100PX4
-QS2
-QS1
-QS0
-SCROLED
EMI
CP7 100PX4
-LID-SW
-QS4
-QS3
[19,23] -PWRLED
-PWRLED
C411 .1U
[23] -NBSWON
-NBSWON
-CAPSLED
-NUMLED
-SCROLED
-QS0
-QS1
-QS2
-QS3
-QS4
R411 470
R261 470
R260 470
R259 470
JP7
ACES-87216-2002
C361 .1U
+5V
-LID-SW
INSPKL+
INSPKL-
INSPKR-
INSPKR+
INSPKL+ [17]
INSPKL- [17]
INSPKR- [17]
INSPKR+ [17]
C363 100P
C362 100P
C359 100P
C357 100P
5VPCU
[23] -ROMWE
[23] -IOSEL
U16A
NC7WZ32
[23] BD[0..7]
BD0
BD1
BD2
BD3
BD4
BD5
BD6
BD7
U18
SN74AHC374PW
-CAPSLED
-TP_LED
-WIRELESS_LED
-AUDIO_MUTE_LED
-SCROLED
-NUMLED
-TP_LED [19]
S5_LAN [18]
LAN_EN [22]
R230 4.7K
C310 .1U
C297 .1U
[23] -ROMOE
[23] -IOSEL
U16B
NC7WZ32
U14A
NC7WZ32
U17
SN74AHC244PW
-MUTE_SW
-VOLME_UP
-VOLME_DN
-QS0
-QS1
-QS2
-QS3
-QS4
[23] -QS0
[23] -QS1
[23] -QS2
[23] -QS3
[23] -QS4
C309 .1U
[23] BA0
C424 .1U
U22B
7WZ14
C288 .1U
U14B
NC7WZ32
U19
SN74AHC244PW
[19] -TP_SW
-TP_SW
-WIRELESS_SW
[14,15,22] DOCK_OK
[8,23] MDC_RING
[22] USB_CONNECT
[22] -RF_ON_LED
C308 .1U
JPFIR1
8520-0800
-WIRELESS_LED
-WIRELESS_SW
R258 10K
R490 *0
[9] IR_TX
[9] IR_RX
[9] IR_SEL
+3V
C408 *4.7UB
C409 .1U
C412 *4.7UB
C410 .1U
FIR Module
+3V +5V ?
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
Size Custom
Document Number
LED/SWITCH/KBC/TOUCHPAD
Rev 3A
Date: Wednesday, March 19, 2003
Sheet 24 of 29


USB POWER
60mil
5VSUS
3VSUS
U21
MAX893
I(limit)=1340/Rset
I(Max)=1.2A
L32 PBY201209T-600
L26 PBY201209T-600
T60W-JUSBVCC1
T40W-JUSBVCC1
T40W-JUSBVCC2
JUSB1
2522A-08GXT-8P-LDH
2522A-08GXT-8P-LDH-KT3A
FAN1
FAN2
Q6 IRLML5103
Q4 MMBT3904
Q28 *IRLML5103
Q27 *MMBT3904
D3 1SS355
D33 *1SS355
JFAN1
JFAN2
T20W-FANVCC1
T20W-FANVCC2
U24
MAX6657
RP88
10KX4
THERMDA
THERMDC
-OVT
-TEMP_ALARM
THMCLK
THMDAT
Q29 2N7002E
Q30 2N7002E
MBCLK [23,26]
MBDAT [23,26]
CPU NUTs
CD-ROM NUTS
Modem Cable
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
USB,FANs,Srews&EMI PAD
Wednesday, March 19, 2003
Sheet 25 of 29


JDC1
POWERJACK2.5
PL9
FBJ3216HS800
VA
PC43 .1UB
PC44 .1UB
PC47 .01U
PD10 EC20QS03L
PD11 EC20QS03L
VA1
PR33 0.02R
PR34 750/F
PC40 1000P
PR38 10K
PC48 .01U
VA2
PC42 4.7U/25V
PL8
FBJ3216HS800
PD12 1SS355
VAD
PR35 10K
PC46 .01U
PD13 DA204U
PQ17 IMZ2
PC45 .1UB
PR40 1K
PQ19 IMZ2
PD14 1SS355
PC49 220P
PR37 1K
PR36 100K
PQ16 SI9435DY
VA3
PC41 .1UB
PC39 4.7U/25V
PD8 EC20QS03L
PD9 EC20QS03L
L1-1
L1-2
PL7 10UH-SIL104
PR30 0.02R
PR47 118/F
PR48 118/F
PU2B LM358AM
PR45 10K
PC51 .01U
VH
PC50 .1UB
PU2A LM358AM
PD15 1SS355
AC
PQ18 DTC144EU
PR39 182K/F
PR42 1.82K/F
PR43 10K
PR41 1.82K/F
PQ20 2SA1576A
PQ21 2SA1576A
PR46 22K
PD16 1SS355
PQ15 SI9410
PQ11 SI9435DY
VIN-AC
VIN-BAT
PR31 47K
PR32 4.7K
PR9 47K
PQ13 DTC144EU
D/C- [23]
PQ14 DTC144EU
VL
PR51 10K
PR50 100K
[23] BL/C-
PQ22 2N7002E
REFP
PC52 .1UB
PR49 100K
PU3A LM393
REF5V
PR52 220K
CUT OFF
7.25V
PL16 N20122PS800-0805
PL17 N20122PS800-0805
MBAT
MBAT1
PC34 10U/25V
PC38 4.7U/25V
PC37 4.7U/25V
PC35 .01U
PR53 102K/F
JBAT1
V+
TEMP
I2CCLK
I2CDAT
GND
SUY-25137A-05G1
MTEMPV
PR10 330
PR11 330
MBDAT
MBCLK
MBDAT [23,25]
MBCLK [23,25]
PQ25 2N7002E
REFP
[23] MBATV
PR55 34K/F
PC62 .01U
PD5 ZD5.6V
PD6 ZD5.6V
C713 22P
C714 22P
EMI
EMI requirement
PC141 1000P
PC142 1000P
PC143 .1UB
PC36 .1UB
PR29 154K/F
PR19 182K/F
PR20 47K
PU1B
PR22 47K
PR24 47K
PR18 47K
PC29 .1U
PU1D LM339
PR25 10K
PC31 4700P
PR13 22K
PC27 220P
OSC
200KHz
PR21 10K
PC28 .1UB
PC33 1000P
PR23 100K
PR15 4.7K
PR17 7.5K/F
REF5V
[23] CC-SET
PU1C LM339
PU1A LM339
PC32 .1UB
PC30 .1U
PR14 115K/F
CV-SET [23]
PR28 60.4K/D
REF5V
PR54 10K/F
MTEMPV
MTEMPV [23]
PC60 .01U
[23] ACIN
ACIN
PR26 10K
PQ12 2N7002E
VAD
PD7
ZD15V
PR27 10K
PQ24
IMD2
VIN
[23] REFON
REFP [23]
PU4
REF-02
SOIC8
REF5V
REF5V [23]
PC59 .1UB
PC61 .1U
VIN
PR114 10mR-2512
VIN-AC
PU11 MAX4173F
+12V
VAC_75W_AC
PC139 .1U
PC140 .1UB
[23] ACIN_VOT
PR115 102K/F
PR116 10mR-2512
VIN-BAT
PR117 34K/F
PU12 MAX4173F
VAC_75W_BAT
PC144 .1U
PC145 .1UB
PR118 *0
U42
SN74CBTD3306
[23] VAC_75W
VAC_75W_BAT
VAC_75W_AC
+5V
C756 .1U
-ACIN [23]
R476 10K
Q58 DTC144EU
ACIN
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
Size C
Document Number
CHARGER AND SELECT
Rev 3A
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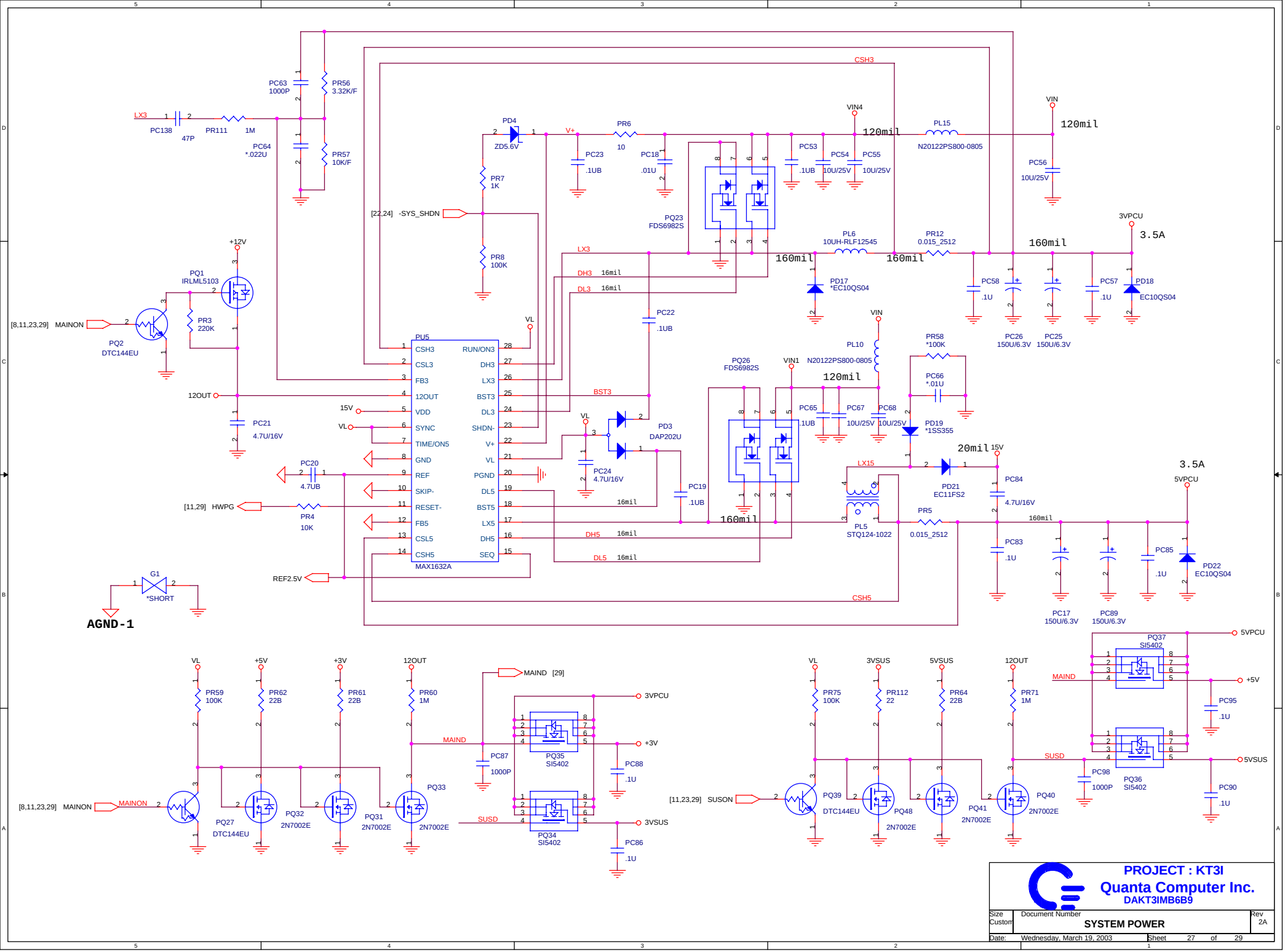
PROJECT : KT3I
Quanta Computer Inc.
DAKT3IMB6B9
SYSTEM POWER
Size: Custom
Document Number
Rev: 2A
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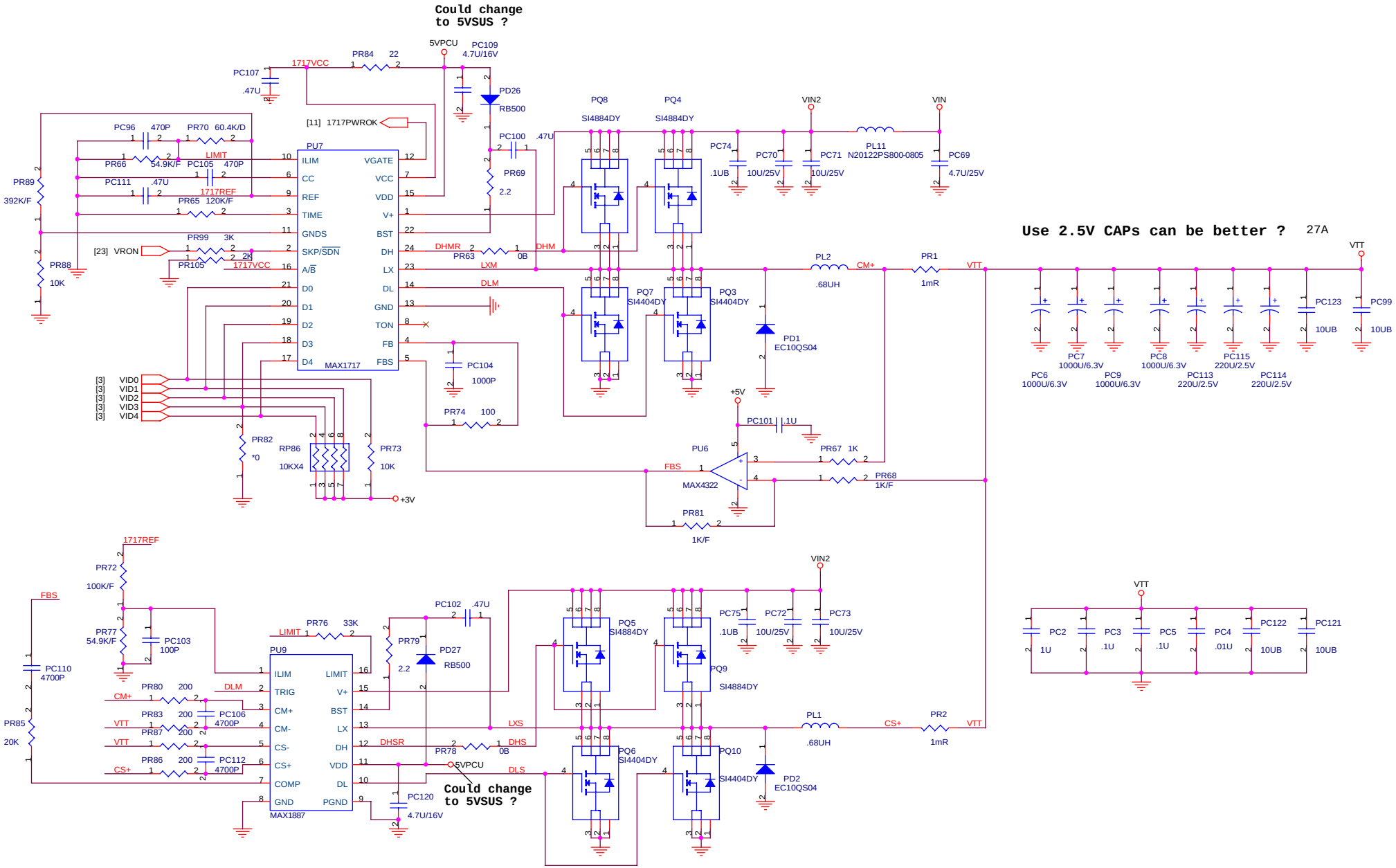
MAX1632A
AGND-1
CSH3
CSH5
LX3
LX15
VIN
VIN4
VIN1
VL
+12V
12OUT
15V
+5V
+3V
3VPCU
5VPCU
3VSUS
5VSUS
3.5A
120mil
160mil
20mil
16mil
MAINON
SUSON
MAIND
SUSD
-SYS_SHDN
HWPG
REF2.5V
BST3
DH3
DL3
DH5
DL5
PU5
PQ1 IRLML5103
PQ2 DTC144EU
PQ23 FDS6982S
PQ26 FDS6982S
PQ27 DTC144EU
PQ31 2N7002E
PQ32 2N7002E
PQ33 2N7002E
PQ34 SI5402
PQ35 SI5402
PQ36 SI5402
PQ37 SI5402
PQ39 DTC144EU
PQ40 2N7002E
PQ41 2N7002E
PQ48 2N7002E
PD3 DAP202U
PD4 ZD5.6V
PD17 *EC10QS04
PD18 EC10QS04
PD19 *1SS355
PD21 EC11FS2
PD22 EC10QS04
PL5 STQ124-1022
PL6 10UH-RLF12545
PL10
PL15 N20122PS800-0805
PR3 220K
PR4 10K
PR5 0.015_2512
PR6 10
PR7 1K
PR8 100K
PR12 0.015_2512
PR56 3.32K/F
PR57 10K/F
PR58 *100K
PR59 100K
PR60 1M
PR61 22B
PR62 22B
PR64 22B
PR71 1M
PR75 100K
PR111 1M
PR112 22
PC138 47P
PC63 1000P
PC64 *.022U
PC17 150U/6.3V
PC18 .01U
PC19 .1UB
PC20 4.7UB
PC21 4.7U/16V
PC22 .1UB
PC23 .1UB
PC24 4.7U/16V
PC25 150U/6.3V
PC26 150U/6.3V
PC53 .1UB
PC54 10U/25V
PC55 10U/25V
PC56 10U/25V
PC57 .1U
PC58 .1U
PC65 .1UB
PC66 *.01U
PC67 10U/25V
PC68 10U/25V
PC83 .1U
PC84 4.7U/16V
PC85 .1U
PC86 .1U
PC87 1000P
PC88 .1U
PC89 150U/6.3V
PC90 .1U
PC95 .1U
PC98 1000P
G1 *SHORT
[8,11,23,29] MAINON
[11,23,29] SUSON
[11,29] HWPG
[22,24] -SYS_SHDN
[29] MAIND

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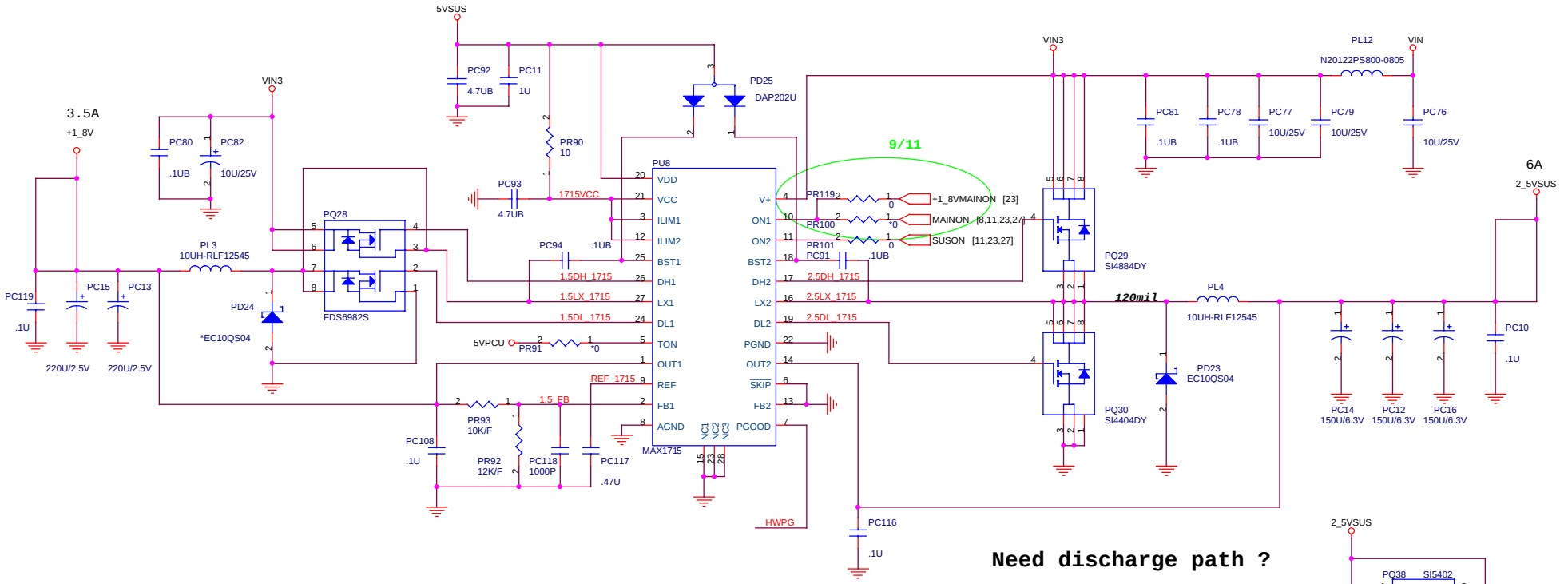
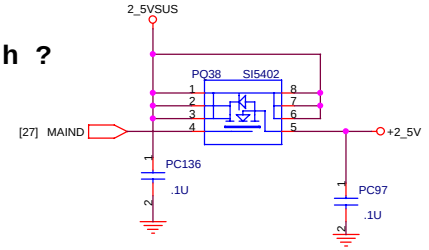
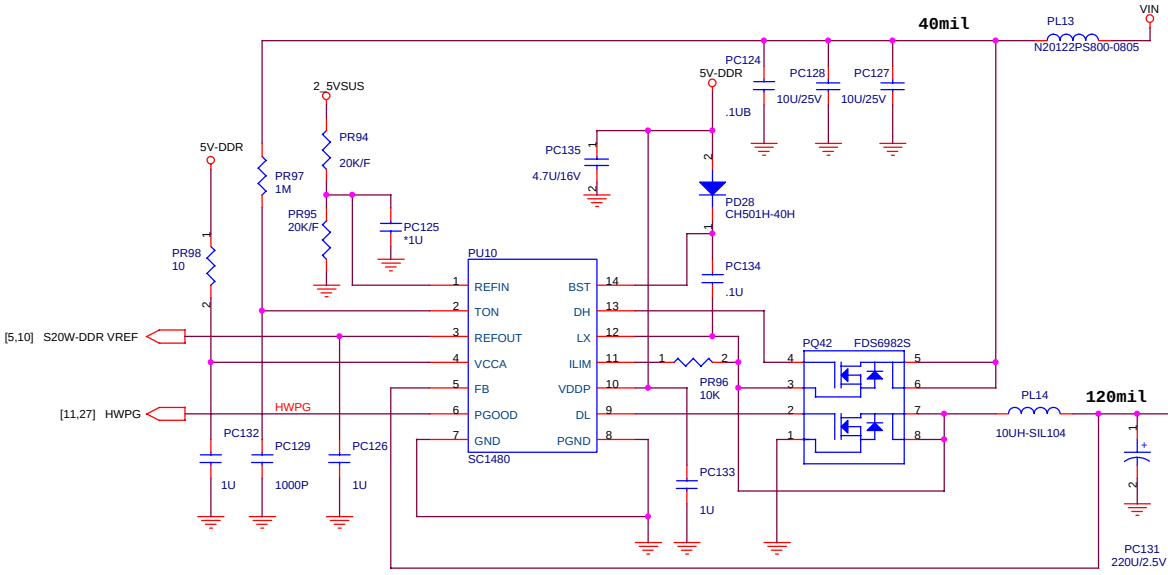
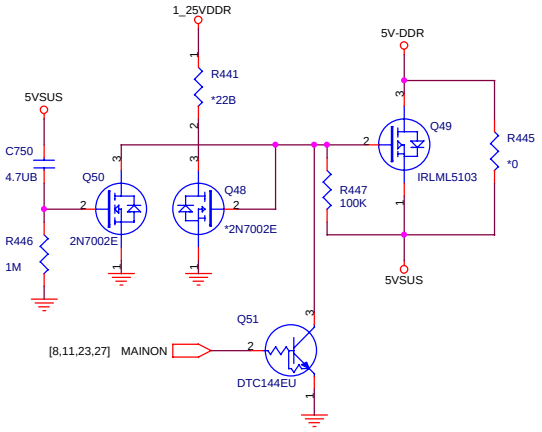



**Need discharge path ?**

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CONNECT PIN 117 TO A_SKT_VCC = OZ6833 CONTROLLER INSTALLED
CONNECT PIN 117 TO PCI_RST# = ONLY SUPPORT D3_HOT
CONNECT PIN 117 TO GRST# = D3-COLD SUPPORT WITH GRST# SIGNAL

# O2 MICRO CARDBUS CONTROLLER OZ6933 TQFP

NOTES:

THE SERIAL IRQ SIGNAL MUST BE PULLED-UP BY 10K ON THE MLB.

THE TWO SOCKET ACTIVITY SIGNALS MAY BE ORED TOGETHER FOR A SINGLE SIGNAL.

THE STRAPPING RESISTORS ON SLATCH AND SDATA CONFIGURE OZ6933 FOR SERIAL POWER. (SEE BOTTOM OF PAGE)

THE OZ6933 DEFAULTS TO PCI INT. MODE. (The BIOS must program PCI/WAY mode)

PME# AND IRQSER# MUST BE PULLED-UP SOMEWHERE ON THE MOTHERBOARD.

THIS SIGNAL CAN CONTROL A BANK OF ZV BUFFERS TO SUPPORT ZOOM-VIDEO ON BOTH SLOTS.

THESE RESISTORS ARE REQUIRED FOR POWER-ON STRAPPING IN ORDER TO GUARANTEE CORRECT POWER SWITCH MODE.

SERIAL POWER CONTROL

U44 OZ6933TQFP

U43 OZ2206 NEW PART

TI TPS2206 DUAL-SLOT SERIAL

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|---|---|---|
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