QUANTA COMPUTER INC.

(March/31/2003) Rev : E

PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	COVER PAGE	E
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DT1

VB Board

or

AGP Board

Video Bridge SiS/ 302LV

Graphic Chip ATi or nVIDIA

CPU INTEL P4 (SOCKET-478) PAGE : 03,04,05

Host Bus (400/533MHz)

AGP Connector PAGE 15

AGP 4X BUS

NORTH BRIDGE SIS M650 (BGA 702) PAGE : 06,07,08,09

266/333MHz DDR SDRAM

LONG-DIMM PAGE 17

LONG-DIMM PAGE 17

Y/C

RGB

S-Video PAGE 20

CRT PAGE 16

RGB

MUTIOL 533MHz

2*CPU/CPU-
1*SDRAM
2*HyperZip
1*AGP
4*PCI
3*REF
1*48MHz
0*24/48MHz

Main CLOCK GEN. PAGE : 14

CLK_IN
6*CLK_OUT/-
FB_OUT
FB_IN

DDR CLOCK BUFFER PAGE : 14

HDD PAGE 22

SECONDRY IDE

CDROM PAGE 22

PRIMARY IDE

SOUTH BRIDGE SIS 962 (BGA 371) PAGE : 10,11,12,13

MII

LAN PHY Broadcom/ AC101L PAGE 21

RJ45 PAGE 21

1394 PHY Agere/ FW802C PAGE 23

1394 PAGE 23

1394 PAGE 23

LPC

Audio DJ O2/ OZ263 PAGE 29

Audio DJ Board Connector PAGE 29

USB

Card Reader Connector PAGE 19

USB4 PAGE 19

USB5 PAGE 19

USB2 PAGE 19

USB3 PAGE 19

Audio Codec Realtek/ ALC202 PAGE 26

MIC-IN PAGE 26

BIOS PAGE 25

LPC

PCI
AC97
USB 1

Audio Amp NS/ LM4873LQ PAGE 27

Headphone PAGE 27

Speaker PAGE 27

Audio Amp NS/ LM4871LD PAGE 27

Sub-woofer PAGE 27

LED Board Connector PAGE 19

Keyboard Connector PAGE 28

KEY MATRIX

EC Winbond/ W83L950D PAGE 28

PS2

PCI Board Connector PAGE 20

Touchpad Board Connector PAGE 19

KB/MS PAGE 19

PCI Board

Card Bus O2/ OZ6912

PCMCIA Slot

Mini-PCI Slot

MDC Slot

RJ11 PAGE 21

LPT PAGE 22

COM PAGE 24

Super IO SMSC/ LPC47M192 PAGE 25

FDD PAGE 25

FAN1 PAGE 16

FAN2 PAGE 16

Power

RTCVDD

RTC PAGE : 24

VIN
VA2
VAD

BATTERY & ACIN PAGE : 30

VDDQ
12V_HDD

12V & VDDQ PAGE : 31

VCC2.5_M
VCC2.5_MEM
DDR_VTT

DDR & 2.5V PAGE : 32

5VPCU
3VPCU
+5VSUS
+3VSUS
5V
12VOUT
3V

SYSTEM POWER PAGE : 33

1.8VSUS

POWER DISCHARGE PAGE : 34

1.8V

VCCP
VCCVID
DDR_VTT

POWER CORE PAGE : 35

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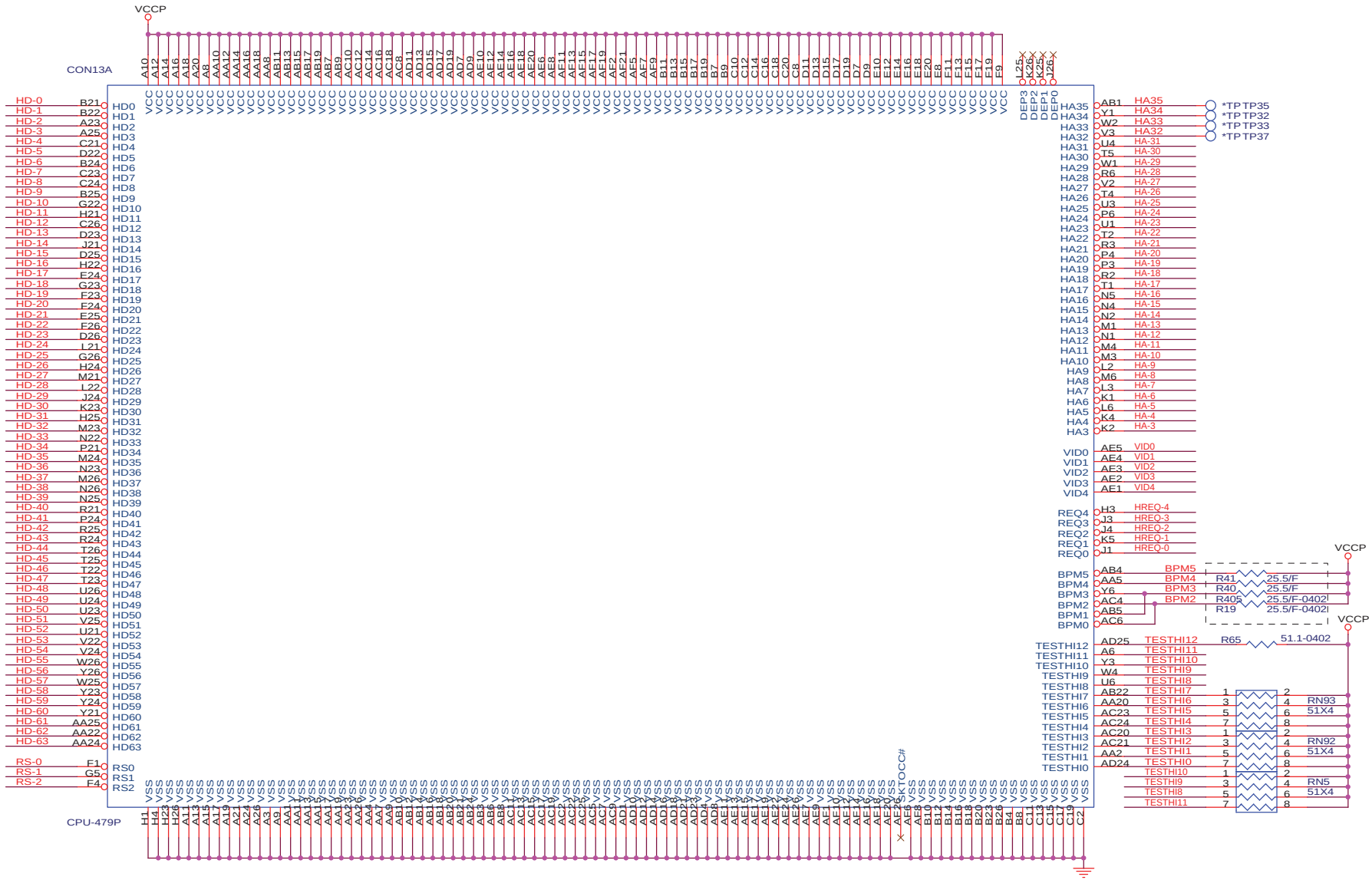

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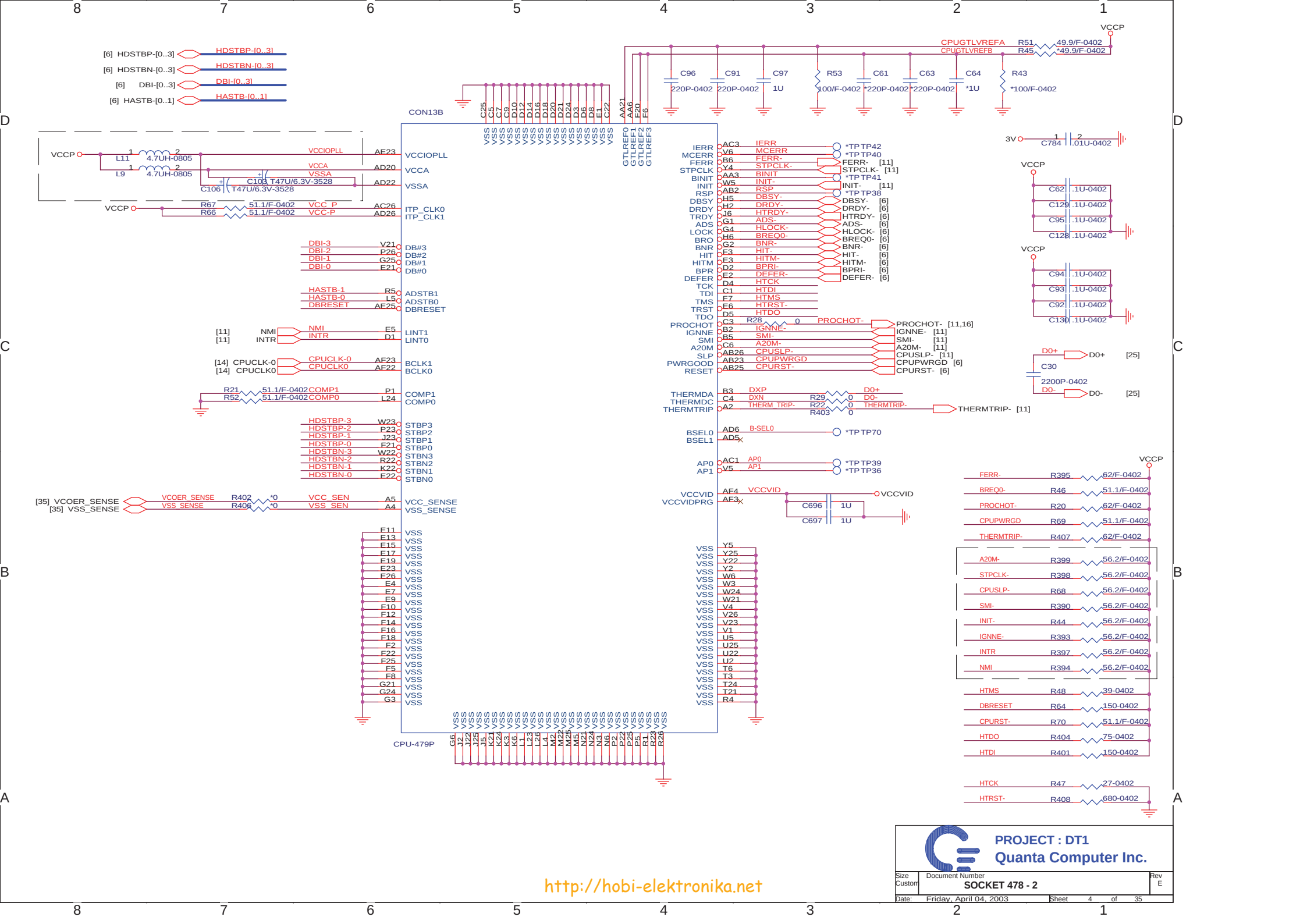
CON13B
CPU-479P
VCCP
CPUGTLVREFA
CPUGTLVREFB
R51 49.9/F-0402
R45 *49.9/F-0402
C96 220P-0402
C91 220P-0402
C97 1U
R53 100/F-0402
C61 *220P-0402
C63 *220P-0402
C64 *1U
R43 *100/F-0402
[6] HDSTBP-[0..3]
[6] HDSTBN-[0..3]
[6] DBI-[0..3]
[6] HASTB-[0..1]
VCCIOPLL
VCCA
VSSA
ITP_CLK0
ITP_CLK1
L11 4.7UH-0805
L9 4.7UH-0805
C106 T47U/6.3V-3528
C103 T47U/6.3V-3528
R67 51.1/F-0402
R66 51.1/F-0402
VCC_P
VCC-P
DBI-3
DBI-2
DBI-1
DBI-0
DB#3
DB#2
DB#1
DB#0
HASTB-1
HASTB-0
DBRESET
ADSTB1
ADSTB0
DBRESET
[11] NMI
[11] INTR
LINT1
LINT0
[14] CPUCLK-0
[14] CPUCLK0
BCLK1
BCLK0
R21 51.1/F-0402
R52 51.1/F-0402
COMP1
COMP0
HDSTBP-3
HDSTBP-2
HDSTBP-1
HDSTBP-0
HDSTBN-3
HDSTBN-2
HDSTBN-1
HDSTBN-0
STBP3
STBP2
STBP1
STBP0
STBN3
STBN2
STBN1
STBN0
[35] VCOER_SENSE
[35] VSS_SENSE
VCOER_SENSE
VSS_SENSE
R402 *0
R406 *0
VCC_SEN
VSS_SEN
VCC_SENSE
VSS_SENSE
IERR
MCERR
FERR
STPCLK
BINIT
INIT
RSP
DBSY
DRDY
TRDY
ADS
LOCK
BRO
BNR
HIT
HITM
BPR
DEFER
TCK
TDI
TMS
TRST
TDO
PROCHOT
IGNNE
SMI
A20M
SLP
PWRGOOD
RESET
R28 0
PROCHOT-
IGNNE-
SMI-
A20M-
CPUSLP-
CPUPWRGD
CPURST-
THERMDA
THERMDC
THERMTRIP
DXP
DXN
THERM_TRIP-
R29 0
R22 0
R403 0
D0+
D0-
THERMTRIP-
THERMTRIP- [11]
BSEL0
BSEL1
B-SEL0
AP0
AP1
VCCVID
VCCVIDPRG
C696 1U
C697 1U
3V
C784 .01U-0402
C62 .1U-0402
C129 .1U-0402
C95 .1U-0402
C128 .1U-0402
C94 .1U-0402
C93 .1U-0402
C92 .1U-0402
C130 .1U-0402
C30 2200P-0402
FERR- R395 62/F-0402
BREQ0- R46 51.1/F-0402
PROCHOT- R20 62/F-0402
CPUPWRGD R69 51.1/F-0402
THERMTRIP- R407 62/F-0402
A20M- R399 56.2/F-0402
STPCLK- R398 56.2/F-0402
CPUSLP- R68 56.2/F-0402
SMI- R390 56.2/F-0402
INIT- R44 56.2/F-0402
IGNNE- R393 56.2/F-0402
INTR R397 56.2/F-0402
NMI R394 56.2/F-0402
HTMS R48 39-0402
DBRESET R64 150-0402
CPURST- R70 51.1/F-0402
HTDO R404 75-0402
HTDI R401 150-0402
HTCK R47 27-0402
HTRST- R408 680-0402
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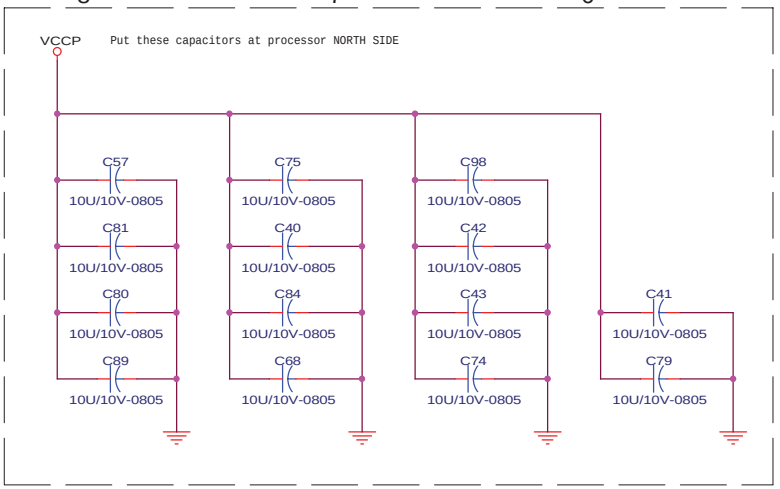
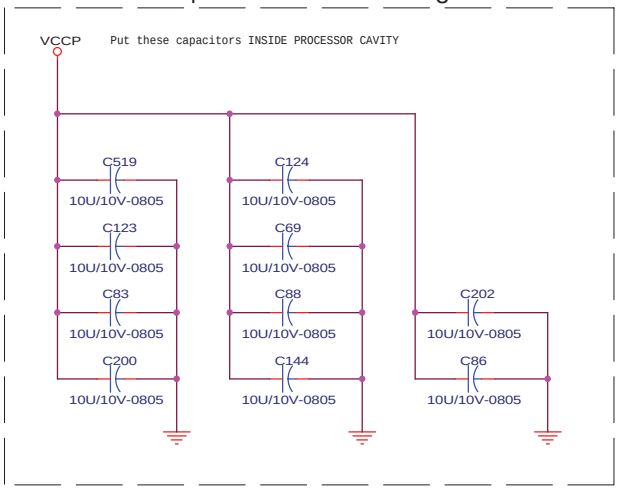
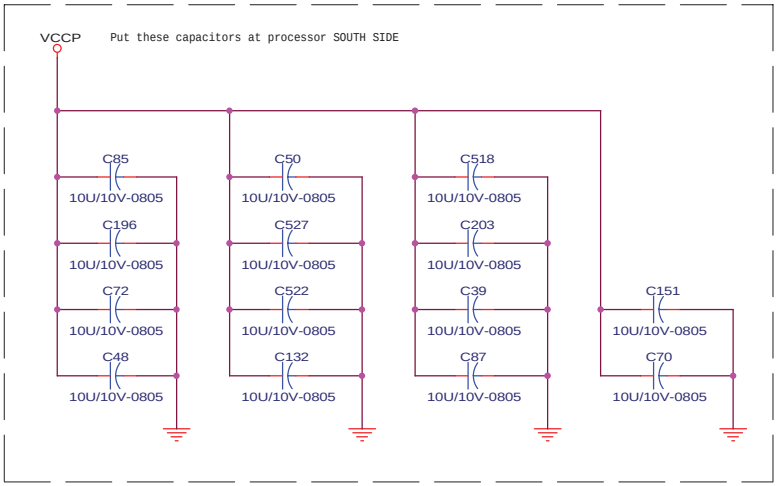
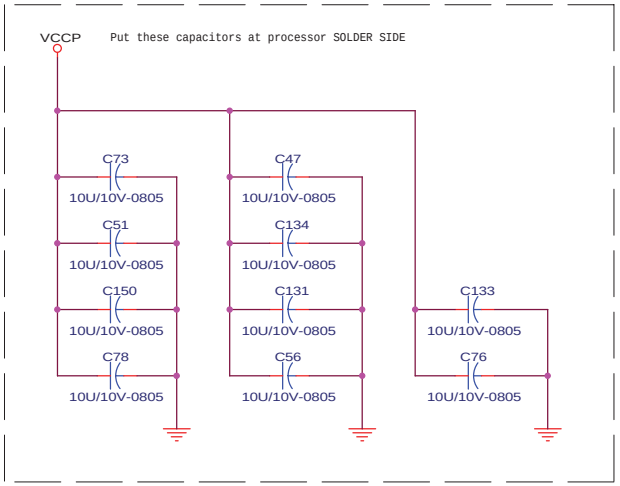
http://hobi-elektronika.net

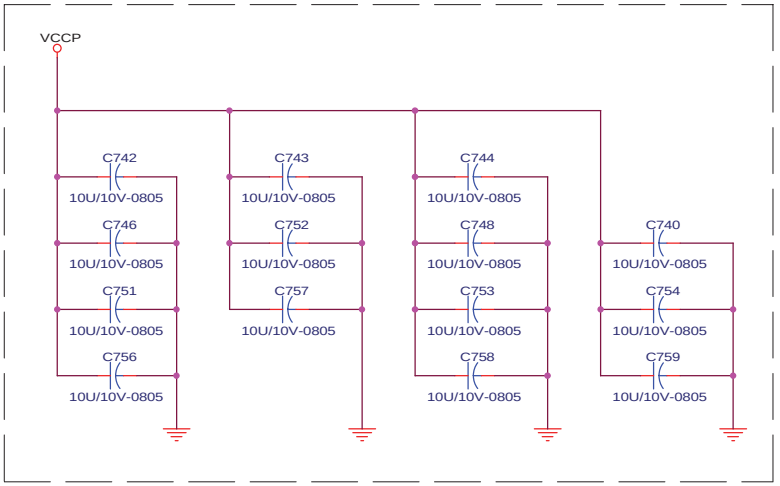


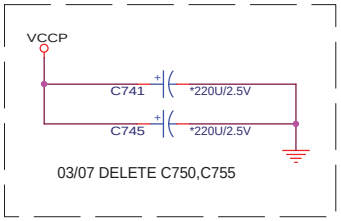






P.S. Choose X7R/X5R components instead of Y5V for all 10uF_1206 capacitors on this page.





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Quanta Computer Inc.

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650-1

HOST

AGP

U6A

SIS-650

[4] HDSTBP-[0..3] — HDSTBP-[0..3]
[4] HDSTBN-[0..3] — HDSTBN-[0..3]
[4] DBI-[0..3] — DBI-[0..3]
[3] HD-[0..63] — HD-[0..63]
[4] HASTB-[0..1] — HASTB-[0..1]
[3] HA-[3..31] — HA-[3..31]
[3] HREQ-[0..4] — HREQ-[0..4]
[3] RS-[0..2] — RS-[0..2]

AAD[0..31] — AAD[0..31] [15]
SBA[0..7] — SBA[0..7] [15]
ACBE-[0..3] — ACBE-[0..3] [15]
ST[0..2] — ST[0..2] [15]
ADSTB[0..1] — ADSTB[0..1] [15]
ADSTB-[0..1] — ADSTB-[0..1] [15]

[14] CPUCLK1 — CPUCLK1 — AJ26 CPUCLK
[14] CPUCLK-1 — CPUCLK-1 — AH26 CPUCLK#

[4] HLOCK- — HLOCK- — U24 HLOCK#
[4] DEFER- — DEFER- — U26 DEFER#
[4] HTRDY- — HTRDY- — V26 HTRDY#
[4] CPURST- — CPURST- — C20 CPURST#
[4] CPUPWRGD — CPUPWRGD — D19 CPUPWRGD
[4] BPRI- — BPRI- — T27 BPRI#
[4] BREQ0- — BREQ0- — U25 BREQ0#

RS-2 — T24 RS#2
RS-1 — T26 RS#1
RS-0 — U29 RS#0

[4] ADS- — ADS- — V28 ADS#
[4] HITM- — HITM- — T28 HITM#
[4] HIT- — HIT- — U28 HIT#
[4] DRDY- — DRDY- — W26 DRDY#
[4] DBSY- — DBSY- — V24 DBSY#
[4] BNR- — BNR- — V27 BNR#

HREQ-4 — W28 HREQ#4
HREQ-3 — W29 HREQ#3
HREQ-2 — W24 HREQ#2
HREQ-1 — W25 HREQ#1
HREQ-0 — Y27 HREQ#0

HASTB-1 — AD24 HASTB#1
HASTB-0 — AA24 HASTB#0

HA-31 — AE26 HA#31
HA-30 — AE25 HA#30
HA-29 — AH28 HA#29
HA-28 — AD26 HA#28
HA-27 — AG29 HA#27
HA-26 — AE26 HA#26
HA-25 — AE28 HA#25
HA-24 — AC24 HA#24
HA-23 — AG28 HA#23
HA-22 — AE29 HA#22
HA-21 — AD28 HA#21
HA-20 — AC25 HA#20
HA-19 — AD27 HA#19
HA-18 — AE28 HA#18
HA-17 — AE27 HA#17
HA-16 — AB24 HA#16
HA-15 — AB26 HA#15
HA-14 — AC28 HA#14
HA-13 — AC26 HA#13
HA-12 — AC29 HA#12
HA-11 — AA26 HA#11
HA-10 — AB28 HA#10
HA-9 — AB27 HA#9
HA-8 — AA25 HA#8
HA-7 — AA29 HA#7
HA-6 — AA28 HA#6
HA-5 — Y26 HA#5
HA-4 — Y24 HA#4
HA-3 — Y28 HA#3

AC/BE#3 — E6 — ACBE-3
AC/BE#2 — E3 — ACBE-2
AC/BE#1 — H4 — ACBE-1
AC/BE#0 — K5 — ACBE-0

AREQ# — C9 — AREQ- — AREQ- [15]
AGNT# — A6 — AGNT- — AGNT- [15]
AFRAME# — G2 — AFRAME- — AFRAME- [15]
AIRDY# — G1 — AIRDY- — AIRDY- [15]
ATRDY# — G3 — ATRDY- — ATRDY- [15]
ADEVSEL# — G4 — ADEVSEL- — ADEVSEL- [15]
ASERR# — H5 — ASERR- — ASERR- [15]
ASTOP# — H1 — ASTOP- — ASTOP- [15]

APAR — H3 — APAR — APAR [15]

RBF# — E8 — RBF- — RBF- [15]
WBF# — F8 — WBF- — WBF- [15]
PIPE# — D9 — PIPE- — PIPE- [15]

AGP8XDET — D10 — AGP8XDET — *TP TP12
ADBIH — B3 — ADBIH — ADBIH [15]
ADBIL — C4 — ADBIL — ADBIL [15]

SB_STB — B5 — SBSTB — SBSTB [15]
SB_STB# — A4 — SBSTB- — SBSTB- [15]

AD_STB0 — K1 — ADSTB0
AD_STB0# — L1 — ADSTB-0

AD_STB1 — C1 — ADSTB1
AD_STB1# — D1 — ADSTB-1

AGPCLK — B10 — AGPCLK0 — AGPCLK0 [14]

AGPRCOMP — M1 — AGPRCOMP

A1XAVDD — B9 — A1XAVDD
A1XAVSS — A9 — A1XAVSS

A4XAVDD — B8 — A4XAVDD
A4XAVSS — A8 — A4XAVSS

AGPVREF — M3 — AVREFGC — VREF_4X_IN [15]
AGPVSSREF — M2

HDSTBN#3 — E20 — HDSTBN-3
HDSTBN#2 — F23 — HDSTBN-2
HDSTBN#1 — K24 — HDSTBN-1
HDSTBN#0 — P24 — HDSTBN-0

HDSTBP#3 — F21 — HDSTBP-3
HDSTBP#2 — F24 — HDSTBP-2
HDSTBP#1 — L24 — HDSTBP-1
HDSTBP#0 — N25 — HDSTBP-0

VCCP — R428 20/F-0402 — HNCOMP
Rds-on(n) = 10 ohm
HNCVERF = 1/3 VCCP

VCCP — R112 110/F-0402 — HPCOMP
Rds-on(p) = 56 ohm
HPCVERF = 2/3 VCCP

VDDQ — AGPRCOMP — R446 60.4/F-0402

3V — L19 HI0805R800R-00 — A1XAVDD — C583 .01U-0402 — C582 .1U-0402 — C229 10U/10V-0805 — A1XAVSS — JP20 *SHORT

3V — L21 HI0805R800R-00 — A4XAVDD — C590 .01U-0402 — C591 .1U-0402 — C234 10U/10V-0805 — A4XAVSS — JP21 *SHORT

VCCP — R426 75/F-0402 — C530 .01U-0402 — HVREF — R427 150/F-0402 — C531 .01U-0402 — C532 .1U-0402

VCCP — R123 150/F-0402 — C190 .01U-0402 — HNCVREF — R124 75/F-0402 — C191 .01U-0402

place this capacitor under 650 solder side

3V — L49 HI0805R800R-00 — C1XAVDD — C524 .01U-0402 — C525 .1U-0402 — C183 10U/10V-0805 — C1XAVSS — JP16 *SHORT

3V — L48 HI0805R800R-00 — C4XAVDD — C520 .01U-0402 — C521 .1U-0402 — C172 10U/10V-0805 — C4XAVSS — JP15 *SHORT

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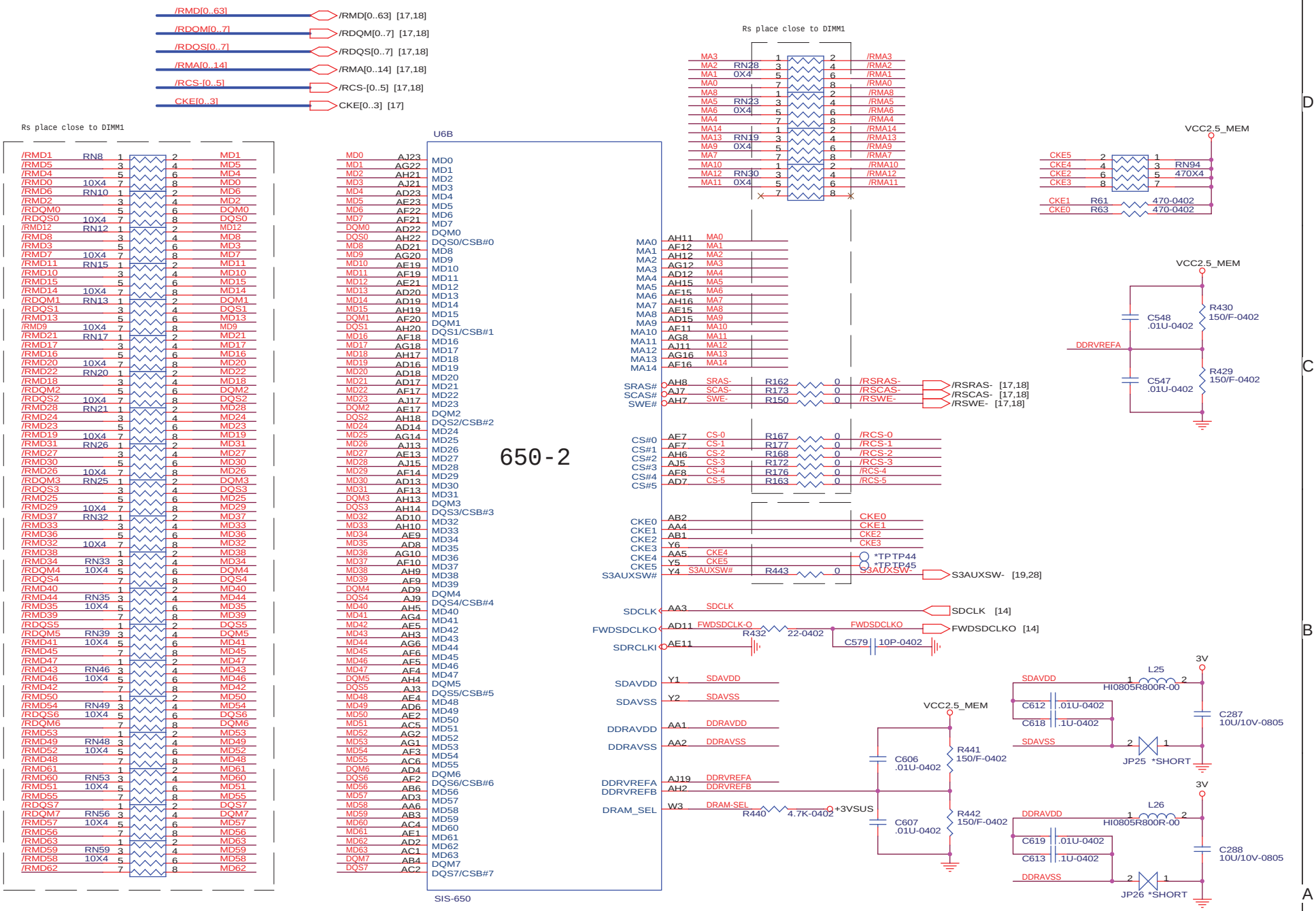

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Quanta Computer Inc.

Size	Document Number	Rev
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NOTE: This page is for universal PCB design(suitable for both 645 or 650)

NB Hardware Trap Table

	0	1	Default	
DLLEN#	enable PLL	disable PLL	0	embedded pull-low (30~50K Ohm)
DRAM_SEL	SDR	DDR	1(DDR)	yes
TRAP0	normal	NB debug mode	0	yes
TRAP1	TV selection, NTSC/PAL(0/1)		0	
CSYNC	enable VB		0	
RSYNC	enable VGA interrupt		1	
LSYNC	enable panel link		0	

[10] ZAD[0..15] ZADB[0..15]
[10] ZSTB[0..1] ZSTB[0..1]
[10] ZSTB-[0..1] ZSTB-[0..1]

U6C

VGA

HyperZip

650-3

Stereo Glass

SIS-650

[14] ZCLK0 ZCLK0 V3
[10] ZUREQ ZUREQ U6
[10] ZDREQ ZDREQ U1
ZSTB0 T3
ZSTB-0 T1
ZSTB1 P1
ZSTB-1 P3
ZAD0 T4
ZAD1 R3
ZAD2 T5
ZAD3 T6
ZAD4 R2
ZAD5 R6
ZAD6 R1
ZAD7 R4
ZAD8 P4
ZAD9 N3
ZAD10 P5
ZAD11 P6
ZAD12 N1
ZAD13 N6
ZAD14 N2
ZAD15 N4
ZVREF U3
VDDZCMP V5
ZCMP_N U4
ZCMP_P U2
VSSZCMP V6
Z1XAVDD W1
Z1XAVSS W2
Z4XAVDD V2
Z4XAVSS V1

VOSCI C15 REFCLK0 REFCLK0 [14]
ROUT A12 R-OUT R438 BK1608LL680 ROUT ROUT [16]
GOUT B13 G-OUT R437 BK1608LL680 GOUT GOUT [16]
BOUT A13 B-OUT R436 BK1608LL680 BOUT BOUT [16]
HSYNC F13 H-SYNC R434 BK1005LL121 HSYNC HSYNC [16]
VSYNC F13 V-SYNC R433 BK1005LL121 VSYNC VSYNC [16]
VGPIO0 D13 DDC1-CLK R435 BK1005LL121 DDC1CLK DDC1CLK [16]
VGPIO1 D12 DDC1-DATA R439 BK1005LL121 DDC1DATA DDC1DATA [16]
INT#A B11 INT-A INT-A [10,15,20]
CSYNC E12 CSYNC
RSYNC A11 RSYNC
LSYNC F12 LSYNC
VCOMP E14 VCOMP
VRSET D14 VRSET
VVBWN F14 VVBWN
DACAVDD1 B12 DACAVDD
DACAVSS1 C12 DACAVSS
DACAVDD2 C13 DACAVDD
DACAVSS2 C14 DACAVSS
DCLKAVDD B15 DCLKAVDD
DCLKAVSS A15 DCLKAVSS
ECLKAVDD B14 ECLKAVDD
ECLKAVSS A14 ECLKAVSS

PCIRST# Y3
PWROK W4
AUXOK W6
TRAP1 D11
TRAP0 E10
TESTMODE2 A10
TESTMODE1 E11
TESTMODE0 C11
DLLEN# E11
ENTEST E10

[10,15,20,21,22,25,28,29] PCIRST- PCIRST-
[11,28] PWRGD PWRGD
[11,24] AUXOK AUXOK

*TP TP10
*TP TP43
*TP TP11

ROUT C603 *.1U-0402
GOUT C602 *.1U-0402
BOUT C601 *.1U-0402
HSYNC C593 *.1U-0402
VSYNC C592 *.1U-0402

RSYNC CSYNC LSYNC DLLEN- TRAP0 TRAP1 ENTEST
RN42 4.7KX4
RN45 4.7KX4
PWRGD C261 .1U-0402
AUXOK C620 .1U-0402

1.8V R200 150/F-0402 C270 .1U-0402 ZVREF R199 150/F-0402 C267 .1U-0402

3V L24 HI0805R800R-00 C286 10U/10V-0805 C617 .1U-0402 C611 .01U-0402 JP24 *SHORT Z1XAVDD Z1XAVSS

3V L23 HI0805R800R-00 C285 10U/10V-0805 C616 .1U-0402 C610 .01U-0402 JP23 *SHORT Z4XAVDD Z4XAVSS

1.8V L22 HI0805R800R-00 C284 10U/10V-0805 C609 .1U-0402 C608 .01U-0402 JP22 *SHORT
R445 56.2-0402 ZCMP_N VDDZCMP
R444 56.2-0402 ZCMP_P VSSZCMP

DCLKAVDD C553 .01U-0402 C554 .1U-0402 L15 HI0805R800R-00 3V C204 10U/10V-0805 JP17 *SHORT DCLKAVSS

ECLKAVDD C559 .01U-0402 C558 .1U-0402 L17 HI0805R800R-00 3V C205 10U/10V-0805 JP18 *SHORT ECLKAVSS

VVBWN C572 .1U-0402
VCOMP C571 .1U-0402
DACAVDD C563 .1U-0402 C564 1U L18 HI0805R800R-00 1.8V C213 10U/10V-0805 JP19 *SHORT DACAVSS
VRSET R431 133/F-0402

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Quanta Computer Inc.

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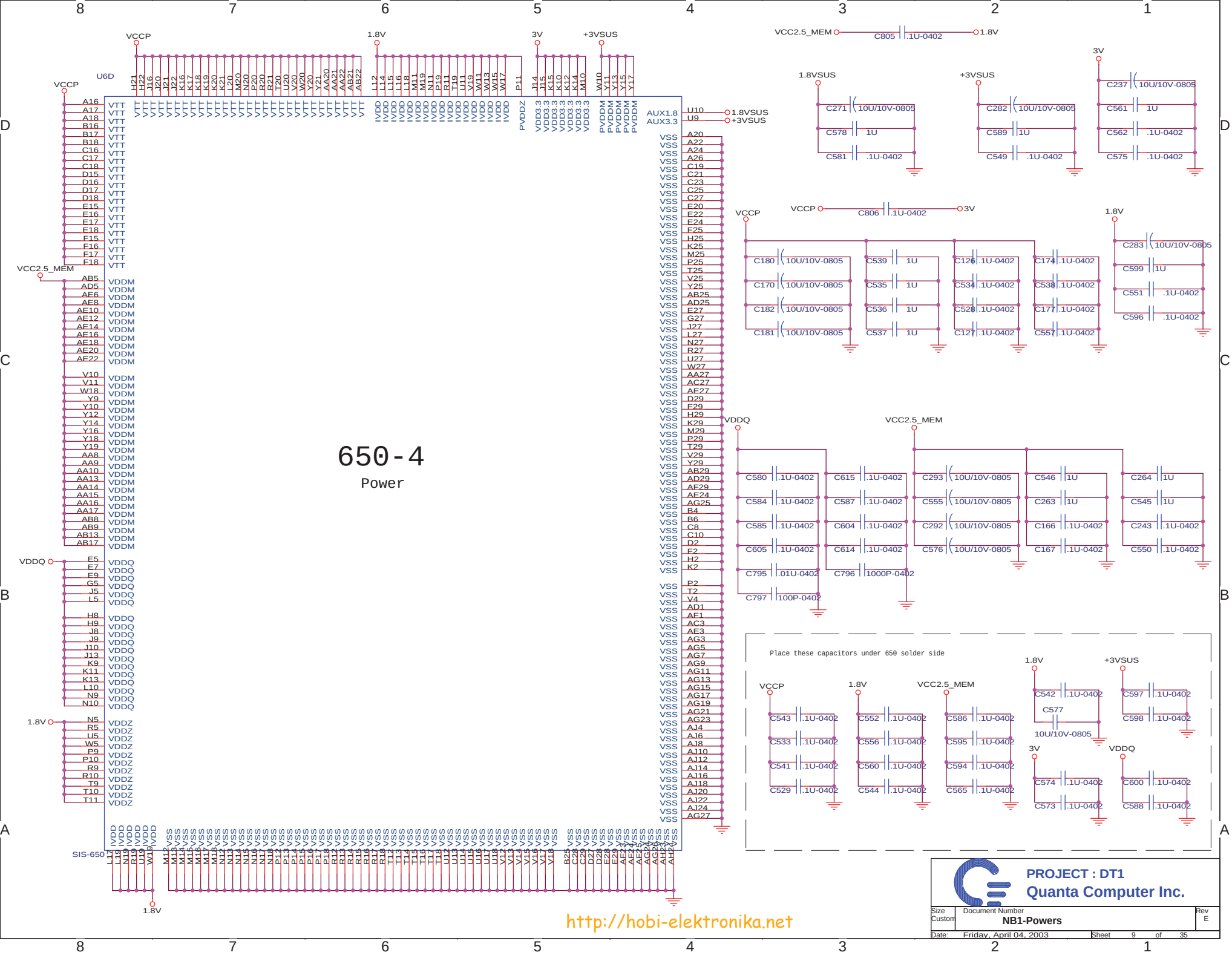
650-4

Power



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Quanta Computer Inc.

Size	Document Number	Rev
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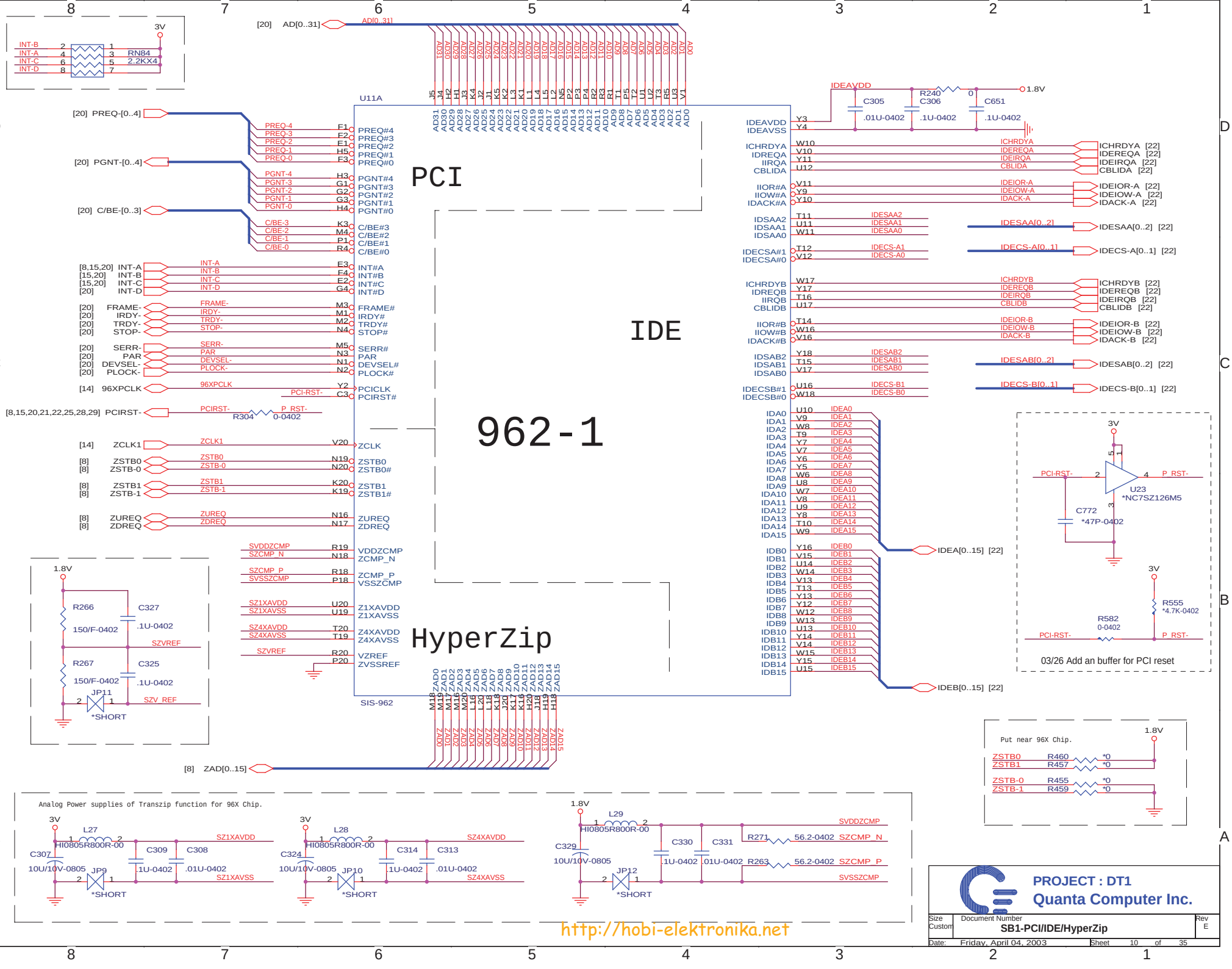
962-1
PCI
IDE
HyperZip
SIS-962
U11A
RN84 2.2KX4
[20] AD[0..31]
[20] PREQ-[0..4]
[20] PGNT-[0..4]
[20] C/BE-[0..3]
[8,15,20] INT-A
[15,20] INT-B
[15,20] INT-C
[20] INT-D
[20] FRAME-
[20] IRDY-
[20] TRDY-
[20] STOP-
[20] SERR-
[20] PAR
[20] DEVSEL-
[20] PLOCK-
[14] 96XPCLK
[8,15,20,21,22,25,28,29] PCIRST-
[14] ZCLK1
[8] ZSTB0
[8] ZSTB-0
[8] ZSTB1
[8] ZSTB-1
[8] ZUREQ
[8] ZDREQ
[8] ZAD[0..15]
IDEAVDD
IDEAVSS
ICHRDYA
IDREQA
IIRQA
CBLIDA
IIOR#A
IIOW#A
IDACK#A
IDSAA2
IDSAA1
IDSAA0
IDECSA#1
IDECSA#0
ICHRDYB
IDREQB
IIRQB
CBLIDB
IIOR#B
IIOW#B
IDACK#B
IDSAB2
IDSAB1
IDSAB0
IDECSB#1
IDECSB#0
IDEA[0..15] [22]
IDEB[0..15] [22]
1.8V
3V
C305 .01U-0402
C306 .1U-0402
C651 .1U-0402
R240 0
C327 .1U-0402
C325 .1U-0402
R266 150/F-0402
R267 150/F-0402
SZVREF
SZV_REF
JP11 *SHORT
R304 0-0402
P_RST-
PCI-RST-
U23 *NC7SZ126M5
C772 *47P-0402
R555 *4.7K-0402
R582 0-0402
03/26 Add an buffer for PCI reset
Put near 96X Chip.
ZSTB0 R460 *0
ZSTB1 R457 *0
ZSTB-0 R455 *0
ZSTB-1 R459 *0
Analog Power supplies of Transzip function for 96X Chip.
L27 HI0805R800R-00
L28 HI0805R800R-00
L29 HI0805R800R-00
C307 10U/10V-0805
C309 .1U-0402
C308 .01U-0402
C324 10U/10V-0805
C314 .1U-0402
C313 .01U-0402
C329 10U/10V-0805
C330 .1U-0402
C331 .01U-0402
R263 56.2-0402
R271 56.2-0402
JP9 JP10 JP12 *SHORT
SZ1XAVDD
SZ1XAVSS
SZ4XAVDD
SZ4XAVSS
SVDDZCMP
SVSSZCMP
SZCMP_N
SZCMP_P
PROJECT : DT1
Quanta Computer Inc.
SB1-PCI/IDE/HyperZip
Friday, April 04, 2003
http://hobi-elektronika.net

Programable on-die pull-high strength for CPU_S:
(Infinite, 150, 110, 56 Ohm)

U11B

CPU_S
APIC
LPC
RTC
962-2
GPIO
AC97
ACPI /others
KBC /geyserville
MII
GPIO

SIS-962

02/28 X7 COMPONENT FROM BG332768721 TO BG33768216

02/28 C399 FROM 20P TO 10P, C400 FROM 15P TO 10P

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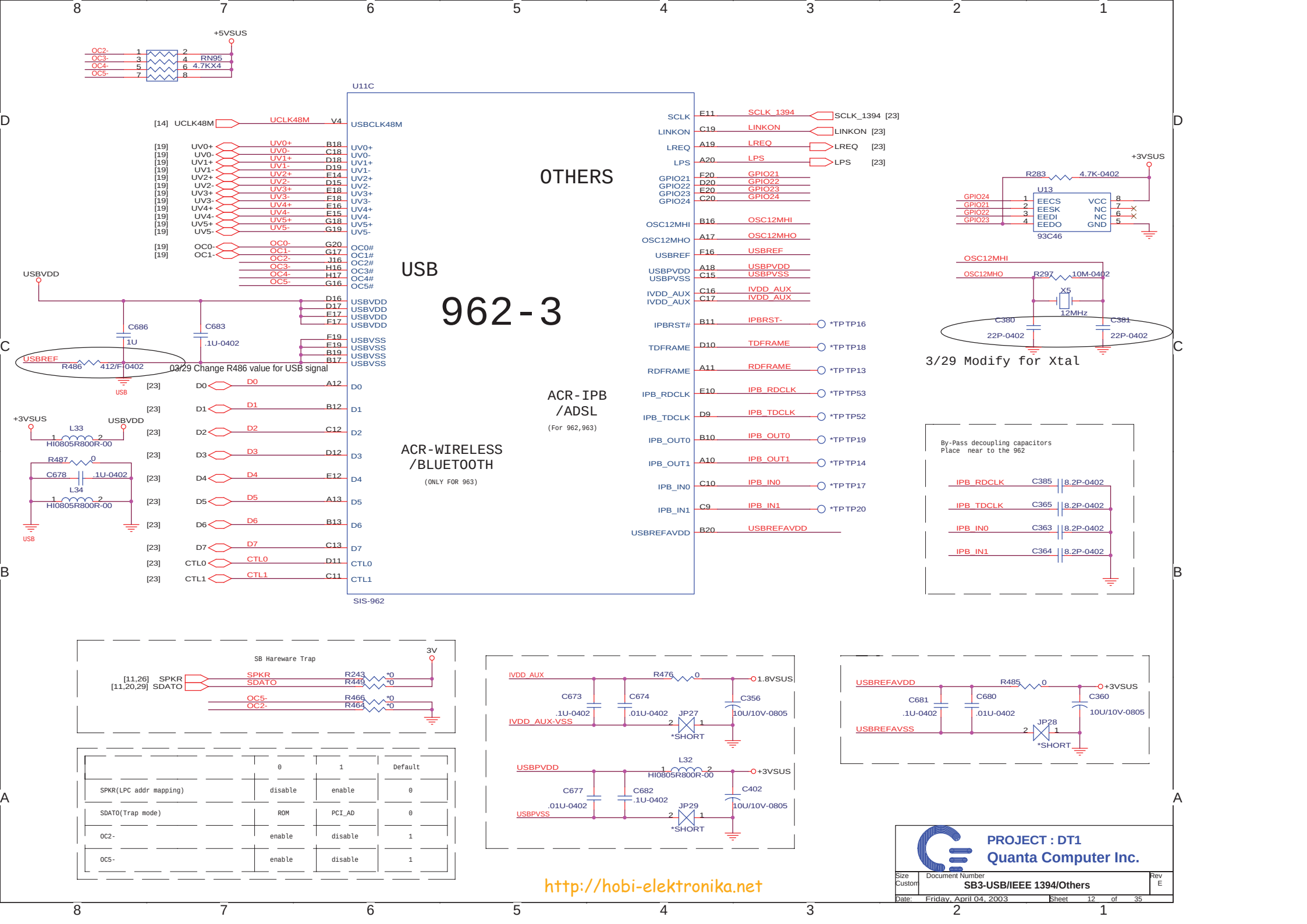
PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	SB2-Misc Signals	E

Date: Friday, April 04, 2003 Sheet 11 of 35


+5VSUS
OC2-
OC3-
OC4-
OC5-
RN95
4.7KX4
U11C
USB
962-3
SIS-962
OTHERS
ACR-IPB
/ADSL
(For 962,963)
ACR-WIRELESS
/BLUETOOTH
(ONLY FOR 963)
USBCLK48M
UCLK48M
USBVDD
USBREF
C686
1U
C683
.1U-0402
R486
412/F-0402
03/29 Change R486 value for USB signal
L33
HI0805R800R-00
R487
C678
L34
SCLK
LINKON
LREQ
LPS
GPIO21
GPIO22
GPIO23
GPIO24
OSC12MHI
OSC12MHO
USBREF
USBPVDD
USBPVSS
IVDD_AUX
IPBRST#
TDFRAME
RDFRAME
IPB_RDCLK
IPB_TDCLK
IPB_OUT0
IPB_OUT1
IPB_IN0
IPB_IN1
USBREFAVDD
SCLK_1394
LINKON
LREQ
LPS
IPBRST-
TDFRAME
RDFRAME
IPB_RDCLK
IPB_TDCLK
IPB_OUT0
IPB_OUT1
IPB_IN0
IPB_IN1
USBREFAVDD
*TP TP16
*TP TP18
*TP TP13
*TP TP53
*TP TP52
*TP TP19
*TP TP14
*TP TP17
*TP TP20
+3VSUS
R283
4.7K-0402
U13
93C46
EECS
EESK
EEDI
EEDO
VCC
NC
GND
OSC12MHI
OSC12MHO
R297
10M-0402
X5
12MHz
C380
C381
22P-0402
3/29 Modify for Xtal
By-Pass decoupling capacitors
Place near to the 962
IPB_RDCLK
IPB_TDCLK
IPB_IN0
IPB_IN1
C385
C365
C363
C364
8.2P-0402
SB Hareware Trap
3V
SPKR
SDATO
OC5-
OC2-
R243
R449
R466
R464
*0
SPKR(LPC addr mapping)
SDATO(Trap mode)
OC2-
OC5-
disable
enable
ROM
PCI_AD
Default
IVDD_AUX
IVDD_AUX-VSS
R476
1.8VSUS
C673
C674
C356
.01U-0402
10U/10V-0805
JP27
*SHORT
USBPVDD
L32
HI0805R800R-00
C677
C682
C402
JP29
USBREFAVDD
USBREFAVSS
R485
C681
C680
C360
JP28
http://hobi-elektronika.net
PROJECT : DT1
Quanta Computer Inc.
Size
Custom
Document Number
SB3-USB/IEEE 1394/Others
Rev
E
Date:
Friday, April 04, 2003
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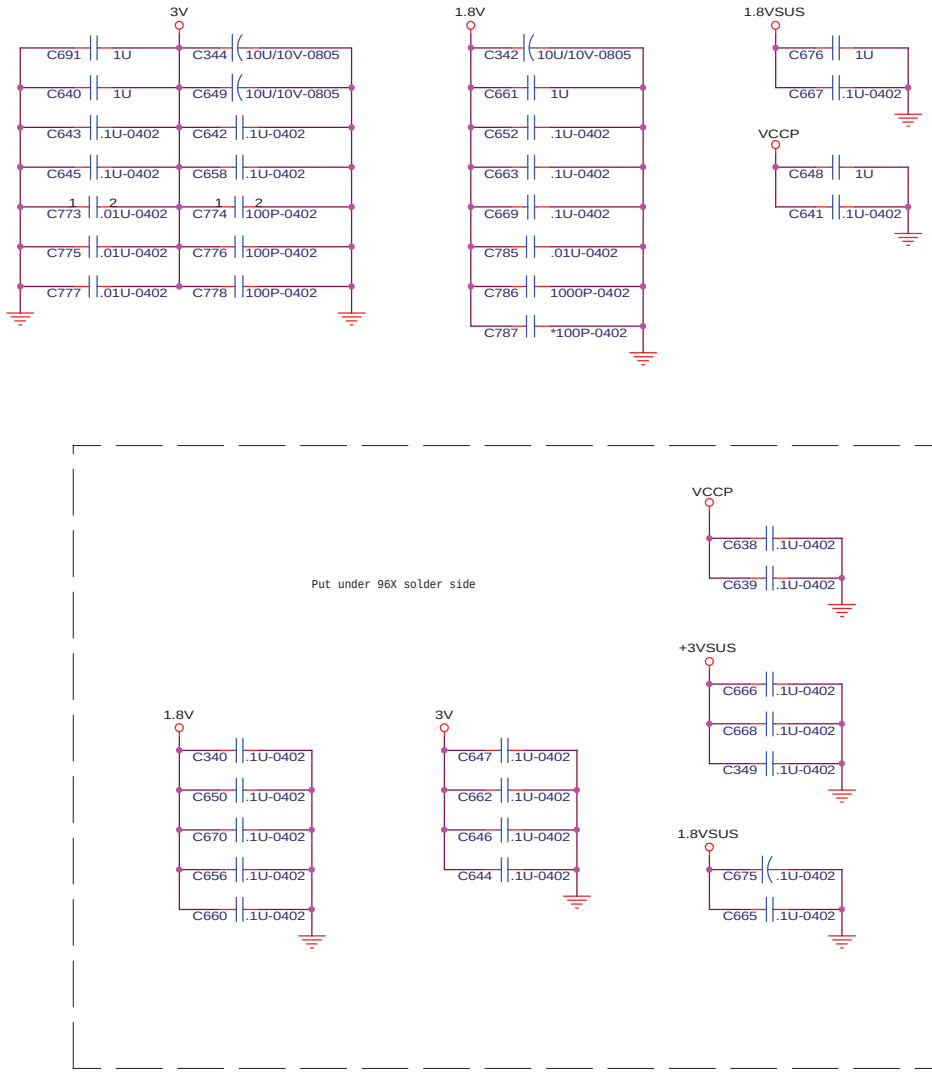
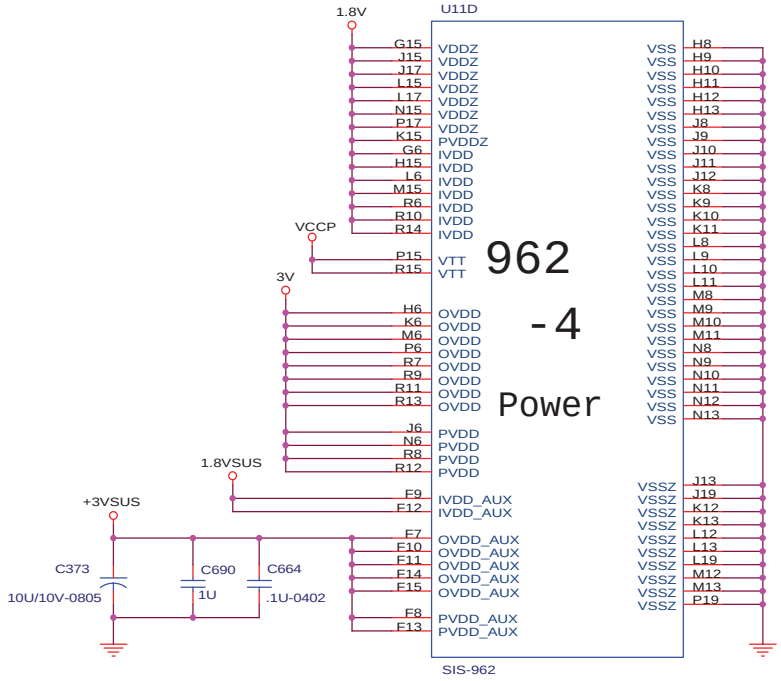
12
of
35

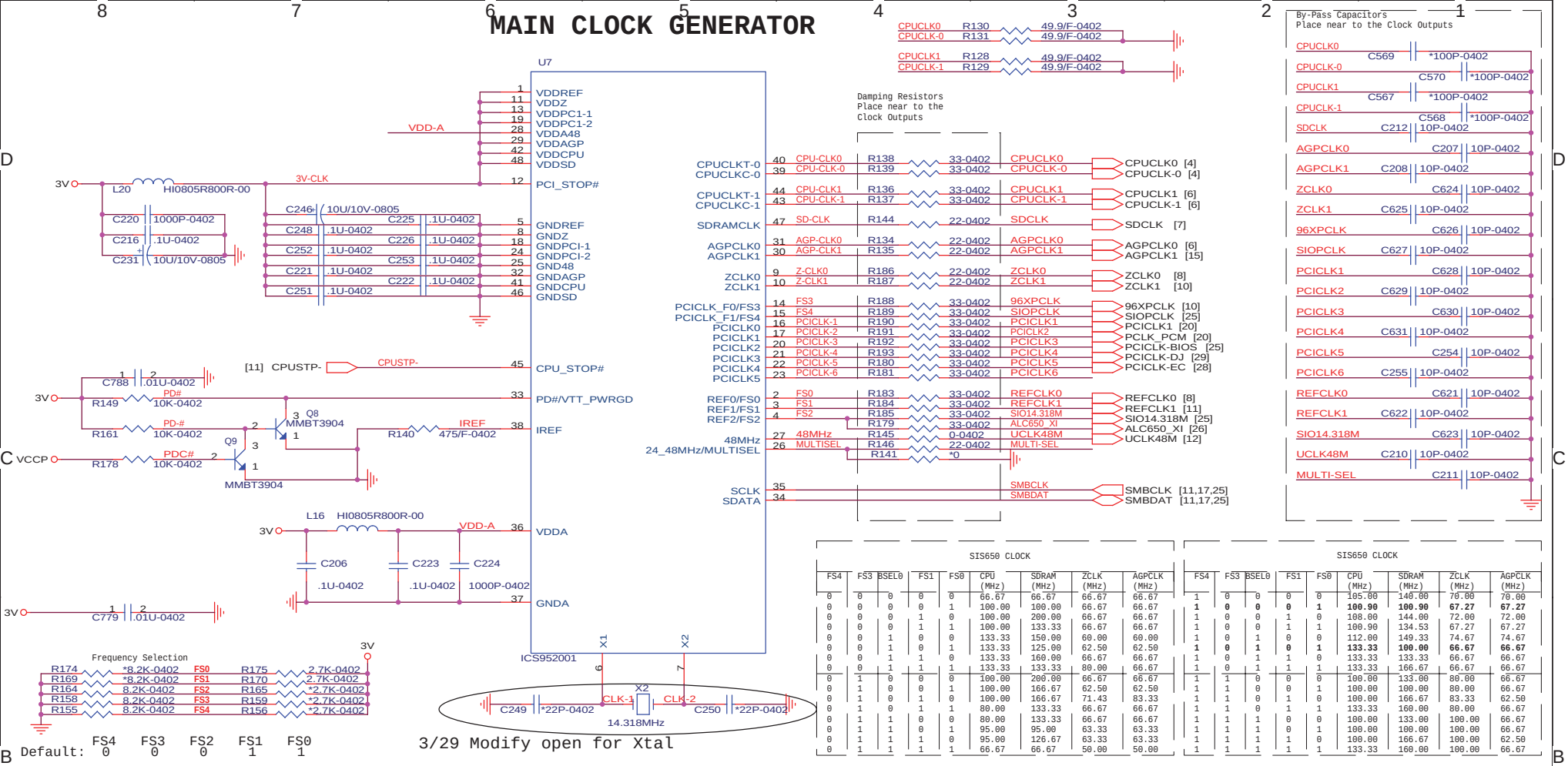




PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	SB4 - Powers	E
Date: Friday, April 04, 2003	Sheet 13 of 35	

MAIN CLOCK GENERATOR



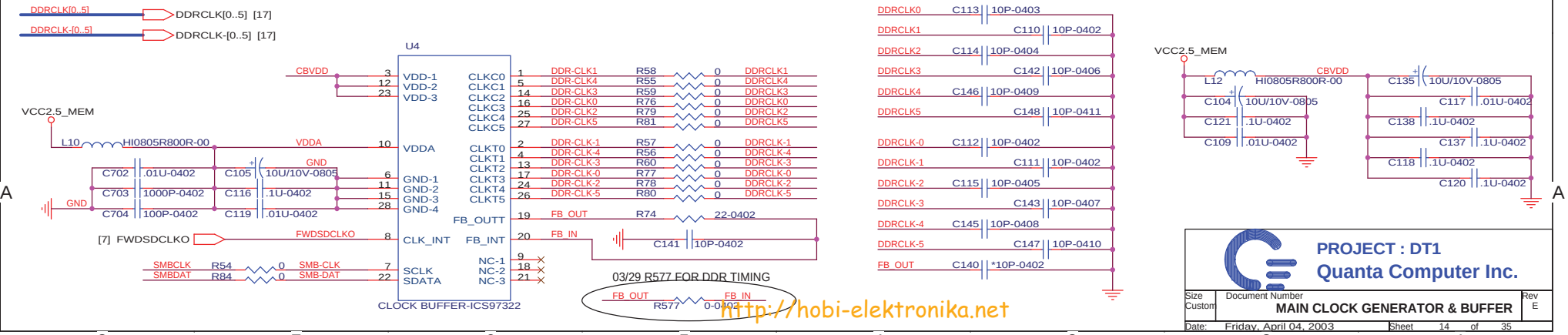
SIS650 CLOCK

FS4	FS3	BSEL0	FS1	FS0	CPU (MHz)	SDRAM (MHz)	ZCLK (MHz)	AGPCLK (MHz)
0	0	0	0	0	66.67	66.67	66.67	66.67
0	0	0	0	1	100.00	100.00	66.67	66.67
0	0	0	1	0	100.00	200.00	66.67	66.67
0	0	0	1	1	100.00	133.33	66.67	66.67
0	0	1	0	0	133.33	150.00	60.00	60.00
0	0	1	0	1	133.33	125.00	62.50	62.50
0	0	1	1	0	133.33	160.00	66.67	66.67
0	0	1	1	1	133.33	133.33	80.00	66.67
0	1	0	0	0	100.00	200.00	66.67	66.67
0	1	0	0	1	100.00	166.67	62.50	62.50
0	1	0	1	0	100.00	166.67	71.43	83.33
0	1	0	1	1	80.00	133.33	66.67	66.67
0	1	1	0	0	80.00	133.33	66.67	66.67
0	1	1	0	1	95.00	95.00	63.33	63.33
0	1	1	1	0	95.00	126.67	63.33	63.33
0	1	1	1	1	66.67	66.67	50.00	50.00

SIS650 CLOCK

FS4	FS3	BSEL0	FS1	FS0	CPU (MHz)	SDRAM (MHz)	ZCLK (MHz)	AGPCLK (MHz)
1	0	0	0	0	105.00	140.00	70.00	70.00
1	**0**	**0**	**0**	**1**	**100.90**	**100.90**	**67.27**	**67.27**
1	0	0	1	0	108.00	144.00	72.00	72.00
1	0	0	1	1	100.90	134.53	67.27	67.27
1	0	1	0	0	112.00	149.33	74.67	74.67
1	**0**	**1**	**0**	**1**	**133.33**	**100.00**	**66.67**	**66.67**
1	0	1	1	0	133.33	133.33	66.67	66.67
1	0	1	1	1	133.33	166.67	66.67	66.67
1	1	0	0	0	100.00	133.00	80.00	66.67
1	1	0	0	1	100.00	100.00	80.00	66.67
1	1	0	1	0	100.00	166.67	83.33	62.50
1	1	0	1	1	133.33	160.00	80.00	66.67
1	1	1	0	0	100.00	133.00	100.00	66.67
1	1	1	0	1	100.00	100.00	100.00	66.67
1	1	1	1	0	100.00	166.67	100.00	62.50
1	1	1	1	1	133.33	160.00	100.00	66.67

CLOCK BUFFER



PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	MAIN CLOCK GENERATOR & BUFFER	E

Date: Friday, April 04, 2003 Sheet 14 of 35

AGP 4X OUT INTERFACE

AGP_PLUG:
HI: USE AGP GRAPHIC
LO: USE ATI GRAPHIC

AGP PULL UPS

EMI Issue

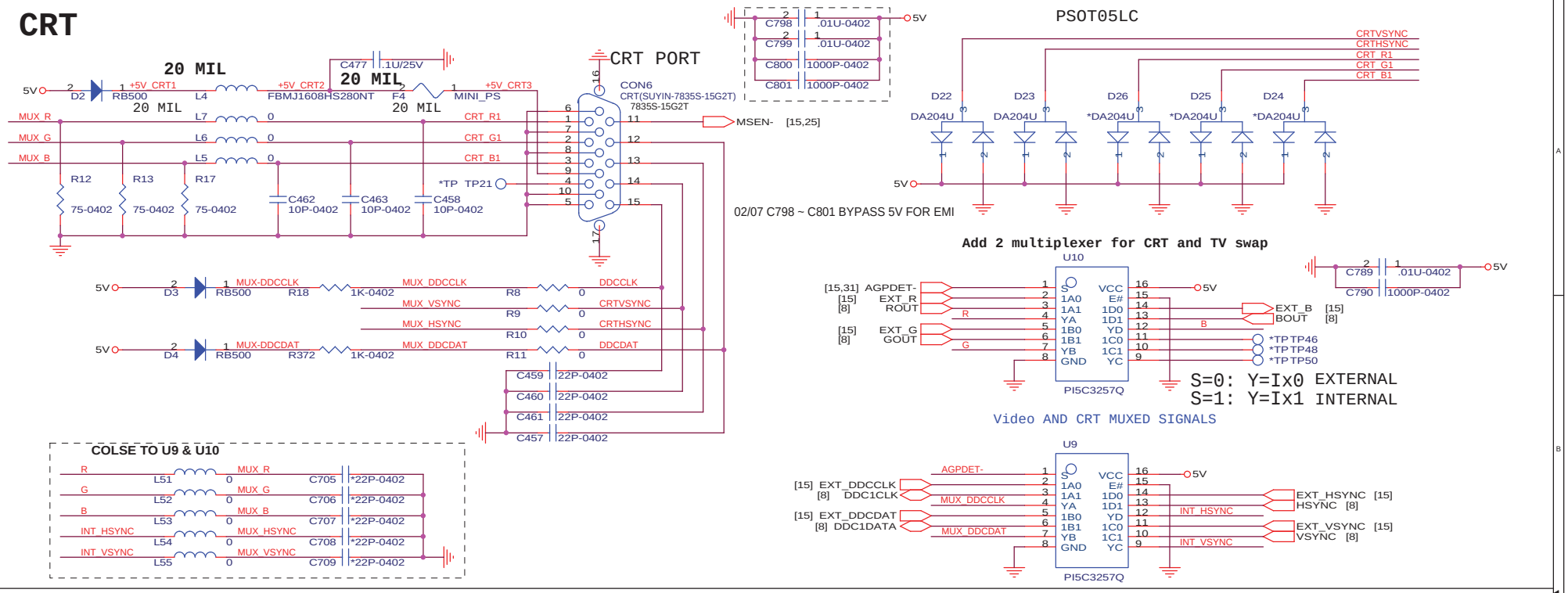
02/26 +5VSUS CHANGE TO 5V

PLACE CLOSE TO CONNECTOR

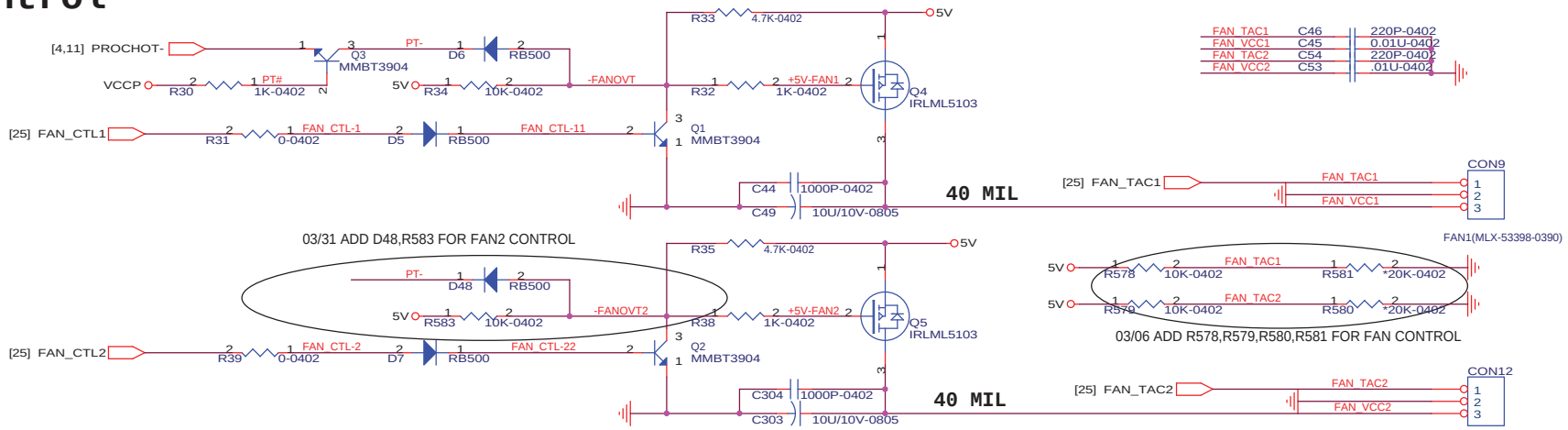
PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	AGP SLOT	E
Date: Friday, April 04, 2003	Sheet 15 of 35	

CRT



FAN Control

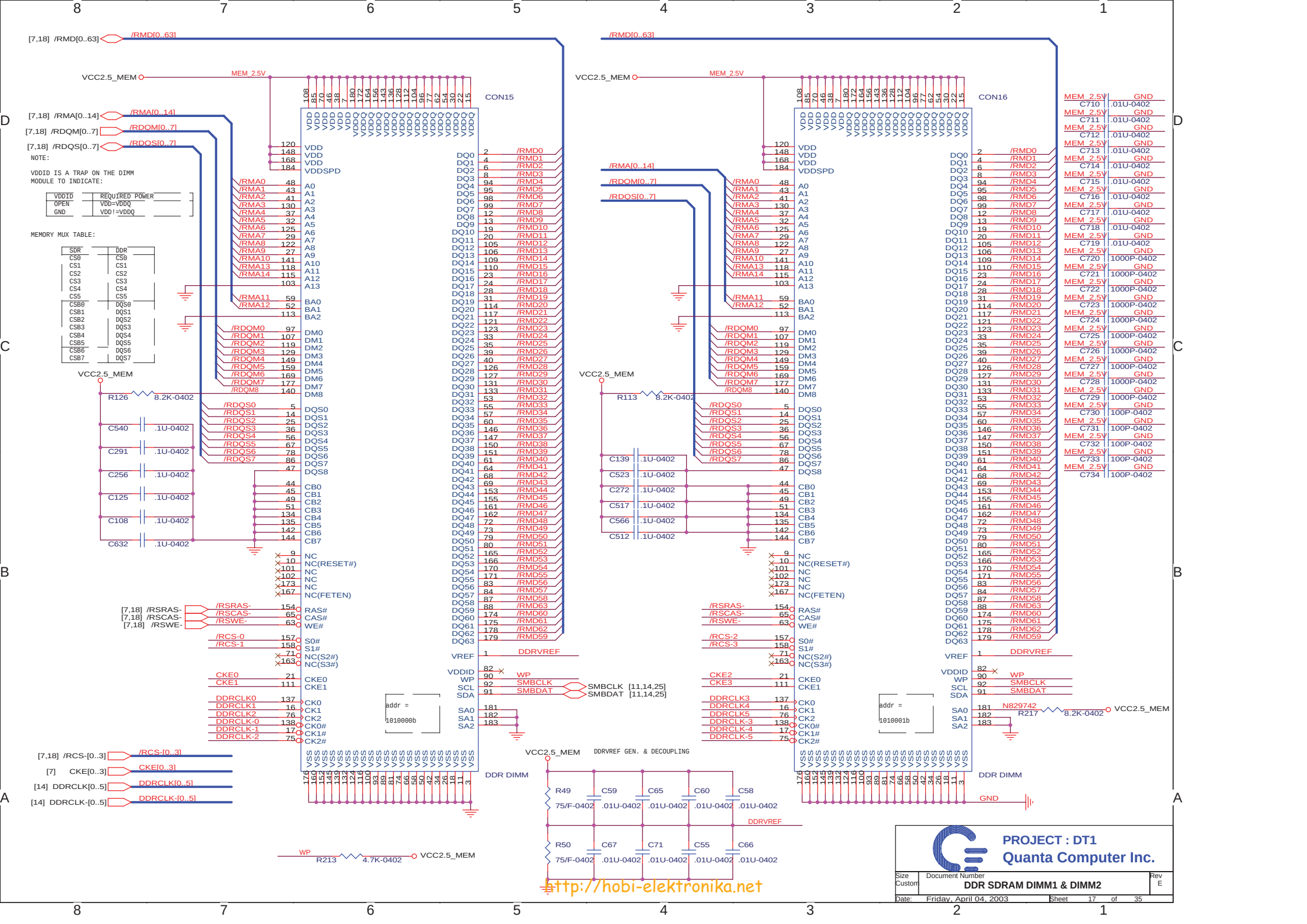


LCD-LID

LID SWITCH SIGNAL

PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	CRT,LCD LID,BLON & FAN CONTROL	E
Date: Friday, April 04, 2003	Sheet 16 of 35	


[7,18] /RMD[0..63]
/RMD[0..63]
VCC2.5_MEM
MEM_2.5V
[7,18] /RMA[0..14]
/RMA[0..14]
[7,18] /RDQM[0..7]
/RDQM[0..7]
[7,18] /RDQS[0..7]
/RDQS[0..7]
NOTE:
VDDID IS A TRAP ON THE DIMM
MODULE TO INDICATE:
VDDID | REQUIRED POWER
OPEN | VDD=VDDQ
GND | VDD!=VDDQ
MEMORY MUX TABLE:
SDR | DDR
CS0 | CS0
CS1 | CS1
CS2 | CS2
CS3 | CS3
CS4 | CS4
CS5 | CS5
CSB0 | DQS0
CSB1 | DQS1
CSB2 | DQS2
CSB3 | DQS3
CSB4 | DQS4
CSB5 | DQS5
CSB6 | DQS6
CSB7 | DQS7
CON15
CON16
VDD
VDDSPD
VDDQ
VSS
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
BA0
BA1
BA2
DM0
DM1
DM2
DM3
DM4
DM5
DM6
DM7
DM8
DQS0
DQS1
DQS2
DQS3
DQS4
DQS5
DQS6
DQS7
DQS8
CB0
CB1
CB2
CB3
CB4
CB5
CB6
CB7
NC
NC(RESET#)
NC(FETEN)
NC(S2#)
NC(S3#)
VREF
VDDID
WP
SCL
SDA
SA0
SA1
SA2
R126 8.2K-0402
R113 8.2K-0402
C540 .1U-0402
C291 .1U-0402
C256 .1U-0402
C125 .1U-0402
C108 .1U-0402
C632 .1U-0402
C139 .1U-0402
C523 .1U-0402
C272 .1U-0402
C517 .1U-0402
C566 .1U-0402
C512 .1U-0402
[7,18] /RSRAS-
[7,18] /RSCAS-
[7,18] /RSWE-
/RSRAS-
/RSCAS-
/RSWE-
RAS#
CAS#
WE#
/RCS-0
/RCS-1
/RCS-2
/RCS-3
S0#
S1#
CKE0
CKE1
CKE2
CKE3
DDRCLK0
DDRCLK1
DDRCLK2
DDRCLK-0
DDRCLK-1
DDRCLK-2
DDRCLK3
DDRCLK4
DDRCLK5
DDRCLK-3
DDRCLK-4
DDRCLK-5
CK0
CK1
CK2
CK0#
CK1#
CK2#
DDRVREF
SMBCLK
SMBDAT
SMBCLK [11,14,25]
SMBDAT [11,14,25]
addr = 1010000b
addr = 1010001b
DDR DIMM
DDRVREF GEN. & DECOUPLING
R49 75/F-0402
R50 75/F-0402
C59 .01U-0402
C65 .01U-0402
C60 .01U-0402
C58 .01U-0402
C67 .01U-0402
C71 .01U-0402
C55 .01U-0402
C66 .01U-0402
WP
R213 4.7K-0402
N829742
R217 8.2K-0402
GND
[7,18] /RCS-[0..3]
[7] CKE[0..3]
[14] DDRCLK[0..5]
[14] DDRCLK-[0..5]
C710 .01U-0402
C711 .01U-0402
C712 .01U-0402
C713 .01U-0402
C714 .01U-0402
C715 .01U-0402
C716 .01U-0402
C717 .01U-0402
C718 .01U-0402
C719 .01U-0402
C720 1000P-0402
C721 1000P-0402
C722 1000P-0402
C723 1000P-0402
C724 1000P-0402
C725 1000P-0402
C726 1000P-0402
C727 1000P-0402
C728 1000P-0402
C729 1000P-0402
C730 100P-0402
C731 100P-0402
C732 100P-0402
C733 100P-0402
C734 100P-0402
http://hobi-elektronika.net
PROJECT : DT1
Quanta Computer Inc.
Size Custom
Document Number
DDR SDRAM DIMM1 & DIMM2
Rev E
Date: Friday, April 04, 2003
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SSTL-2 Termination Resistors

	SDR	Rs	DDR	Rs	Rtt
MD/DQM(/DQS)	LV-CMOS	0/10/-	SSTL-2	10	33
MA/Control	LV-CMOS	10	SSTL-2	0	33
CS	LV-CMOS	0	SSTL-2	0	47
CKE	OD 3.3V		OD 2.5V		

/RMD[0..63] → /RMD[0..63] [7,17]
/RDQM[0..7] → /RDQM[0..7] [7,17]
/RDQS[0..7] → /RDQS[0..7] [7,17]
/RMA[0..14] → /RMA[0..14] [7,17]
/RCS-[0..5] → /RCS-[0..5] [7,17]

01/07 MEMORY TERMINATIO PIN SWAP

DDR_VTT

/RMD0 /RMD4 /RMD5 /RMD1	RN6	/RMD32 /RMD36 /RMD33 /RMD37	RN29
/RDQS0 /RDQM0 /RMD2 /RMD6	RN7	/RDQS4 /RDQM4 /RMD34 /RMD38	RN31
/RMD7 /RMD3 /RMD8 /RMD9	RN9	/RMD39 /RMD35 /RMD44 /RMD40	RN34
/RMD12 /RMD13 /RDQS1 /RDQM1	RN11	/RMD43 /RMD47 /RMD52 /RMD53	RN47
/RMD14 /RMD10 /RMD15 /RMD11	RN14		
/RDQS2 /RDQM2 /RMD18 /RMD22	RN18	/RMD48 /RMD49 /RDQM6 /RDQS6	RN51
/RMD20 /RMD16 /RMD17 /RMD21	RN16	/RMD54 /RMD55 /RMD51 /RMD50	RN55
/RMD19 /RMD23 /RMD24 /RMD28	RN22	/RDQM7 /RDQS7 /RMD62 /RMD59	RN62
/RMD30 /RMD26 /RMD27 /RMD31	RN27	/RMD60 /RMD56 /RMD61 /RMD57	RN58
/RMD25 /RMD29 /RDQS3 /RDQM3	RN24	/RMD58 /RMD63	RN65

DDR_VTT

/RMA0 /RMA1 /RMA2 /RMA3	R122 R108 R105 R90 33-0402	/RDQM5 /RDQS5 /RMD42 /RMD46	RN44
/RMA4 /RMA5 /RMA6 /RMA7	R93 R82 R83 R73 33-0402	/RMD45 /RMD41 /RCS-1 /RCS-0	RN37
/RMA8 /RMA9 /RMA10 /RMA11	R75 R72 R125 R132 33-0402	/RCS-2 /RCS-3 /RCS-4 /RCS-5	RN41
/RMA12 /RMA13 /RMA14	R127 R71 R62 33-0402		
[7,17] /RSRAS-	/RSRAS- R148 33-0402		
[7,17] /RSCAS-	/RSCAS- R160 33-0402		
[7,17] /RSWE-	/RSWE- R157 33-0402		

DECOUPLING CAPACITOR FOR SSTL-2 END TERMIANTION VTT ISLAND
0603 Package placed within 200mils of VTT Termination R-packs

DDR_VTT

C101 .1U-0402	C107 .1U-0402	C152 .1U-0402	C165 .1U-0402
C274 .1U-0402	C295 .1U-0402	C214 .1U-0402	C192 .1U-0402
C201 .1U-0402	C235 .1U-0402	C238 .1U-0402	C257 .1U-0402
C290 .1U-0402	C82 .1U-0402	C90 .1U-0402	C100 .1U-0402

DDR_VTT

C122 .1U-0402	C136 .1U-0402	C159 .1U-0402	C184 .1U-0402
C77 .1U-0402	C294 .1U-0402	C99 .1U-0402	C102 .1U-0402
C162 .1U-0402	C171 .1U-0402	C176 .1U-0402	C199 .1U-0402
C215 .1U-0402	C227 .1U-0402	C244 .1U-0402	C268 .1U-0402

DDR_VTT

C824 .1U-0402	C825 .1U-0402	C826 .1U-0402	C827 .1U-0402
C828 .1U-0402	C829 .1U-0402	C830 .1U-0402	C831 .1U-0402
C832 .1U-0402	C841 .1U-0402	C842 .1U-0402	C843 .1U-0402
C844 .1U-0402	C845 .1U-0402	C846 .1U-0402	C847 .1U-0402

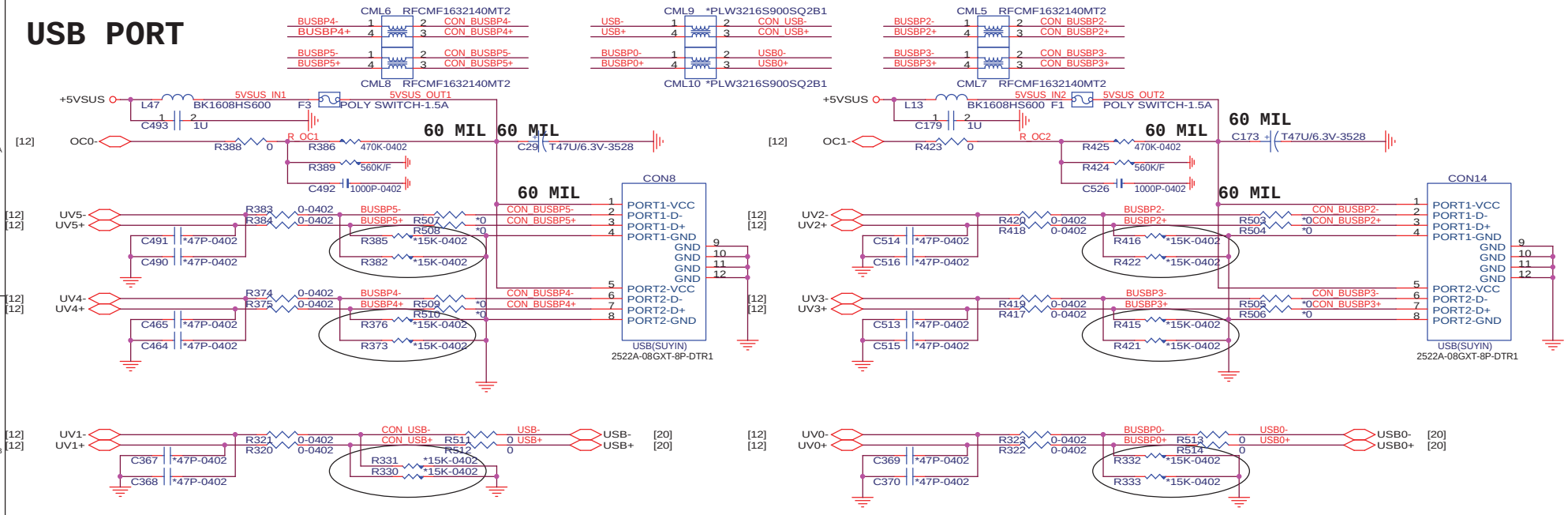
DDR_VTT

	C839 *1000U/6.3V		
C848 .1U-0402	C849 .1U-0402		
C850 .1U-0402	C851 .1U-0402		
C852 .1U-0402	C853 .1U-0402		
C854 .1U-0402	C855 .1U-0402		

PROJECT : DT1
Quanta Computer Inc.

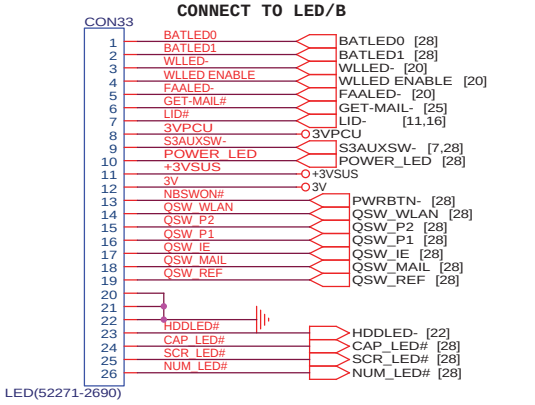
Size	Document Number	Rev
Custom	SSTL-2 TERMINATION RESISTORS	E
Date: Friday, April 04, 2003	Sheet 18 of 35	

USB PORT

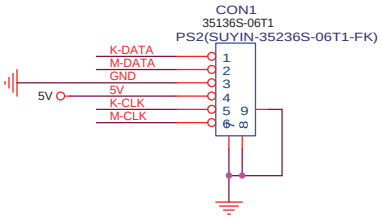


03/07 R330,R331,R332,R333,R373,R376,R382,R385,R416,R422 UNSTAFF

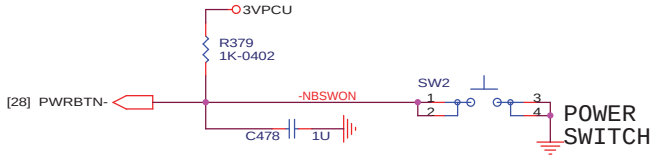
LED/B CONNECTOR



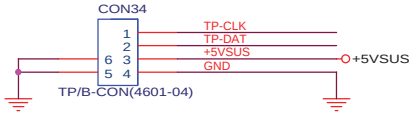
PS/2



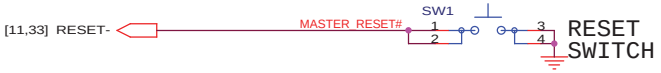
POWER SW

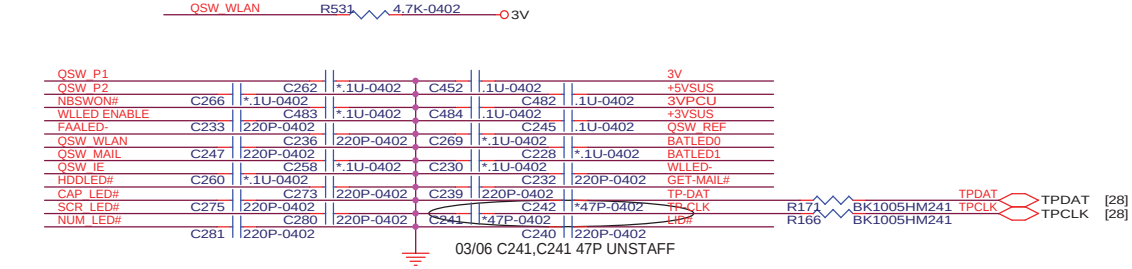


TP/B CONNECTOR



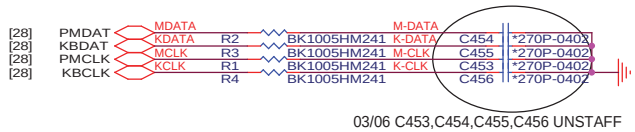
RESET SW





03/06 C241,C241 47P UNSTAFF

02/28 C45,C455,C456,C457 FROM 100P CHANGE TO 270P FOR EMI



03/06 C453,C454,C455,C456 UNSTAFF

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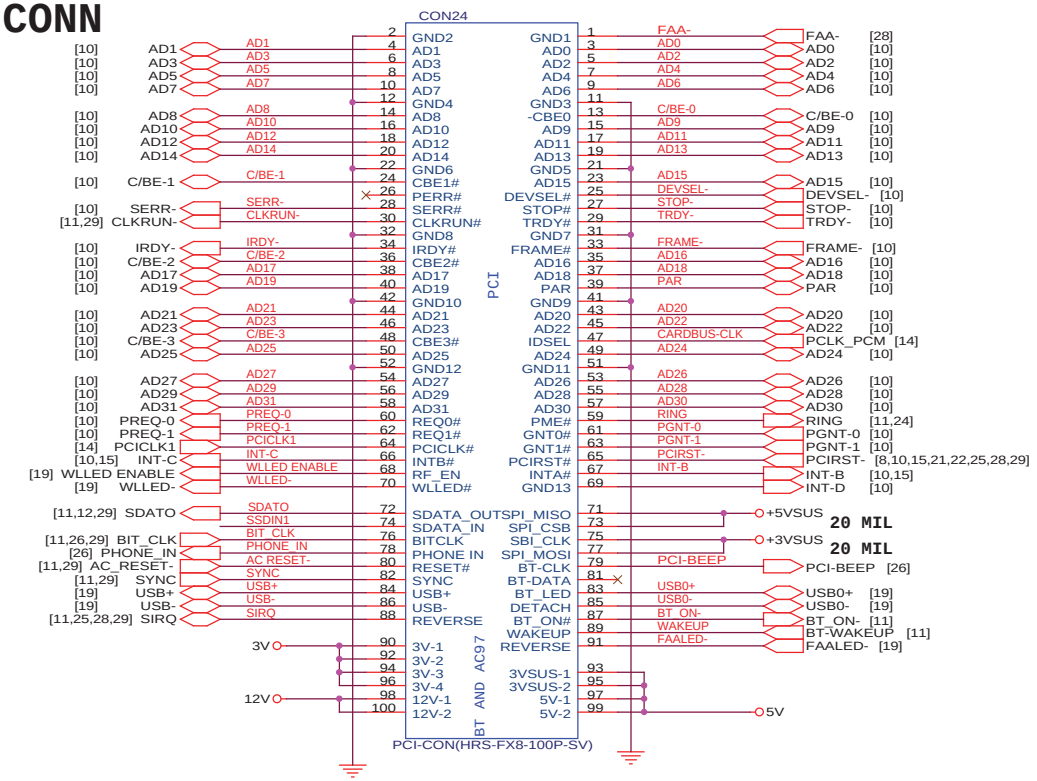
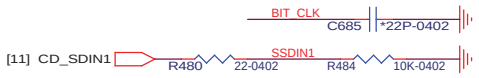
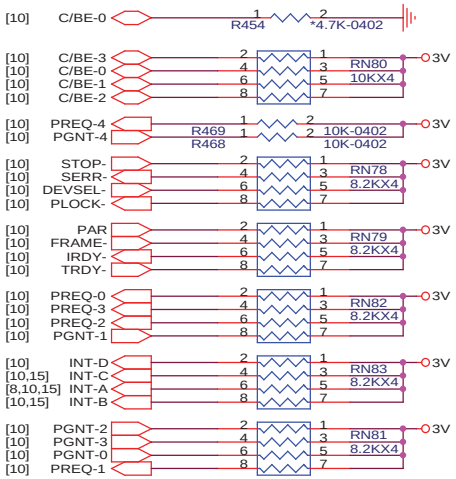
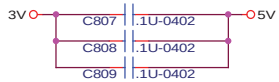
PCI-CONN

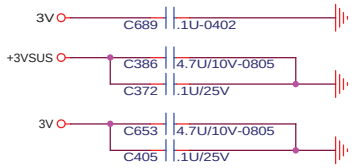




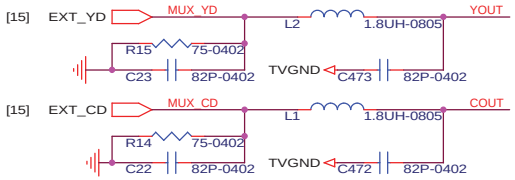
PCI PULL UP

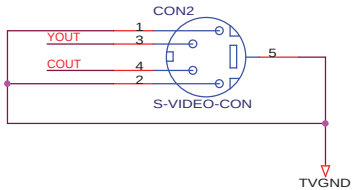


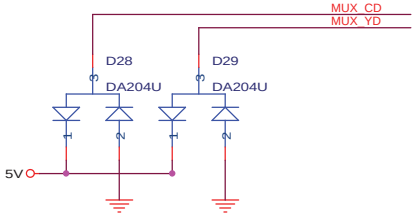




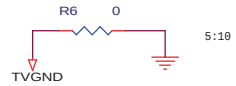
S-VIDEO(TV OUT)







PSOT05LC



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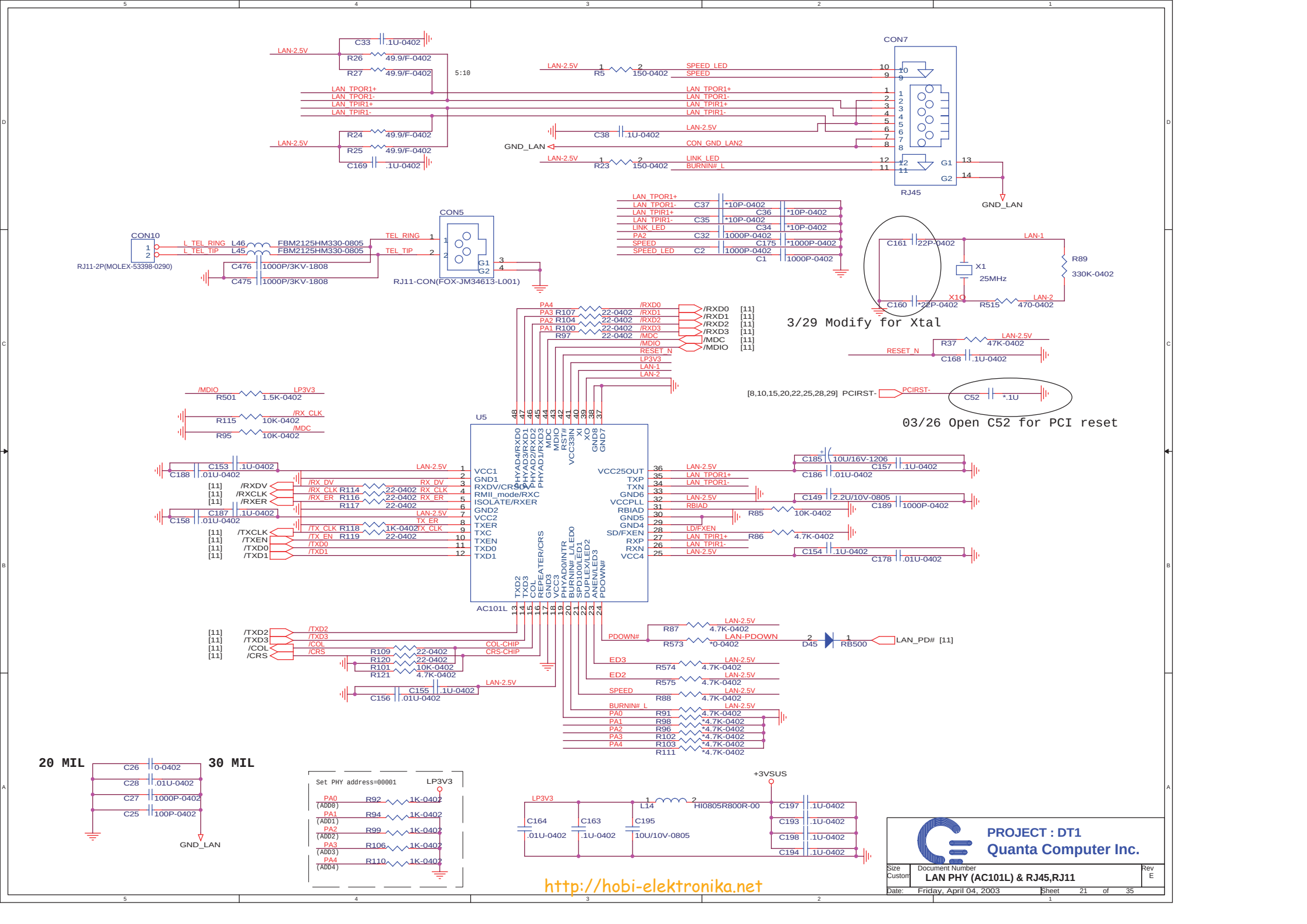
C33 .1U-0402
LAN-2.5V
R26 49.9/F-0402
R27 49.9/F-0402
5:10
LAN_TPOR1+
LAN_TPOR1-
LAN_TPIR1+
LAN_TPIR1-
R24 49.9/F-0402
R25 49.9/F-0402
C169 .1U-0402
CON7
R5 150-0402
SPEED_LED
SPEED
C38 .1U-0402
GND_LAN
CON_GND_LAN2
R23 150-0402
LINK_LED
BURNIN# L
RJ45
G1
G2
CON10
L_TEL_RING L46 FBM2125HM330-0805
L_TEL_TIP L45 FBM2125HM330-0805
RJ11-2P(MOLEX-53398-0290)
C476 1000P/3KV-1808
C475 1000P/3KV-1808
TEL_RING
TEL_TIP
CON5
RJ11-CON(FOX-JM34613-L001)
C37 *10P-0402
C36 *10P-0402
C35 *10P-0402
C34 *10P-0402
PA2
C32 1000P-0402
C175 *1000P-0402
SPEED_LED
C2 1000P-0402
C1 1000P-0402
C161 22P-0402
X1
25MHz
X1O
C160 *22P-0402
R515 470-0402
LAN-1
LAN-2
R89 330K-0402
3/29 Modify for Xtal
PA4
PA3 R107 22-0402
PA2 R104 22-0402
PA1 R100 22-0402
R97 22-0402
/RXD0
/RXD1
/RXD2
/RXD3
/MDC
/MDIO
RESET_N
LP3V3
LAN-1
LAN-2
/MDIO R501 1.5K-0402 LP3V3
/RX_CLK R115 10K-0402
/MDC R95 10K-0402
R37 47K-0402
C168 .1U-0402
[8,10,15,20,22,25,28,29] PCIRST-
C52 *.1U
03/26 Open C52 for PCI reset
U5
AC101L
VCC1
GND1
RXDV/CRSDV
RMII_mode/RXC
ISOLATE/RXER
GND2
VCC2
TXER
TXC
TXEN
TXD0
TXD1
VCC25OUT
TXP
TXN
GND6
VCCPLL
RBIAD
GND5
GND4
SD/FXEN
RXP
RXN
VCC4
C153 .1U-0402
C188 .01U-0402
C187 .1U-0402
C158 .01U-0402
[11] /RXDV
[11] /RXCLK
[11] /RXER
[11] /TXCLK
[11] /TXEN
[11] /TXD0
[11] /TXD1
/RX_DV
/RX_CLK R114 22-0402
/RX_ER R116 22-0402
R117 22-0402
/TX_CLK R118 1K-0402
/TX_EN R119 22-0402
C185 10U/16V-1206
C157 .1U-0402
C186 .01U-0402
C149 2.2U/10V-0805
C189 1000P-0402
R85 10K-0402
R86 4.7K-0402
C154 .1U-0402
C178 .01U-0402
[11] /TXD2
[11] /TXD3
[11] /COL
[11] /CRS
R109 22-0402
R120 22-0402
R101 10K-0402
R121 4.7K-0402
C155 .1U-0402
C156 .01U-0402
COL-CHIP
CRS-CHIP
R87 4.7K-0402
R573 *0-0402
D45
RB500
LAN_PD# [11]
ED3
R574 4.7K-0402
ED2
R575 4.7K-0402
SPEED
R88 4.7K-0402
BURNIN# L
PA0 R91 4.7K-0402
PA1 R98 *4.7K-0402
PA2 R96 *4.7K-0402
PA3 R102 *4.7K-0402
PA4 R103 *4.7K-0402
R111 *4.7K-0402
20 MIL
30 MIL
C26 0-0402
C28 .01U-0402
C27 1000P-0402
C25 100P-0402
GND_LAN
Set PHY address=00001
LP3V3
PA0 (ADD0) R92 1K-0402
PA1 (ADD1) R94 1K-0402
PA2 (ADD2) R99 1K-0402
PA3 (ADD3) R106 1K-0402
PA4 (ADD4) R110 1K-0402
+3VSUS
L14 HI0805R800R-00
C164 .01U-0402
C163 .1U-0402
C195 10U/10V-0805
C197 .1U-0402
C193 .1U-0402
C198 .1U-0402
C194 .1U-0402
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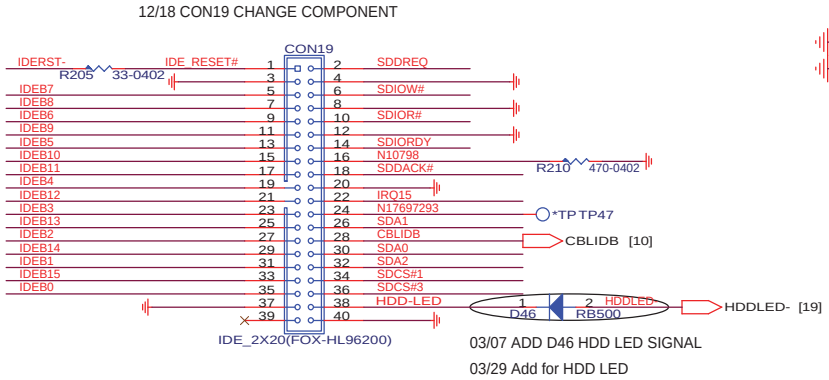
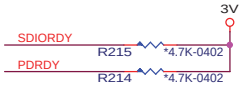
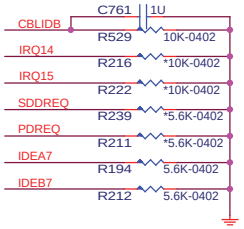
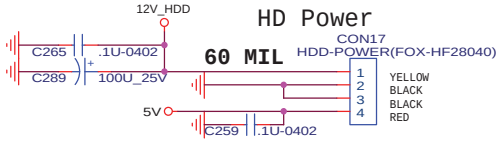
HDD,CD-ROM CONNECTOR

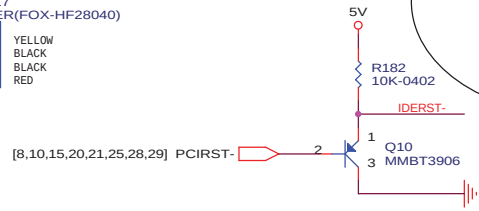


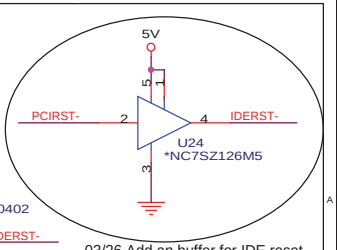




HDD POWER CONNECTOR





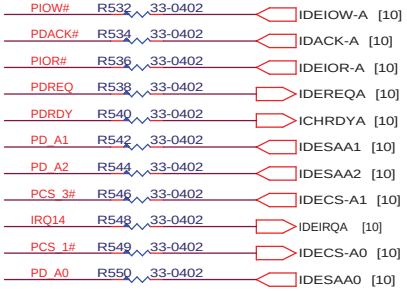


[10] IDEA[0..15] IDEA[0..15]

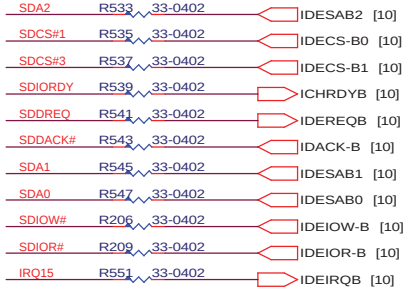
IDEB[0..15] IDEB[0..15] [10]

PLACEMENT ON BOT SIDE

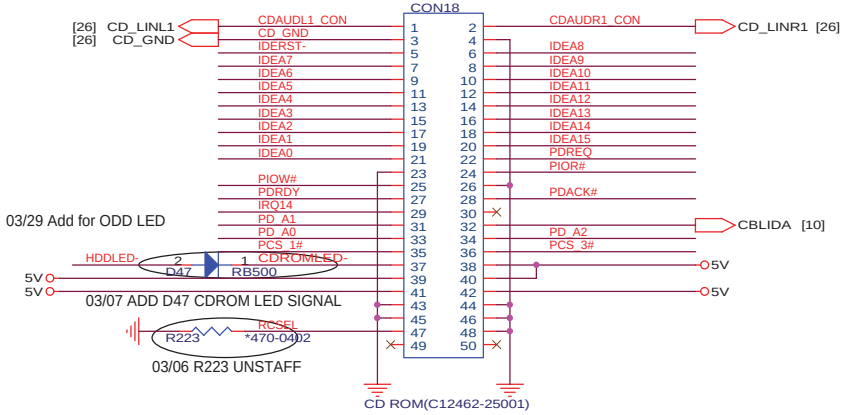
CLOSE TO CHIPSET SIDE



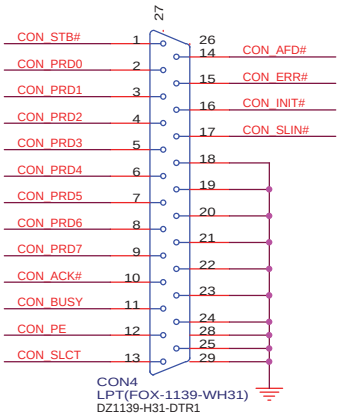
CLOSE TO CHIPSET SIDE

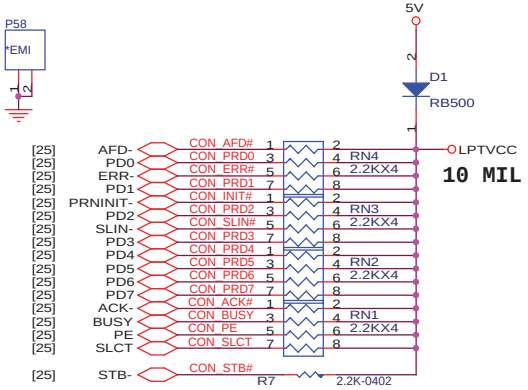


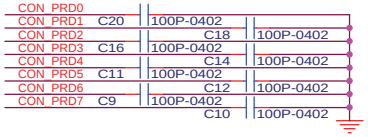
CD-ROM connector



LPT CONN.







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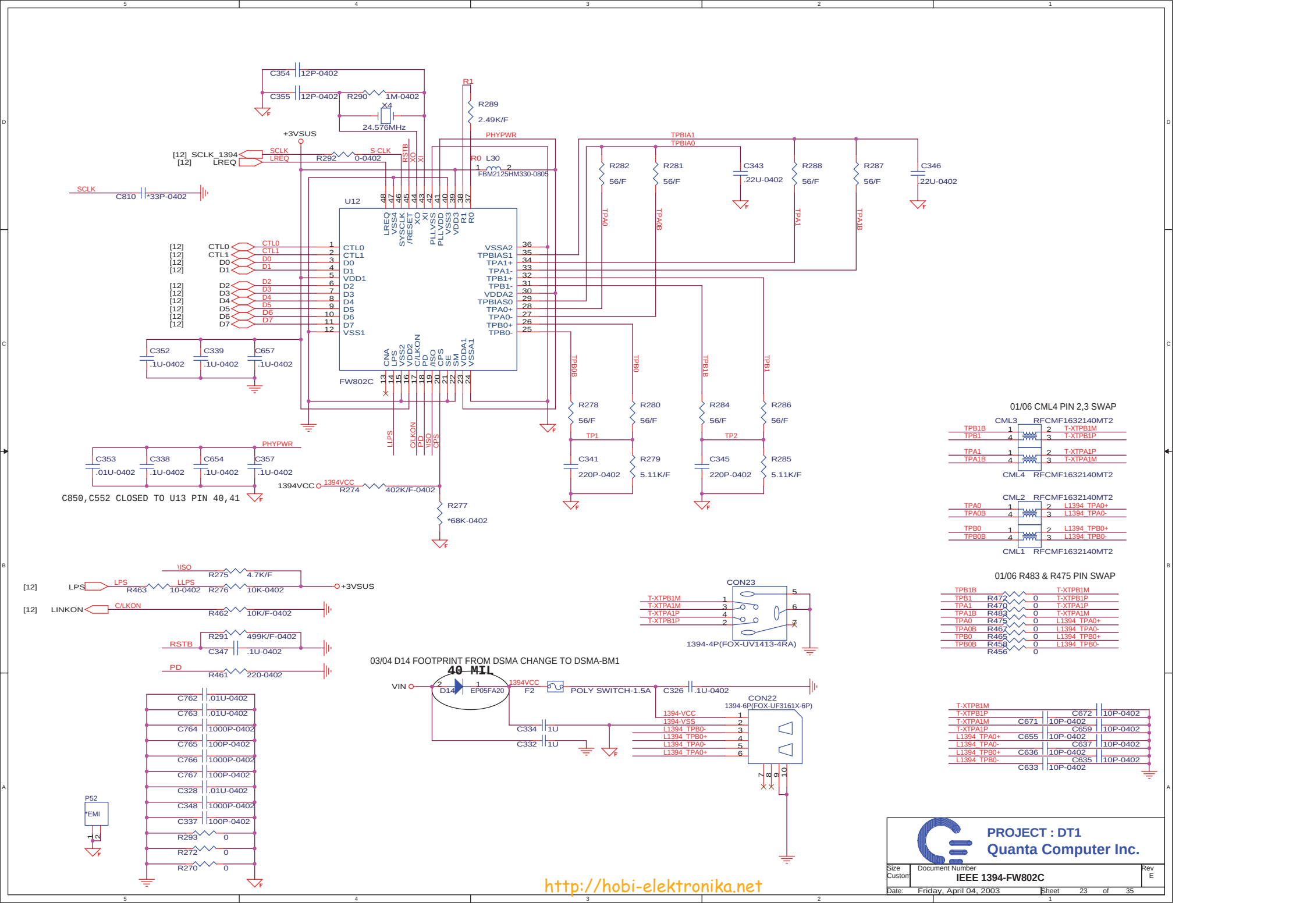
C354 12P-0402
C355 12P-0402
R290 1M-0402
X4
24.576MHz
R1
R289
2.49K/F
PHYPWR
+3VSUS
[12] SCLK_1394
[12] LREQ
SCLK
LREQ
R292 0-0402
S-CLK
RSTB
XO
XI
R0 L30
FBM2125HM330-0805
SCLK
C810 *33P-0402
U12
LREQ
VSS4
SYSCLK
/RESET
XO
XI
PLLVSS
PLLVDD
VSS3
VDD3
R1
R0
CTL0
CTL1
D0
D1
VDD1
D2
D3
D4
D5
D6
D7
VSS1
VSSA2
TPBIAS1
TPA1+
TPA1-
TPB1+
TPB1-
VDDA2
TPBIAS0
TPA0+
TPA0-
TPB0+
TPB0-
CNA
LPS
VSS2
VDD2
C/LKON
PD
/ISO
CPS
SE
VDDA1
VSSA1
FW802C
TPBIA1
TPBIA0
R282 56/F
R281 56/F
C343 .22U-0402
R288 56/F
R287 56/F
C346 .22U-0402
TPA0
TPA0B
TPA1
TPA1B
C352 .1U-0402
C339 .1U-0402
C657 .1U-0402
C353 .01U-0402
C338 .1U-0402
C654 .1U-0402
C357 .1U-0402
C850,C552 CLOSED TO U13 PIN 40,41
1394VCC
R274 402K/F-0402
R277 *68K-0402
TPB0B
TPB0
TPB1B
TPB1
R278 56/F
R280 56/F
R284 56/F
R286 56/F
TP1
TP2
C341 220P-0402
R279 5.11K/F
C345 220P-0402
R285 5.11K/F
LLPS
C/LKON
PD
/ISO
CPS
01/06 CML4 PIN 2,3 SWAP
CML3 RFCMF1632140MT2
TPB1B
TPB1
T-XTPB1M
T-XTPB1P
TPA1
TPA1B
T-XTPA1P
T-XTPA1M
CML4 RFCMF1632140MT2
CML2 RFCMF1632140MT2
TPA0
TPA0B
L1394 TPA0+
L1394 TPA0-
TPB0
TPB0B
L1394 TPB0+
L1394 TPB0-
CML1 RFCMF1632140MT2
\ISO
R275 4.7K/F
[12] LPS
LPS
R463 10-0402
LLPS
R276 10K-0402
+3VSUS
[12] LINKON
C/LKON
R462 10K/F-0402
RSTB
R291 499K/F-0402
C347 .1U-0402
PD
R461 220-0402
CON23
T-XTPB1M
T-XTPA1M
T-XTPA1P
T-XTPB1P
1394-4P(FOX-UV1413-4RA)
01/06 R483 & R475 PIN SWAP
TPB1B
TPB1 R472 0 T-XTPB1M
TPA1 R470 0 T-XTPB1P
TPA1B R483 0 T-XTPA1P
TPA0 R475 0 T-XTPA1M
TPA0B R467 0 L1394 TPA0+
TPB0 R465 0 L1394 TPA0-
TPB0B R458 0 L1394 TPB0+
R456 0 L1394 TPB0-
03/04 D14 FOOTPRINT FROM DSMA CHANGE TO DSMA-BM1
40 MIL
VIN
D14 EP05FA20
1394VCC
F2 POLY SWITCH-1.5A
C326 .1U-0402
C334 1U
C332 1U
CON22
1394-6P(FOX-UF3161X-6P)
1394-VCC
1394-VSS
L1394 TPB0-
L1394 TPB0+
L1394 TPA0-
L1394 TPA0+
T-XTPB1M
T-XTPB1P
T-XTPA1M
T-XTPA1P
L1394 TPA0+
L1394 TPA0-
L1394 TPB0+
L1394 TPB0-
C672 10P-0402
C671 10P-0402
C659 10P-0402
C655 10P-0402
C637 10P-0402
C636 10P-0402
C635 10P-0402
C633 10P-0402
C762 .01U-0402
C763 .01U-0402
C764 1000P-0402
C765 100P-0402
C766 1000P-0402
C767 100P-0402
C328 .01U-0402
C348 1000P-0402
C337 100P-0402
R293 0
R272 0
R270 0
P52
*EMI
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Rev E
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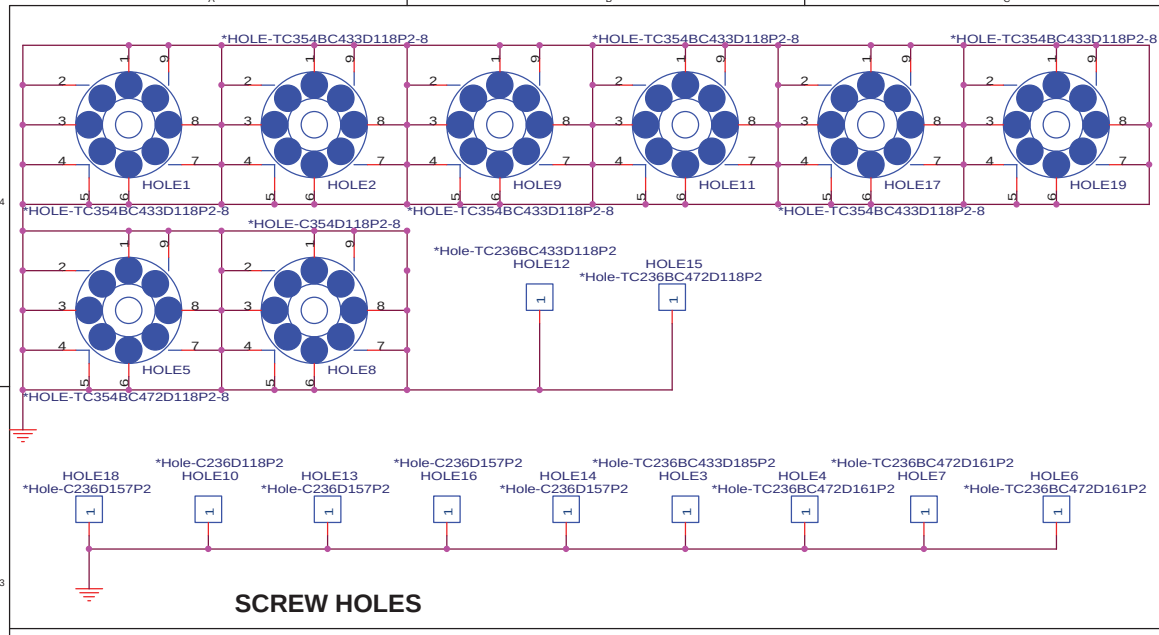
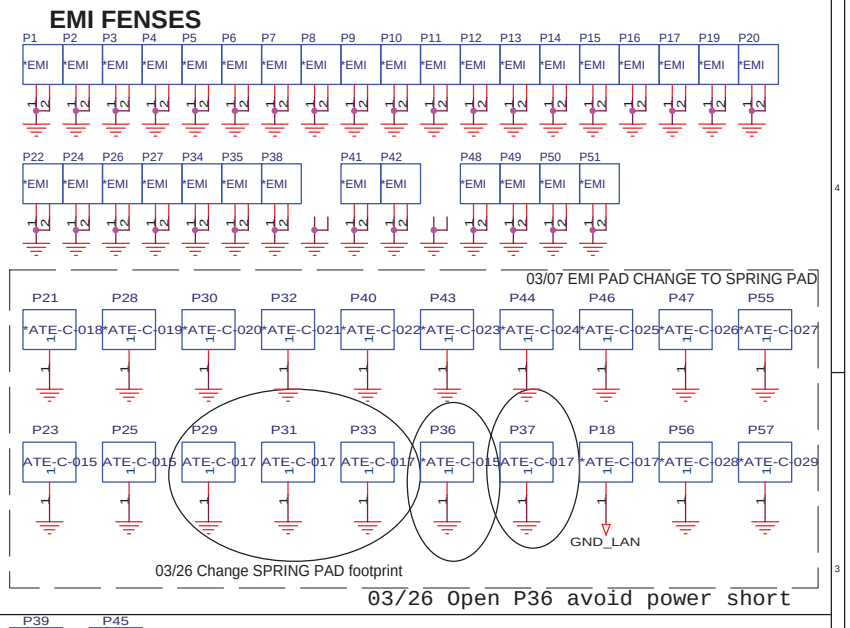
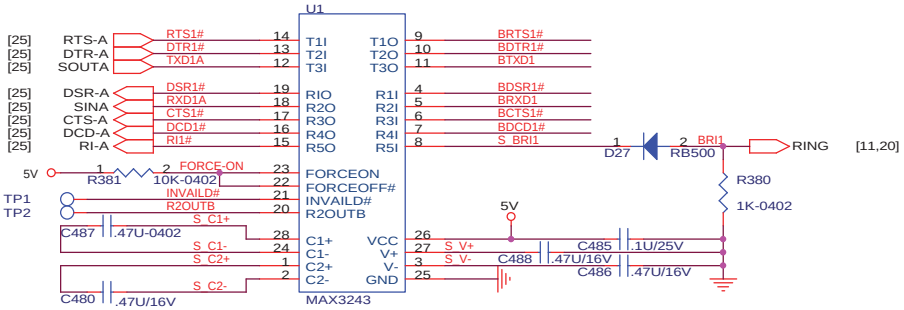
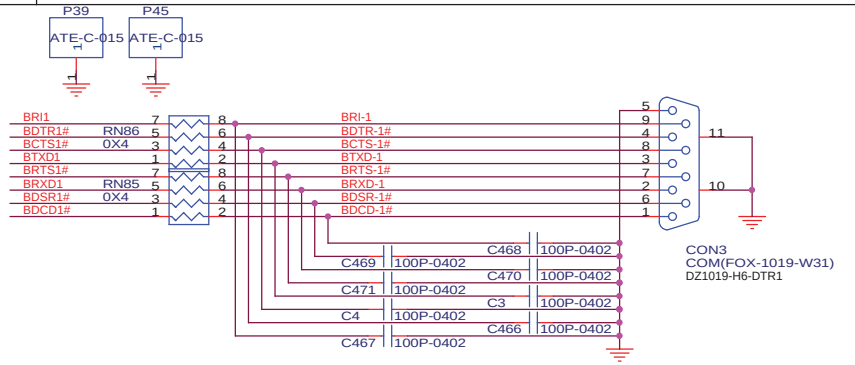




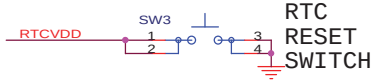
Serial Port

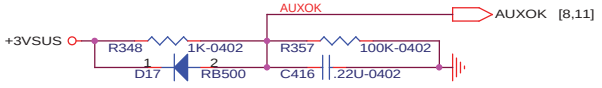


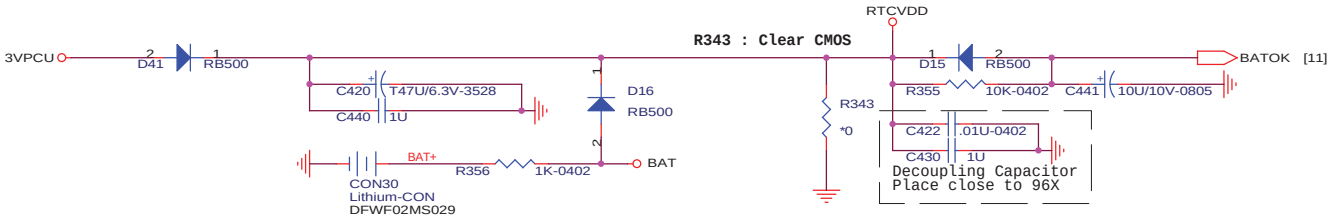


RTC

NOTE!
1.The RTCVDD is 3V
2.Decoupling capacitor must be close to 650 RTCVDD pin.
3.RTC circuit must strictly follow SiS's recommended design
SiS is not responsible for RTC problems from foreign designs.







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Custom	EMI PAD & COM1	E
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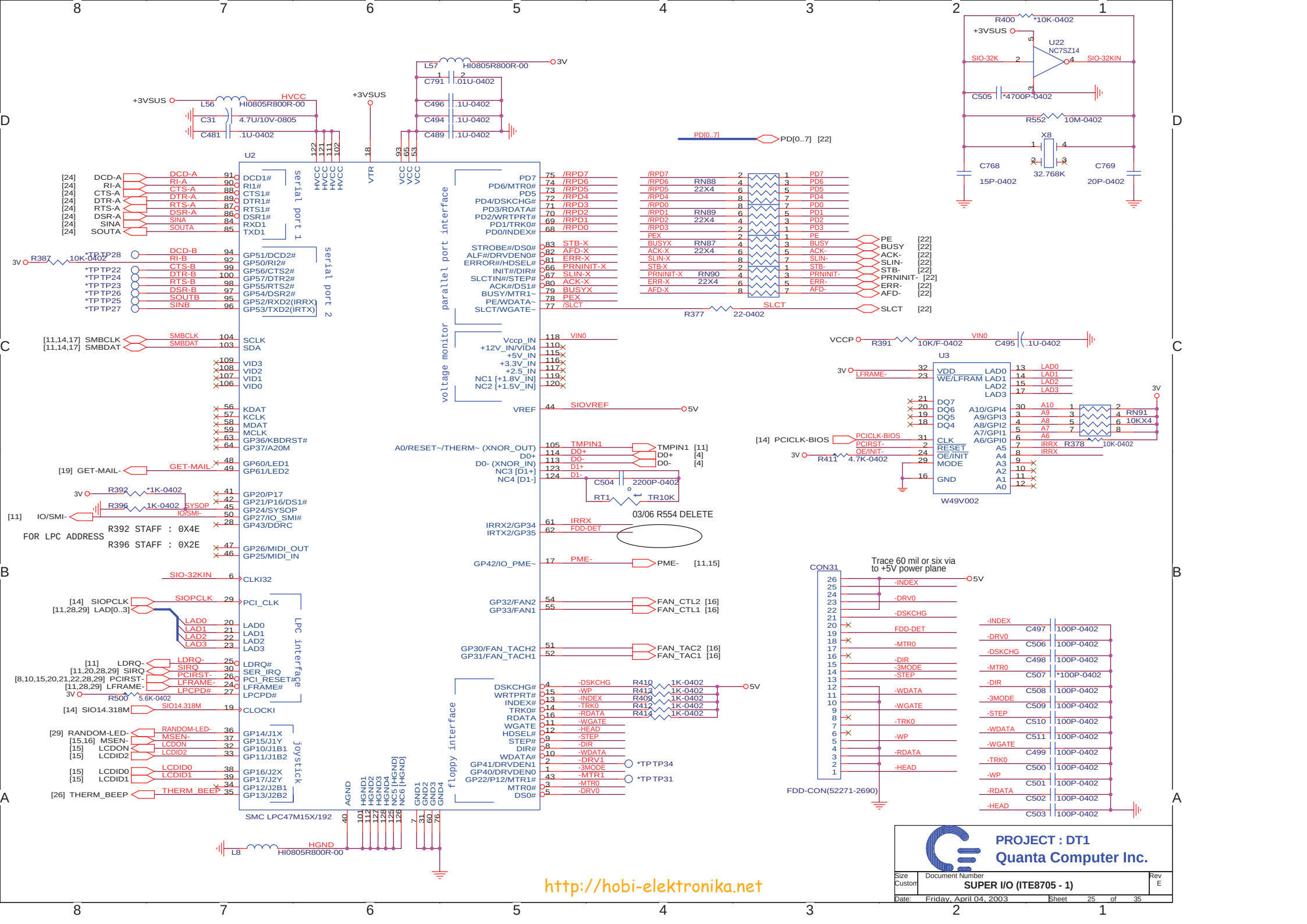
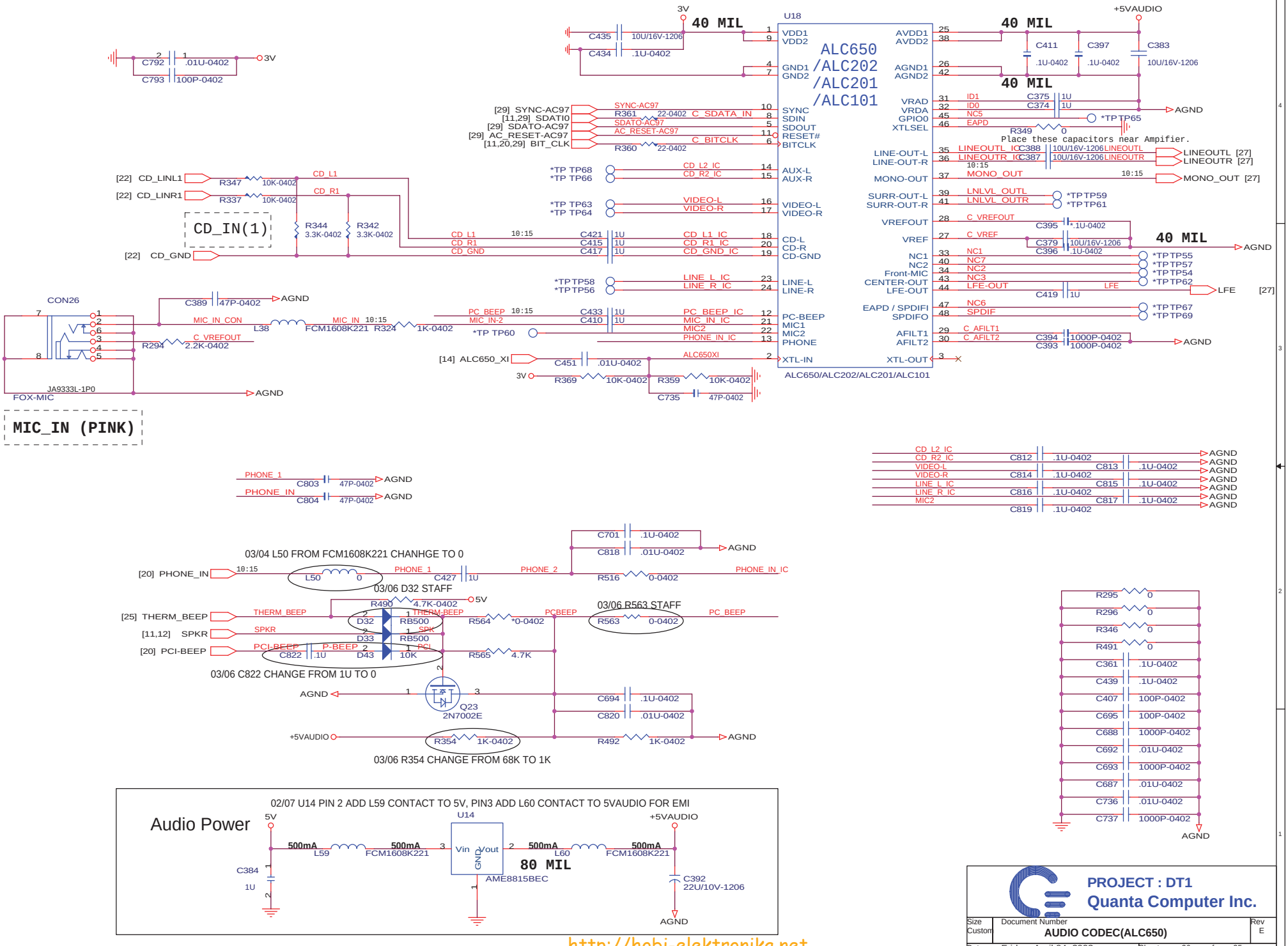

U2
SMC LPC47M15X/192
serial port 1
serial port 2
parallel port interface
voltage monitor
LPC interface
joystick
floppy interface
W49V002
U3
CON31
FDD-CON(52271-2690)
Trace 60 mil or six via to +5V power plane
03/06 R554 DELETE
R392 STAFF : 0X4E
R396 STAFF : 0X2E
FOR LPC ADDRESS
PROJECT : DT1
Quanta Computer Inc.
SUPER I/O (ITE8705 - 1)
Friday, April 04, 2003
http://hobi-elektronika.net


U18
ALC650
/ALC202
/ALC201
/ALC101
ALC650/ALC202/ALC201/ALC101
40 MIL
CD_IN(1)
MIC_IN (PINK)
CON26
FOX-MIC
JA9333L-1P0
03/04 L50 FROM FCM1608K221 CHANHGE TO 0
03/06 D32 STAFF
03/06 R563 STAFF
03/06 C822 CHANGE FROM 1U TO 0
03/06 R354 CHANGE FROM 68K TO 1K
Audio Power
02/07 U14 PIN 2 ADD L59 CONTACT TO 5V, PIN3 ADD L60 CONTACT TO 5VAUDIO FOR EMI
AME8815BEC
80 MIL
Place these capacitors near Ampifier.
PROJECT : DT1
Quanta Computer Inc.
AUDIO CODEC(ALC650)
Friday, April 04, 2003
Sheet 26 of 35
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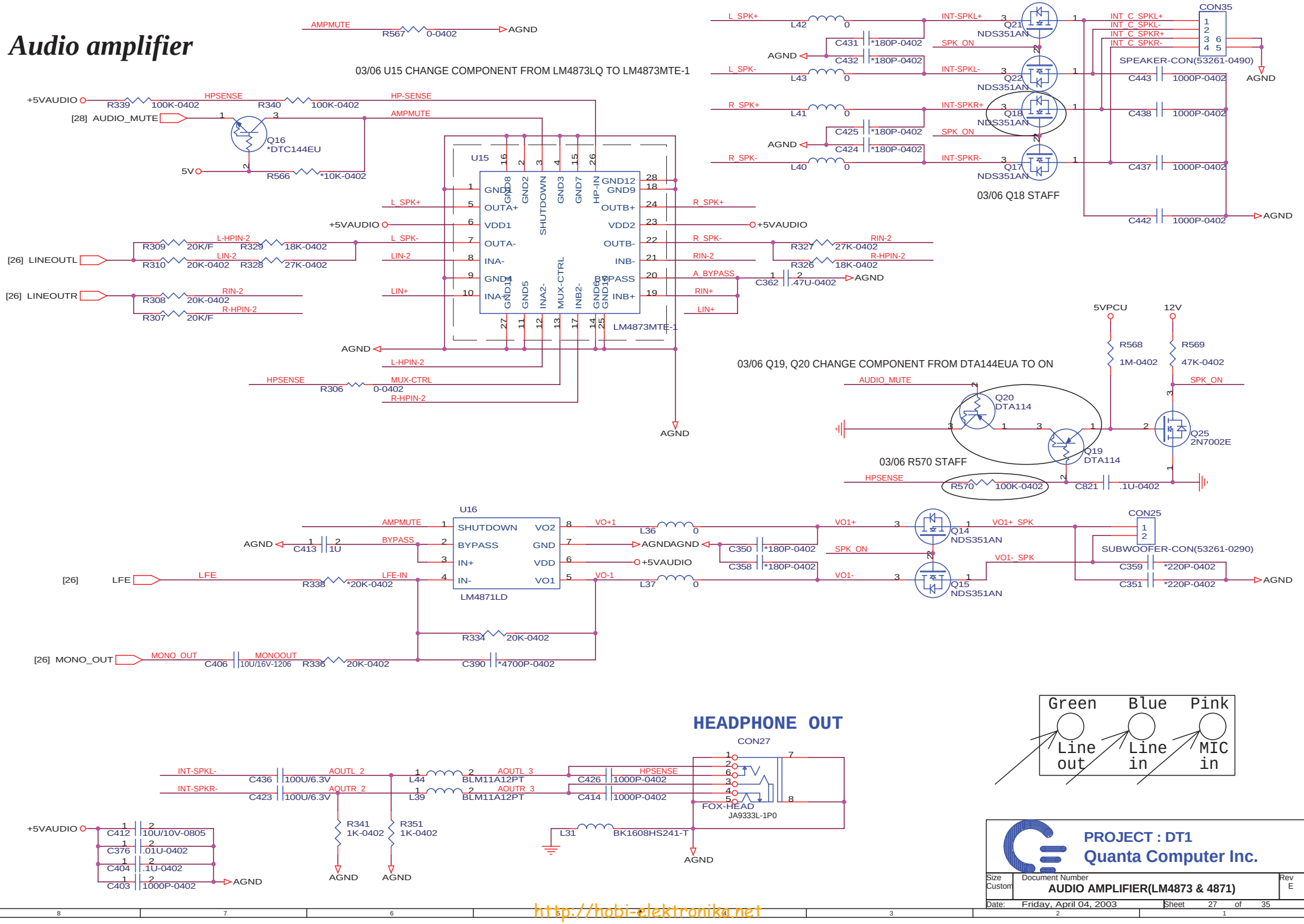
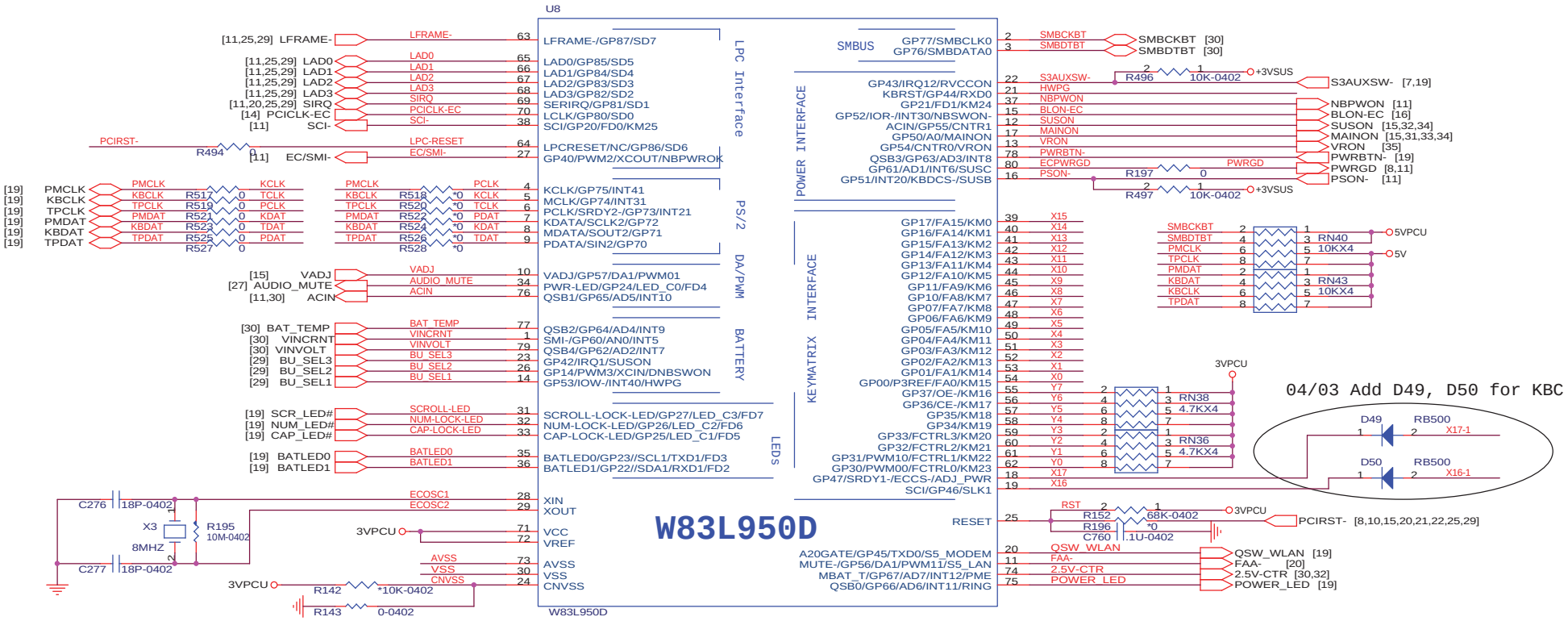
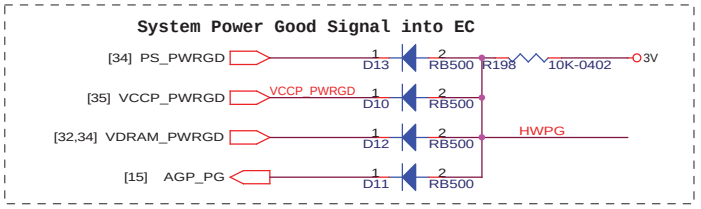
Audio amplifier

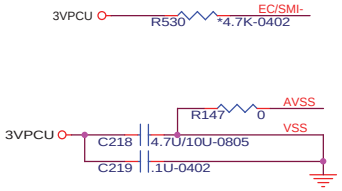


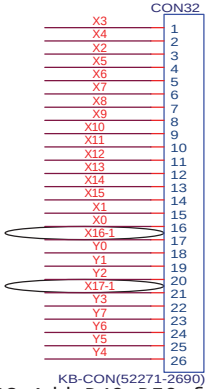
PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	AUDIO AMPLIFIER(LM4873 & 4871)	E
Date: Friday, April 04, 2003	Sheet 27 of 35	

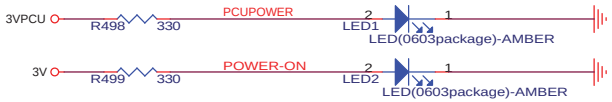








X2 & Y3: E-MAIL
X2 & Y2: EXPLORER
X2 & Y1: P1
X2 & Y0: P2



Y3 QSW_MAIL [19]
Y2 QSW_IE [19]
Y1 QSW_P1 [19]
Y0 QSW_P2 [19]
X2 QSW_REF [19]

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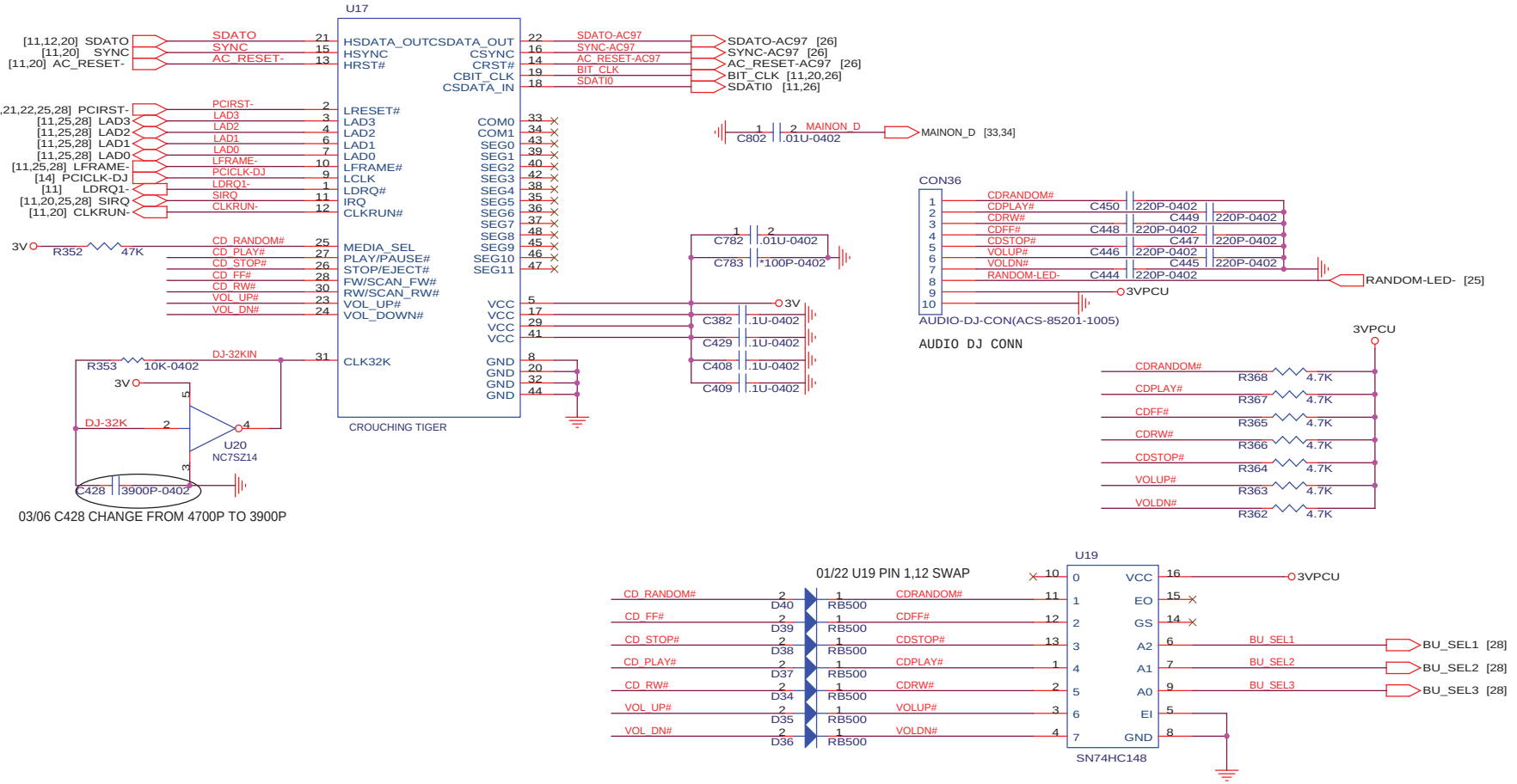
PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	EC W83L950D	E
Date: Friday, April 04, 2003	Sheet 28 of 35	

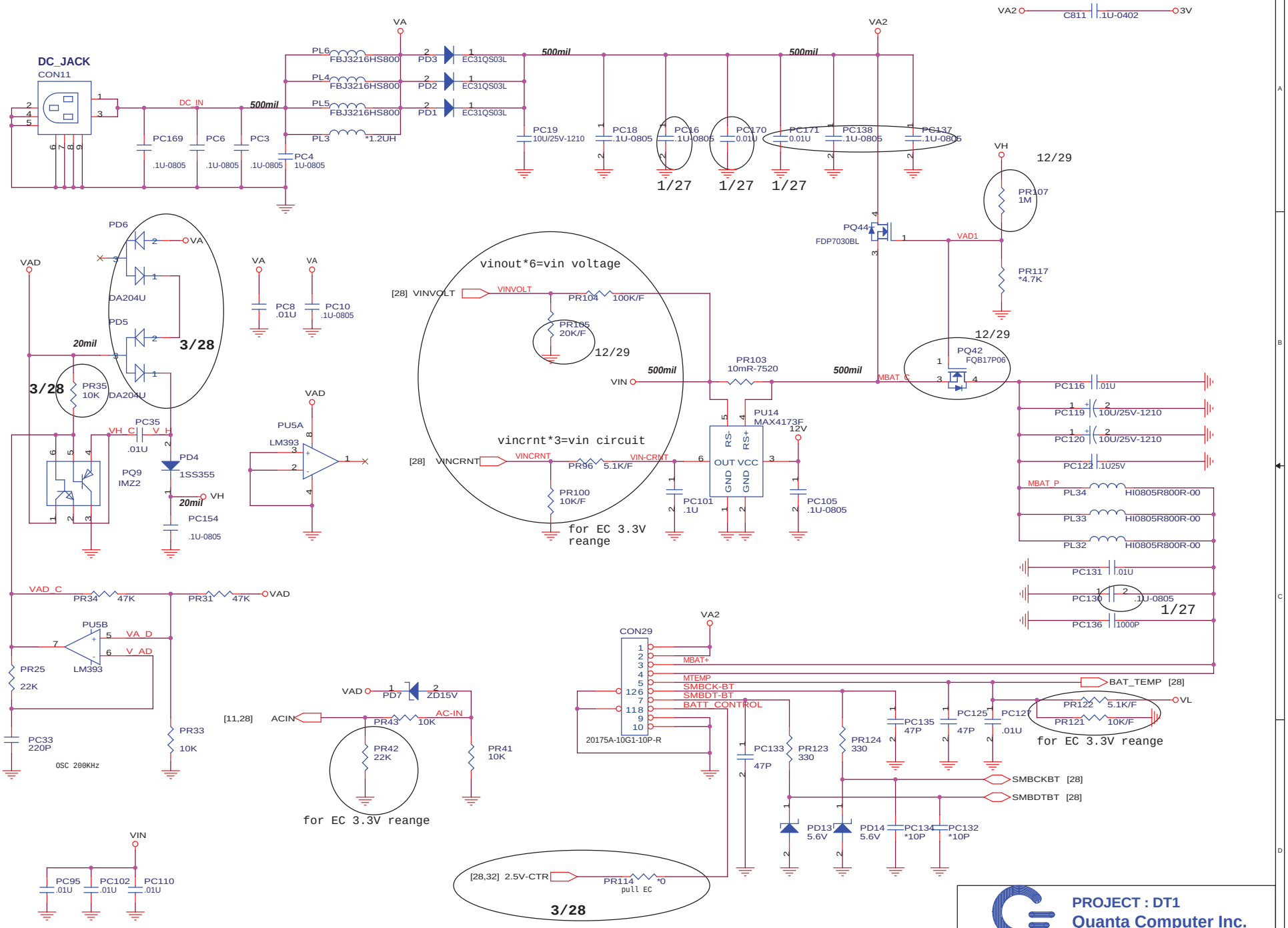


SN74HC148 TABLE

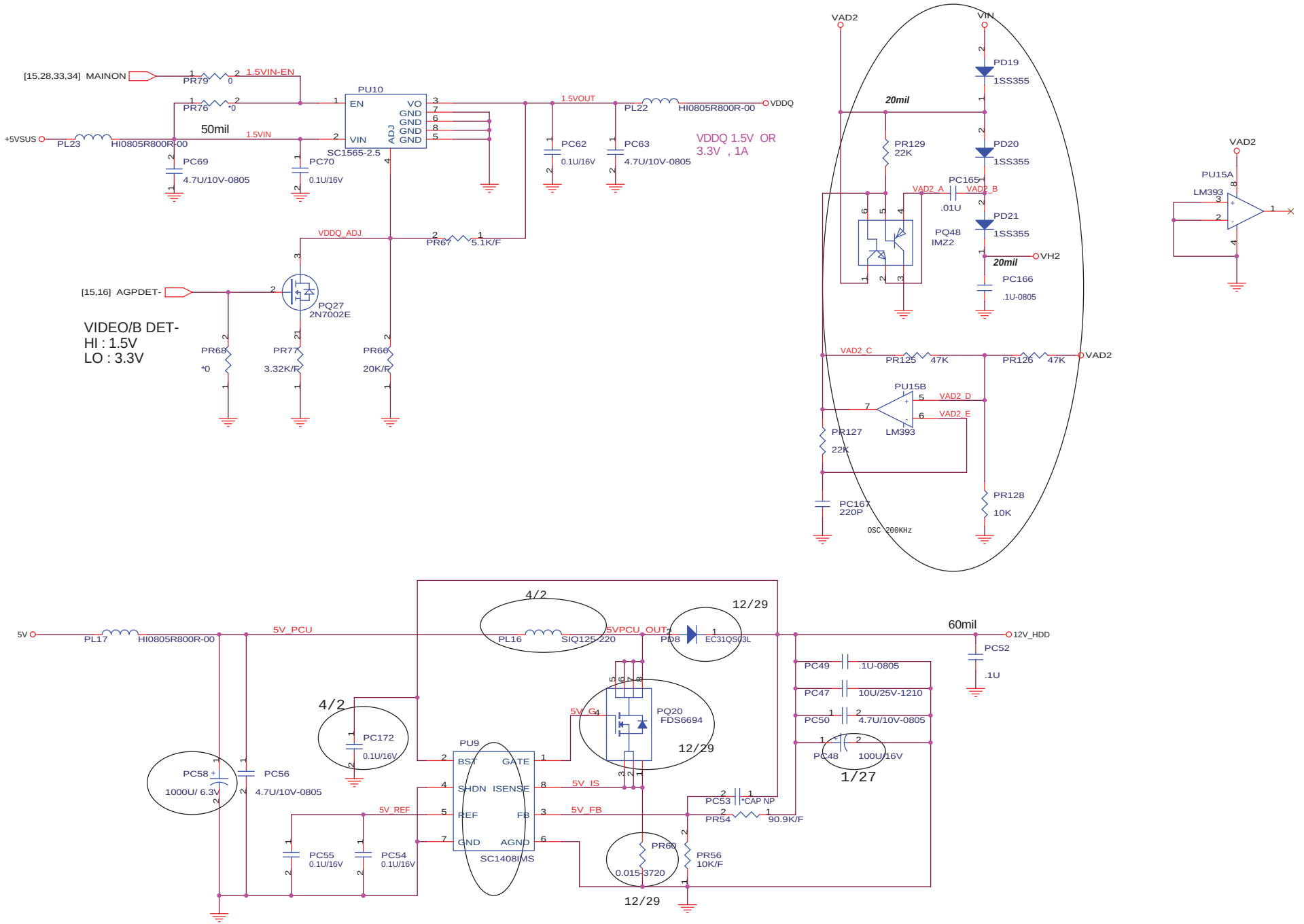
INPUTS									OUTPUTS				
EI	0	1	2	3	4	5	6	7	A2	A1	A0	GS	EO
H	X	X	X	X	X	X	X	X	H	H	H	H	H
L	H	H	H	H	H	H	H	H	H	H	H	H	L
L	X	X	X	X	X	X	X	L	L	L	L	L	H
L	X	X	X	X	X	X	L	H	L	L	H	L	H
L	X	X	X	X	X	L	H	H	L	H	L	L	H
L	X	X	X	X	L	H	H	H	L	H	H	L	H
L	X	X	X	L	H	H	H	H	H	L	L	L	H
L	X	X	L	H	H	H	H	H	H	L	H	L	H
L	X	L	H	H	H	H	H	H	H	H	L	L	H
L	L	H	H	H	H	H	H	H	H	H	H	L	H

PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	OZ263 AUDIO-DJ	E
Date: Friday, April 04, 2003	Sheet 29 of 35	



PROJECT : DT1		
Quanta Computer Inc.		
Size: Custom	Document Number: BATTERY CONN & POWER JACK	Rev: E
Date: Friday, April 04, 2003	Sheet 30 of 35	

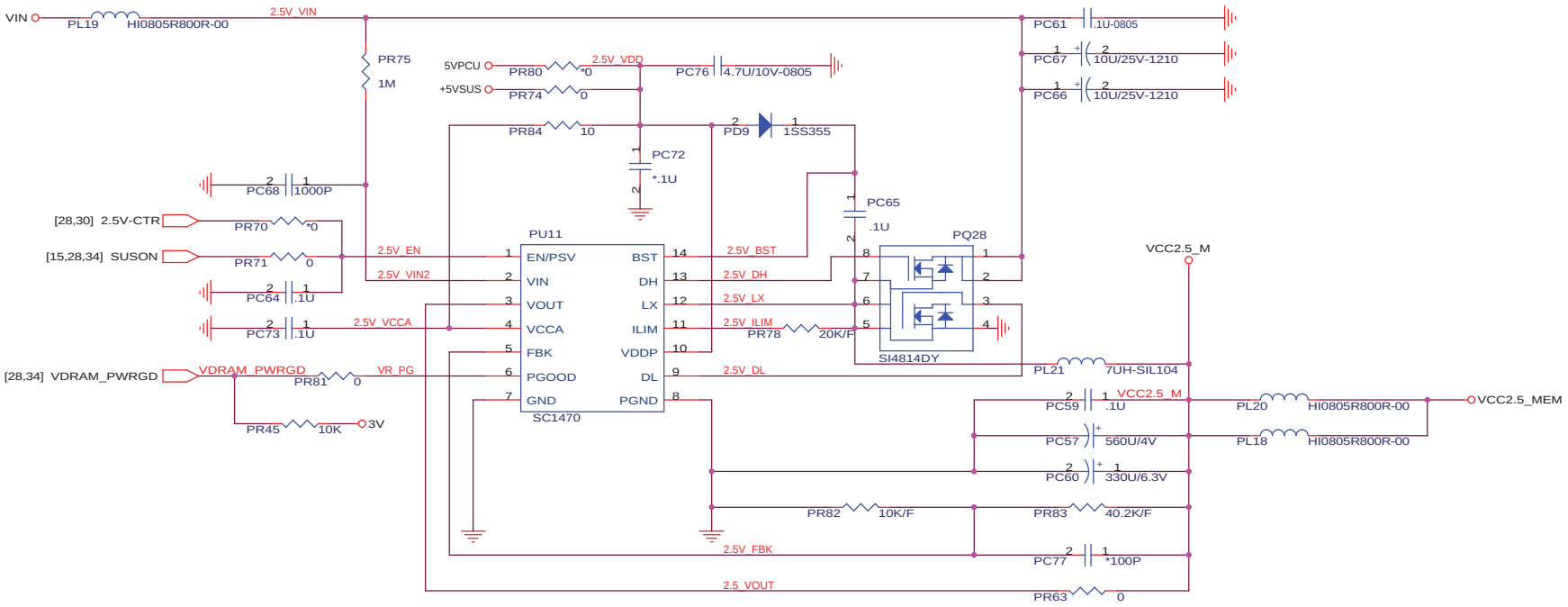


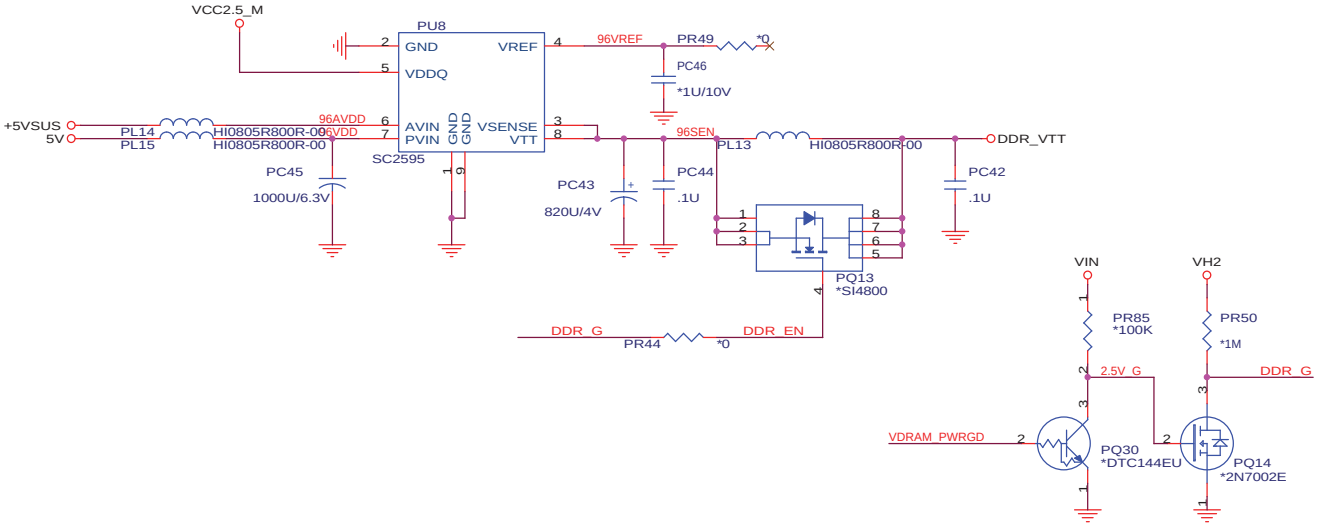
03/06 PC58 CHANGE COMPONENT TO 100U/16V

03/06 PR60 CHANGE FROM 10mohm TO 15mohm

PROJECT : DT1
Quanta Computer Inc.

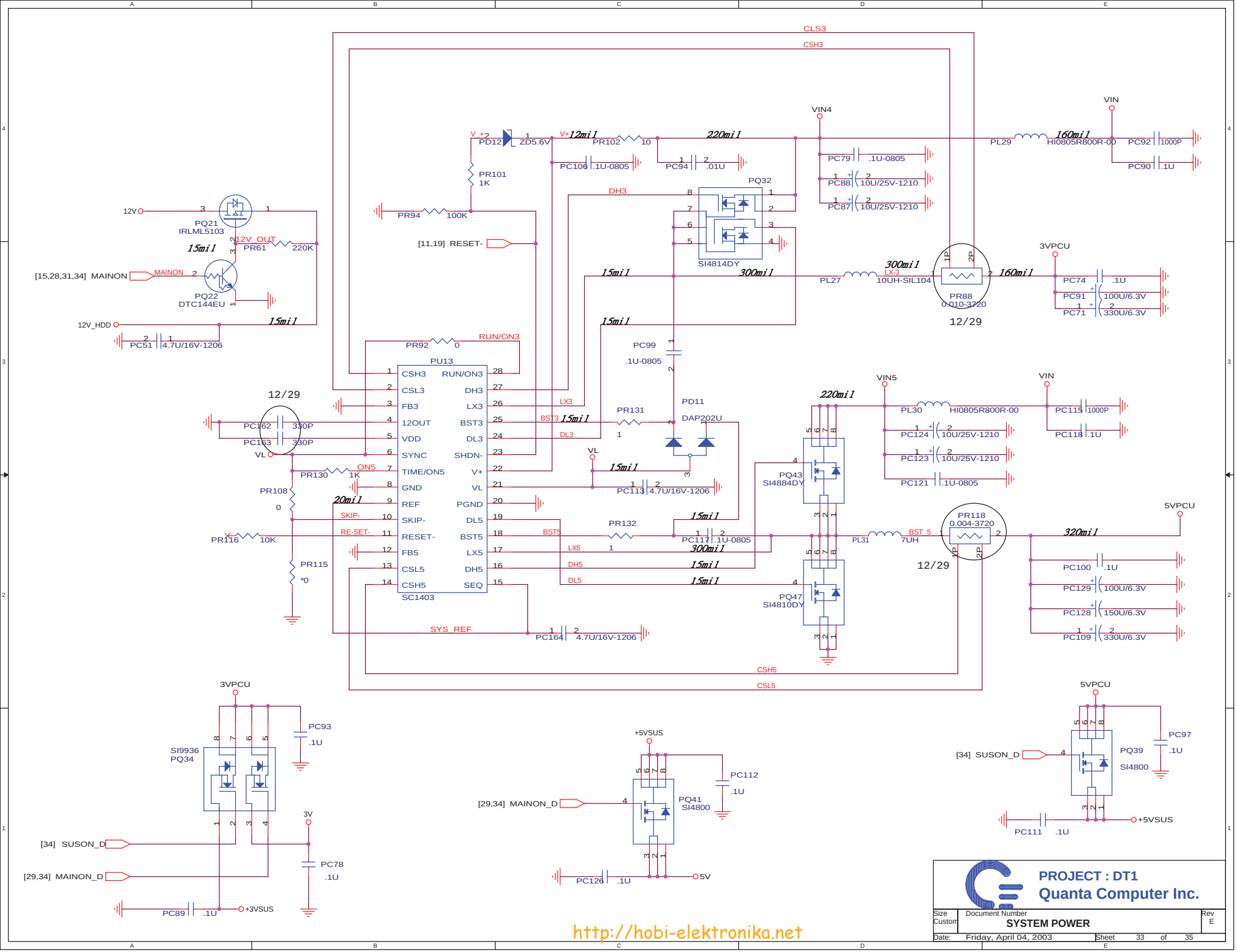
Size	Document Number	Rev
Custom	POWER 12V_HDD & AGP(VDDQ)	E
Date: Friday, April 04, 2003	Sheet 31 of 35	

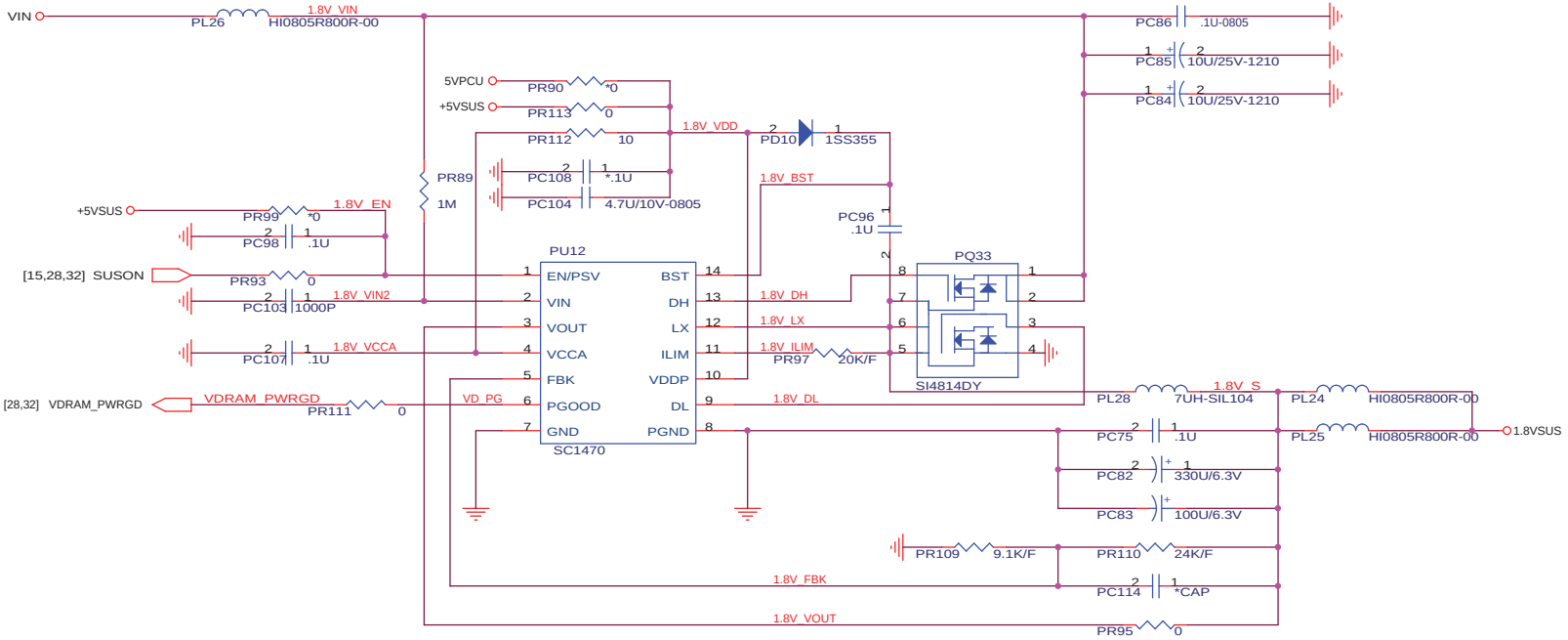




PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	POWER - DDR & 2.5V	E
Date: Friday, April 04, 2003	Sheet 32 of 35	


CLS3
CSH3
VIN4
VIN
PD12
ZD5.6V
PR101
1K
PR102
10
PC106
.1U-0805
PC94
.01U
PC79
.1U-0805
PC88
10U/25V-1210
PC87
10U/25V-1210
PL29
HI0805R800R-00
PC92
1000P
PC90
.1U
PQ32
SI4814DY
DH3
PR94
100K
[11,19] RESET-
12V
PQ21
IRLML5103
12V_OUT
PR61
220K
[15,28,31,34] MAINON
MAINON
PQ22
DTC144EU
12V_HDD
PC51
4.7U/16V-1206
PL27
LX-3
10UH-SIL104
PR88
0.010-3720
3VPCU
PC74
.1U
PC91
100U/6.3V
PC71
330U/6.3V
12/29
PR92
0
RUN/ON3
PU13
CSH3
CSL3
FB3
12OUT
VDD
SYNC
TIME/ON5
GND
REF
SKIP-
SKIP-
RESET-
FB5
CSL5
CSH5
RUN/ON3
DH3
LX3
BST3
DL3
SHDN-
V+
VL
PGND
DL5
BST5
LX5
DH5
SEQ
SC1403
PC99
.1U-0805
PD11
DAP202U
PR131
1
PC113
4.7U/16V-1206
PC162
330P
PC163
330P
PR130
1K
ON5
PR108
0
PR116
10K
PR115
*0
RE-SET-
SYS_REF
PC164
4.7U/16V-1206
PR132
1
PC117
.1U-0805
VIN5
PL30
HI0805R800R-00
PC124
10U/25V-1210
PC123
10U/25V-1210
PC121
.1U-0805
PC115
1000P
PC118
.1U
PQ43
SI4884DY
PQ47
SI4810DY
PR118
0.004-3720
PL31
7UH
BST_5
5VPCU
PC100
.1U
PC129
100U/6.3V
PC128
150U/6.3V
PC109
330U/6.3V
3VPCU
SI9936
PQ34
PC93
.1U
[34] SUSON_D
[29,34] MAINON_D
3V
PC78
.1U
PC89
.1U
+3VSUS
+5VSUS
PC112
.1U
PQ41
SI4800
PC126
.1U
5V
PC97
.1U
PQ39
SI4800
PC111
.1U
http://hobi-elektronika.net
PROJECT : DT1
Quanta Computer Inc.
Size
Custom
Document Number
SYSTEM POWER
Rev
E
Date:
Friday, April 04, 2003
Sheet
33
of
35



PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	POWER DISCHARGE	E
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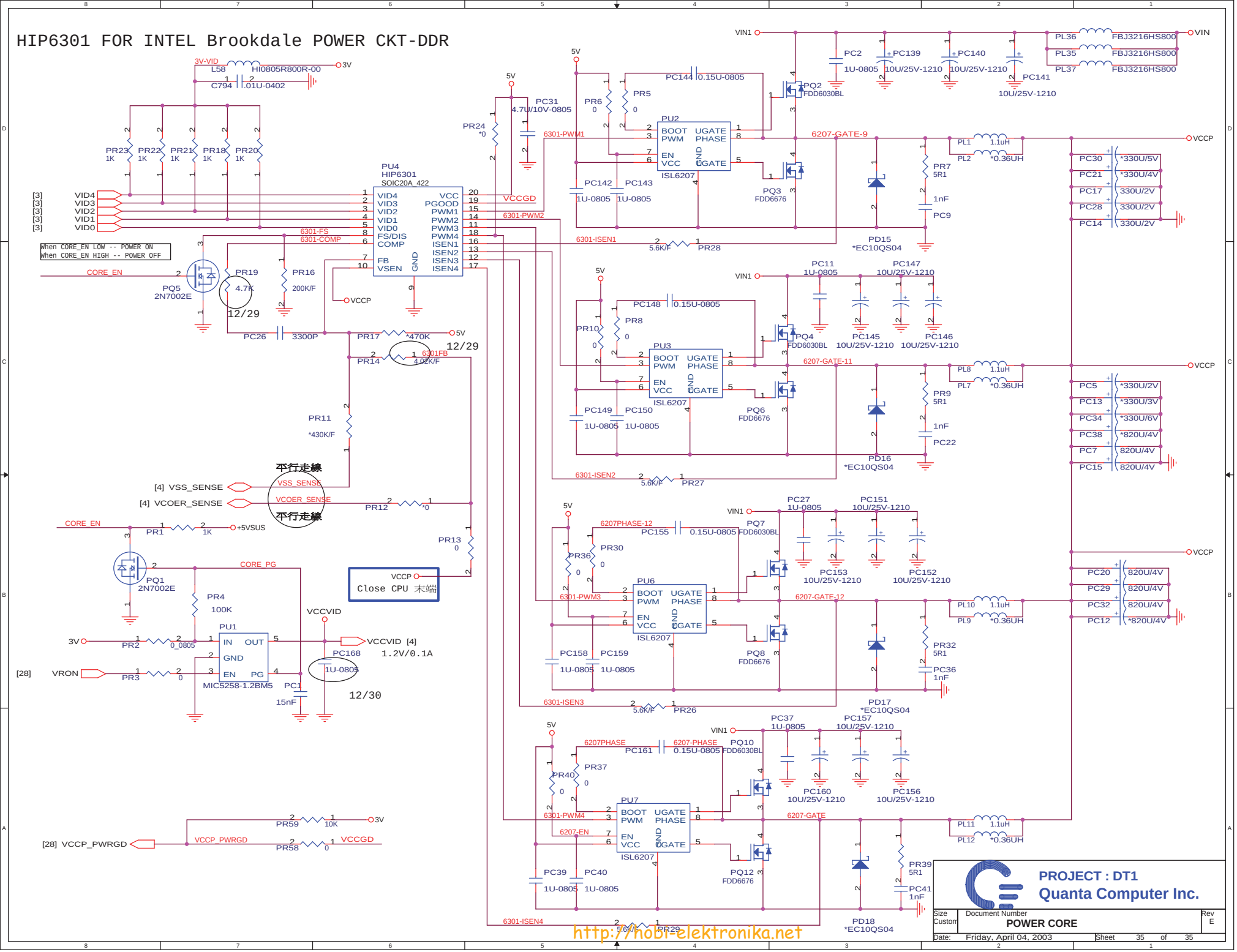
HIP6301 FOR INTEL Brookdale POWER CKT-DDR



PROJECT : DT1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	POWER CORE	E
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