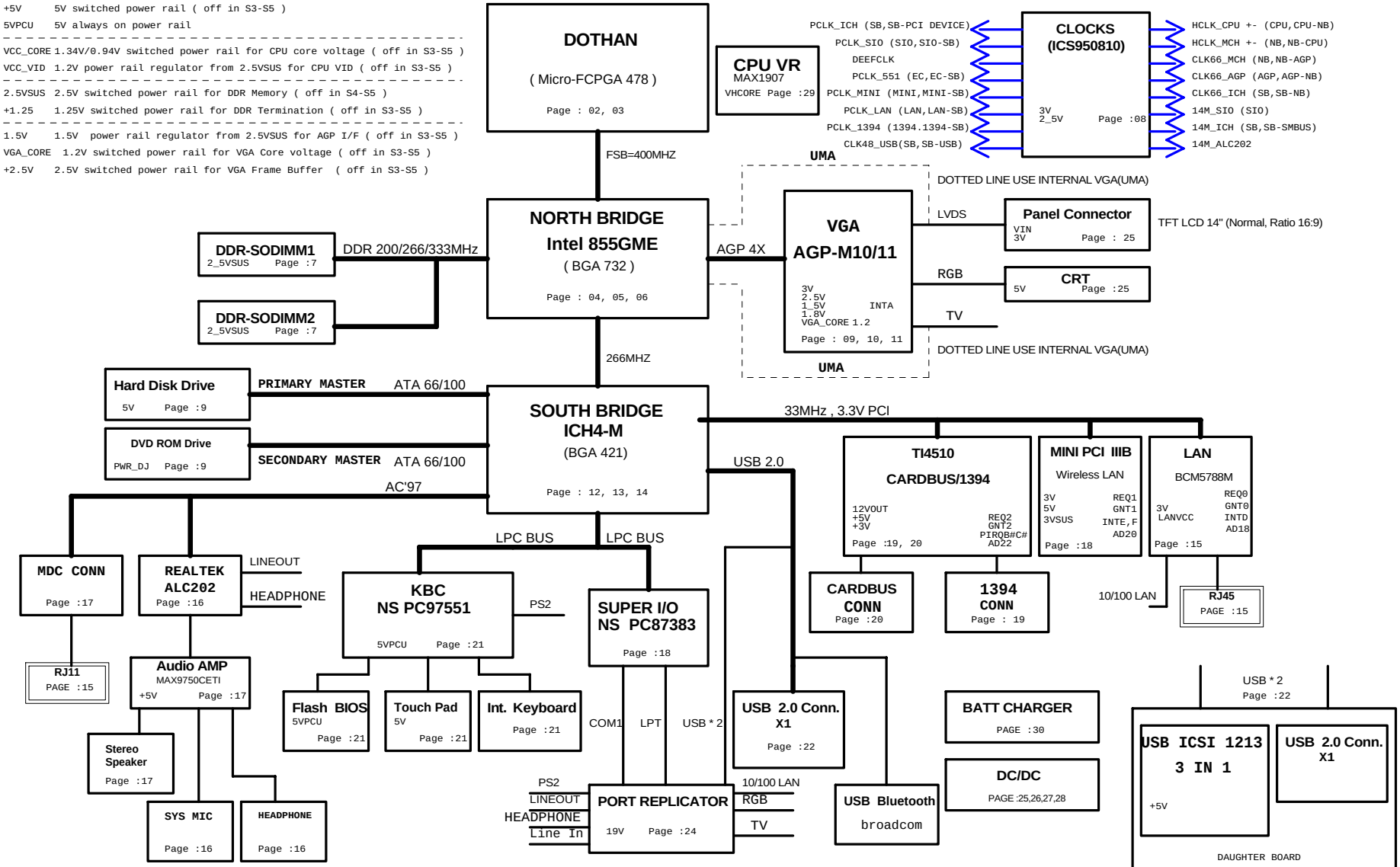
Voltage Rails

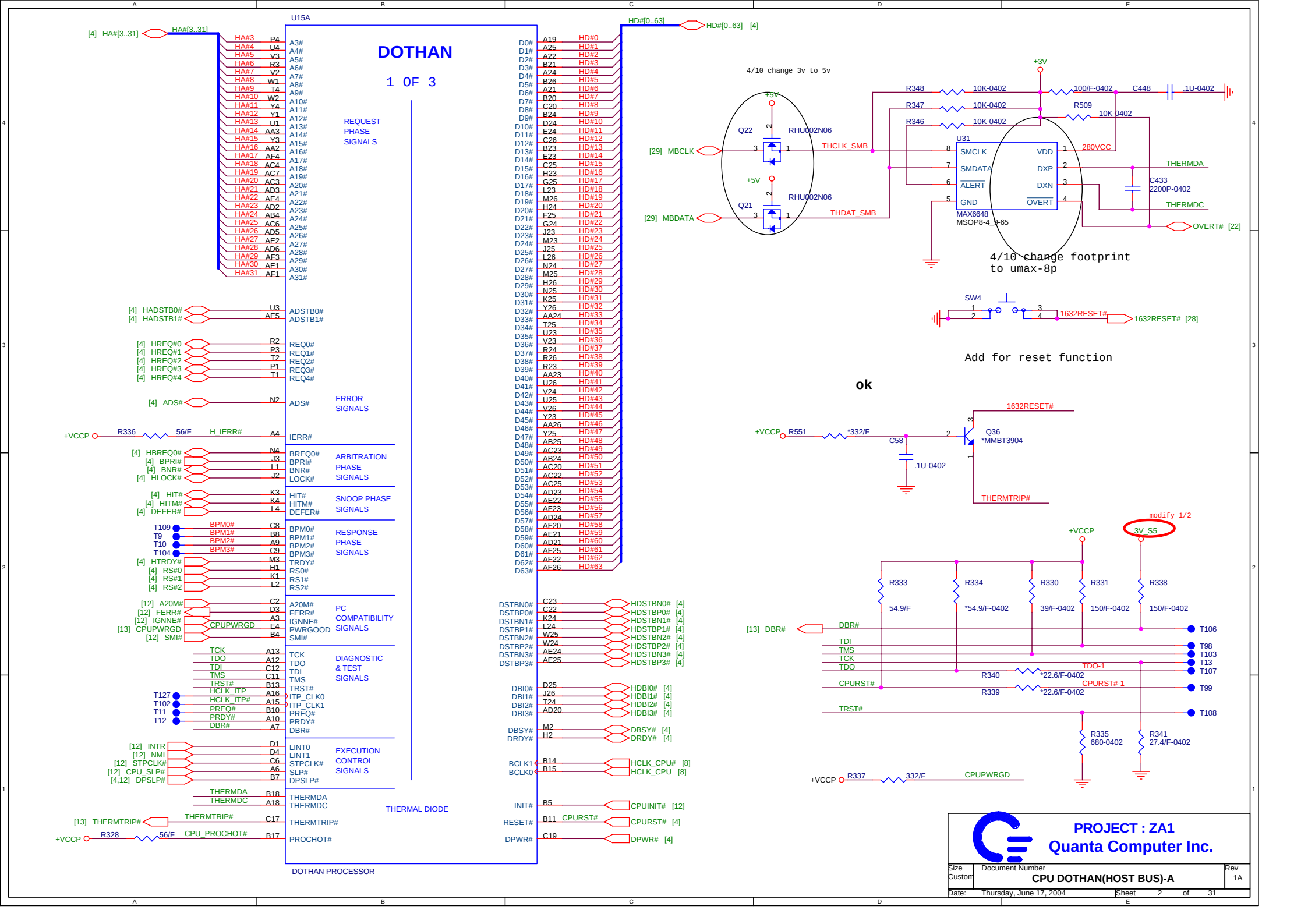
PWR_SRC	Primary DC system power supply
3VSUS	3.3V switched power rail (off in S4-S5)
+3V	3.3V switched power rail (off in S3-S5)
3VPCU	3V always on power rail
5VSUS	5V switched power rail (off in S4-S5)
+5V	5V switched power rail (off in S3-S5)
5VPCU	5V always on power rail
VCC_CORE	1.34V/0.94V switched power rail for CPU core voltage (off in S3-S5)
VCC_VID	1.2V power rail regulator from 2.5VSUS for CPU VID (off in S3-S5)
2.5VSUS	2.5V switched power rail for DDR Memory (off in S4-S5)
+1.25	1.25V switched power rail for DDR Termination (off in S3-S5)
1.5V	1.5V power rail regulator from 2.5VSUS for AGP I/F (off in S3-S5)
VGA_CORE	1.2V switched power rail for VGA Core voltage (off in S3-S5)
+2.5V	2.5V switched power rail for VGA Frame Buffer (off in S3-S5)

ZA1 SYSTEM BLOCK DIAGRAM



PROJECT : ZA1
Quanta Computer Inc.

Size: Custom	Document Number: BLOCK DIAGRAM	Rev: 1A
Date: Thursday, June 17, 2004	Sheet 1 of 31	


DOTHAN
1 OF 3
U15A
REQUEST PHASE SIGNALS
ERROR SIGNALS
ARBITRATION PHASE SIGNALS
SNOOP PHASE SIGNALS
RESPONSE PHASE SIGNALS
PC COMPATIBILITY SIGNALS
DIAGNOSTIC & TEST SIGNALS
EXECUTION CONTROL SIGNALS
THERMAL DIODE
DOTHAN PROCESSOR
4/10 change 3v to 5v
MAX6648
MSOP8-4_9-65
4/10 change footprint to umax-8p
Add for reset function
ok
modify 1/2
PROJECT : ZA1
Quanta Computer Inc.
CPU DOTHAN(HOST BUS)-A
Thursday, June 17, 2004

CH44702K912

VCC_CORE
C429 .47U/10V
C418 .47U/10V
C414 .47U/10V
C430 .47U/10V

VCC_CORE
C420 .47U/10V
C416 .47U/10V
C432 .47U/10V
C431 .47U/10V

220U/2.5V(CC7343) *2

VCC_CORE
C82 150U/4V-3528
C402 150U/4V-3528

D: Change CH7220LMJB0(45mΩ)to CH7221LMJB4(18mΩ).

CPU_VCCA
C404 10U/6.3V-0805
C451 10U/6.3V-0805
C217 10U/6.3V-0805
C428 10U/6.3V-0805
C403 .1U-0402
C449 .1U-0402
C214 .1U-0402
C415 .1U-0402

+VCCP
C238 150U/4V-3528
C239 150U/4V-3528
C426 10U/6.3V-0805
C425 10U/6.3V-0805
C424 10U/6.3V-0805
C423 10U/6.3V-0805
C422 10U/6.3V-0805
150u

+VCCP
C438 .1U-0402
C446 .1U-0402
C450 .1U-0402
C447 .1U-0402
C452 .1U-0402
C436 .1U-0402

10U/6.3V/X5R(CC0805) *38

VCC_CORE
C457 10U/6.3V-0805
C456 10U/6.3V-0805
C458 10U/6.3V-0805
C459 10U/6.3V-0805
C460 10U/6.3V-0805

VCC_CORE
C461 10U/6.3V-0805
C440 10U/6.3V-0805
C441 10U/6.3V-0805
C442 10U/6.3V-0805
C443 10U/6.3V-0805

VCC_CORE
C444 10U/6.3V-0805
C445 10U/6.3V-0805
C219 10U/6.3V-0805
C218 10U/6.3V-0805

VCC_CORE
C225 10U/6.3V-0805
C220 10U/6.3V-0805
C226 10U/6.3V-0805
C212 10U/6.3V-0805

VCC_CORE
C213 10U/6.3V-0805
C221 10U/6.3V-0805
C427 10U/6.3V-0805
C468 10U/6.3V-0805
C469 10U/6.3V-0805

VCC_CORE
C470 10U/6.3V-0805
C464 10U/6.3V-0805
C465 10U/6.3V-0805
C453 10U/6.3V-0805
C463 10U/6.3V-0805

VCC_CORE
C467 10U/6.3V-0805
C454 10U/6.3V-0805
C462 10U/6.3V-0805
C466 10U/6.3V-0805
C455 10U/6.3V-0805

4/10 change P/N
to CS02743F907

R351 27.4/F COMP0 P25
R350 54.9/F COMP1 P26
R352 27.4/F COMP2 AB2
R353 54.9/F COMP3 AB1

+VCCP
R181 1K/F-0402 GTLREF0 AD26
R182 2K/F-0402 E26
G1
AC1

A0: stuff
A1: NC
R329 *1K-0402 TEST1 C5
R345 *1K-0402 TEST2 F23

60MIL

+1.8V
R191 0-0805 CPU_VCCA AC26
N1
B1
+1.5V
R192 *0-0805 F26

20mil

VCC_CORE

VCC_CORE [30]
+VCCP [2,4,6,12,27,30]

U15B

DOTHAN

2 OF 3

POWER, GROUND, RESERVED SIGNALS

COMP0 COMP1 COMP2 COMP3
GTLREF0 GTLREF1 GTLREF2 GTLREF3
TEST1 TEST2
VCCA3 VCCA2 VCCA1 VCCA0
VCC00 VCC01 VCC02 VCC03 VCC04 VCC05 VCC06 VCC07 VCC08 VCC09 VCC10 VCC11 VCC12 VCC13 VCC14 VCC15 VCC16 VCC17 VCC18 VCC19 VCC20 VCC21 VCC22 VCC23 VCC24 VCC25 VCC26 VCC27 VCC28 VCC29 VCC30 VCC31 VCC32 VCC33 VCC34 VCC35 VCC36 VCC37 VCC38 VCC39 VCC40 VCC41 VCC42 VCC43 VCC44 VCC45 VCC46 VCC47 VCC48 VCC49 VCC50 VCC51 VCC52 VCC53 VCC54 VCC55 VCC56 VCC57 VCC58 VCC59 VCC60 VCC61 VCC62 VCC63 VCC64 VCC65 VCC66 VCC67 VCC68 VCC69 VCC70 VCC71
VSS1 VSS2 VSS3 VSS4 VSS5 VSS6 VSS7 VSS8 VSS9 VSS10 VSS11 VSS12 VSS13 VSS14 VSS15 VSS16 VSS17 VSS18 VSS19 VSS20 VSS21 VSS22 VSS23 VSS24 VSS25 VSS26 VSS27 VSS28 VSS29 VSS30 VSS31 VSS32 VSS33 VSS34 VSS35 VSS36 VSS37 VSS38 VSS39 VSS40 VSS41 VSS42 VSS43 VSS44 VSS45 VSS46 VSS47 VSS48 VSS49 VSS50 VSS51 VSS52 VSS53 VSS54 VSS55 VSS56 VSS57 VSS58 VSS59 VSS60 VSS61 VSS62 VSS63 VSS64 VSS65 VSS66 VSS67 VSS68 VSS69 VSS70 VSS71 VSS72 VSS73 VSS74 VSS75 VSS76 VSS77 VSS78 VSS79 VSS80 VSS81 VSS82 VSS83 VSS84 VSS85 VSS86 VSS87 VSS88 VSS89 VSS90 VSS91 VSS92 VSS93 VSS94 VSS95 VSS96 VSS97 VSS98 VSS99 VSS100
A2 A5 A8 A11 A14 A17 A20 A23 A26 B3 B6 B9 B12 B16 B19 B22 B25 C1 C4 C7 C10 C13 C15 C18 C21 C24 D2 D5 D7 D9 D11 D13 D15 D17 D19 D21 D23 D26 E3 E6 E8 E10 E12 E14 E16 E18 E20 E22 E25 F1 F5 F7 F9 F11 F13 F15 F17 F19 F21 F24 G2 G6 G22 G23 G26 H3 H5 H21 H25 J1 J4 J6 J22 J24 K2 K5 K21 K23 K26 L3 L6 L22 L25 M1 M4 M5 M21 M24 N3 N6 N22 N23 N26 P2 P5 P21 P24 R1 R4

DOTHAN PROCESSOR

U15C

DOTHAN

3 OF 3

POWER, GROUND AND NC

+VCCP
D10 D12 D14 D16 F11 E13 E15 E10 F12 F14 F16 K6 L5 L21 M6 M22 N5 N21 P6 P22 R5 R21 T6 T22 U21 P23 W4
VCCP0 VCCP1 VCCP2 VCCP3 VCCP4 VCCP5 VCCP6 VCCP7 VCCP8 VCCP9 VCCP10 VCCP11 VCCP12 VCCP13 VCCP14 VCCP15 VCCP16 VCCP17 VCCP18 VCCP19 VCCP20 VCCP21 VCCP22 VCCP23 VCCP24 VCCP25 VCCP26

[30] CPU_VID0 E2
[30] CPU_VID1 F2
[30] CPU_VID2 F3
[30] CPU_VID3 G3
[30] CPU_VID4 G4
[30] CPU_VID5 H4
VID0 VID1 VID2 VID3 VID4 VID5

VID

R180 *54.9/F Z0501 AE7 VCCSENSE
R179 *54.9/F Z0502 AF6 VSSSENSE

T97 Z0503 B2 NC0
T54 Z0504 AF7 NC1
T14 Z0505 C14 NC2
T100 Z0506 C3 NC3
R332 *1K-0402 Z0507 C16 TEST3
T120 Z0508 E1 PSI

R6 R22 R25 T3 T5 T21 T23 T26 U2 U6 U22 U24 V1 V4 V5 V21 V25 W3 W6 W22
VSS1 VSS2 VSS3 VSS4 VSS5 VSS6 VSS7 VSS8 VSS9 VSS10 VSS11 VSS12 VSS13 VSS14 VSS15 VSS16 VSS17 VSS18 VSS19 VSS20

W23 W26 Y2 Y5 Y21 Y24 AA1 AA4 AA6 AA8 AA10 AA12 AA14 AA16 AA18 AA20 AA22 AA25 AB3 AB5 AB7 AB9 AB11 AB13 AB15 AB17 AB19 AB21 AB23 AB26 AC2 AC5 AC8 AC10 AC12 AC14 AC16 AC18 AC21 AC24 AD1 AD4 AD7 AD9 AD11 AD13 AD15 AD17 AD19 AD22 AD25 AE3 AE6 AE8 AE10 AE12 AE14 AE16 AE18 AE20 AE23 AE26 AF2 AF5 AF9 AF11 AF13 AF15 AF17 AF19 AF21 AF24
VSS21 VSS22 VSS23 VSS24 VSS25 VSS26 VSS27 VSS28 VSS29 VSS30 VSS31 VSS32 VSS33 VSS34 VSS35 VSS36 VSS37 VSS38 VSS39 VSS40 VSS41 VSS42 VSS43 VSS44 VSS45 VSS46 VSS47 VSS48 VSS49 VSS50 VSS51 VSS52 VSS53 VSS54 VSS55 VSS56 VSS57 VSS58 VSS59 VSS60 VSS61 VSS62 VSS63 VSS64 VSS65 VSS66 VSS67 VSS68 VSS69 VSS70 VSS71 VSS72 VSS73 VSS74 VSS75 VSS76 VSS77 VSS78 VSS79 VSS80 VSS81 VSS82 VSS83 VSS84 VSS85 VSS86 VSS87 VSS88 VSS89 VSS90 VSS91 VSS92

DOTHAN PROCESSOR

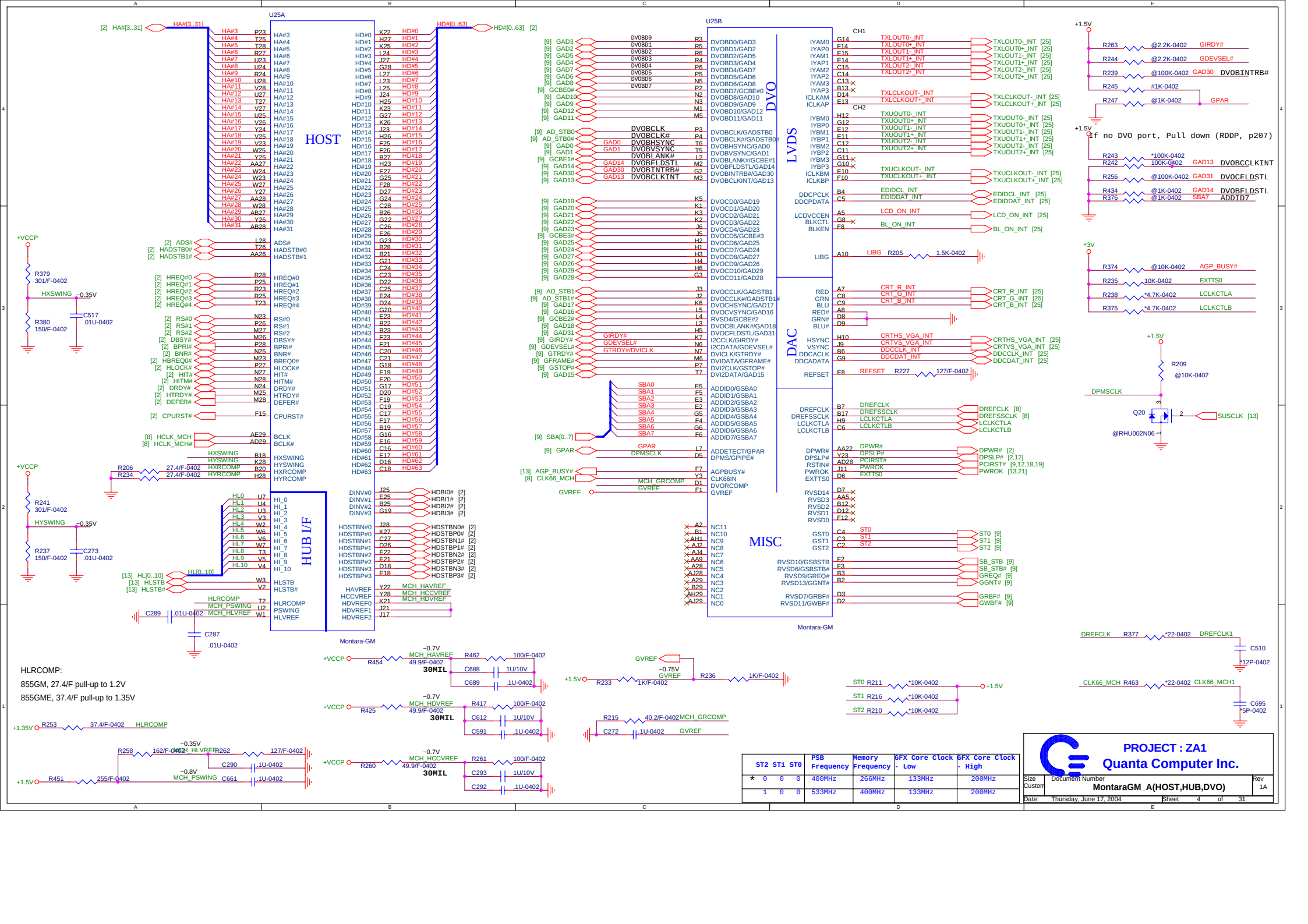
VCC_CORE: 1.356V~0.844V ,0.748V(Deeper sleep)

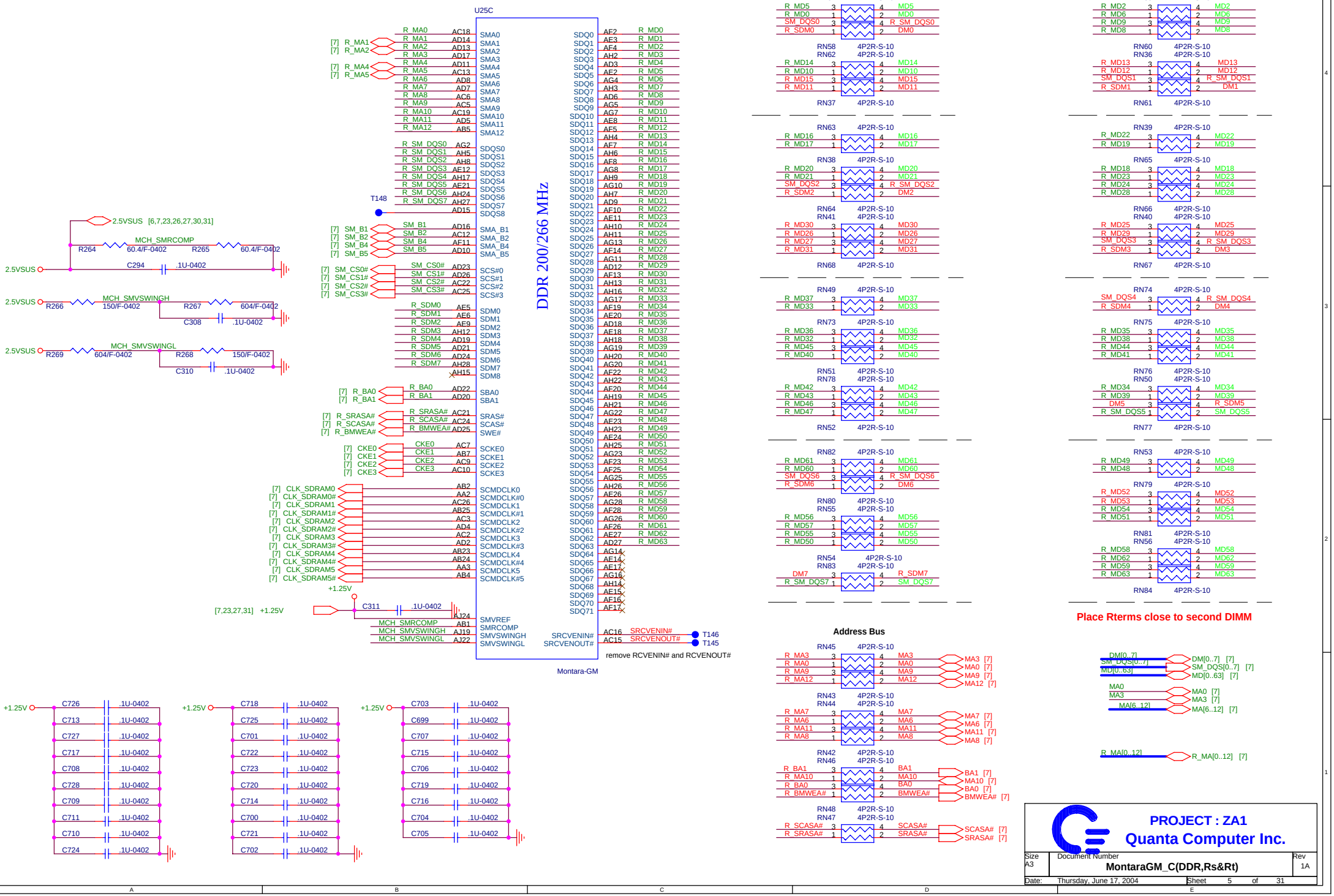
VCCP : 1.05V

VCCA : 1.8V

PROJECT : ZA1
Quanta Computer Inc.

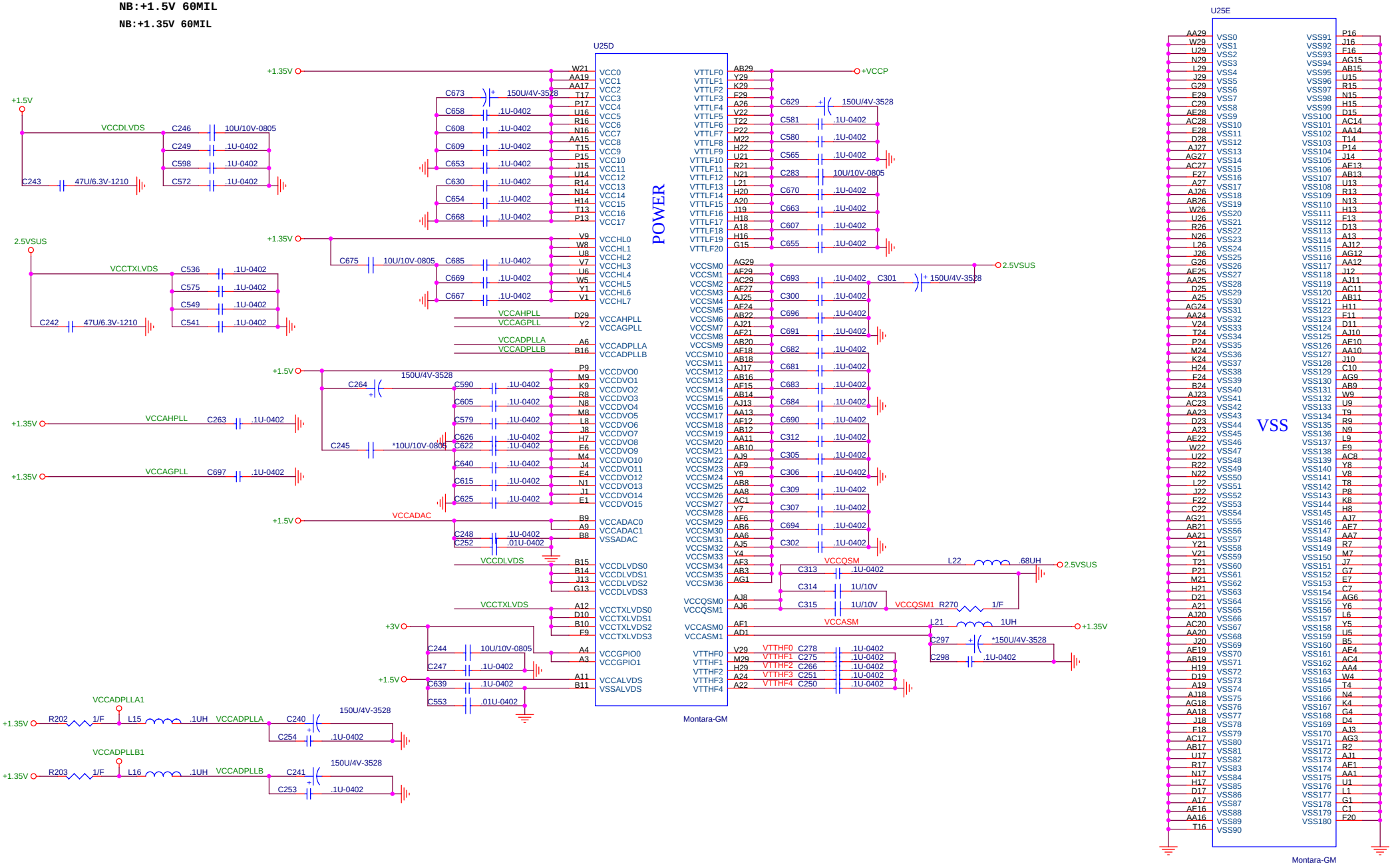
Size	Document Number	Rev
B	CPU DOTHAN (POWER/NC)-B	1A
Date: Tuesday, July 06, 2004	Sheet 3 of 31	

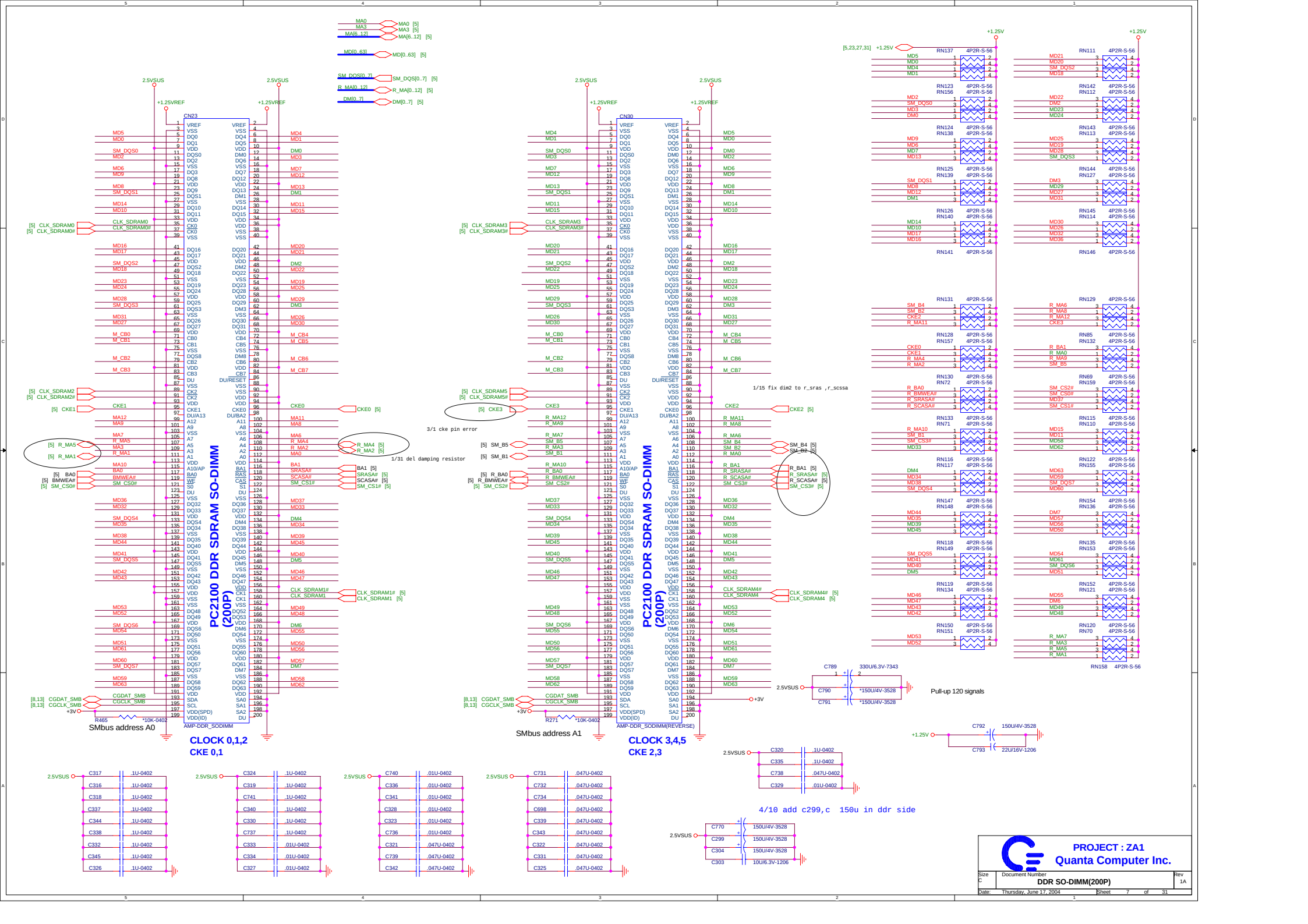

U25A
HOST
HUB I/F
U25B
DVO
LVDS
DAC
MISC
Montara-GM
HLRCOMP:
855GM, 27.4/F pull-up to 1.2V
855GME, 37.4/F pull-up to 1.35V
If no DVO port, Pull down (RDDP, p207)
ST2 ST1 ST0 | PSB Frequency | Memory Frequency | GFX Core Clock - Low | GFX Core Clock - High
* 0 0 0 | 400MHz | 266MHz | 133MHz | 200MHz
1 0 0 | 533MHz | 400MHz | 133MHz | 200MHz
PROJECT : ZA1
Quanta Computer Inc.
Size: Custom
Document Number: MontaraGM_A(HOST,HUB,DVO)
Rev: 1A
Date: Thursday, June 17, 2004
Sheet 4 of 31


U25C
DDR 200/266 MHz
Montara-GM
remove RCVENIN# and RCVENOUT#
Data Bus
Address Bus
Place Rterms close to second DIMM
PROJECT : ZA1
Quanta Computer Inc.
Document Number
MontaraGM_C(DDR,Rs&Rt)
Size A3
Rev 1A
Date: Thursday, June 17, 2004
Sheet 5 of 31

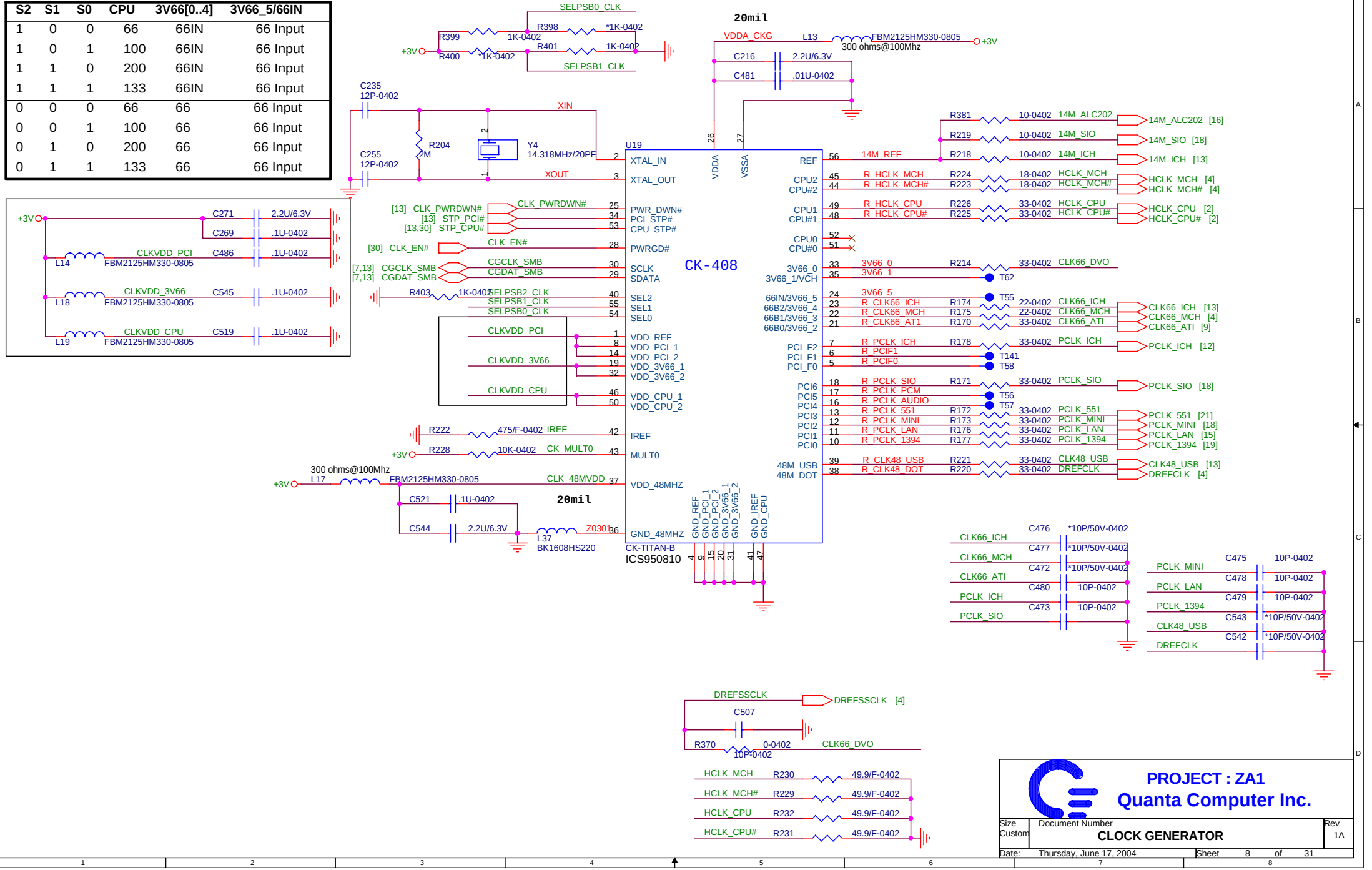
NB:+1.5V 60MIL

NB:+1.35V 60MIL




CN23
CN30
PC2100 DDR SDRAM SO-DIMM (200P)
AMP-DDR_SODIMM
AMP-DDR_SODIMM(REVERSE)
SMbus address A0
SMbus address A1
CLOCK 0,1,2
CKE 0,1
CLOCK 3,4,5
CKE 2,3
3/1 cke pin error
1/31 del damping resistor
1/15 fix dim2 to r_sras ,r_scssa
Pull-up 120 signals
4/10 add c299,c 150u in ddr side
PROJECT : ZA1
Quanta Computer Inc.
DDR SO-DIMM(200P)
Thursday, June 17, 2004

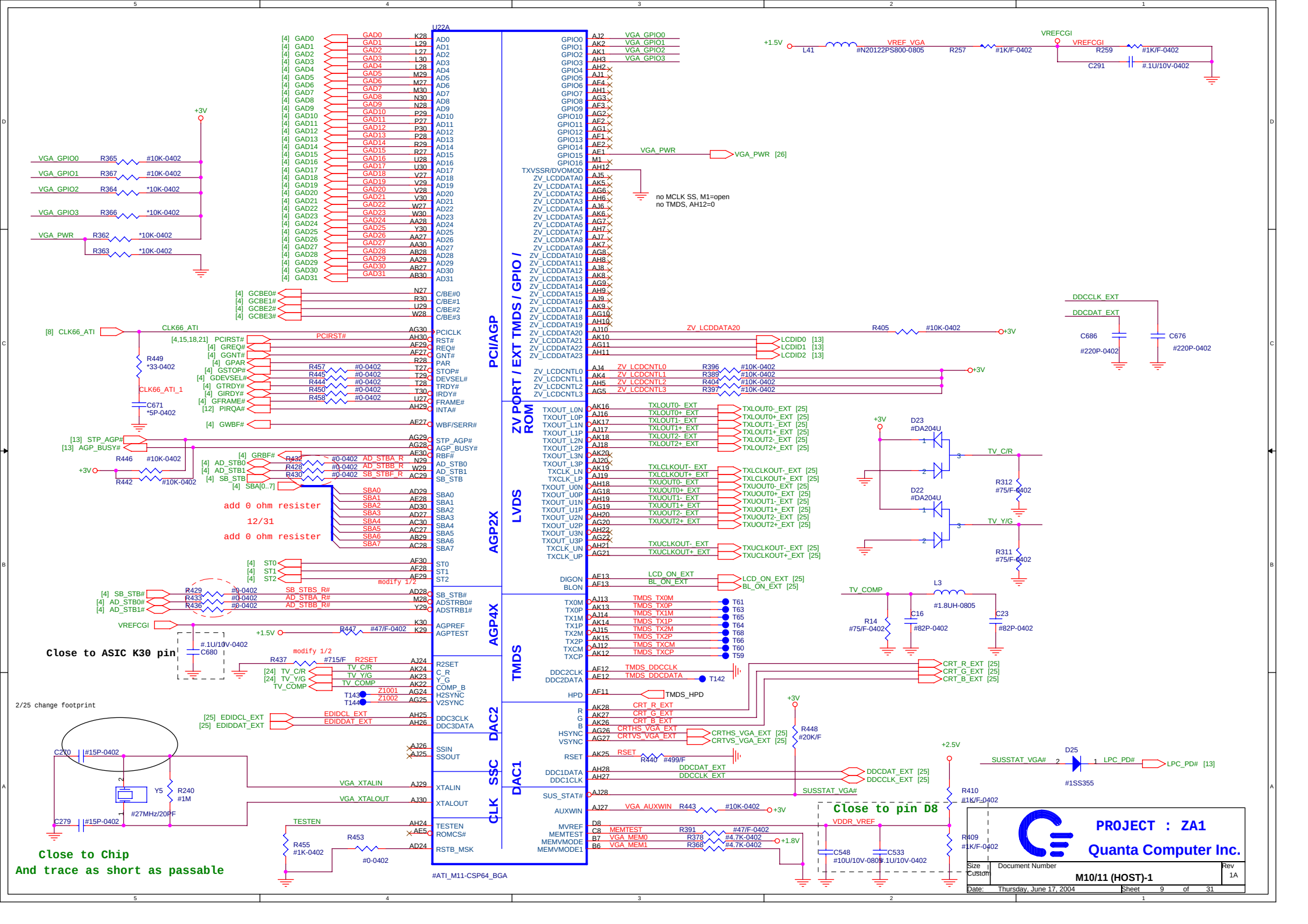
S2	S1	S0	CPU	3V66[0..4]	3V66_5/66IN
1	0	0	66	66IN	66 Input
1	0	1	100	66IN	66 Input
1	1	0	200	66IN	66 Input
1	1	1	133	66IN	66 Input
0	0	0	66	66	66 Input
0	0	1	100	66	66 Input
0	1	0	200	66	66 Input
0	1	1	133	66	66 Input

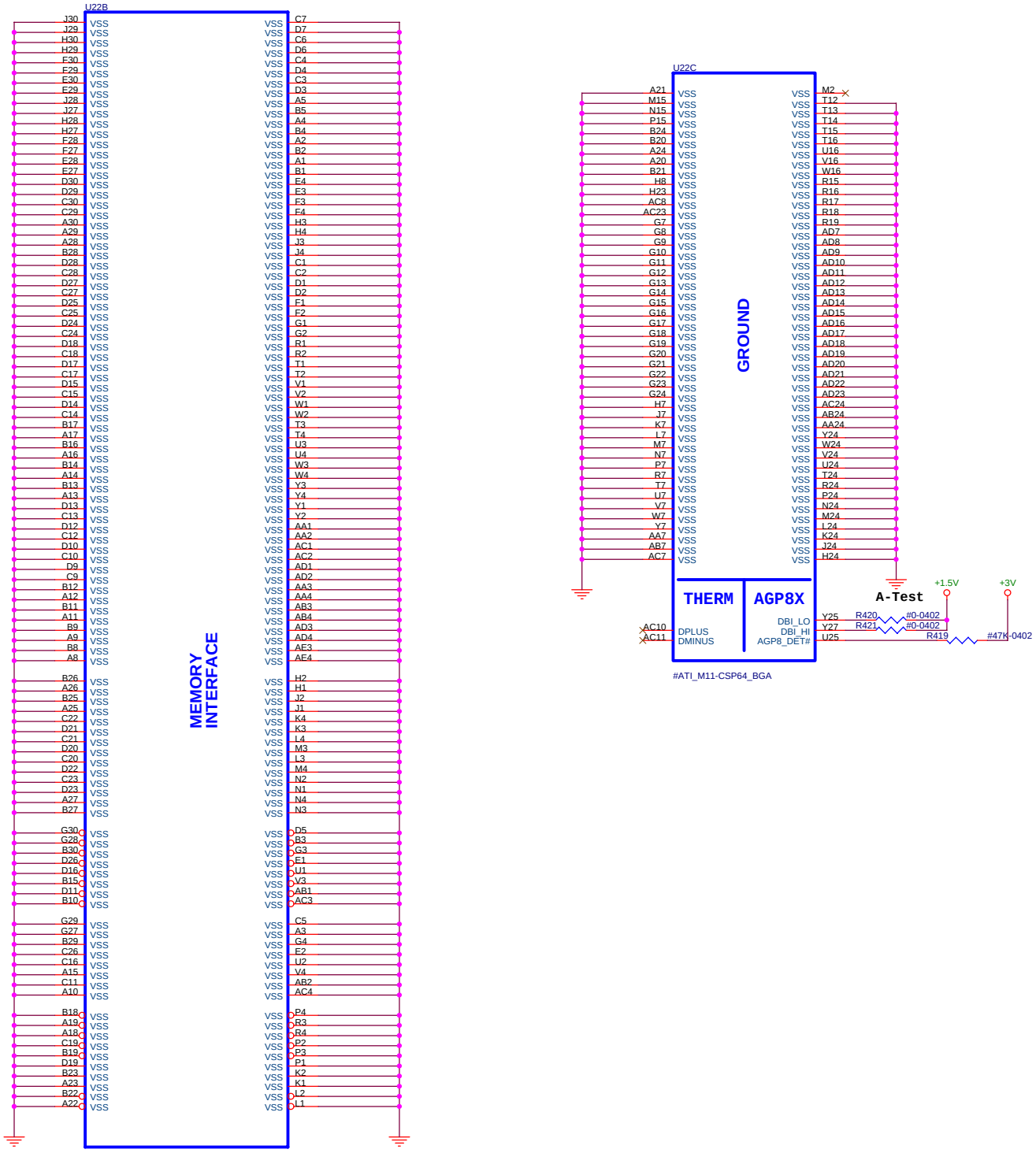


PROJECT : ZA1

Quanta Computer Inc.

Size	Document Number	Rev
Custom	CLOCK GENERATOR	1A
Date: Thursday, June 17, 2004	Sheet 8 of 31	

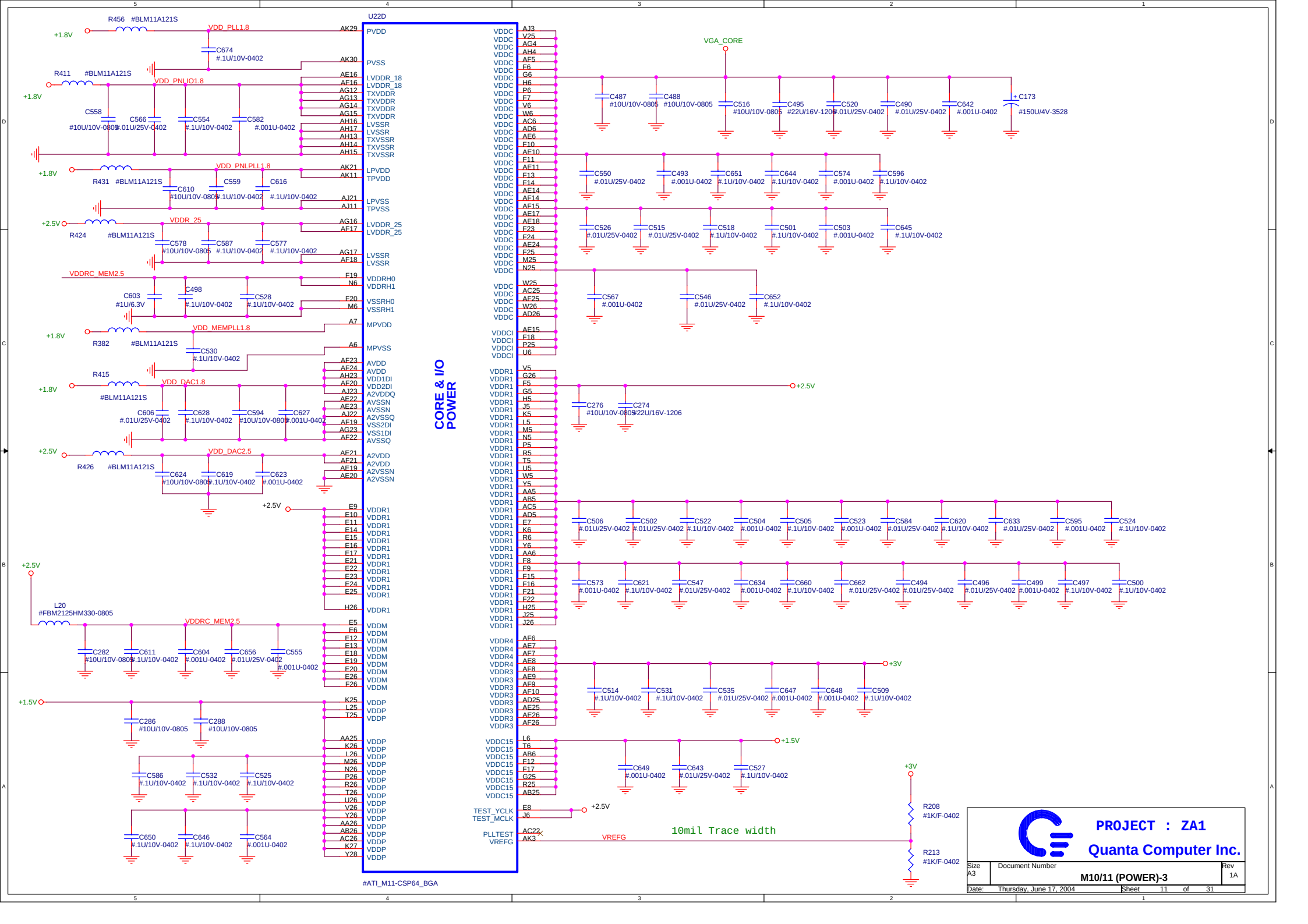

U22A
PCI/AGP
ZV PORT / EXT TMDS / GPIO / ROM
LVDS
AGP2X
AGP4X
TMDS
DAC2
SSC
DAC1
CLK
#ATI_M11-CSP64_BGA
add 0 ohm resister
12/31
add 0 ohm resister
Close to ASIC K30 pin
2/25 change footprint
Close to Chip
And trace as short as passable
Close to pin D8
PROJECT : ZA1
Quanta Computer Inc.
M10/11 (HOST)-1
Rev 1A
Thursday, June 17, 2004
Sheet 9 of 31



PROJECT : ZA1

Quanta Computer Inc.

Size	Document Number	Rev
Custom	M10/11 (MEMORY) & SS-2	1A
Date: Thursday, June 17, 2004	Sheet 10 of 31	


U22D
CORE & I/O POWER
#ATI_M11-CSP64_BGA
PROJECT : ZA1
Quanta Computer Inc.
Size A3
Document Number
M10/11 (POWER)-3
Rev 1A
Date: Thursday, June 17, 2004
Sheet 11 of 31
10mil Trace width
VGA_CORE
+1.8V
+2.5V
+3V
+1.5V
VDD_PLL1.8
VDD_PNLIO1.8
VDD_PNLPLL1.8
VDDR_25
VDDRC_MEM2.5
VDD_MEMPLL1.8
VDD_DAC1.8
VDD_DAC2.5
VREFG
TEST_YCLK
TEST_MCLK
PLLTEST

ICH HUB

U11A

CPU

[2] NMI
[2] A20M#
ICH4_FERR#
[2] IGNNE#
[2] INTR
[2] CPUINIT#
[21] RCIN#
[21] GATEA20

NMI A20M# FERR# IGNNE# INTR INIT# RCIN# A20GATE

APICD0 APICD1 APICCLK
H19 K20 J19
APICD0 R150 10K-0402
APICD1 R140 10K-0402

SMI# STPCLK# CPUSLP# DPSLP#
W23 V23 U21 U23
SMI# [2]
STPCLK# [2]
CPU_SLP# [2]
DPSLP# [2,4]

PCI

[15,18,19] AD[0..31]

AD0 AD1 AD2 AD3 AD4 AD5 AD6 AD7 AD8 AD9 AD10 AD11 AD12 AD13 AD14 AD15 AD16 AD17 AD18 AD19 AD20 AD21 AD22 AD23 AD24 AD25 AD26 AD27 AD28 AD29 AD30 AD31

C/BE0# C/BE1# C/BE2# C/BE3#
J2 K4 M4 N4
C/BE0# [15,18,19]
C/BE1# [15,18,19]
C/BE2# [15,18,19]
C/BE3# [15,18,19]

FRAME# IRDY# TRDY# DEVSEL# STOP# PAR SERR# PERR# PLOCK#
F1 L5 F2 M3 E3 G1 K5 L4 M2
FRAME# [15,18,19]
IRDY# [15,18,19]
TRDY# [15,18,19]
DEVSEL# [15,18,19]
STOP# [15,18,19]
PAR [15,18,19]
SERR# [18]
PERR# [15,18]

REQ0# REQ1# REQ2# REQ3# REQ4#
B1 A2 B3 C7 B6
REQ0# [15]
REQ1# [18]
REQ2# [19]

GNT0# GNT1# GNT2# GNT3# GNT4#
C1 E6 A7 B7 D6
GNT0# [15]
GNT1# [18]
GNT2# [19]
T111
T110

REQ0 : PCI LAN
REQ1 : MINI PCI
REQ2 : 1394/CARDBUS

PIRQA# PIRQB# PIRQC# PIRQD# PIRQE#/GPIO2 PIRQF#/GPIO3 PIRQG#/GPIO4 PIRQH#/GPIO5
D5 C2 B4 A3 C8 D7 C3 C4
PIRQA# [9]
PIRQB# [19]
PIRQC# [19]
PIRQD# [15]
PIRQE# [18]
PIRQF# [18]

PIRQA#: VGA
PIRQB#: MINI-PCI
PIRQC#: MINI-PCI
PIRQD#: PCI LAN
PIRQE#: CARDBUS/1394
PIRQF#: CARDBUS/1394

SERIRQ REQA#/GPIO0 REQB#/REQ5#/GPIO1
J22 B5 A6
SERIRQ [18,19,21]

IDE

PDD0 PDD1 PDD2 PDD3 PDD4 PDD5 PDD6 PDD7 PDD8 PDD9 PDD10 PDD11 PDD12 PDD13 PDD14 PDD15
AB11 AC11 Y10 AA10 AA7 AB8 Y8 AA8 AB9 Y9 AC9 W9 AB10 W10 W11 Y11

PDCS1# PDCS3# PDA0 PDA1 PDA2 PDIOR# PDIOW# PIORDY IRQ14 PDDREQ PDDACK#
Y13 AB14 AA13 AB13 W13 AC12 W12 AB12 AC13 AA11 Y12

SDD0 SDD1 SDD2 SDD3 SDD4 SDD5 SDD6 SDD7 SDD8 SDD9 SDD10 SDD11 SDD12 SDD13 SDD14 SDD15
W17 AB17 W16 AC16 W15 AB15 W14 AA14 Y14 AC15 AA15 Y15 AB16 Y16 AA17 Y17

SDCS1# SDCS3# SDA0 SDA1 SDA2 SDIOR# SDIOW# SIORDY IRQ15 SDDREQ SDDACK#
AB21 AC22 AA20 AC20 AC21 Y18 AA18 AC19 AA19 AB18 AB19

ICH4-M

PCI Pullups

+3V

RN101 4P2R-S-8.2K
PIRQA# REQ1# IRQ14 IRQ15

RN105 4P2R-S-8.2K
PLOCK# DEVSEL# IRDY# SERR#

RN9 RN103 4P2R-S-8.2K
PIRQC# PIRQH# TRDY# FRAME#

RN108 RN106 4P2R-S-8.2K
PERR# STOP# IRDY# REQ0#

RN107 RN96 4P2R-S-8.2K
PIRQE# PIRQF# SERIRQ REQA#

RN100 RN98 4P2R-S-8.2K
PIRQD# PIRQB# REQ4# GNT3#

RN102 RN97 4P2R-S-8.2K
REQ3# REQB#

RN99 RN109 4P2R-S-8.2K
GNT0# GNT1# GNT2# REQ2#

GNT4# R343 8.2K-0402

RN104 4P2R-S-8.2K

CD-ROM CONNECTOR

4/10 del L49

4/10 siordy pull high to +3v

R498 4.7K-0402 SIORDY +3V

CDGND R473 *0-0402

CN24
OTK CDR-50DH2

[16] CDLINL
[16] CDGND
CDLINL
CDGND
RST_HDD0#
SDD7 SDD6 SDD5 SDD4 SDD3 SDD2 SDD1 SDD0
Shilding_GND
SDIOW#
SIORDY
IRQ15
SDA1
SDA0
SDCS1#
DVDLED#
CDLINR
Shilding_GND
SDD8 SDD9 SDD10 SDD11 SDD12 SDD13 SDD14 SDD15
SDDREQ
SDIOR#
Shilding_GND
SDDACK#
SDA2
SDCS3#
CDLINR [16]

[23] HDDLED#
D26 SOD-323
+5V
C745 *10U/16V-1206
R464 470-0402
CD_PSEL

C729 .1U-0402
C733 .1U-0402
C780 2.2U/6.3V
C730 47U/6.3V-1210

4/10 cn24 pin 41 connect to +5v

HDD CONNECTOR

150MIL

4/10 del L50

PIORDY R470 4.7K-0402 +3V
RST_HDD0# R123 47-0402 RST_HDD#

CN31
ACE-88076-0500

RST_HDD0#
PDD7 PDD6 PDD5 PDD4 PDD3 PDD2 PDD1 PDD0
Shilding_GND
PDDREQ PDIOW# PDIOR# PIORDY PDDACK# IRQ14
PDA1 PDA0 PDCS1#
PDD8 PDD9 PDD10 PDD11 PDD12 PDD13 PDD14 PDD15
PDA2 PDCS3#

PCSEL R471 470-0402
PDIAG R466 *10K-0402

[23] HDDLED#
D27 SOD-323
HDDLED# D
+5V
C747 1000P/50V-0402
C771 10U/16V-1206
C746 47U/6.3V-1210
C781 2.2U/6.3V
C748 .1U-0402

4/10 add 10u

R125 4.7K-0402
Q17 MMBT3904
R124 4.7K-0402
R121 4.7K-0402
Q16 MMBT3904
RST_HDD#
PCIRST#

3VSUS
R_PCIRST#
PCIRST#
PCIRST# [4,15,18,21]
U16 NC7SZ08P5X

C410 *10P/50V-0402
ICH_PCLK#
R344 *33-0402
PCLK_ICH

R135 10K-0402 RCIN#
R134 10K-0402 GATEA20
R73 10K-0402 FPBACK#
R67 10K-0402 CLKRUN#

[15] ICH_PME#
[8] PCLK_ICH
ICH_PME#
PCLK_ICH
R_PCIRST#
R342 22-0402
CLKRUN#
FPBACK#
[15,18] CLKRUN#
[25] FPBACK#
T105
GPIO17

PME# PCICLK PCIRST# CLKRUN#/GPIO24 GNTA#/GPIO16 GNTB#/GNT5#/GPIO17
W2 P5 U5 AC2 E8 C5

[2] FERR#
+VCCP
R110 56/F
R111 56/F
ICH4_FERR#

+3V +5V

ICH4_M

U11B

USB

GPIO32 GPIO33 GPIO34 GPIO35 GPIO36 GPIO37

USBP0P USBP0N OC0# USBP2P USBP2N OC2# USBP4P USBP4N OC4# CLK48

GPIO38 GPIO39 GPIO40 GPIO41 GPIO42 GPIO43

USBP1P USBP1N OC1# OC3P OC3N OC3# OC5P OC5N OC5# USBRBIAS USBRBIAS#

HUB LINK

HI0 HI1 HI2 HI3 HI4 HI5

HI6 HI7 HI8 HI9 HI10 HI11

LPC&FWH

LAD0/FWH0 LAD1/FWH1 LAD2/FWH2 LAD3/FWH3

LDRQ0# LDRQ1# LFRAME#/FWH4

AC97&RTC

AC_RST# AC_SYNC AC_SDIN0 AC_SDIN1 AC_SDIN2 AC_BITCLK

VBIAS RTCX1 RTCX2 VCCRTC RTCRST# AC_SDOUT

SM

SMBCLK SMBDATA

INTRUDER# SMBALERT#/GPIO11

PM

RI# THRM# PWROK BATLOW# PWRBTN# RSMRST# THRMTRIP# DPRSLPVR C3_STAT#/GPIO21 AGPBUSY#/GPIO6

SLP_S3# SLP_S4# SLP_S5# SUSCLK LAN_RST# SYS_RESET# SLP_S1#/GPIO19 STP_PCI#/GPIO18 STP_CPU#/GPIO20 SUS_STAT#/LPCPD#

MISC&GPIO

CLK14 SMLINK0 SMLINK1 SPKR GPIO7 GPIO8

GPIO12 GPIO13 GPIO25 GPIO27 GPIO28

SpeedStep

CPUPWRGD CPUPERF#/GPIO22 SSMUXSEL/GPIO23 VGATE/VRMPWRGD

LAN

EE_SHCLK EE_DOUT EE_DIN EE_CS

LAN_RXD0 LAN_RXD1 LAN_RXD2 LAN_TXD0 LAN_TXD1 LAN_TXD2 LAN_CLK LAN_RSTSYNC

ICH4-M

+VCCP [2,4,6,12,27,30]

3VSUS **40MIL**

RN11 4P2R-S-10K USBOC0A# USBOC4#

RN12 4P2R-S-10K USBOC1# USBOC5#

RN10 4P2R-S-10K USBOC3# USBOC2#

C132 .1U-0402 R98 *0-0402 +3V SUSA# SUSB# U14 7SH08 CLK_PWRDWN# [8]

C187 22P-0402 Z1601 R146 22-0402 CLK48_USB

[23] LID# R144 *0-0402

T124 RBAYID0 T40 RBAYID1 T125 SBT4 T123 BT_DETACH

T122 RBAYON#

[22] USBP0+ [22] USBP0- [22] USBOC0A# [24] PR_USBP2+ [24] PR_USBP2- [24] USBOC2# [24] PR_USBP4+ [24] PR_USBP4- [24] USBOC4# [8] CLK48_USB

USBOC0A# USBOC2# USBOC4# CLK48_USB

F23 RST_HDD# H22 RST_RBAY# G23 RST_LBAY# T37 T36

R143 10K-0402 +3V

GPIO41 R142 0-0402 LCDID0 LCDID0 [9,25]

GPIO42 R145 0-0402 LCDID1 LCDID1 [9,25]

R147 0-0402 LCDID2 [9,25]

A21 B21 C14 A19 B19 B14 A17 B17 D14 A23 B23

USBP1+ [22] USBP1- [22] USBOC1# [22] USBP3+ [22] USBP3- [22] USBOC3# USBP5+ [17] USBP5- [17] USBOC5# USBRBIAS R149 22.6/F

+1.5V R137 255/F-0402

HUBSWING_ICH R138 162/F-0402 C179 .1U-0402

HUBVREF_ICH C181 .1U-0402 R139 127/F-0402

HL0 HL1 HL2 HL3 HL4 HL5 [4] HL[0..10]

T20 R20 P23 L22 N22 K21 HL6 HL7 HL8 HL9 HL10 HL11 R153 56/F HL[0..10] HL[0..10] [4]

M23 R22 R23 HUBVREF_ICH HUBSWING_ICH ICH_RCOMP C182 .01U-0402 C180 .01U-0402 R148 48.7/F +1.5V

CLK66_ICH T21 [8] CLK66_ICH P21 [4] HLSTB N20 [4] HLSTB#

CLK66_ICH R136 *22-0402 CLK66_ICH-1 C178 *22P-0402

14M_ICH R141 *22-0402 14M_ICH-1 C186 *22P-0402

[18,21] LAD0/FWH0 [18,21] LAD1/FWH1 [18,21] LAD2/FWH2 [18,21] LAD3/FWH3

T2 R4 T4 U2

U3 U4 T5 LDRQ0# LDRQ1# LFRAME#/FWH4

LPC_DRQ0# LPC_DRQ1# LFRAME#/FWH4 [18,21]

[16,17] AC_RESET# [17] AC_SYNC [16] AC_SDIN0 [17] AC_SDIN1

AC_RESET# AC_SYNC R89 33-0402 AC_SYNC_1 AC_SDIN0 AC_SDIN1

C13 C9 D13 A13

[17] AC_BITCLK AC_BITCLK R80 T119 22-0402 SBT8 B13 B8

Y6 AC7 AC6 AB5 W7 D9 VBIAS CLK_32KX1 CLK_32KX2 VCCRTC RTCRST# AC_SDO

C86 .1U-0402 R88 33-0402 AC_SDOUT [16]

R79 10M-0402 Y1 32.768KHZ C87 12P-0402 C110 15P-0402

CGCLK_SMB AC4 CGDAT_SMB AB4

W6 AA5 INTRUDER# SMBALERT# R93 10K-0402 VCCRTC

4/10 change rsmrst ckt

3V_S5 R96 100K-0402 3V_S5 C772 .1U-0402 U37 VCC A B Y GND 0RGND NC7SZ58 RSMRST# -RSMRST

[21] S5_ON D15 RB500 C773 .1U-0402

[18,24] RI1# [4,21] PWROK [21] DNBSWON# T101 +VCCP R112 56/F R103 56/F [2] THERMTRIP#

RI1# ICH_THRM# PWROK BALOW# DNBSWON# RSMRST# THERMTRIP#1 Y1 V1 AB6 AB2 AA1 AA6 W20

[30] DPRSLPVR [9] STP_AGP# [4,9] AGP_BUSY# V20 T3 R2

Y4 Y2 AA2 AA4 Y5 Y3 W18 Y21 W19 AB3

SUSB# SUSC# SUS_STAT# SUSCLK LAN_RST# SYS_RST# SUSA# STP_PCI# STP_CPU# LPC_PD#

SUSB# [21] SUSC# [21] T8 SUSCLK [4] R82 10K-0402 R70 *0-0402 DBR# [2]

SUSA# [18] STP_PCI# [8] STP_CPU# [8] LPC_PD# [9]

RTC **20mil**

VCCRTC VCCRTC [21] 3VPCU D13 RB500 R51 1K-0402 C72 1U/10V G2 SHORT_PAD1 G1 SHORT_PAD1 CN14 BATCON D11 RB500 D_3VRTC R50 RTCRST# 15K-0402 C70 2.2U/6.3V

R43 1K-0402 R_3VRTC C61 .047U-0402 VBIAS R44 CLK_32KX1 10M-0402

3VRTC Q12 MBT3904 RTC_N01 R48 3K-0402 5VPCU R46 4.7K-0402 RTC_N02 R47 15K-0402

CHANGE PIN DEFINE

[8] 14M_ICH [7,8] CGCLK_SMB [7,8] CGDAT_SMB [17] PCSPK [24,25] CRT_SENSE# [21] KBSMI# 3V_S5 R90 10K-0402

14M_ICH CGCLK_SMB CGDAT_SMB PCSPK CRT_SENSE# KBSMI# J23 AC3 AB1 H23 R3 V4

[2] CPUPWRGD +VCCP T35 [30] IMVP_PWG R122 82K/F-0402 CPUPWRGD CPUPERF# SBT9 Y23 Y20 J21 V19

T118 T15 T116 T112 SBT10 SBT12 SBT14 SBT16 C12 A8 D11 D10

A10 A9 A11 B10 C10 A12 C11 B11 SBT11 SBT13 SBT15 SBT17 SBT18 SBT19 SBT20 LAN_RSTSYNC T19 T18 T21 T113 T114 T23 T115

R52 R83 R85 R86 R68 R69 10K-0402 SYS_RST# CGCLK_SMB CGDAT_SMB SMBALERT# RI1# BALOW#

R87 100K-0402 PWROK

V5 W3 SWI# 1 SCI# 1 R92 10K-0402 R91 10K-0402 3V_S5 D14 1SS355 D16 1SS355 SWI# [21] SCI# [21]

V2 W1 W4 BT_WAKE EMAIL_LED# SPKOFF# T7 EMAIL_LED# [23] SPKOFF# [17]

LPC_DRQ1# R54 *10K-0402 +3V

ICH_THRM# R53 82K/F-0402 +3V

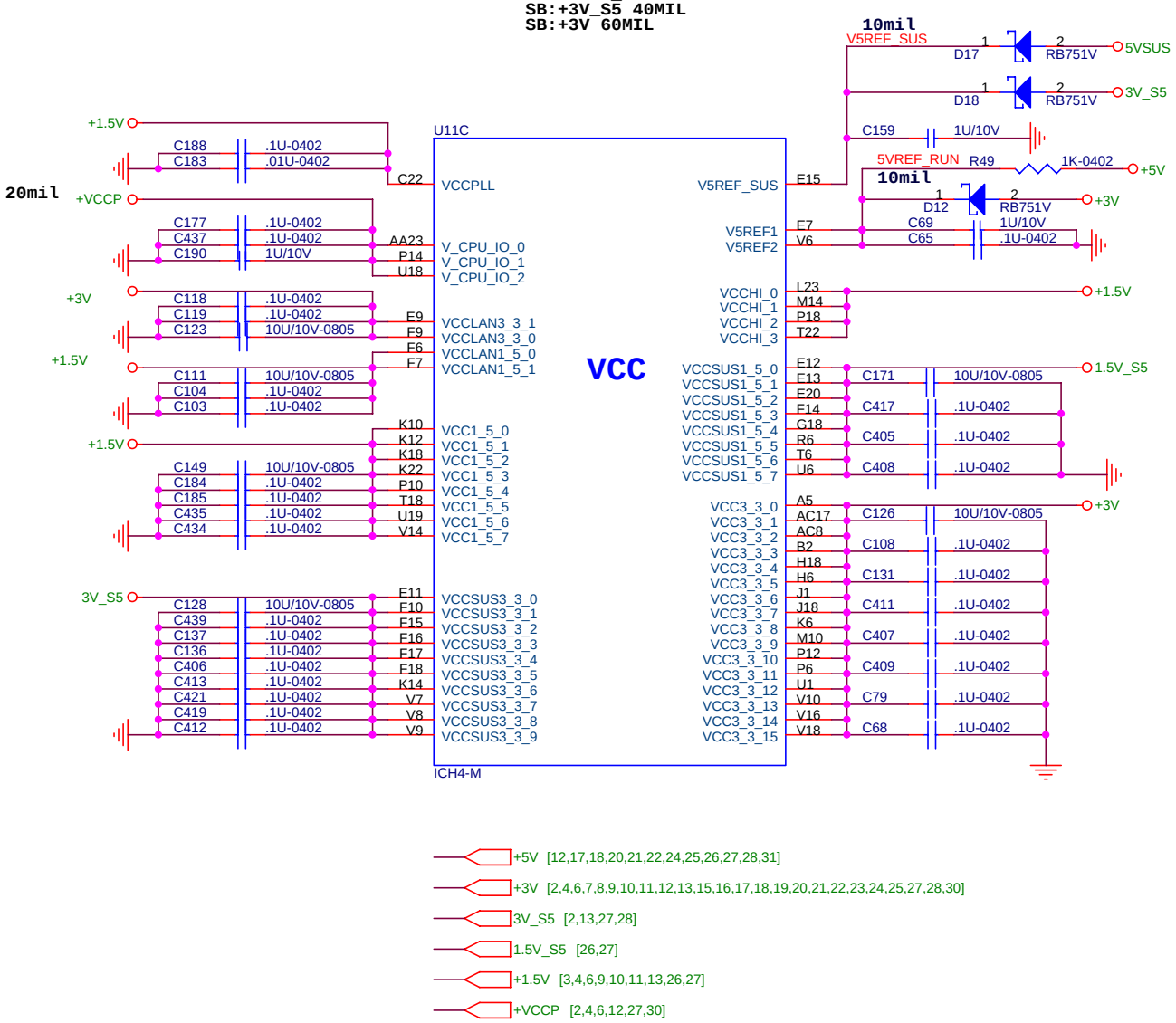
LAN_RSTSYNC R81 4.7K/F-0402

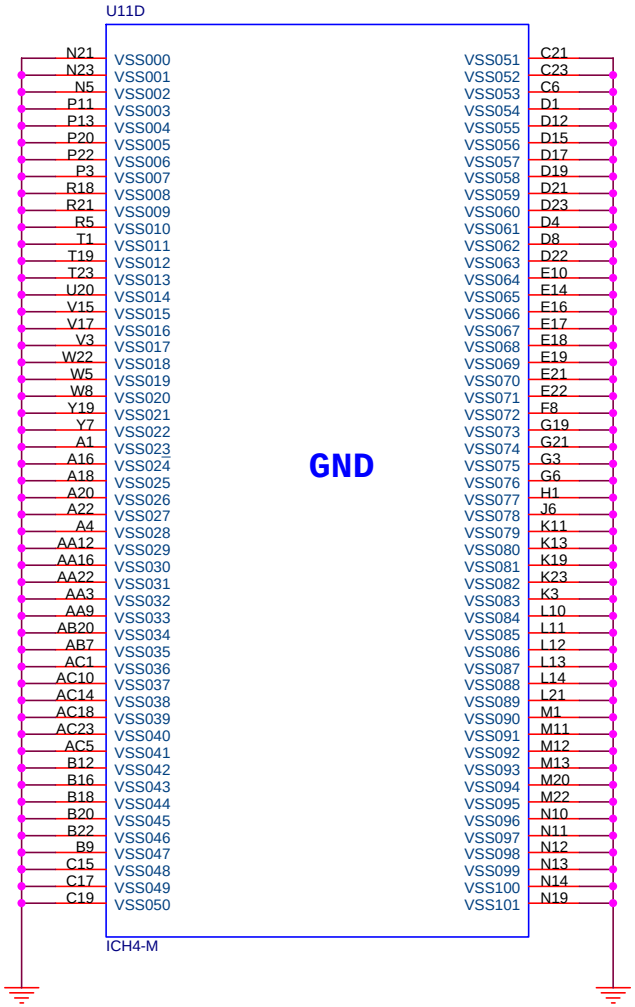
PROJECT : ZA1

Quanta Computer Inc.

Size	Document Number	Rev
Custom	ICH4-M (USB,HUB,LPC)-2	1A
Date: Thursday, June 17, 2004	Sheet 13 of 31	

SB:+1.5V 40MIL
SB:+1.5V_S5 40MIL
SB:+3V_S5 40MIL
SB:+3V 60MIL





+5V [12,17,18,20,21,22,24,25,26,27,28,31]

+3V [2,4,6,7,8,9,10,11,12,13,15,16,17,18,19,20,21,22,23,24,25,27,28,30]

3V_S5 [2,13,27,28]

1.5V_S5 [26,27]

+1.5V [3,4,6,9,10,11,13,26,27]

+VCCP [2,4,6,12,27,30]

PROJECT : ZA1

Quanta Computer Inc.

Size	Document Number	Rev
Custom	ICH4-M (POWER&GND)	1A
Date: Thursday, June 17, 2004	Sheet 14 of 31	

LAN (Boardcom BCM5705M)

ID Select	: AD18
Interrupt Pin	: PIRQB#
Request indicates	: REQ0#
Grant indicates	: GNT0#

15mm x 15mm BGA196

BCM5788M

RJ11

RJ45

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

DB00A2LAN01(24ST0023P) is for 10/100
DB00A2LAN10(GS5019P) is for giga

10/23:Change L13 from TB160808G601 to TB160808B601(Stock issue)

10/23:Change L12 from TB160808G601 to TB160808B601(Stock issue)

10/23:Change L14 from TB160808G601 to TB160808B601(Stock issue)

08/27:(10)For RDAC, use 1.27K 1% for 4401, 1.24K 1% for BCM5705

10/22:Change U26 P/N from AKE3B1NKE05 to AKE3N8BKA04(AT24C128-10TI-2.7)

4/10:If use CLKRUN#,mount R128
If not use CLKRUN#,mount R127

add for 5705M 4/15

add for 5705M 4/15

1.5" AWAY FROM CHIP
Use Philips BCP69-16, hfe=75~275

ok

Size: Custom	Document Number: LAN (Boardcom BCM5788M) & RJ45,RJ11		Rev: 1A
Date: Thursday, June 17, 2004		Sheet 15 of 31	

PROJECT : ZA1
Quanta Computer Inc.

AC97 CODEC

1A not stuff

change to FBMJ2125HM330_T-0805

4/10 add 22u

External Clock	ID1	ID0
48MHz	X	low
14.318MHz	low	x
24.576MHz	x	x

ALC202

4/10 change r252,r251 from 1k to 300

change value to 330

U23 ALC202

SEL	FUNCTION
LOW	IN_B0
HIGH	IN_B1

modify 5/19

1/10 change net

change value to 100k

REMOVE D20

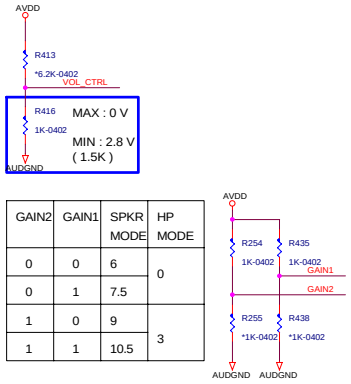
Spec Change 10/02

PROJECT : ZA1

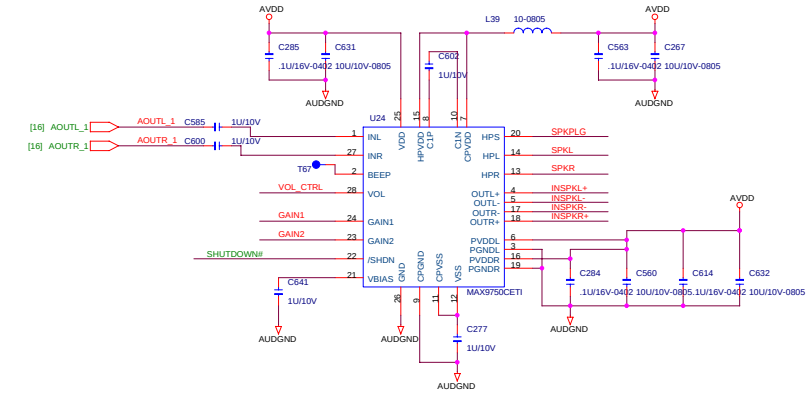
Quanta Computer Inc.

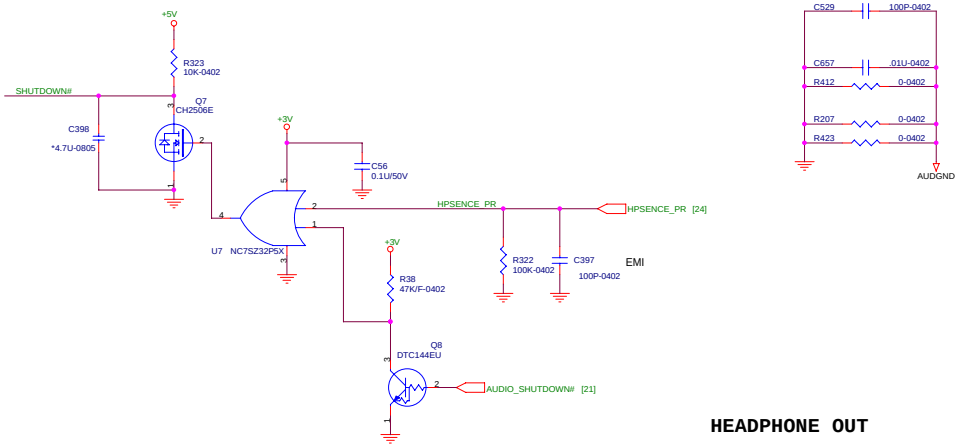
Size	Document Number	Rev
Custom	AC97 CODEC	1A

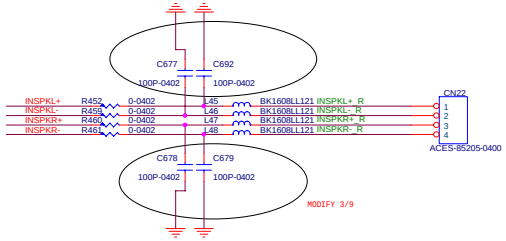
Date: Thursday, June 17, 2004 Sheet 16 of 31

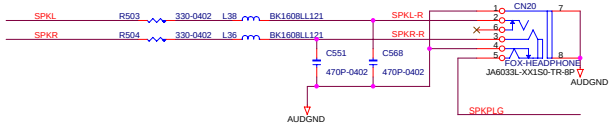


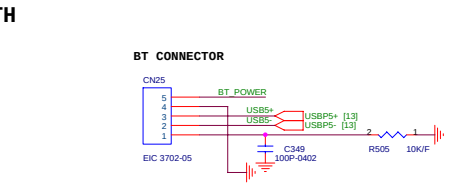
GAIN2	GAIN1	SPKR MODE	HP MODE
0	0	6	0
0	1	7.5	
1	0	9	3
1	1	10.5	

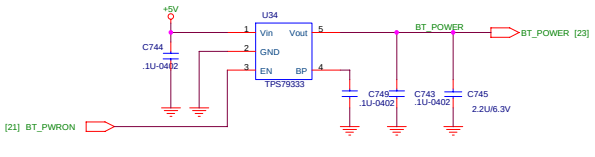




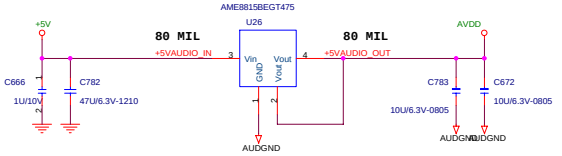




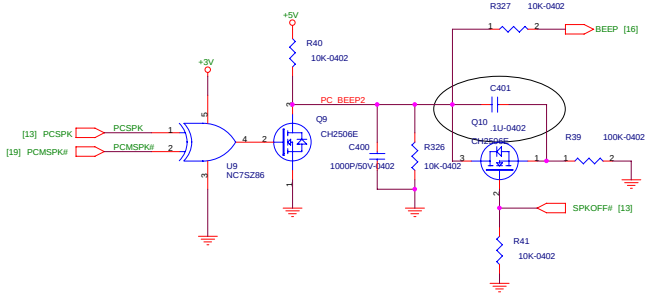




AUDIO POWER

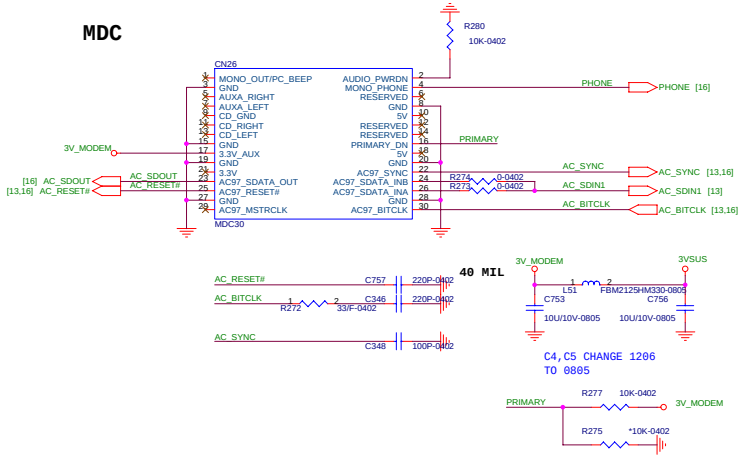


AUDIO BEEP



HEADPHONE OUT

MDC



BLUETOOTH

BT CONNECTOR

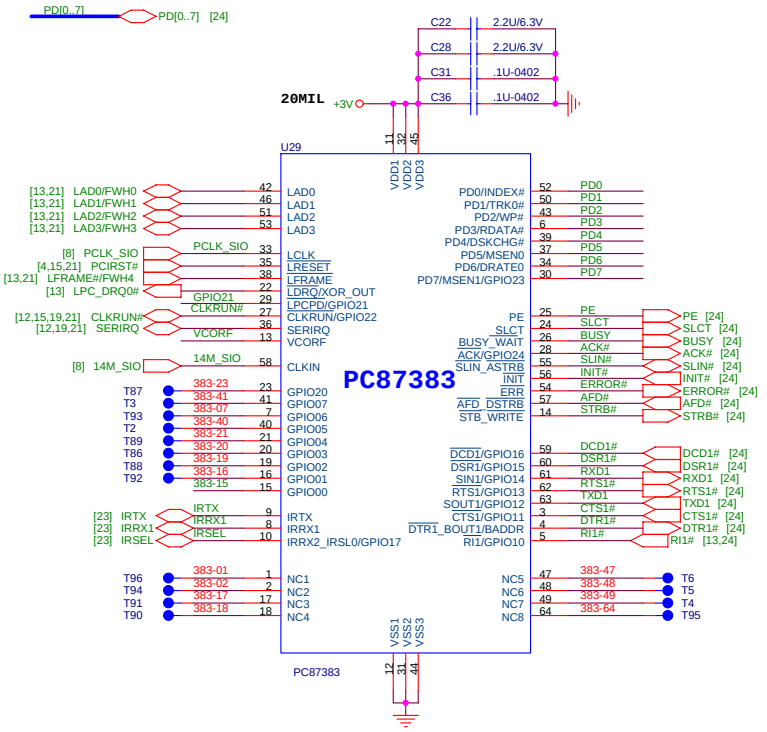
PROJECT : ZA1

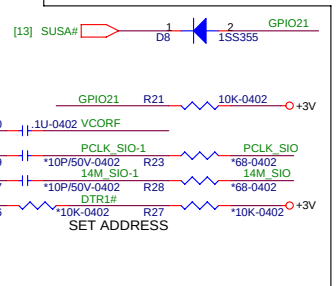
Quanta Computer Inc.

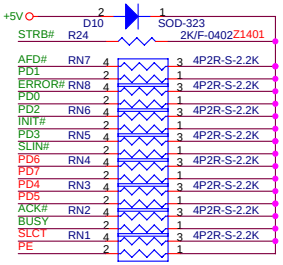
Size	Document Number	Rev
A2	AUDIO AMP,MDC,PWR & BEEP	1A

Date: Thursday, June 17, 2004 Sheet 17 of 31

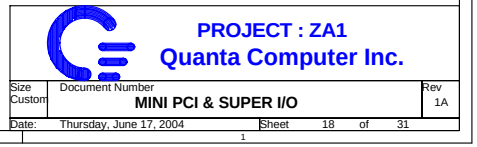
Super I/O







TYPE III MINI PCI SOCKET



CARDBUS/1394

```
ID Select          : AD22
Interrupt Pin      : PIRQ B,C#
Request indicates  : REQ2#
Grant indicates    : GNT2#
```

U17B — PCI4510

PCI INTERFACE

PCI/1394_OHCI PORTION

PHY PORT0

PHY PORT1

CN5 — FOX_UV31413-K1

U33 — NM24C02

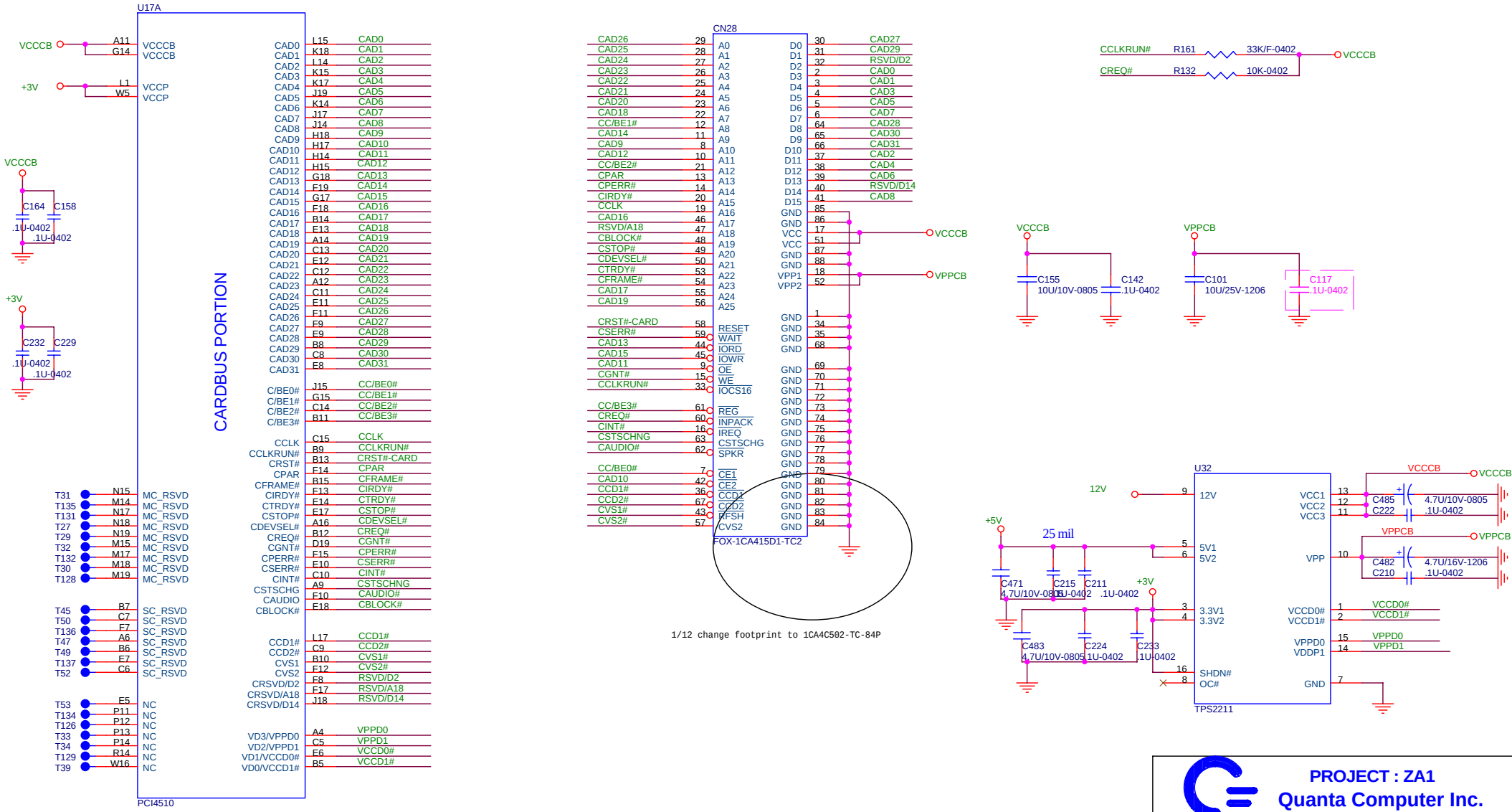
60MIL

PROJECT : ZA1

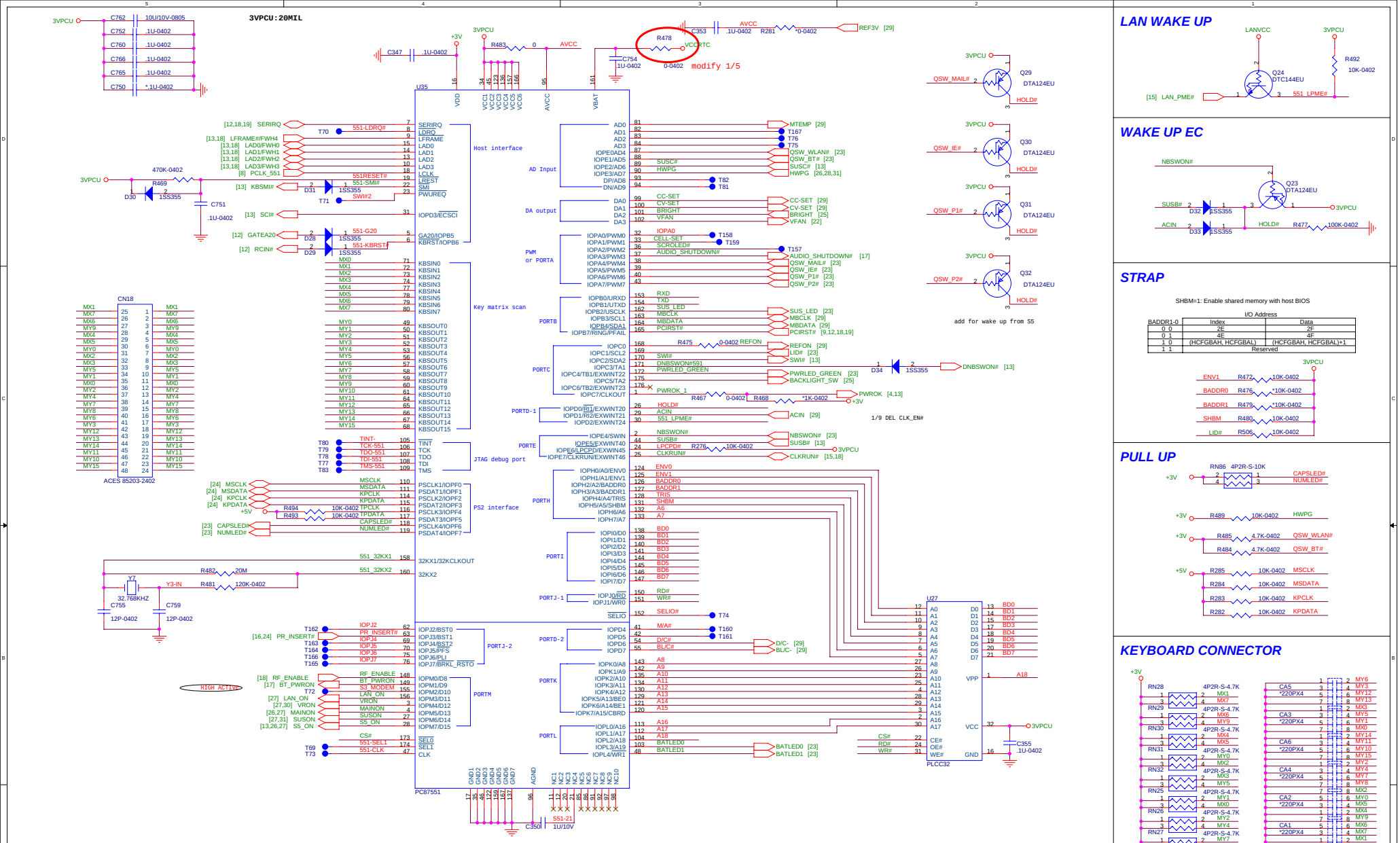
Quanta Computer Inc.

Size	Document Number	Rev
B	TI-PCI4510-1394	1A

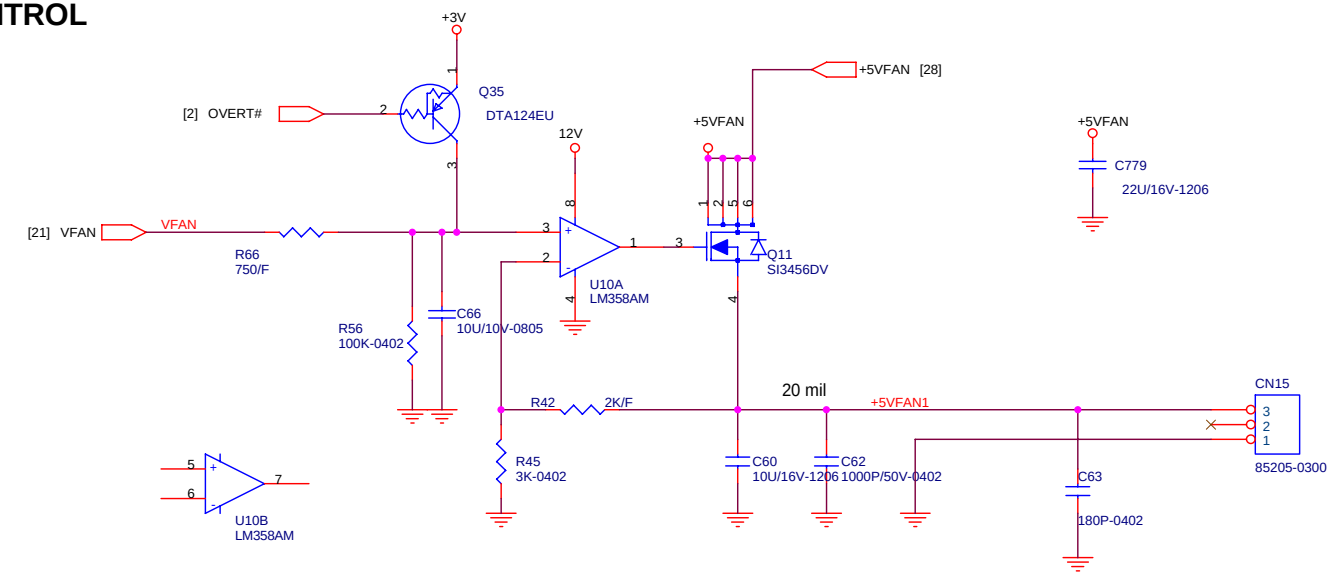
Date: Thursday, June 17, 2004 Sheet 19 of 31



PROJECT : ZA1		
Quanta Computer Inc.		
Size: B	Document Number: TI-PCI4510-1394	Rev: 1A
Date: Thursday, June 17, 2004	Sheet 20 of 31	

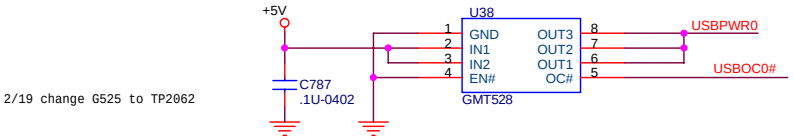

3VPCU:20MIL
U35
PC87551
Host interface
AD Input
DA output
PWM or PORTA
PORTB
PORTC
PORTD-1
PORTE
Key matrix scan
JTAG debug port
PS2 interface
PORTH
PORTI
PORTJ-1
PORTD-2
PORTJ-2
PORTK
PORTM
PORTL
modify 1/5
add for wake up from S5
1/9 DEL CLK_EN#
HIGH ACTIVE
CN18
ACES 85203-2402
Y7
32.768KHZ
U27
PLCC32
551 EEPROM
U36
NM24C08
CN27
*87551-TEST-CON(53261-0490)
TOUCHPAD CONNECTOR
TP_VCC TRACE : 12 mil
CN19
ACES 85203-0402
LAN WAKE UP
WAKE UP EC
STRAP
SHBM=1: Enable shared memory with host BIOS
I/O Address
BADDR1-0 | Index | Data
0 0 | 2E | 2F
0 1 | 4E | 4F
1 0 | (HCFGBAH, HCFGBAL) | (HCFGBAH, HCFGBAL)+1
1 1 | Reserved
PULL UP
KEYBOARD CONNECTOR
PROJECT : ZA1
Quanta Computer Inc.
Size C
Document Number PC87551 & FLASH
Rev 1A
Date: Thursday, June 17, 2004
Sheet 21 of 31

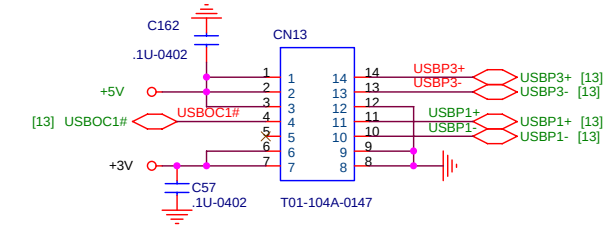
FAN CONTROL

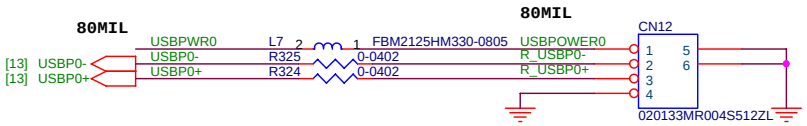


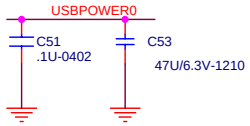
USB LIFT

USB RIGHT









PROJECT : ZA1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	LAN, FAN CONN & USB POWER	1A
Date: Thursday, June 17, 2004	Sheet 22 of 31	

CPU THERMAL NUT

HOLE13 H-C236D150P2
HOLE14 H-C236D150P2
HOLE20 H-C236D150P2
HOLE16 H-C236D150P2
HOLE17 H-C236D150P2
HOLE21 H-C236D150P2

VGA THERMAL NUT

CD ROM NUT

HOLE23 H-TC236BC315D150P2
HOLE27 *H-C355D106I276P2

EZPORT NUT

HOLE4 *H-C355D106I276P2
HOLE2 *H-C355D106I276P2

HOLE26 *H-C355D106I315P2
HOLE22 *H-C355D106I276P2
AUDGND
HOLE11 *H-C355D106I276P2
HOLE15 *H-C236D150P2
HOLE7 *H-C236D150P2
HOLE12 *H-C236D150P2
HOLE10 *H-C236D118P2
HOLE9 *H-C355D106I276P2
HOLE19 *H-C315D106P2
HOLE18 *H-C355D106I315P2
HOLE8 *H-C355D106I276P2

HOLE6 *H-C236D110P2
HOLE5 *H-C276D110I236P2
HOLE24 *H-C236D150P2

SP

SP3 1 2 3 4 5 6 SPT
SP2 1 2 3 4 5 6 SPT
SP1 1 2 3 4 5 6 SPT

MDC NUT

HOLE25 *H-C236D150P2

CRT NUT

HOLE3 *H-C355D106I276P2
HOLE1 *H-C355D106I276P2

EMI

5VSUS
C295 C160 C296 C156 C157 .1U-0402
+3V
C64 C88 C130 C77 .1U-0402
5VPCU
C161 C105 C148 C138 .1U-0402
3VPCU
C116 C354 C113 C106 C193 .1U-0402

P23 EMIPAD158X87 AUDGND AUDIO
P10 EMIPAD98X177 USB

+1.25V
C735 C712 .1U-0402
2.5VSUS
C593 .1U-0402

3VPCU
C761 C764 .1U-0402
3VSUS
C189 C758 .1U-0402
5VPCU
C133 .1U-0402

P9 P6 P17 P19 P8 P21 P26 P20 P5 P18 P31 P33 P13 P32 P14 EMIPAD158X87
P27 EMIPAD98X177
P24 P22 P2 P34 P12 P28 P30 P15 P16 P29 P4 P1 P3 P7 EMIPAD158X87
P25 EMIPAD98X177
P11 EMIPAD158X87
AUDGND
AUDGND GND_LAN_CHASIS LAN

BATTERY LED:
1.GREEN: ACIN
2.ORANGE: CHARGE
3.RED: BATT LOW

[21] BATLED1 BATLED1 BATLED0 [21] [21] SUS_LED PWRLED_GREEN [21]
LED3 AMBER BAT1 R289 1.5K-0402
LED1 GREEN BAT0 R289 330-0402

POWER BOTTON AND LAMP
1.GREEN: POWERON
2.ORANGE : SUSPEND

LED4 AMBER SUS_LED1 R285 1.5K-0402
LED2 GREEN R287 150-0402

POWER AND LED BOARD CONN

CN16 ACES 88203-1800
+3V [21] NBSWON# NBSWON#
3VPCU [21] CAPSLED# CAPSLED# [21] NUMLED# NUMLED# [12] HDDLED# HDD_LED#
+3V LID# LID# [13,21,25]
3VPCU QSW_P1# QSW_P1# [21] QSW_P2# QSW_P2# [21] QSW_MAIL# QSW_MAIL# [21]
EMAIL_LED# EMAIL_LED# [13]
QSW_IE# QSW_IE# [21]

3VPCU R474 10K-0402 NBSWON# SW1

BT,WLAN AND IR

ORANGE

+3V LED5 AMBER R290 1K WIRELESS_LED# WIRELESS_LED# [18]

P35 EMIPAD98X177 P36 EMIPAD98X177

BLUE

[17] BT_POWER BT_POWER LED6 BLUE R292 330

WLAN

[21] QSW_WLAN# QSW_WLAN# SW2 HCH-PTS-05

BT

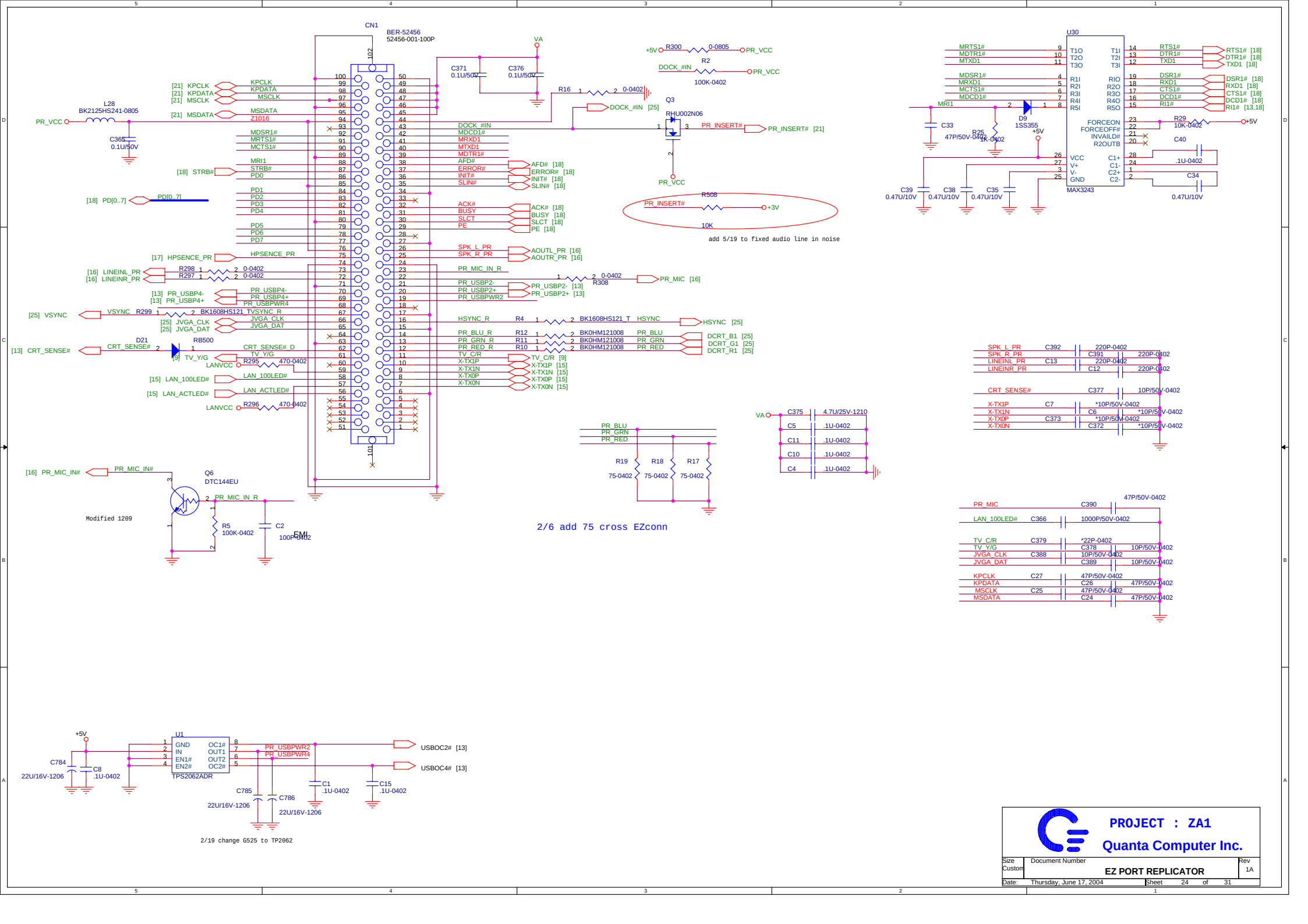
[21] QSW_BT# QSW_BT# SW3 HCH-PTS-05

+3V R291 2-0805 VCC_LED
C356 10U/10V-0805
U28 TFDU6102
[18] IRTX IRTX R496 22 TXD
[18] IRRX1 IRRX1 R497 22 RXD
T85
TXD RXD FIR_SELMOD
LED_C T84
[18] IRSEL IRSEL SD/MODE
LEAD GND VCC
+3V R495 0-0805 VCC_IC
C767 10U/10V-0805
C769 .1U-0402
C768 1000P/50V-0402

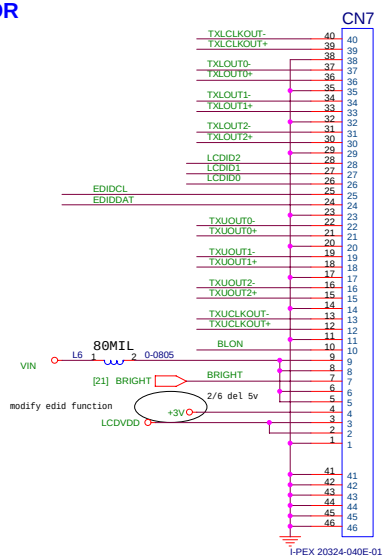
40mil: Power/ GND
35mil: VCC_LED, VCC_IC, GND_IC
10mil: TXD, RXD, IRSEL, IRTX, IRRX1

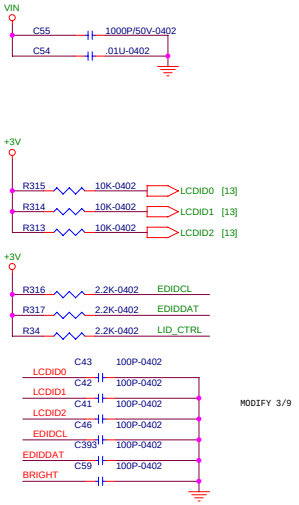
PROJECT : ZA1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	LED BOARD/EMI PAD/SKEW	1A
Date: Wednesday, June 16, 2004	Sheet 23 of 31	

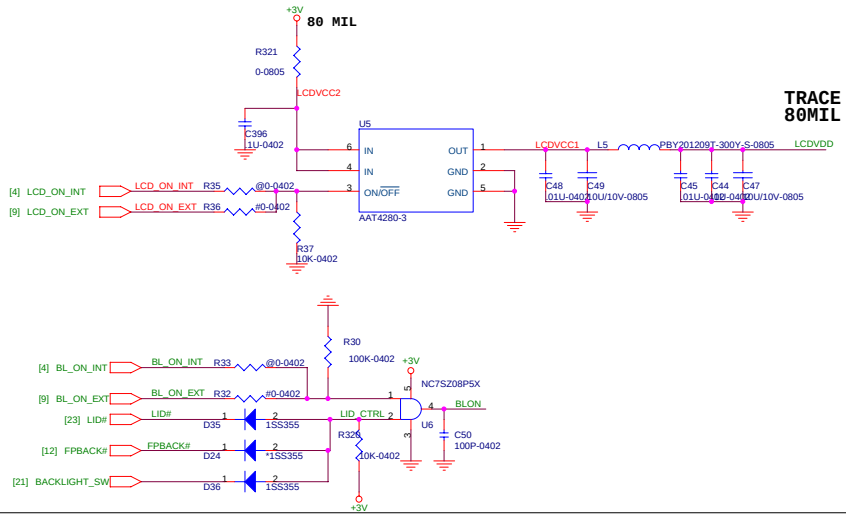

CN1
BER-52456
52456-001-100P
L28
BK2125HS241-0805
PR_VCC
C365
0.1U/50V
[21] KPCLK
[21] KPDATA
[21] MSCLK
[21] MSDATA
KPCLK
KPDATA
MSCLK
Z1016
MDSR1#
MRTS1#
MCTS1#
MRI1
STRB#
PD0
PD1
PD2
PD3
PD4
PD5
PD6
PD7
[18] STRB#
[18] PD[0..7]
PD[0..7]
[17] HPSENCE_PR
HPSENCE_PR
[16] LINEINL_PR
[16] LINEINR_PR
R298 0-0402
R297 0-0402
[13] PR_USBP4-
[13] PR_USBP4+
PR_USBP4-
PR_USBP4+
PR_USBPWR4
[25] VSYNC
VSYNC_R299
BK1608HS121
TVSYNC_R
[25] JVGA_CLK
[25] JVGA_DAT
JVGA_CLK
JVGA_DAT
[13] CRT_SENSE#
D21
CRT_SENSE#
RB500
CRT_SENSE# D
[9] TV_Y/G
TV_Y/G
LANVCC
R295 470-0402
[15] LAN_100LED#
LAN_100LED#
[15] LAN_ACTLED#
LAN_ACTLED#
R296 470-0402
VA
C371 0.1U/50V
C376 0.1U/50V
R16 0-0402
DOCK_#IN
[25] DOCK_#IN
Q3
RHU002N06
PR_INSERT#
PR_INSERT# [21]
PR_VCC
R508
10K
+3V
DOCK_#IN
MDCD1#
MRXD1
MTXD1
MDTR1#
AFD#
ERROR#
INIT#
SLIN#
AFD# [18]
ERROR# [18]
INIT# [18]
SLIN# [18]
ACK#
BUSY
SLCT
PE
ACK# [18]
BUSY [18]
SLCT [18]
PE [18]
SPK_L_PR
SPK_R_PR
AOUTL_PR [16]
AOUTR_PR [16]
PR_MIC_IN_R
PR_USBP2-
PR_USBP2+
PR_USBPWR2
PR_USBP2- [13]
PR_USBP2+ [13]
R308 0-0402
PR_MIC [16]
HSYNC_R
R4 BK1608HS121_T
HSYNC
HSYNC [25]
PR_BLU_R
PR_GRN_R
PR_RED_R
R12 BK0HM121008 PR_BLU
R11 BK0HM121008 PR_GRN
R10 BK0HM121008 PR_RED
DCRT_B1 [25]
DCRT_G1 [25]
DCRT_R1 [25]
TV_C/R
X-TX1P
X-TX1N
X-TX0P
X-TX0N
TV_C/R [9]
X-TX1P [15]
X-TX1N [15]
X-TX0P [15]
X-TX0N [15]
add 5/19 to fixed audio line in noise
U30
MAX3243
MRTS1#
MDTR1#
MTXD1
MDSR1#
MRXD1
MCTS1#
MDCD1#
RTS1# [18]
DTR1# [18]
TXD1 [18]
DSR1# [18]
RXD1 [18]
CTS1# [18]
DCD1# [18]
RI1# [13,18]
MRI1
D9 1SS355
C33 47P/50V-0402
R25 1K-0402
FORCEON
FORCEOFF#
INVAILD#
R2OUTB
R29 10K-0402
C40 .1U-0402
C34 0.47U/10V
C39 0.47U/10V
C38 0.47U/10V
C35 0.47U/10V
[16] PR_MIC_IN#
PR_MIC_IN#
Q6
DTC144EU
PR_MIC_IN_R
R5 100K-0402
C2 100P-0402
EMI
Modified 1209
PR_BLU
PR_GRN
PR_RED
R19 75-0402
R18 75-0402
R17 75-0402
2/6 add 75 cross EZconn
VA
C375 4.7U/25V-1210
C5 .1U-0402
C11 .1U-0402
C10 .1U-0402
C4 .1U-0402
SPK_L_PR C392 220P-0402
SPK_R_PR C391 220P-0402
LINEINL_PR C13 220P-0402
LINEINR_PR C12 220P-0402
CRT_SENSE# C377 10P/50V-0402
X-TX1P C7 *10P/50V-0402
X-TX1N C6 *10P/50V-0402
X-TX0P C373 *10P/50V-0402
X-TX0N C372 *10P/50V-0402
PR_MIC C390 47P/50V-0402
LAN_100LED# C366 1000P/50V-0402
TV_C/R C379 *22P-0402
TV_Y/G C378 10P/50V-0402
JVGA_CLK C388 10P/50V-0402
JVGA_DAT C389 10P/50V-0402
KPCLK C27 47P/50V-0402
KPDATA C26 47P/50V-0402
MSCLK C25 47P/50V-0402
MSDATA C24 47P/50V-0402
+5V
U1
TPS2062ADR
GND
IN
EN1#
EN2#
OC1#
OUT1
OUT2
OC2#
C784 22U/16V-1206
C8 .1U-0402
PR_USBPWR2
PR_USBPWR4
USBOC2# [13]
USBOC4# [13]
C785 22U/16V-1206
C786 22U/16V-1206
C1 .1U-0402
C15 .1U-0402
2/19 change G525 to TP2062
PROJECT : ZA1
Quanta Computer Inc.
Size Custom
Document Number
EZ PORT REPLICATOR
Rev 1A
Date: Thursday, June 17, 2004
Sheet 24 of 31

PANEL CONNECTOR

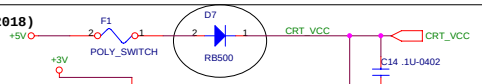




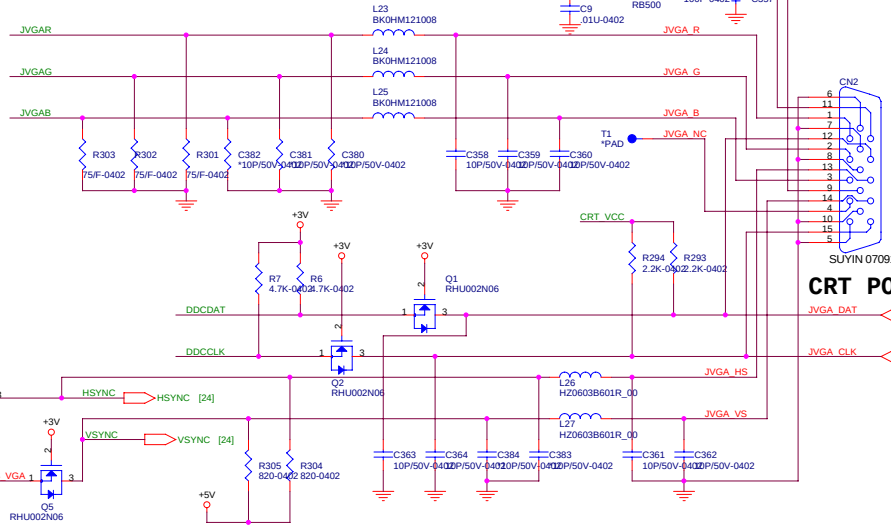
PANEL VCC CONTROL



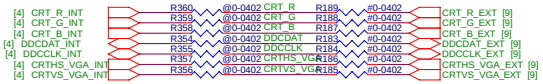
POSISTOR 1.1A,0.15 (SMD100-2018)



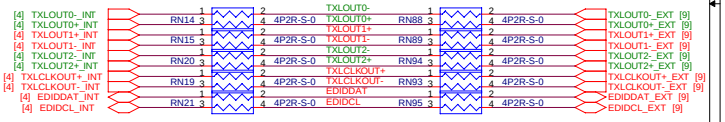
PANEL ID

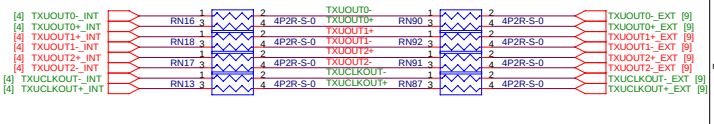


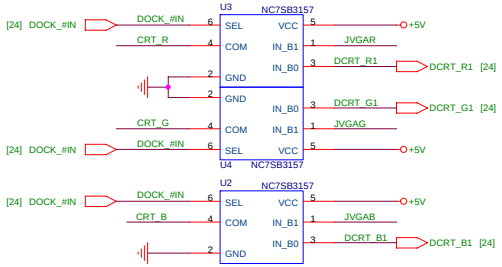
CRT PORT



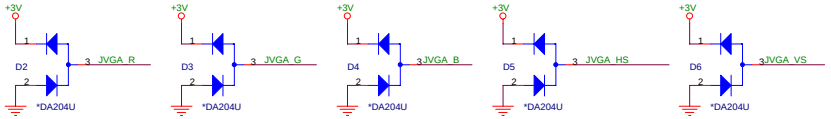
@:INTERAL VGA
#:EXTENTAL VGA

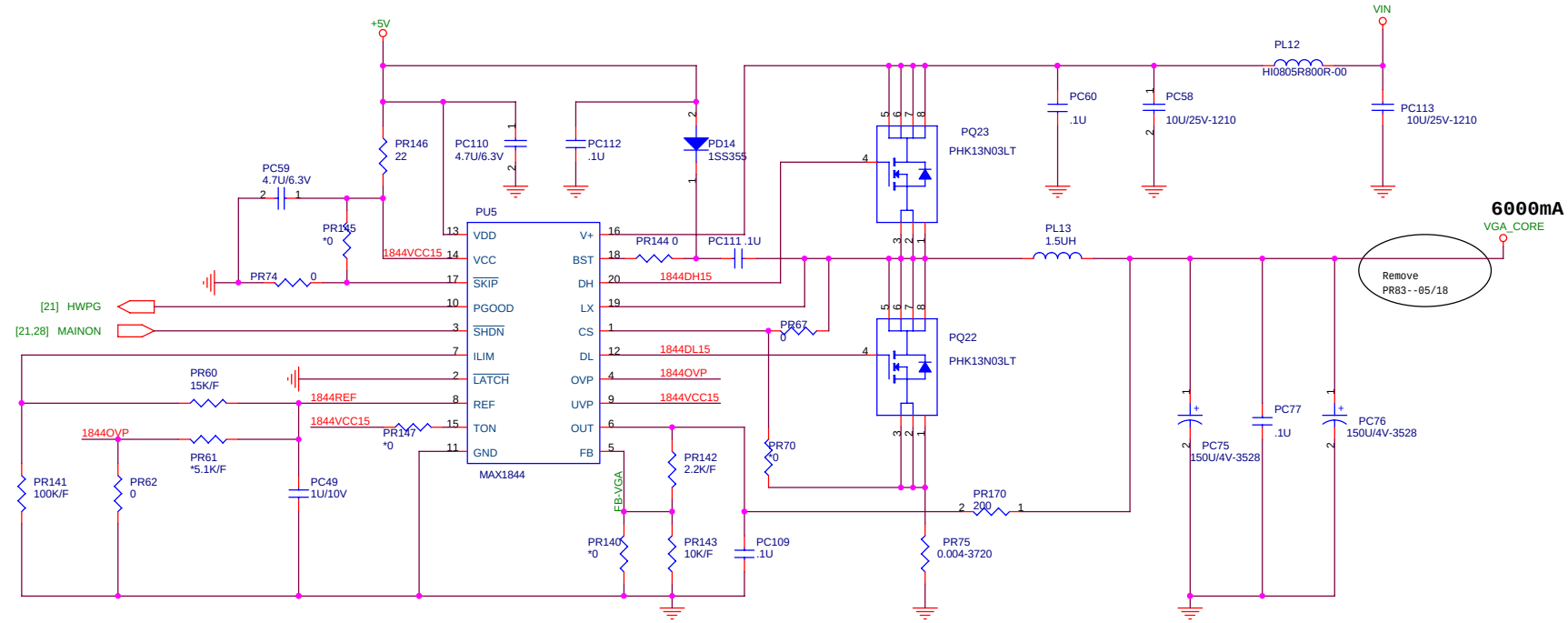


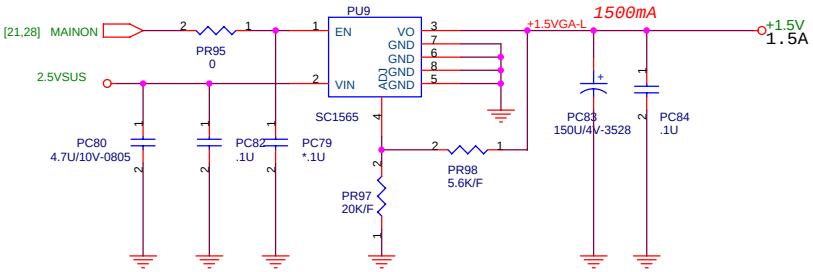


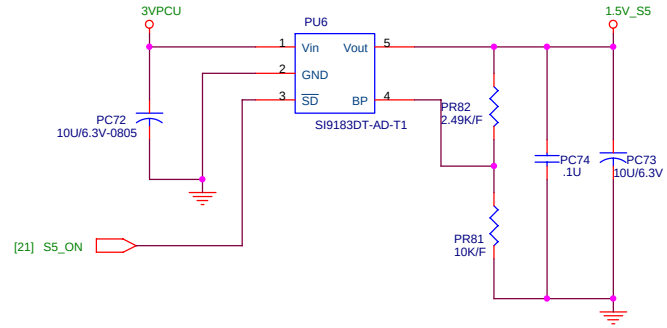


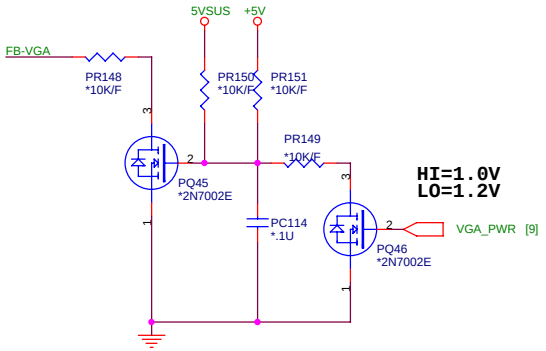
CRT OUT







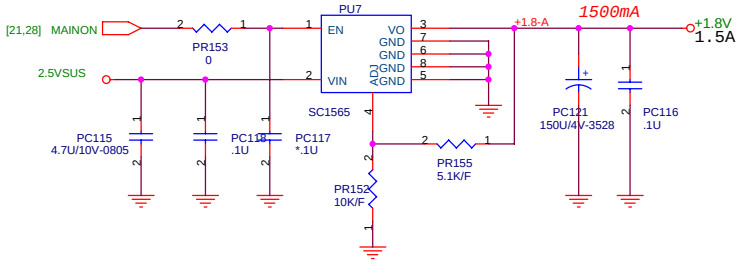


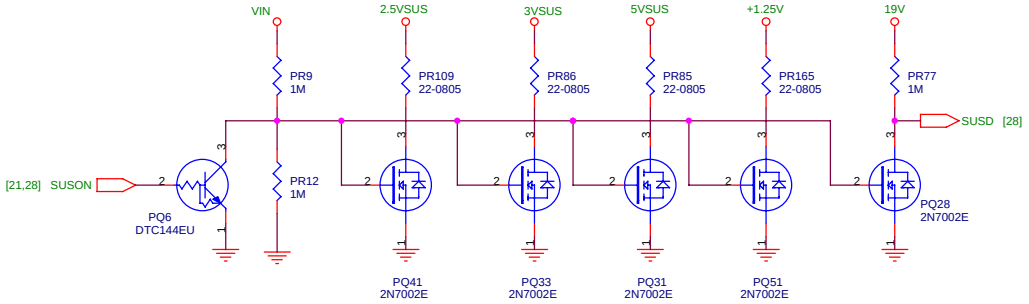


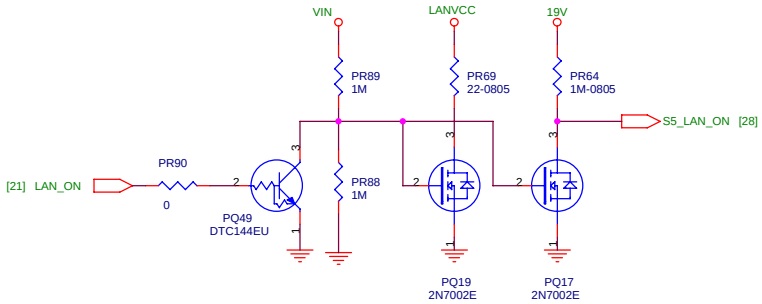
PROJECT : ZA1

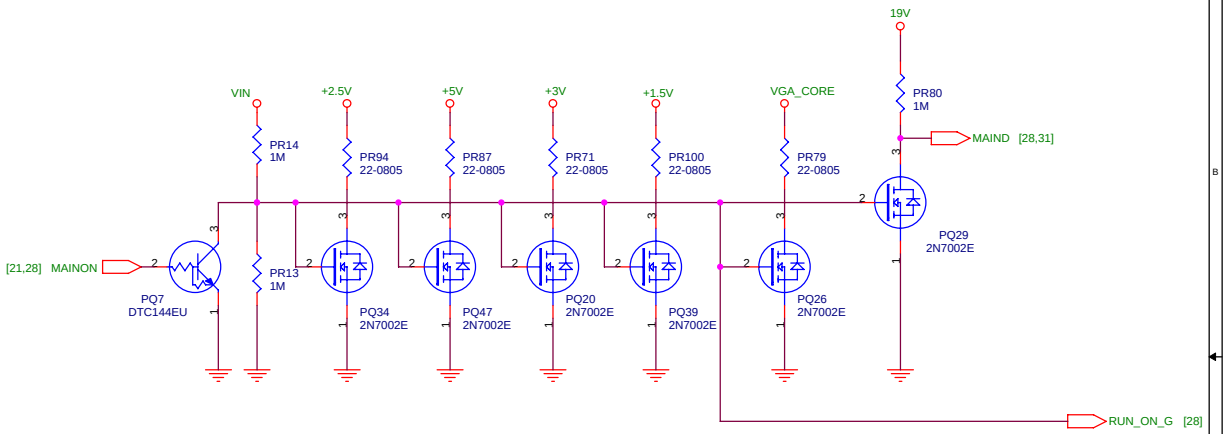
Quanta Computer Inc.

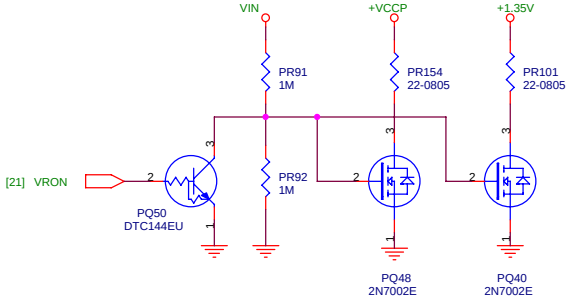
Size	Document Number	Rev
A3	VGA-1.25V+1.2SB & 1.8VGA	1A
Date: Thursday, June 17, 2004	Sheet 26 of 31	

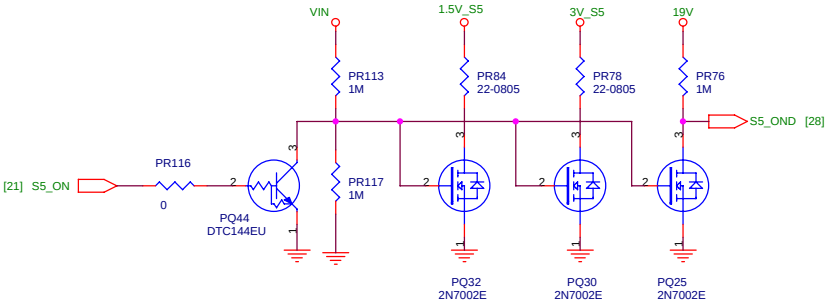






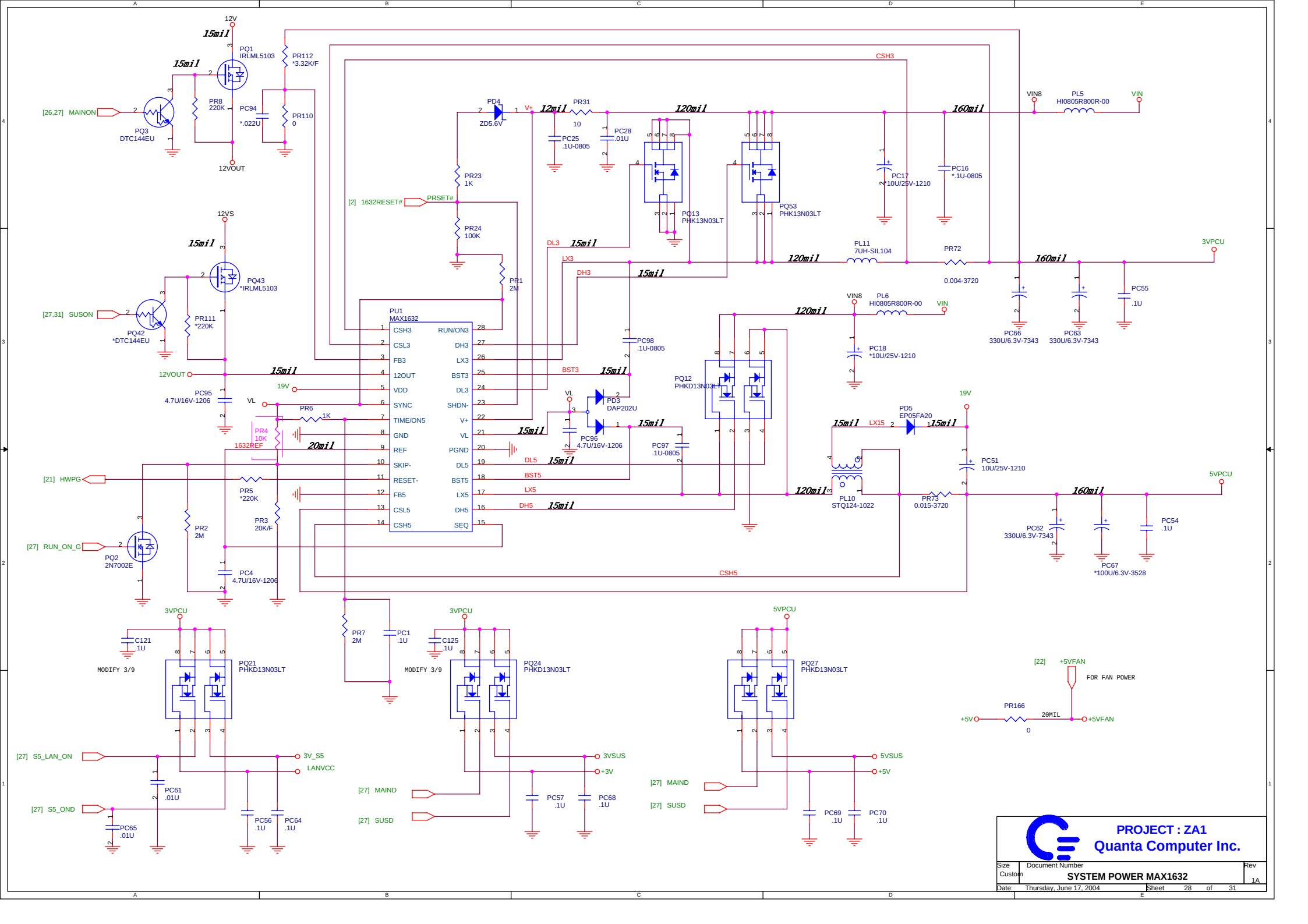






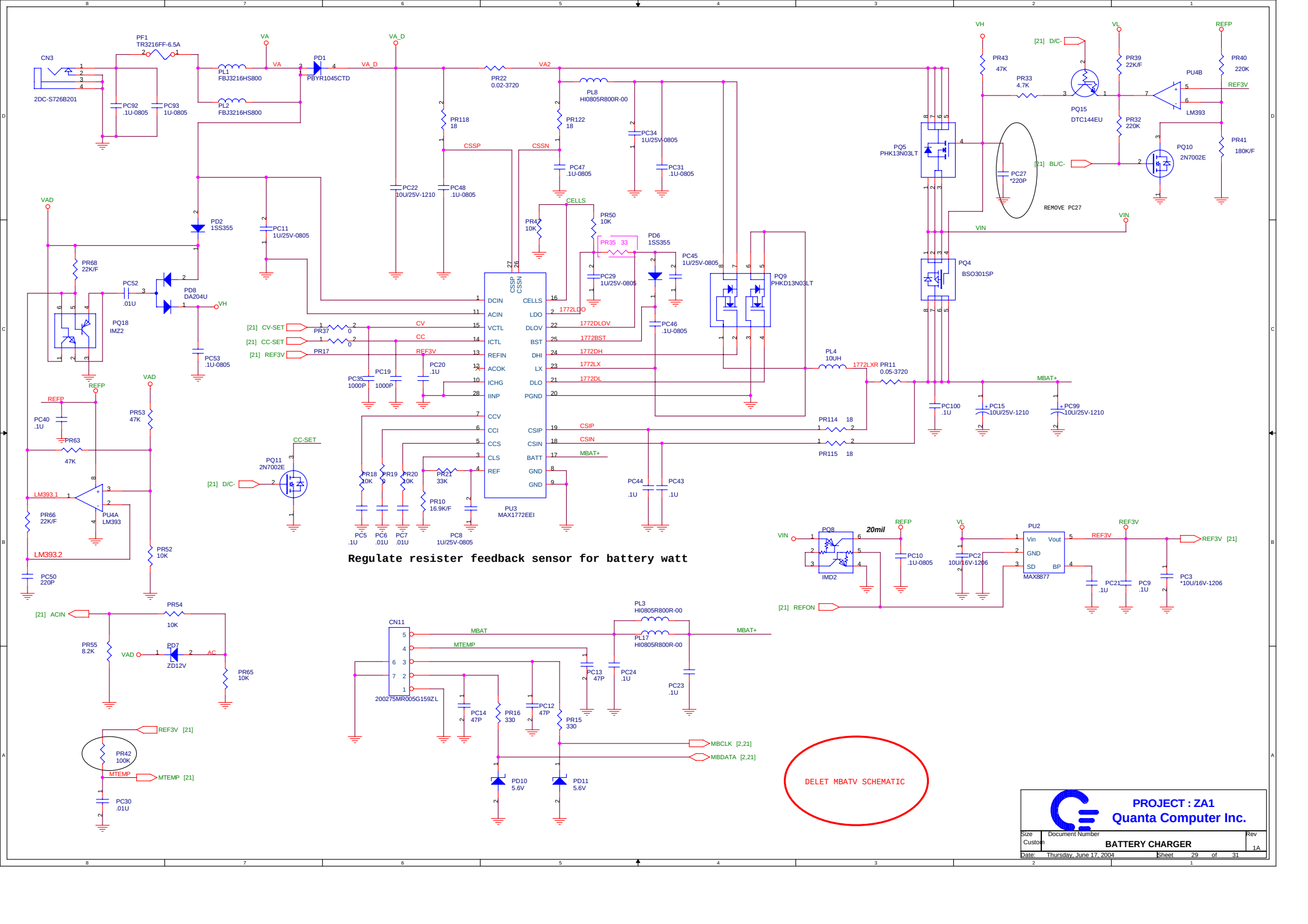
PROJECT : ZA1
Quanta Computer Inc.

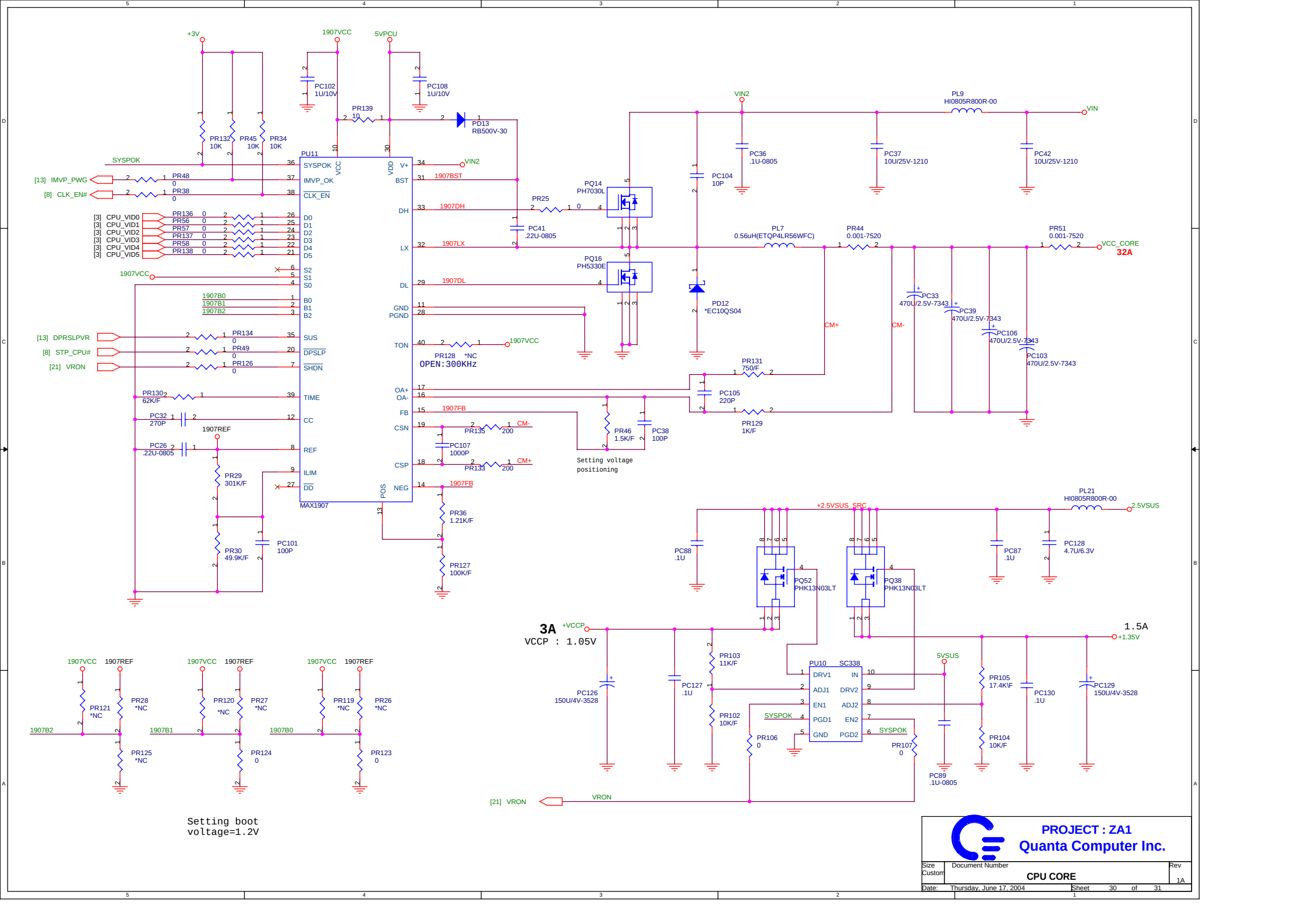
Size	Document Number	Rev
Custom	DISCHAGE&+1.8V	1A
Date: Wednesday, June 16, 2004	Sheet 27 of 31	



PROJECT : ZA1
Quanta Computer Inc.

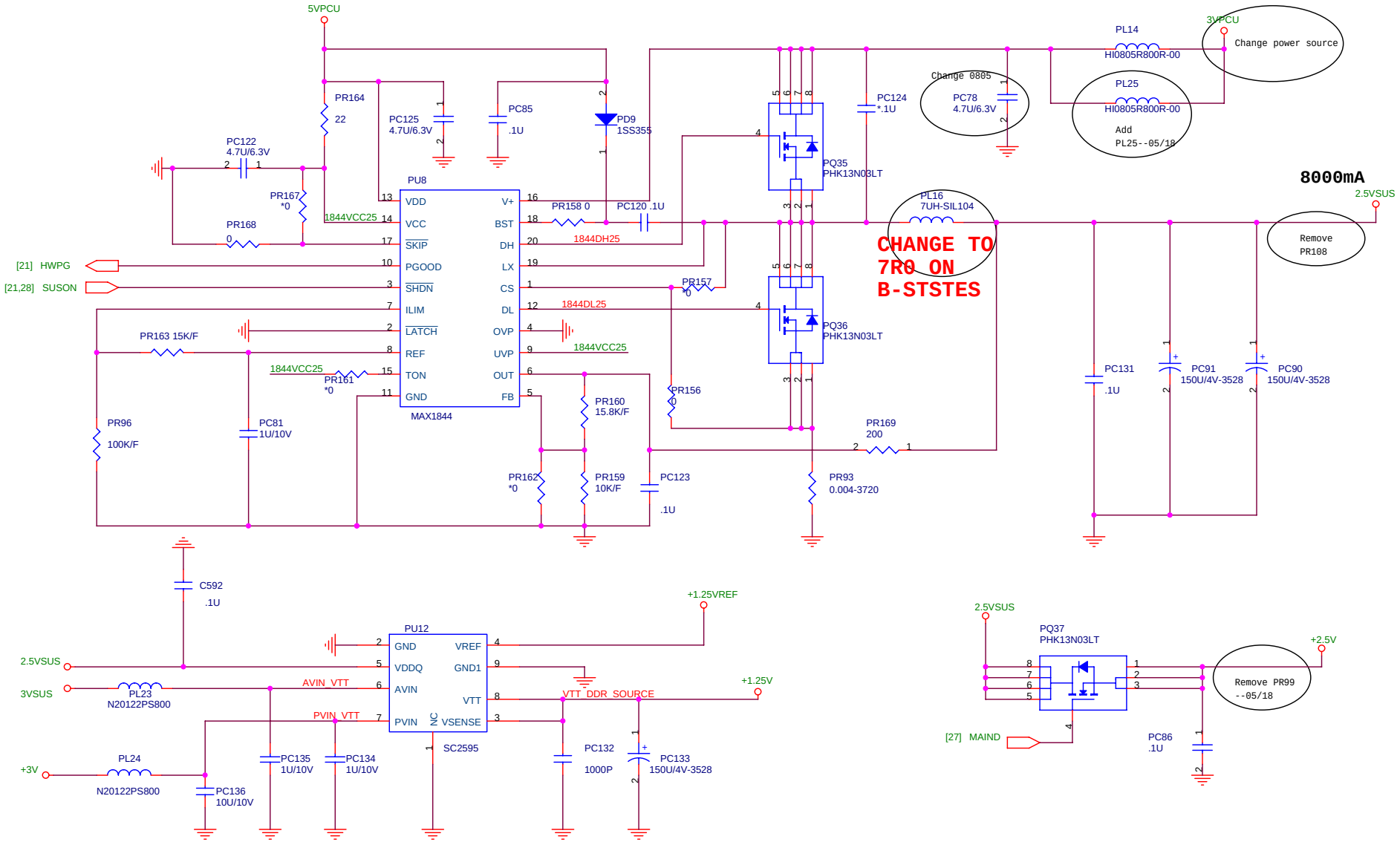
Size	Document Number	Rev
Custom	SYSTEM POWER MAX1632	1A
Date: Thursday, June 17, 2004	Sheet 28 of 31	


CN3
2DC-S726B201
PF1
TR3216FF-6.5A
PC92 .1U-0805
PC93 1U-0805
PL1 FBJ3216HS800
PL2 FBJ3216HS800
VA
PD1
PBYR1045CTD
VA_D
PR22 0.02-3720
VA2
PL8 HI0805R800R-00
PR118 18
PR122 18
PC34 1U/25V-0805
PC31 .1U-0805
PC47 .1U-0805
CSSP
CSSN
PC22 10U/25V-1210
PC48 .1U-0805
CELLS
PR47 10K
PR50 10K
PR35 33
PD6 1SS355
PC45 1U/25V-0805
PC29 1U/25V-0805
PC46 .1U-0805
PD2 1SS355
PC11 1U/25V-0805
PR68 22K/F
PC52 .01U
PD8 DA204U
PQ18 IMZ2
PC53 .1U-0805
VH
VAD
REFP
PC40 .1U
PR63 47K
PR53 47K
LM393.1
PR66 22K/F
PU4A LM393
LM393.2
PR52 10K
PC50 220P
[21] CV-SET
[21] CC-SET
[21] REF3V
PR37 0
PR17 0
CV
CC
REF3V
PC35 1000P
PC19 1000P
PC20 .1U
DCIN
ACIN
VCTL
ICTL
REFIN
ACOK
ICHG
IINP
CCV
CCI
CCS
CLS
REF
CELLS
LDO
DLOV
BST
DHI
LX
DLO
PGND
CSIP
CSIN
BATT
GND
GND
1772LDO
1772DLOV
1772BST
1772DH
1772LX
1772DL
PU3 MAX1772EEI
PR18 10K
PR19 0
PR20 10K
PR21 33K
PR10 16.9K/F
PC5 .1U
PC6 .01U
PC7 .01U
PC8 1U/25V-0805
PC44 .1U
PC43 .1U
PL4 10UH
1772LXR
PR11 0.05-3720
PR114 18
PR115 18
CC-SET
PQ11 2N7002E
[21] D/C-
PR54 10K
[21] ACIN
PR55 8.2K
PD7 ZD12V
PR65 10K
PR42 100K
MTEMP
[21] MTEMP
PC30 .01U
CN11
200275MR005G159L
MBAT
MTEMP
PL3 HI0805R800R-00
PL17 HI0805R800R-00
MBAT+
PC13 47P
PC24 .1U
PC23 .1U
PC14 47P
PR16 330
PC12 47P
PR15 330
MBCLK [2,21]
MBDATA [2,21]
PD10 5.6V
PD11 5.6V
VH
VL
REFP
[21] D/C-
PR43 47K
PR33 4.7K
PQ15 DTC144EU
PR39 22K/F
PR32 220K
PU4B LM393
PR40 220K
REF3V
PR41 180K/F
PQ10 2N7002E
[21] BL/C-
PQ5 PHK13N03LT
PC27 *220P
REMOVE PC27
VIN
PQ4 BSO301SP
PQ9 PHKD13N03LT
PC100 .1U
PC15 10U/25V-1210
PC99 10U/25V-1210
MBAT+
VIN
PQ8 IMD2
20mil
REFP
PC10 .1U-0805
[21] REFON
VL
PC2 10U/16V-1206
PU2 MAX8877
Vin
Vout
GND
SD
BP
REF3V
PC21 .1U
PC9 .1U
PC3 *10U/16V-1206
REF3V [21]
Regulate resister feedback sensor for battery watt
DELET MBATV SCHEMATIC
PROJECT : ZA1
Quanta Computer Inc.
Size Custom
Document Number
BATTERY CHARGER
Rev 1A
Date: Thursday, June 17, 2004
Sheet 29 of 31



PROJECT : ZA1
Quanta Computer Inc.

Size	Document Number	Rev
Custom	CPU CORE	1A
Date: Thursday, June 17, 2004	Sheet 30 of 31	


5VPCU
PR164
22
PC125
4.7U/6.3V
PC85
.1U
PD9
1SS355
PC122
4.7U/6.3V
PR167
*0
PR168
0
PU8
VDD
VCC
SKIP
PGOOD
SHDN
ILIM
LATCH
REF
TON
GND
V+
BST
DH
LX
CS
DL
OVP
UVP
OUT
FB
MAX1844
1844VCC25
PR158 0
PC120 .1U
1844DH25
1844DL25
PR157
*0
PR156
0
PR160
15.8K/F
PR162
*0
PR159
10K/F
PC123
.1U
PR163 15K/F
PR161
*0
PR96
100K/F
PC81
1U/10V
PC124
*.1U
PQ35
PHK13N03LT
PQ36
PHK13N03LT
PR169
200
PR93
0.004-3720
PC78
4.7U/6.3V
Change 0805
PL14
HI0805R800R-00
PL25
HI0805R800R-00
3VPCU
Change power source
Add
PL25--05/18
8000mA
2.5VSUS
PL16
7UH-SIL104
CHANGE TO
7R0 ON
B-STSTES
Remove
PR108
PC131
.1U
PC91
150U/4V-3528
PC90
150U/4V-3528
[21] HWPG
[21,28] SUSON
C592
.1U
PU12
GND
VDDQ
AVIN
PVIN
VREF
GND1
VTT
VSENSE
SC2595
+1.25VREF
+1.25V
2.5VSUS
3VSUS
PL23
N20122PS800
AVIN_VTT
PVIN_VTT
VTT_DDR_SOURCE
PL24
N20122PS800
+3V
PC135
1U/10V
PC134
1U/10V
PC136
10U/10V
PC132
1000P
PC133
150U/4V-3528
PQ37
PHK13N03LT
+2.5V
Remove PR99
--05/18
[27] MAIND
PC86
.1U
PROJECT : ZA1
Quanta Computer Inc.
Size
B
Document Number
2.5V-DDR&VTERM
Rev
1A
Date: Wednesday, June 16, 2004
Sheet 31 of 31