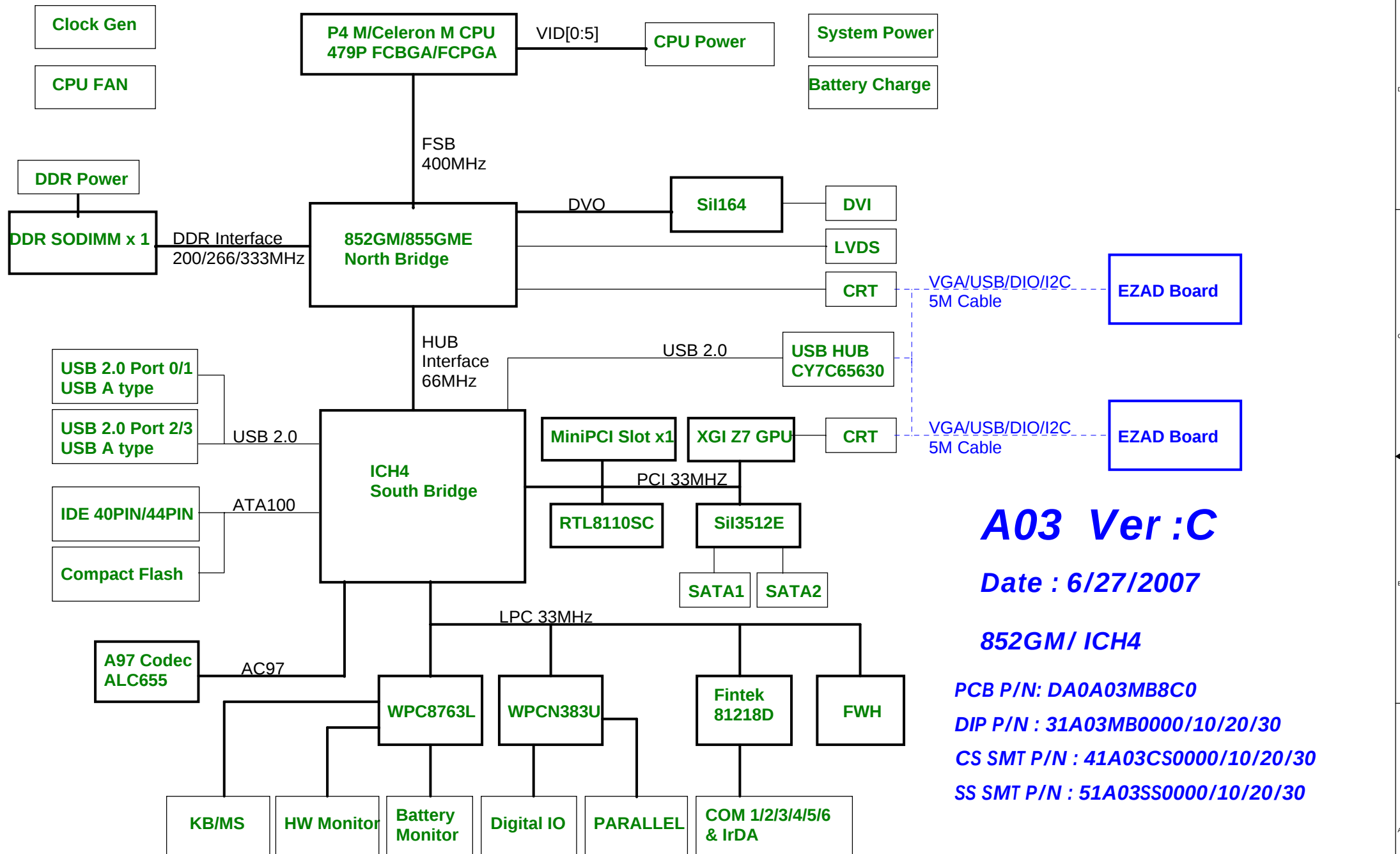




A03 Ver:C

Date : 6/27/2007

852GM/ ICH4

PCB P/N: DA0A03MB8C0

DIP P/N : 31A03MB0000/10/20/30

CS SMT P/N : 41A03CS0000/10/20/30

SS SMT P/N : 51A03SS0000/10/20/30

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Size A3	Document Number <Doc> Black Diagram	Rev C1A
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Figure 17-18. Power Sequencing and Reset Signal Timings

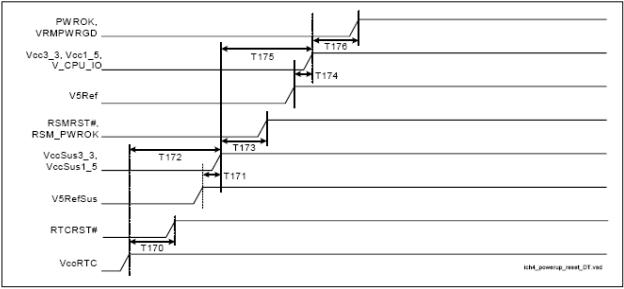
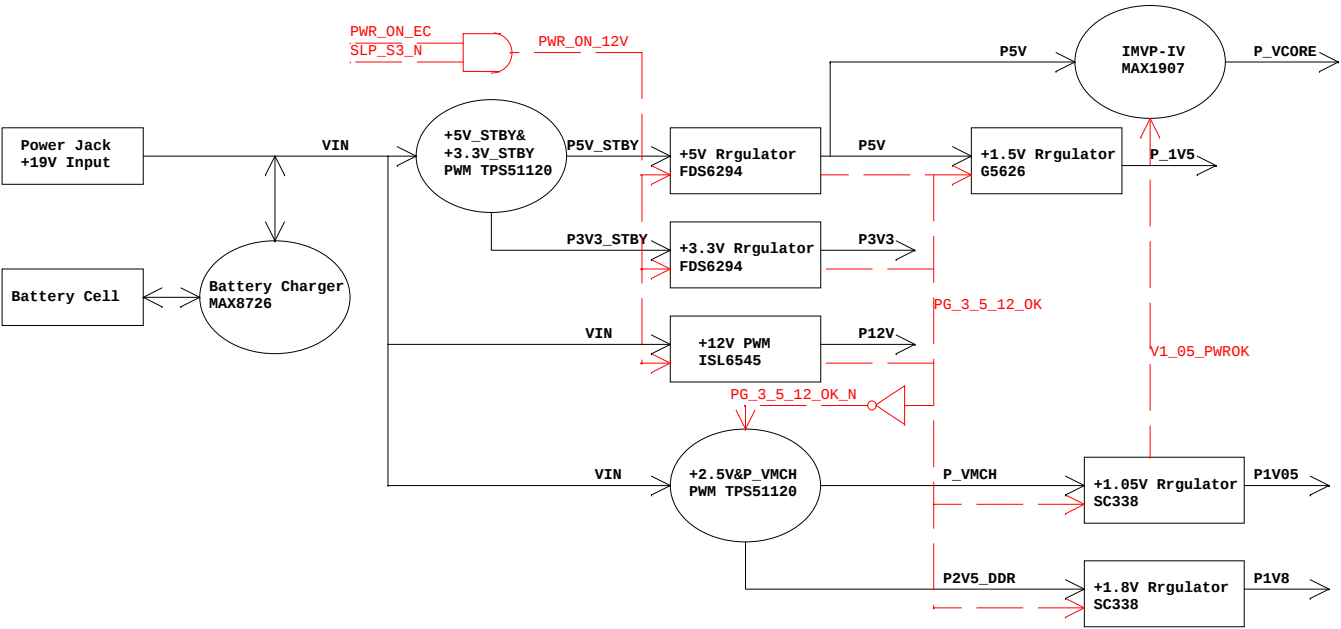


Table 17-19. Power Sequencing and Reset Signal Timings

Sym	Parameter	Min	Max	Units	Notes	Fig
t170	VccRTC active to RTCRST# inactive	5	—	ms		17-18
t171	V5RefSus active to VccSus3_3, VccSus1_5 active	0	—	ms	1	17-18
t172	VccRTC supply active to VccSus supplies active	0	—	ms	2	17-18
t173	VccSus supplies active to LAN_RST# active, RSMRST# inactive	10	—	ms		17-18 17-20
t174	V5Ref active to Vcc3_3, Vcc1_5, VccHI active	0	—	ms	1	17-18
t175	VccSus supplies active to Vcc supplies active	0	—	ms	2	17-18
t176	Vcc supplies active to PWROK, VRMPWRGD active	10	—	ms		17-18 17-20
t177	PWROK and VRMPWRGD and SYS_RESET# inactive to SUS_STAT# inactive	32	38	RTCCLK		17-20
t178	SUS_STAT# inactive to PCIRST# inactive	1	3	RTCCLK		17-20
t179	AC_RST# active low pulse width	1		us		
t180	AC_RST# inactive to BIT_CLK startup delay	162.8		ns		

- NOTES:
- The V5Ref supply must power up before or simultaneous with its associated 3.3 V supply, and must power down simultaneous with or after the 3.3 V supply. See Section 2.20.3 for details.
 - The VccSus supplies must never be active while the VccRTC supply is inactive. Likewise, the Vcc supplies must never be active while the VccSus supplies are inactive.



JP1 : Clear CMOS.		
Function	Default setting	
1 -- 2	Protect	V
2 -- 3	Clear CMOS	

JP2 : LCD Panel Voltage		
Function	Default setting	
1 -- 2	5V	
2 -- 3	3.3V	V

S1 : LCD Panel select				LCD Panel Type
1	2	3	4	
OFF	OFF	OFF	OFF	15", 1024*768/24bit, 1-CH, Normal
OFF	OFF	ON	OFF	17/19", 1280*1024/24bit, 2-CH, Normal
OFF	ON	OFF	OFF	10.4", 800*600/18bit, 1-CH, Normal
ON	OFF	OFF	OFF	1024*768/18bit, 1-CH, Special
ON	OFF	ON	OFF	800*600/18bit, 1-CH, Special

Fintek 81218D GPIO							Fnction List
GP12	GP11	GP10					
R662	R667	R663	R666	R664	R675		
OFF	ON	OFF	ON	OFF	ON		W/ XGI Z7(64MB), SII3512E(SATA), SII164(DVI)
OFF	ON	OFF	ON	ON	OFF		W/O XGI Z7, SII3512E(SATA), SII164(DVI)
OFF	ON	ON	OFF	OFF	ON		W/ XGI Z7(32MB), SII3512E(SATA), SII164(DVI)
OFF	ON	ON	OFF	ON	OFF		W/O XGI Z7, SII3512E(SATA), SII164(DVI), WPCN383(Parallel Port)
ON	OFF	OFF	ON	OFF	ON		A85 Project feature

PROJECT: A83

Quanta Computer Inc.

Power Sequence

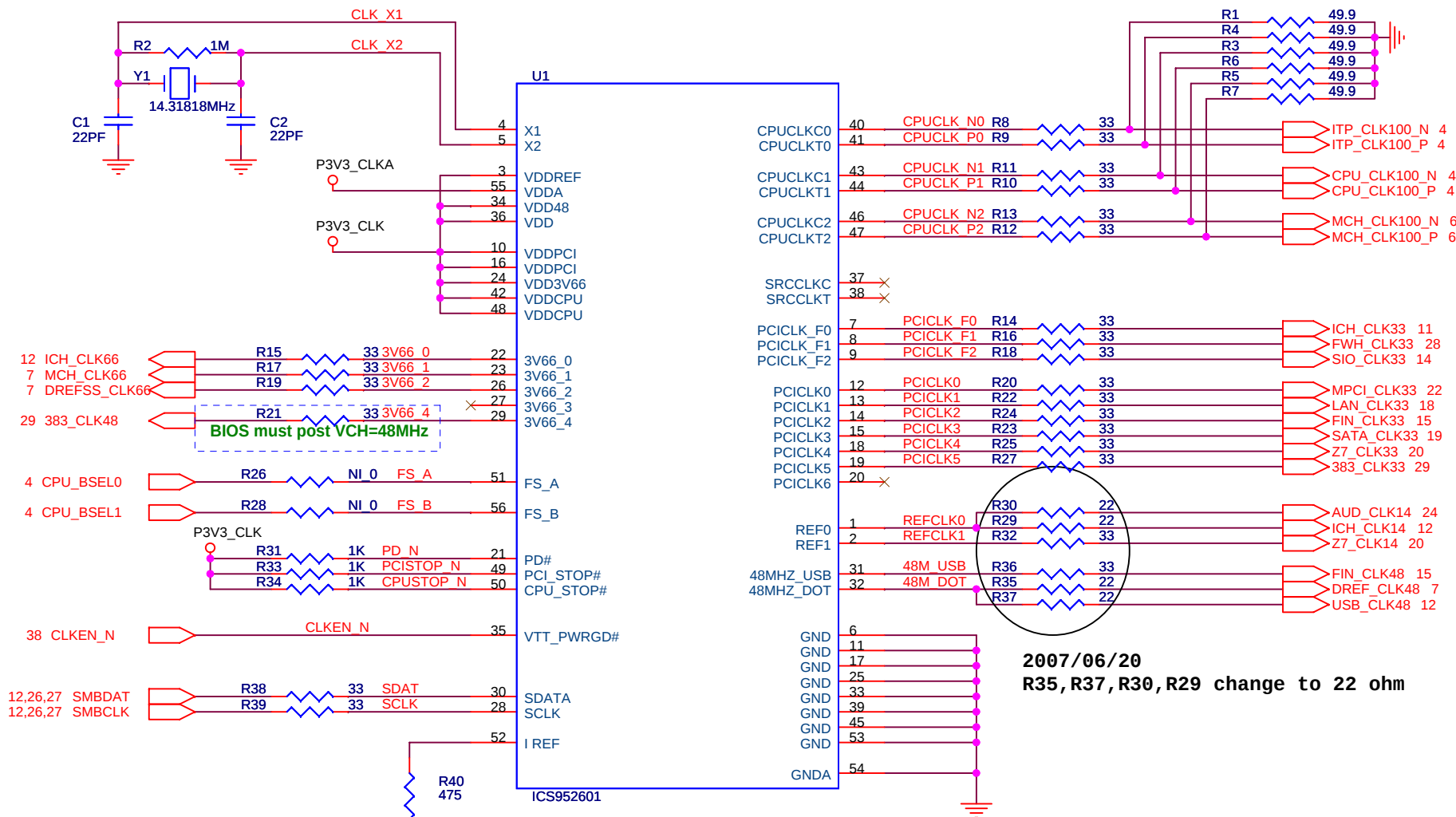
Size A2

Document Number <Doc>

Date: Wednesday, July 04, 2007

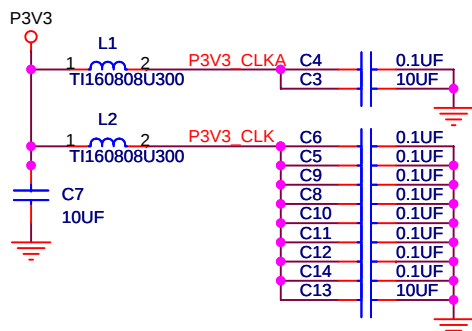
Sheet 2 of 38

Rev CIA

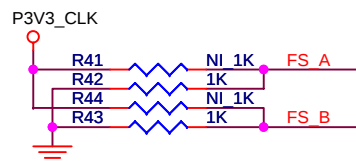


2007/06/20

R35, R37, R30, R29 change to 22 ohm



Layout note: Place crystal within 500 mils of CLK Gen.



FS_A	FS_B	CPU SPEED
0	0	100MHz
0	1	200MHz
1	0	133MHz
1	1	166MHz

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Clock Gen

Size A4 Document Number

<Doc>

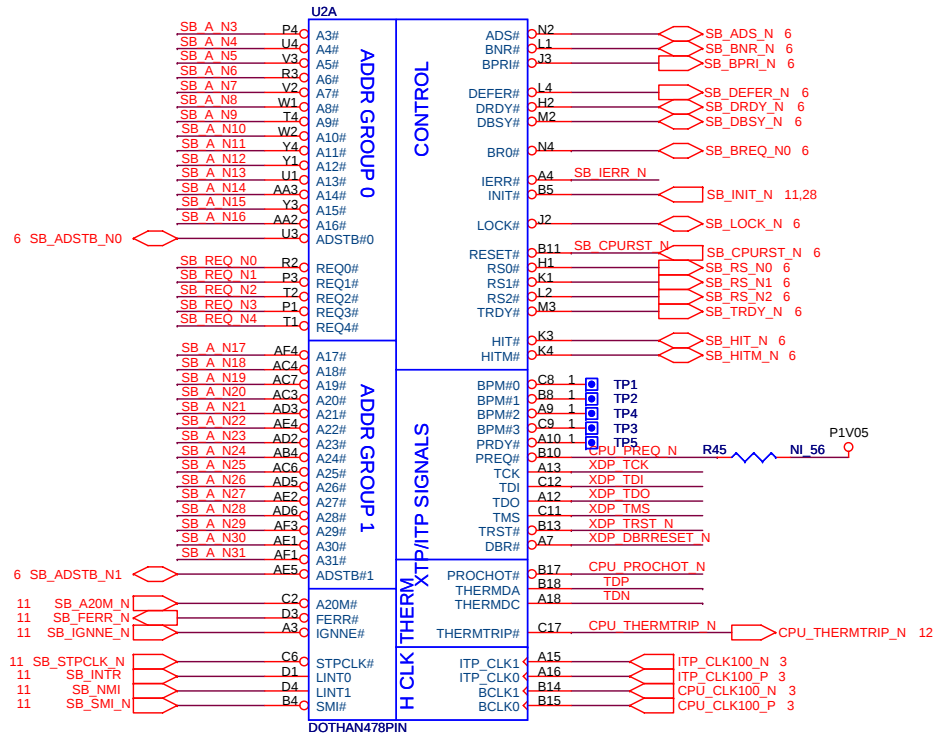
Rev C1A

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Sheet 3 of 38

6 SB_REQ_N[4..0] SB_REQ_N[4..0]
6 SB_A_N[31..3] SB_A_N[31..3]

6 SB_D_N[63..0] SB_D_N[63..0]



P1V05

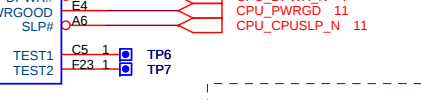
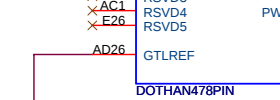
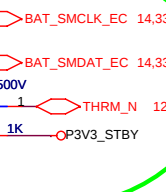
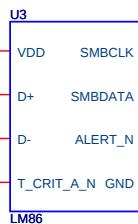
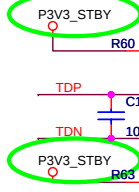
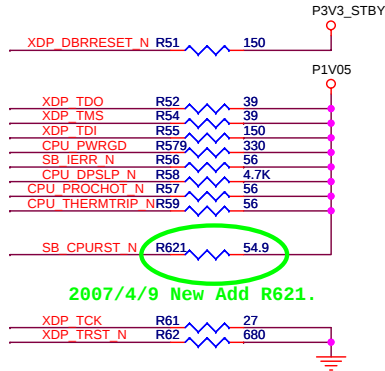
C15
NI_1000PF

R50
1K

C16
NI_1000PF

R53
2K

Layout note: Zo=55 ohm,
0.5" max for GTLREF.



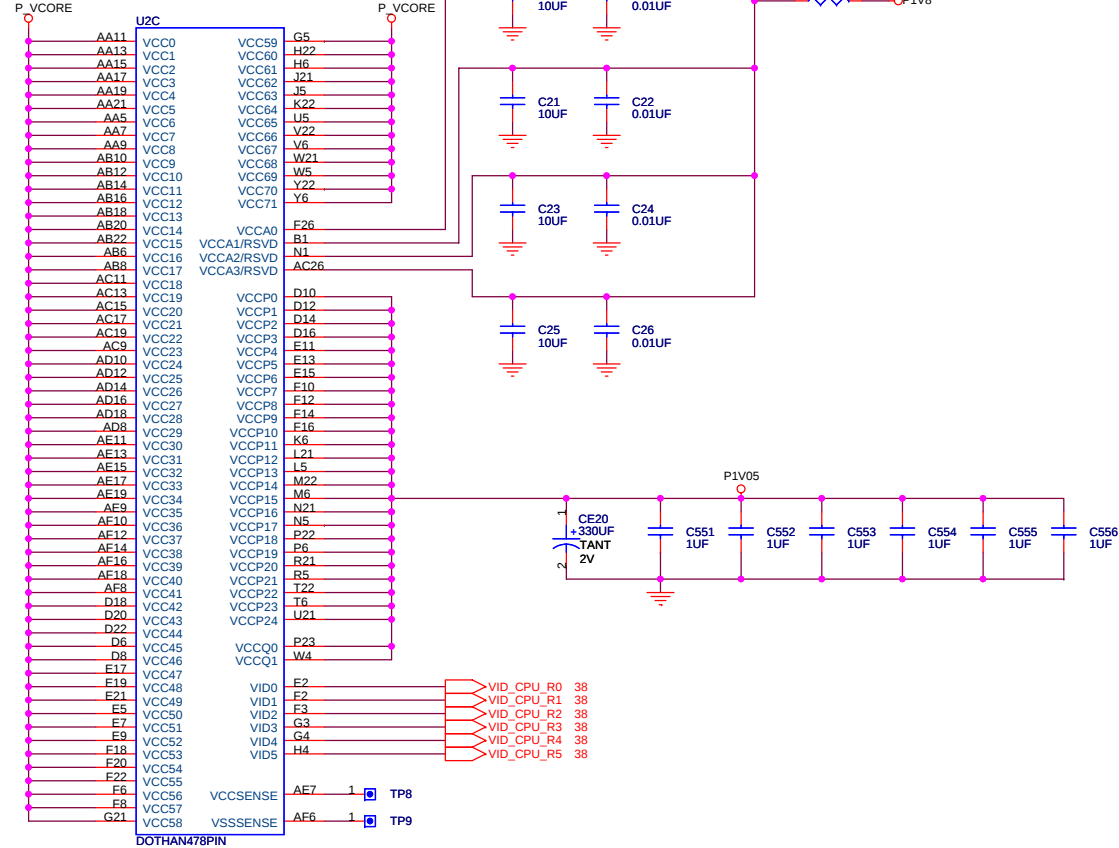
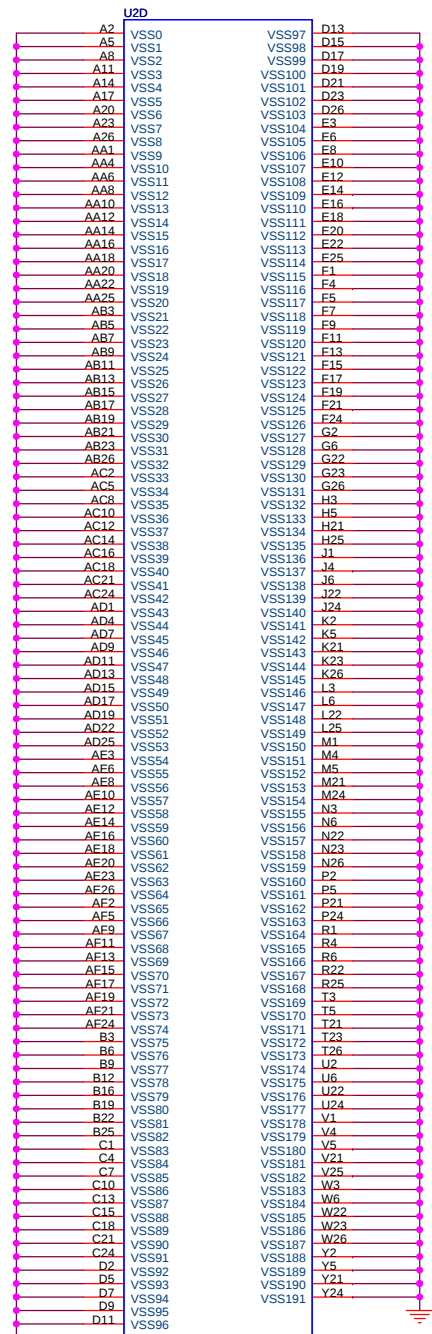
Layout note:
Comp0,2 connect with Zo=27.4ohm,
make trace length shorter than 0.5".
Comp1,3 connect with Zo=55ohm,
make trace length shorter than 0.5".

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Size B	Document Number <Doc>	Rev C1A
Date: Friday, June 29, 2007	P4 M/Celeron M CPU #1	
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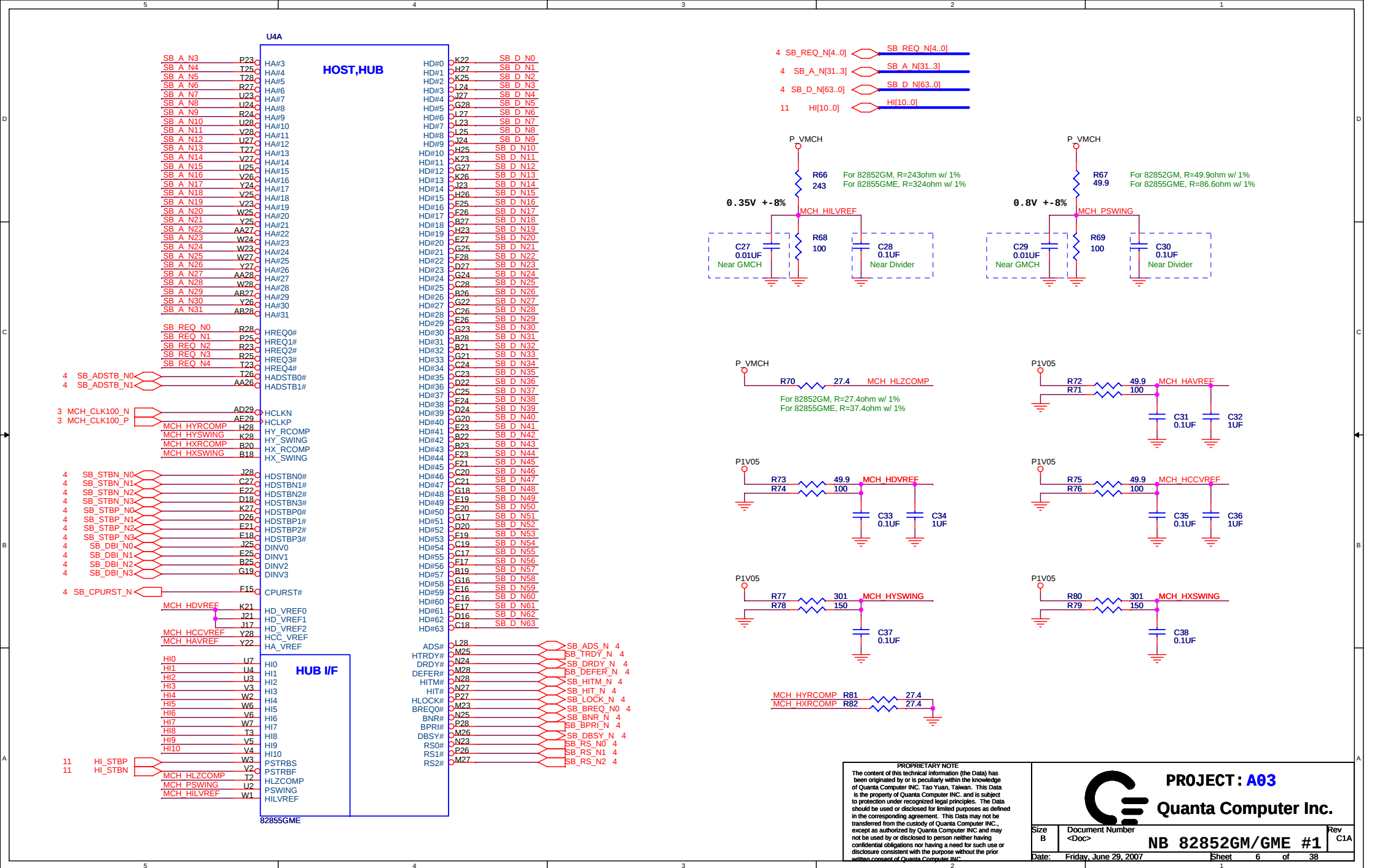


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Size A3	Document Number <Doc> P4M/Celeron M CPU #2	Rev C1A
Date: Friday, June 29, 2007	Sheet 5	of 38

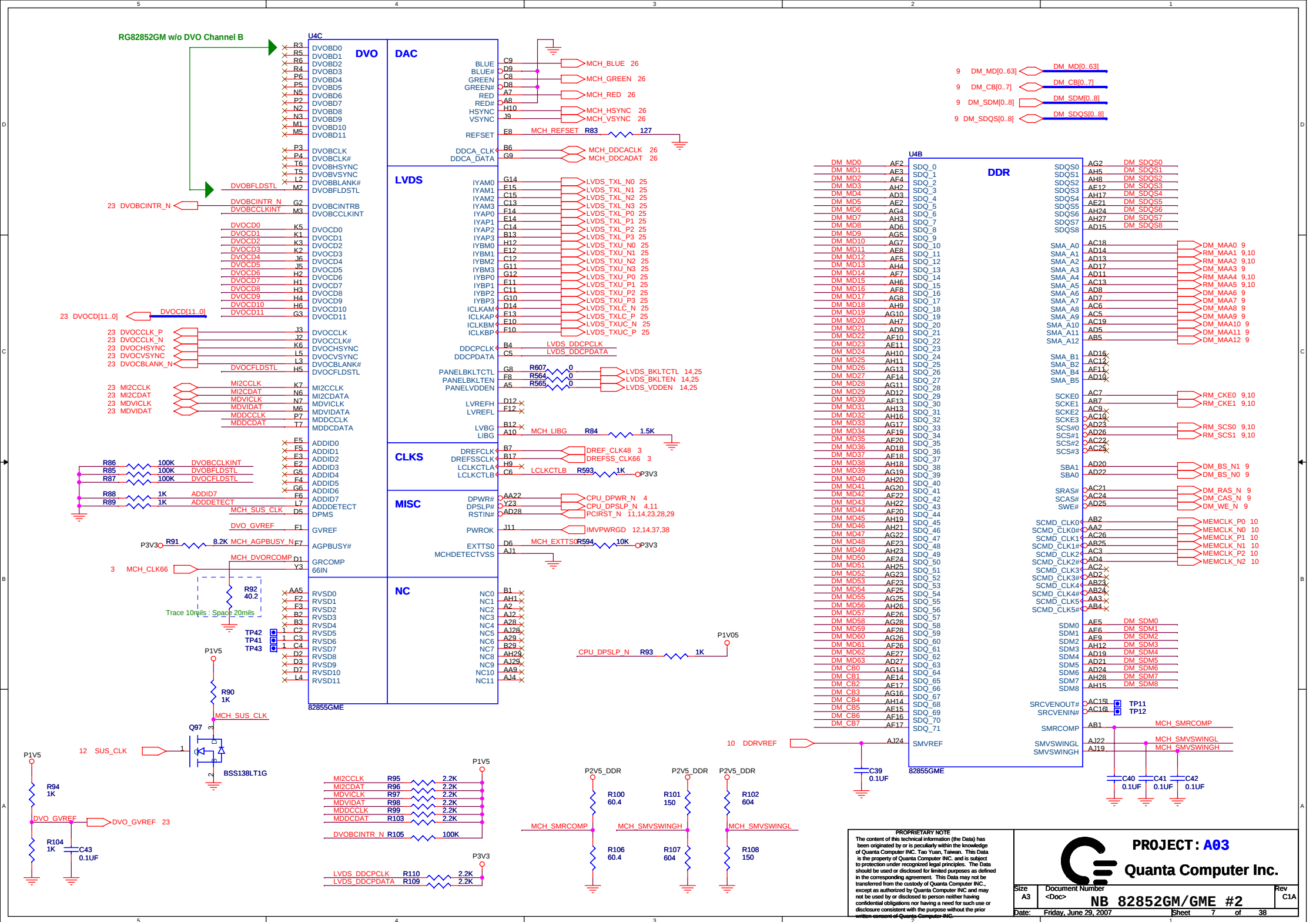


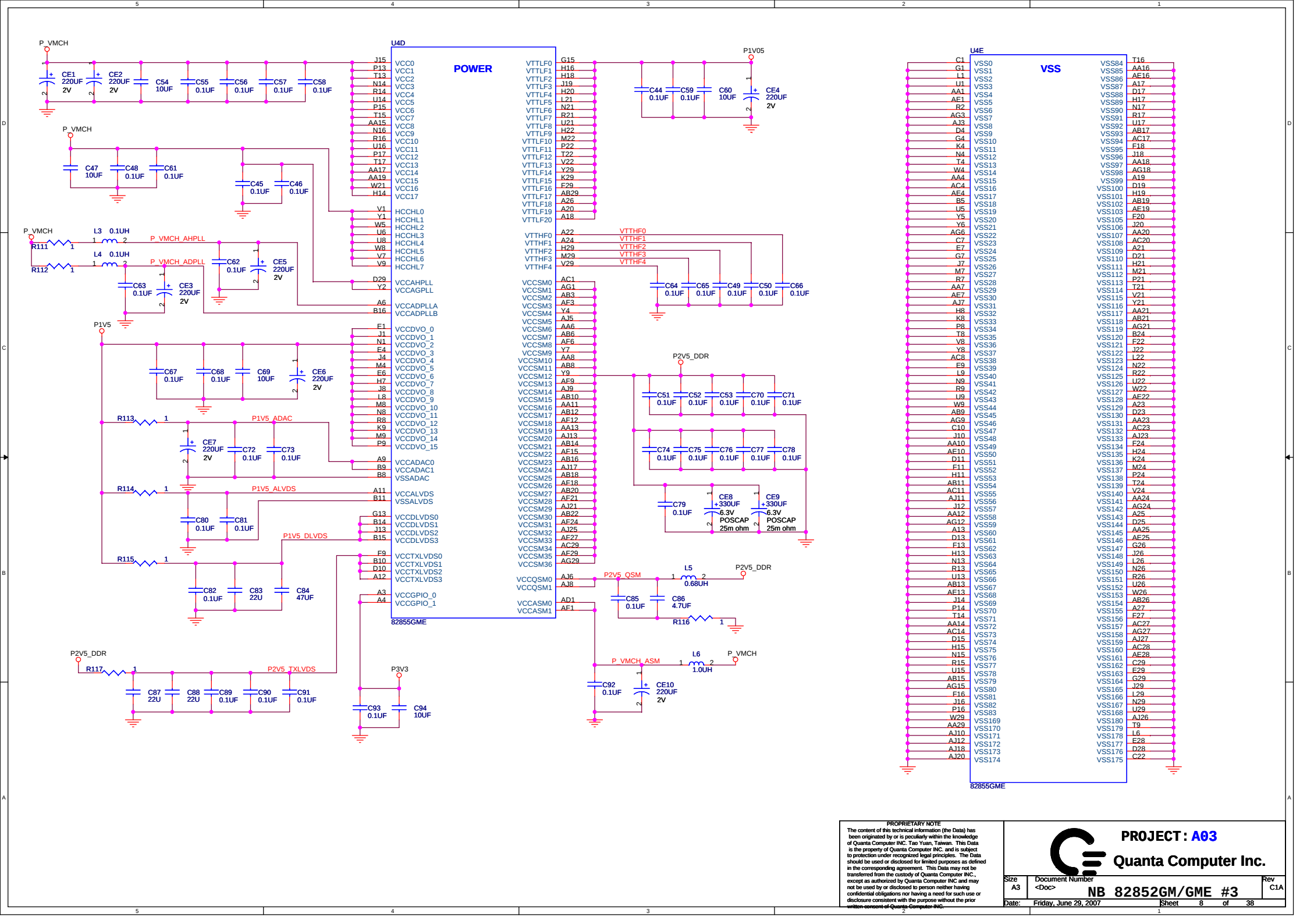
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Size B	Document Number <Doc>	Rev C1A
Date: Friday, June 29, 2007	NB 82852GM/GME #1	
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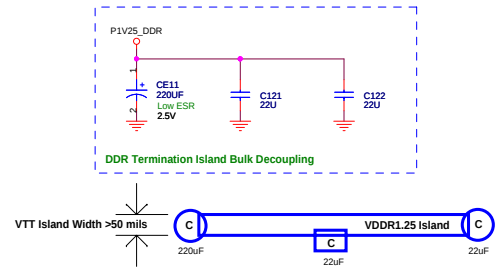
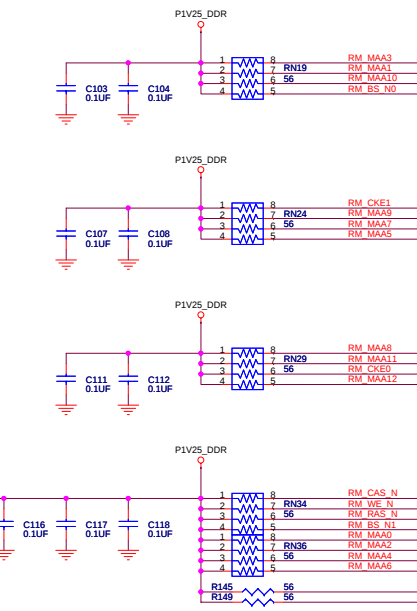
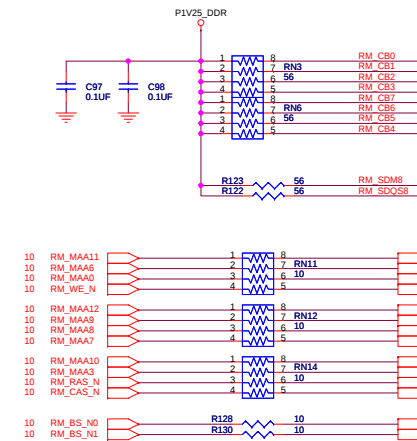
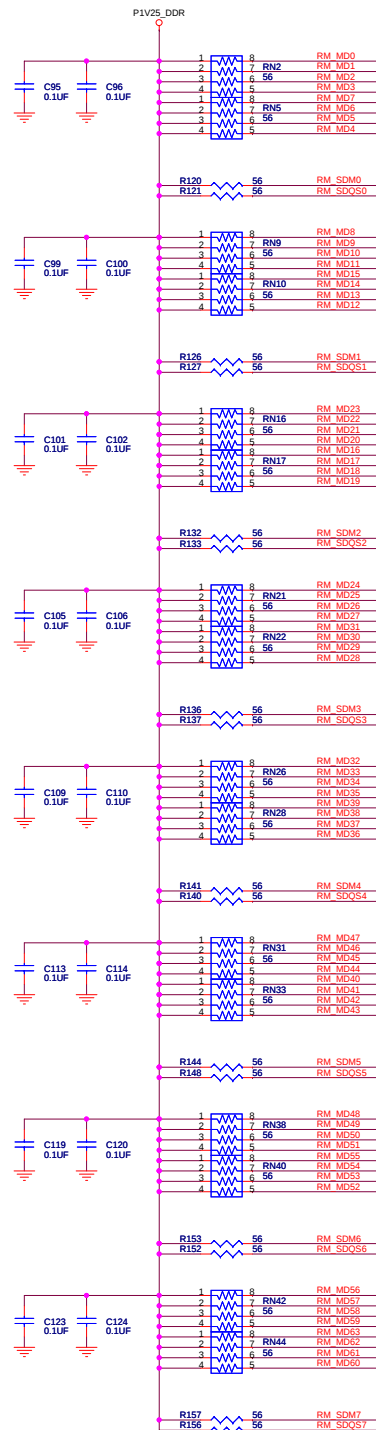
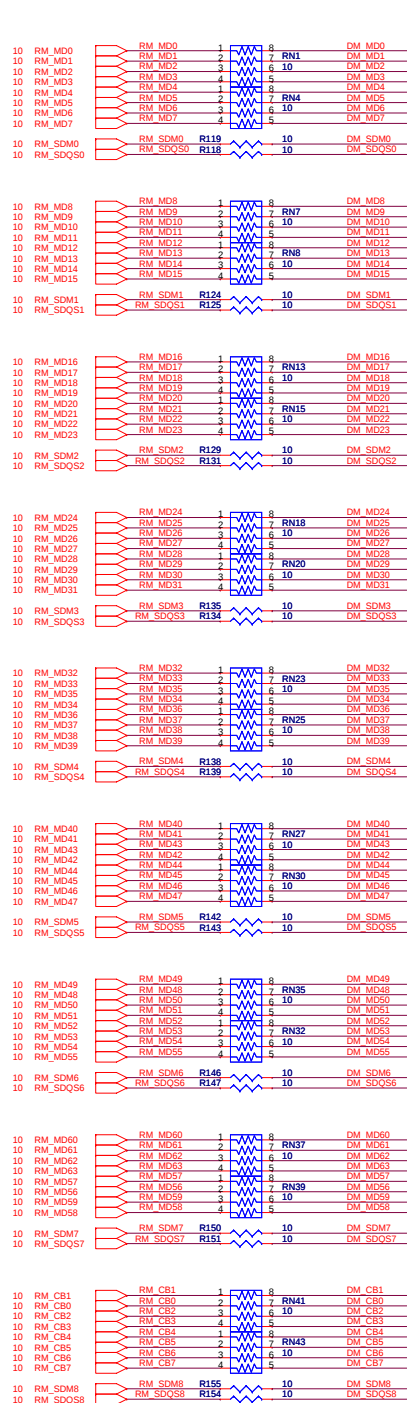


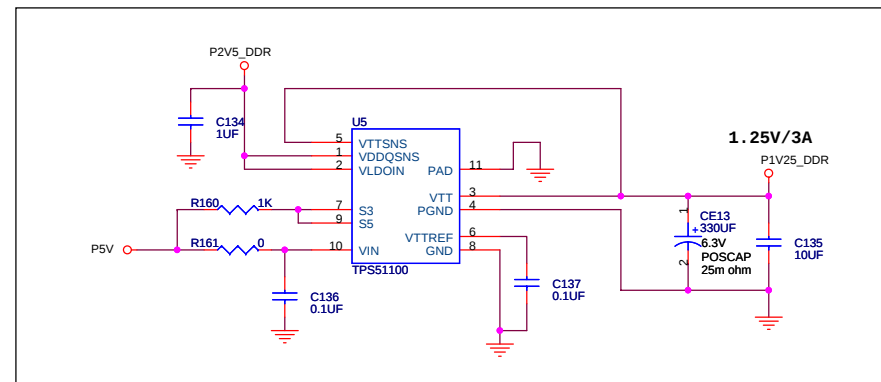
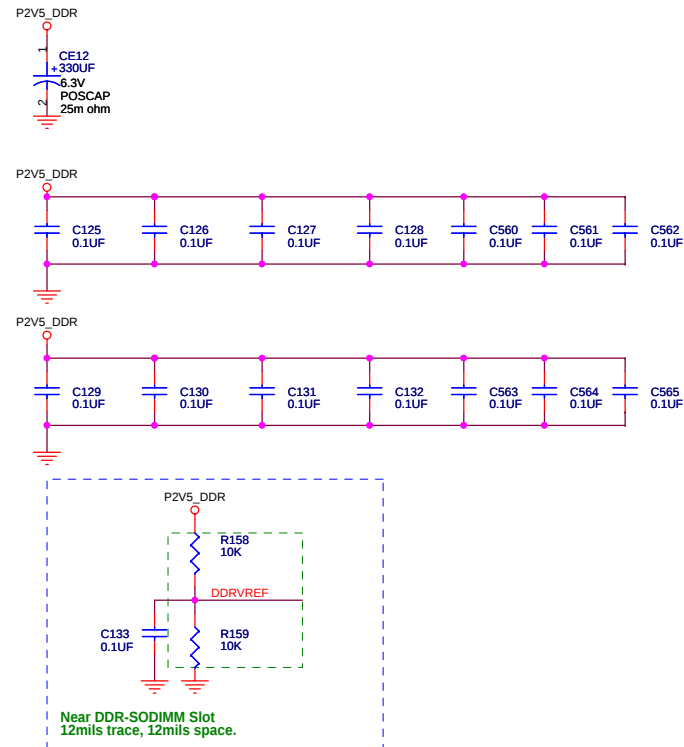
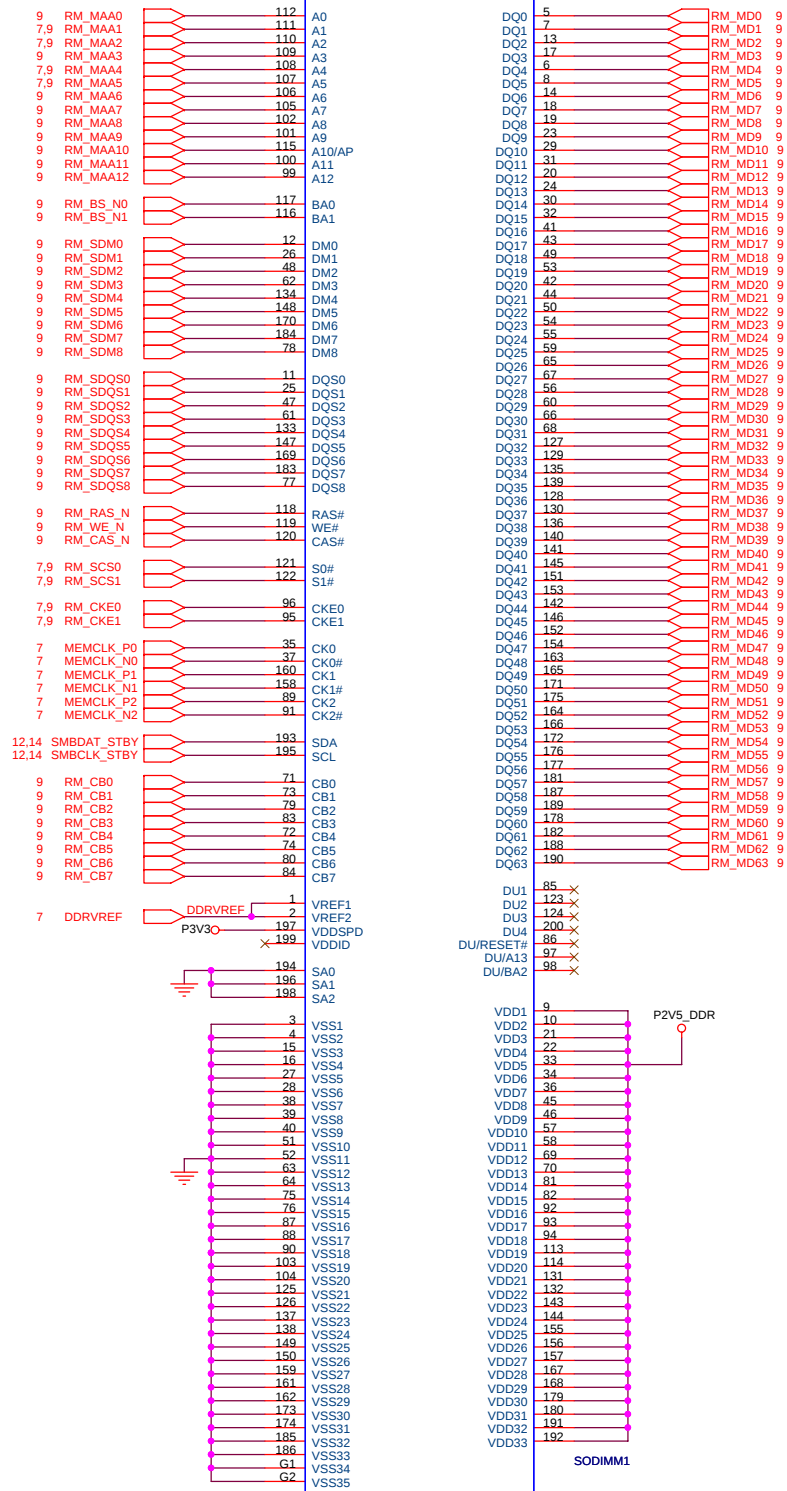
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Size A3	Document Number <Doc> NB 82852GM/GME #3	Rev C1A
Date: Friday, June 29, 2007	Sheet 8	of 38

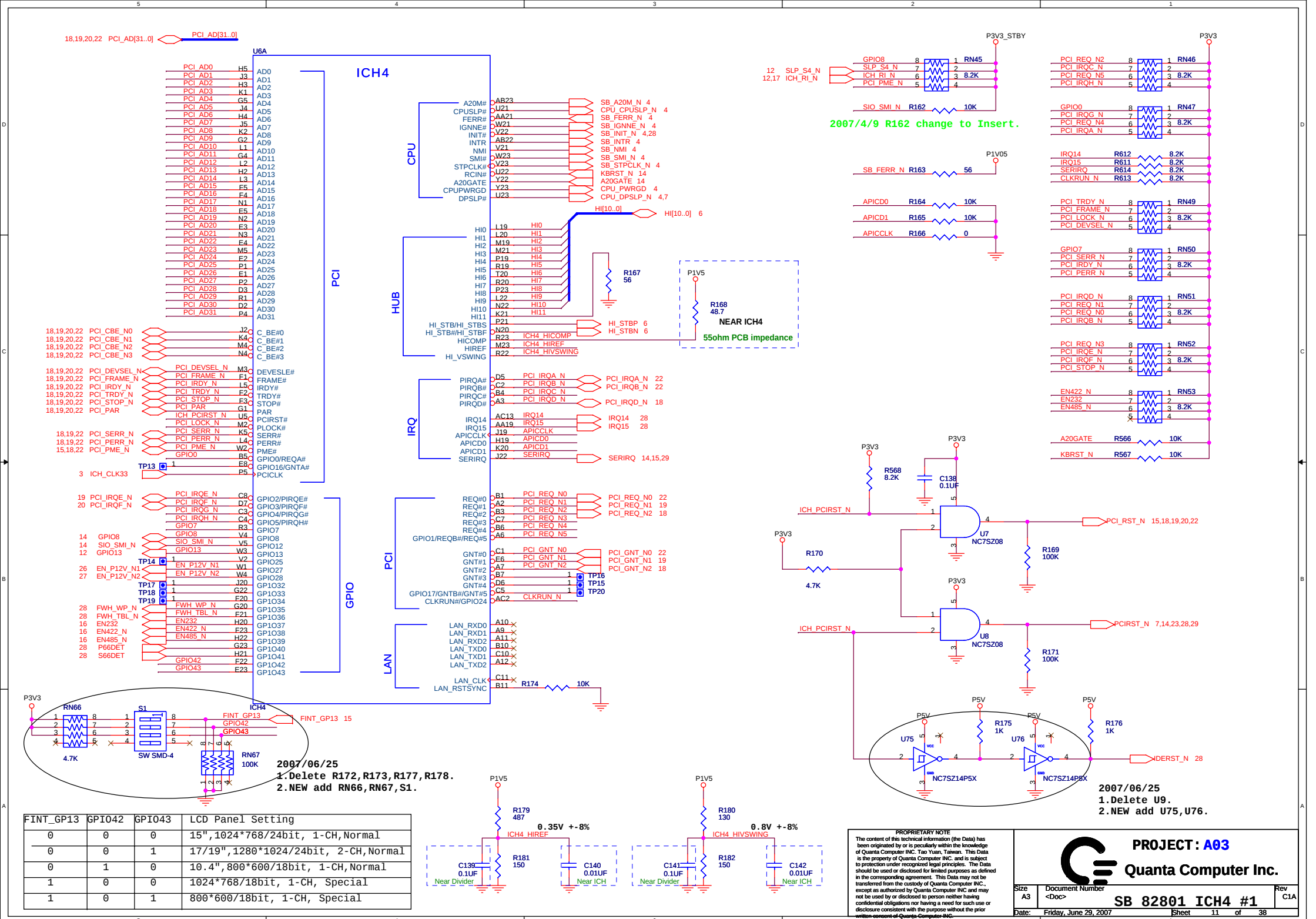


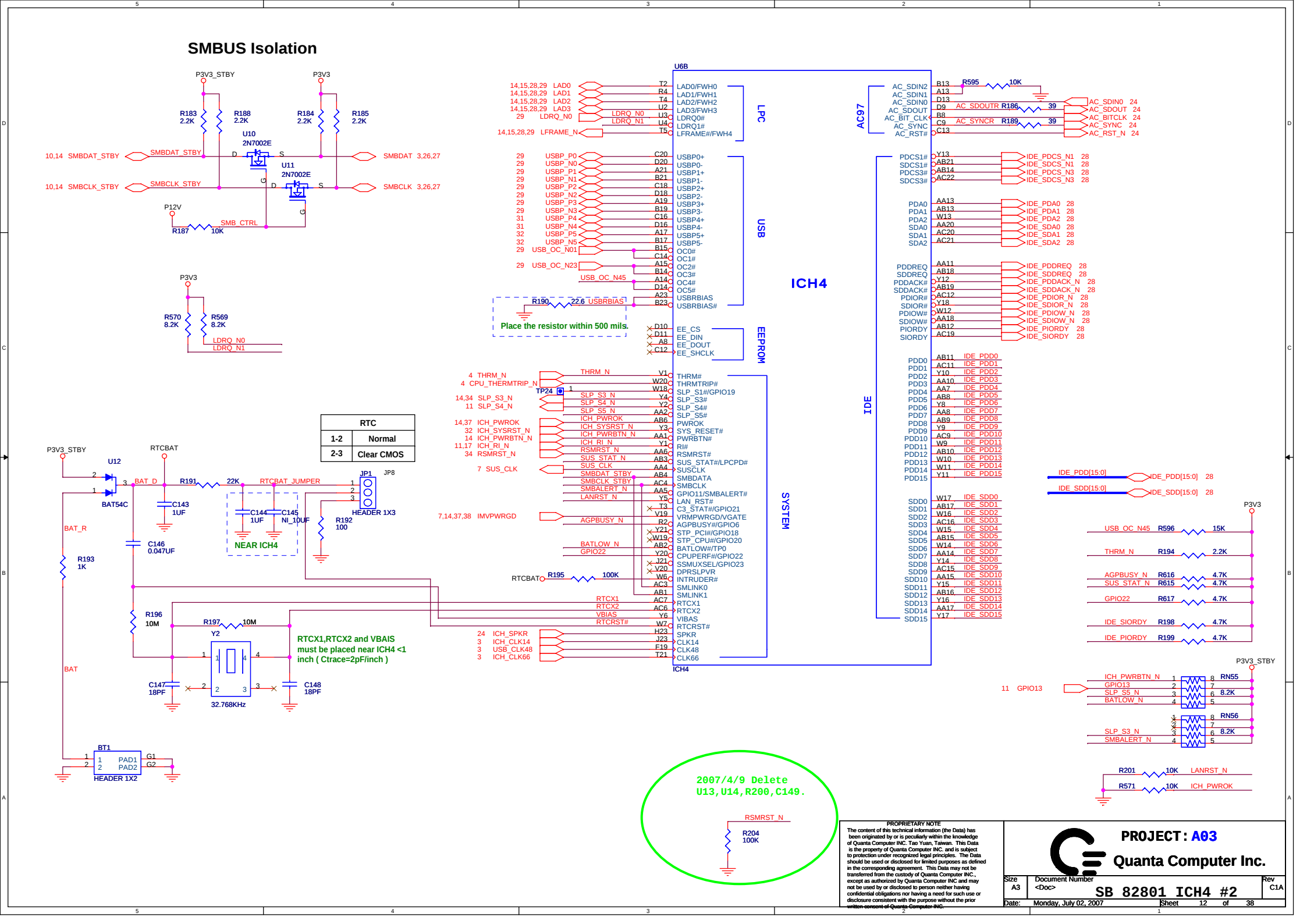


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SMBUS Isolation

10,14 SMBDAT_STBY

10,14 SMBCLK_STBY

P3V3

P3V3_STBY

R183 2.2K

R188 2.2K

R184 2.2K

R185 2.2K

U10 2N7002E

U11 2N7002E

P12V

R187 10K

SMB_CTRL

R570 8.2K

R569 8.2K

LDRQ_N0

LDRQ_N1

RTC

1-2 Normal

2-3 Clear CMOS

BAT_R

BAT

R193 1K

BAT54C

U12

BAT_D

R191 22K

RTCBAT

C143 1UF

C146 0.047UF

C147 18PF

C148 18PF

RTCBAT JUMPER

C144 1UF

C145 10UF

NEAR ICH4

R192 100

JP1

JP8

HEADER 1X3

R196 10M

R197 10M

Y2

32.768KHz

RTCX1,RTCX2 and VBAIS must be placed near ICH4 <1 inch (Ctrace=2pF/inch)

BT1

1

2

PAD1

PAD2

HEADER 1X2

2007/4/9 Delete U13, U14, R200, C149.

R204 100K

RMSRST_N

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Size A3

Document Number <Doc>

SB 82801 ICH4 #2

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Rev C1A

SMBUS Isolation

10,14 SMBDAT_STBY

10,14 SMBCLK_STBY

P3V3

P3V3_STBY

R183 2.2K

R188 2.2K

R184 2.2K

R185 2.2K

U10 2N7002E

U11 2N7002E

P12V

R187 10K

SMB_CTRL

R570 8.2K

R569 8.2K

LDRQ_N0

LDRQ_N1

RTC

1-2 Normal

2-3 Clear CMOS

BAT_R

BAT

R193 1K

BAT54C

U12

BAT_D

R191 22K

RTCBAT

C143 1UF

C146 0.047UF

C147 18PF

C148 18PF

RTCBAT JUMPER

C144 1UF

C145 1UF

NEAR ICH4

R192 100

JP1

JP8

HEADER 1X3

R196 10M

R197 10M

Y2

32.768KHz

RTCX1,RTCX2 and VBAIS must be placed near ICH4 <1 inch (Ctrace=2pF/inch)

BT1

1

2

PAD1

PAD2

HEADER 1X2

2007/4/9 Delete U13, U14, R200, C149.

R204 100K

RMSRST_N

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Size A3

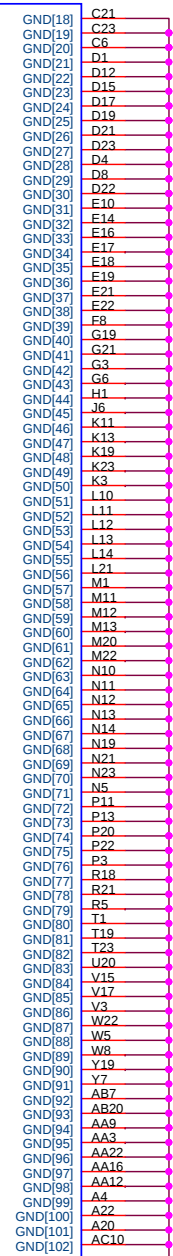
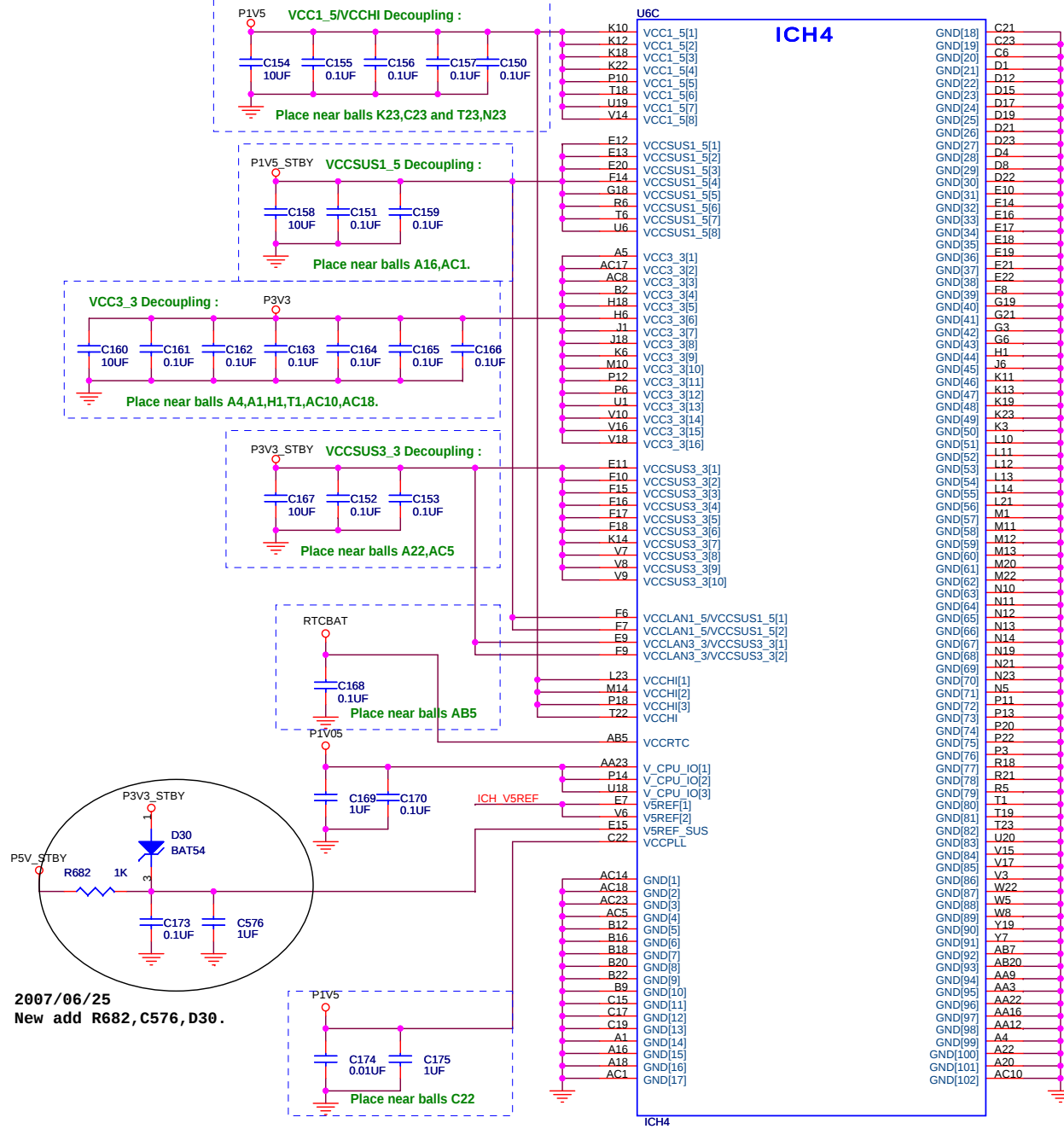
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SB 82801 ICH4 #2

Date: Monday, July 02, 2007

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Rev C1A



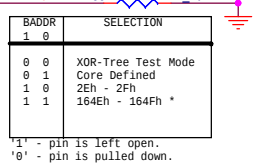
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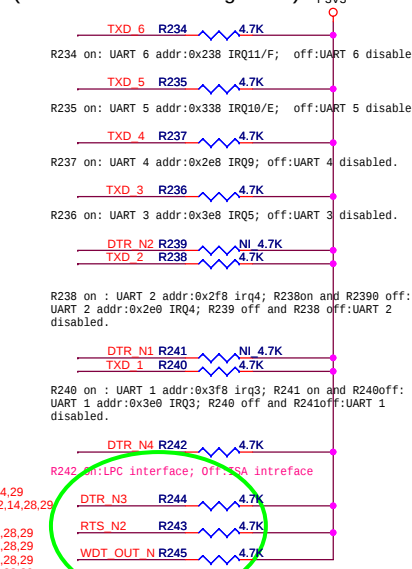
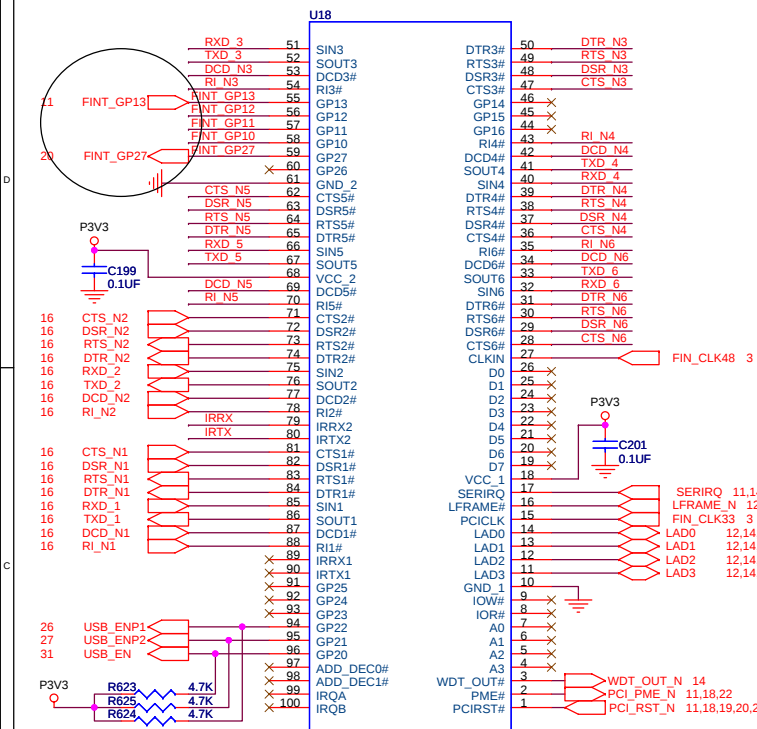


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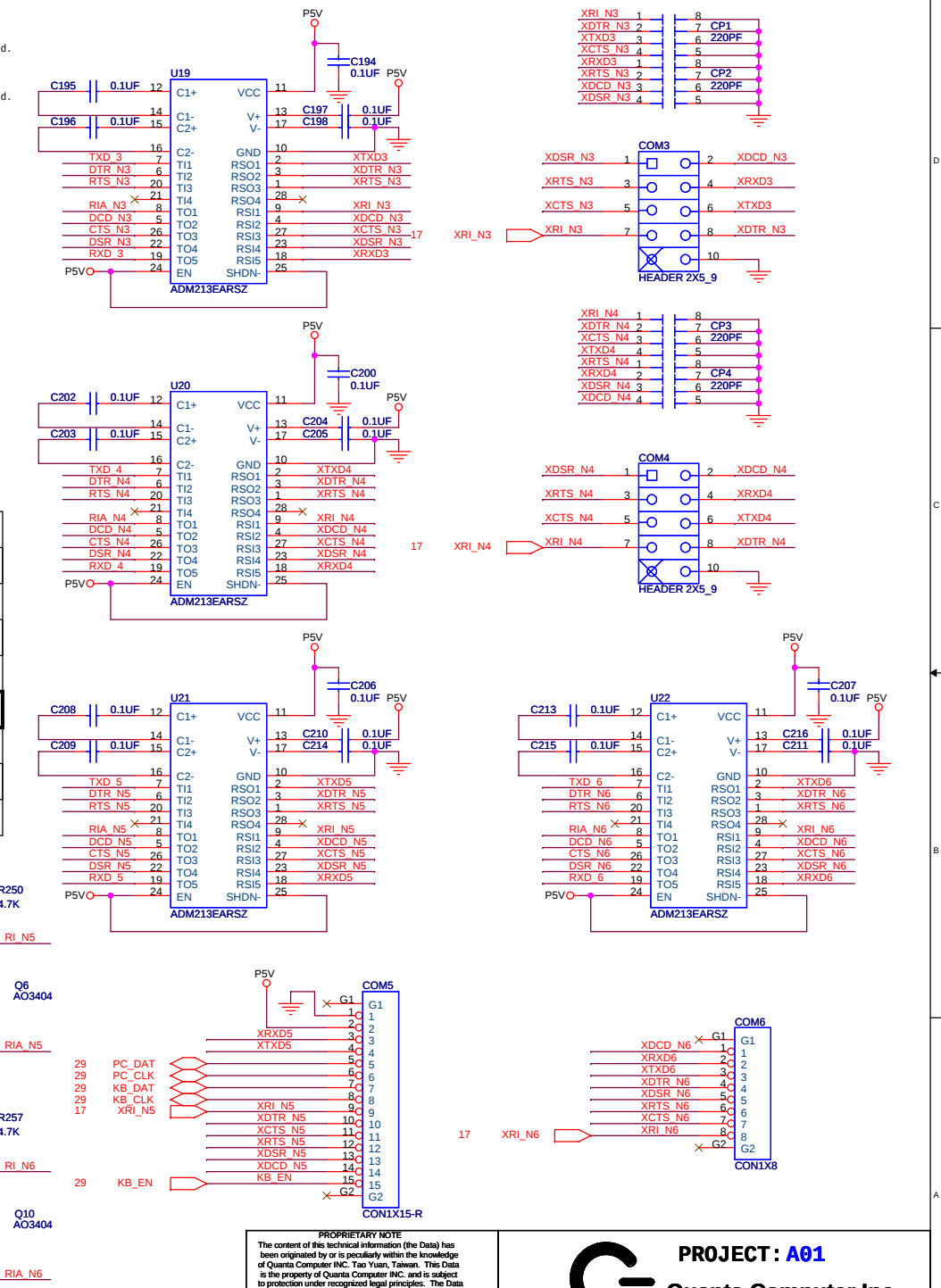
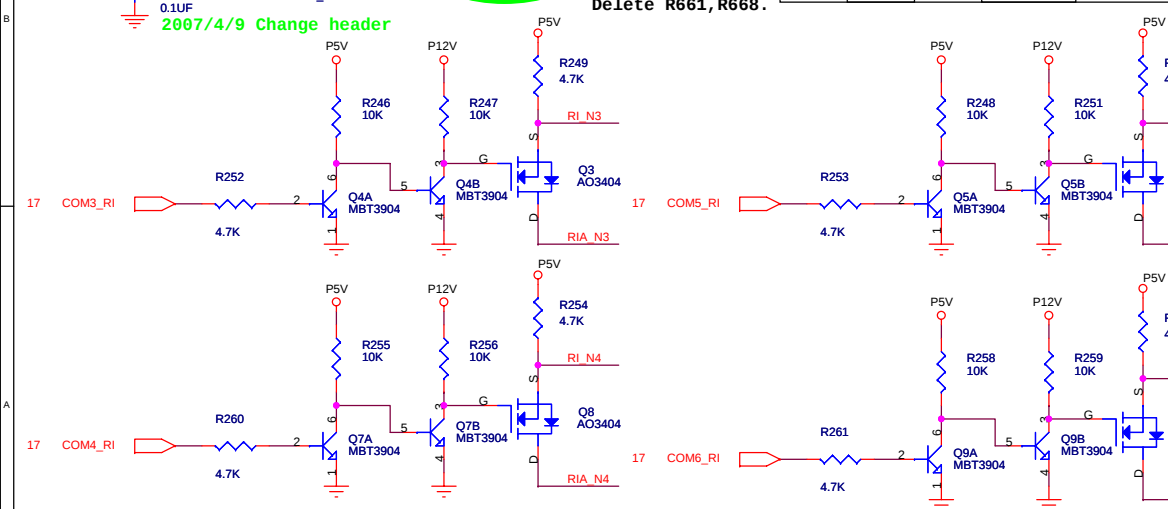
Size	Document Number	Rev
B	<Doc>	C1A
	SB 82801 ICH4 #3	
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(Power On Setting Pin)

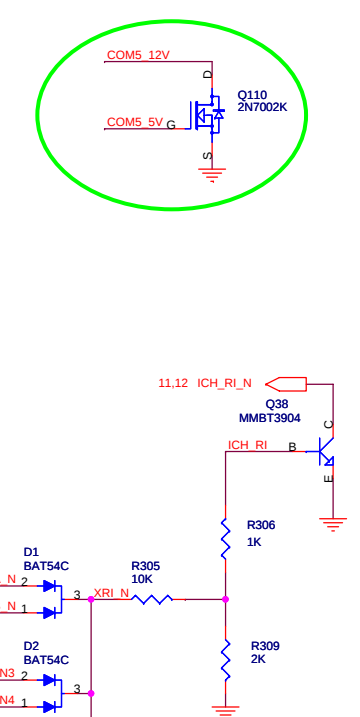
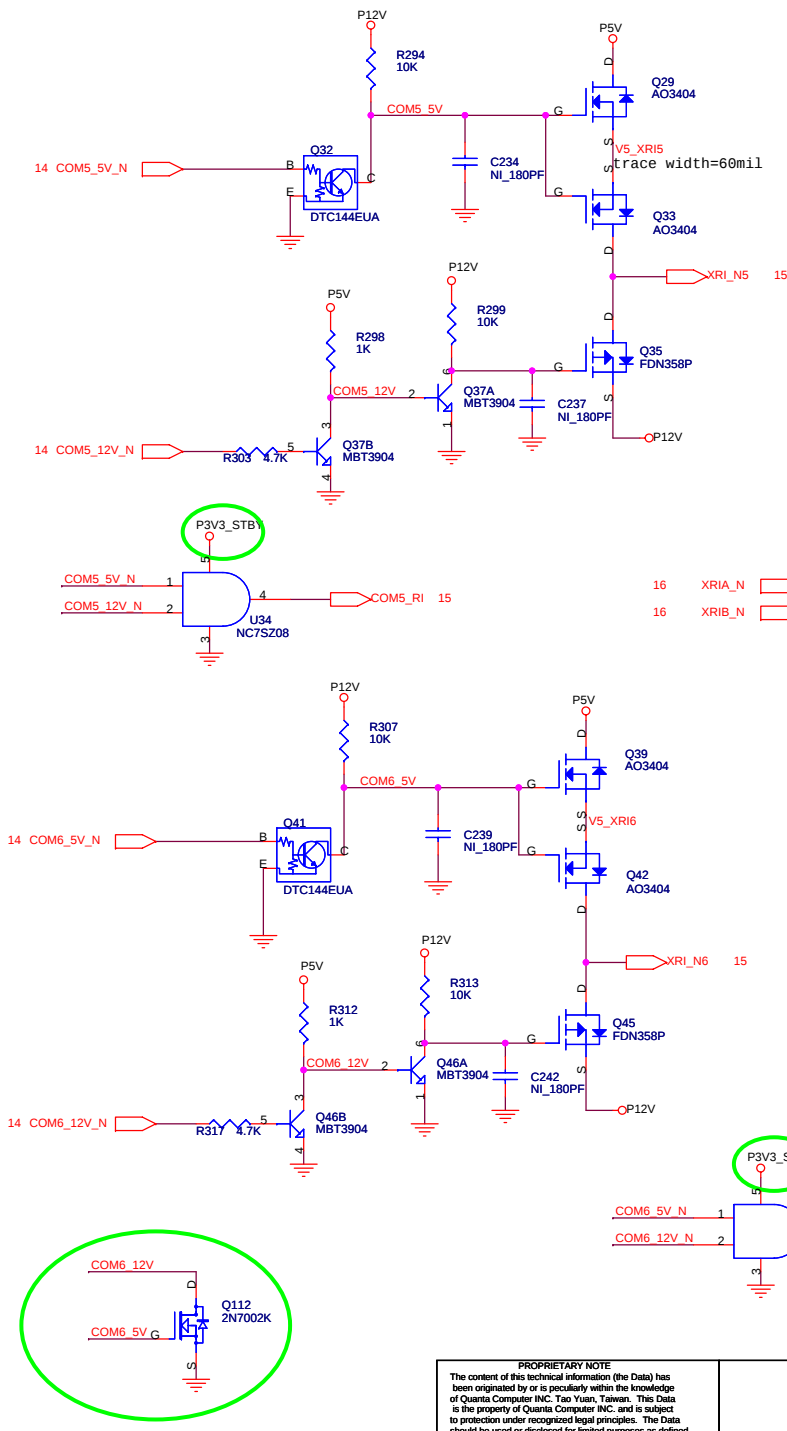
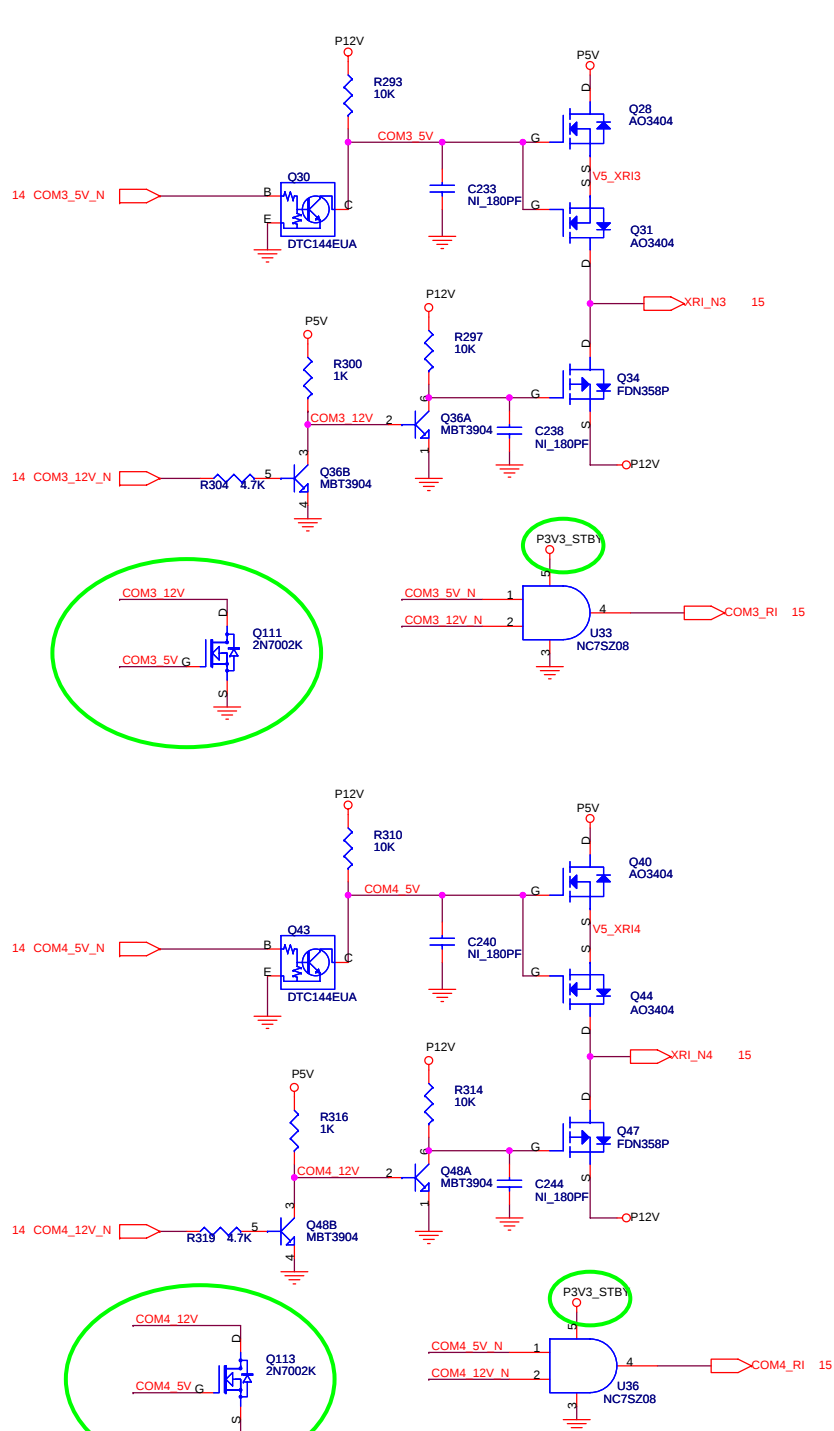


RTS_N2	RTS_N3	RTS_N1	Address	Entry Key
0	0	0	0x4e0x4f	0x77
0	0	1	0x2e0x2f	0x77
0	1	0	0x4e0x4f	0xa0
0	1	1	0x2e0x2f	0xa0
1	0	0	0x4e0x4f	0x87
1	0	1	0x2e0x2f	0x87
1	1	0	0x4e0x4f	0x67
1	1	1	0x2e0x2f	0x67



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2007/4/9 Delete R295, R296, R301, R302, R311, R308, R315, R318, C243, C241, C235, C236

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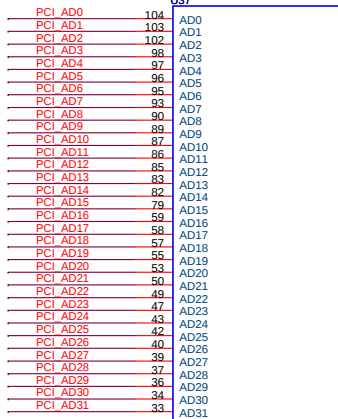
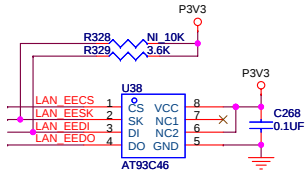
 PROJECT: A03 Quanta Computer Inc.		Rev
		C1A
Size	Document Number	RING/+12V/+5V Control
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Date:	Friday, June 29, 2007	Sheet 17 of 38

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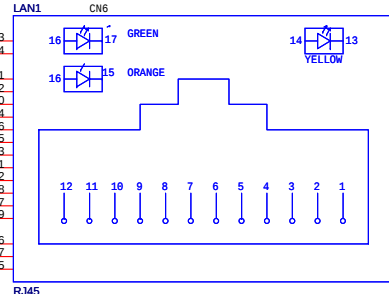
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PGNT=2
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INT=PIRQ#D

11.19.20.22 PCI_CBE_N0
11.19.20.22 PCI_CBE_N1
11.19.20.22 PCI_CBE_N2
11.19.20.22 PCI_CBE_N3
3 LAN_CLK33
11.19.20.22 PCI_DEVSEL_N
11.19.20.22 PCI_FRAME_N
11.19.20.22 PCI_IRQ_N2
11.19.20.22 PCI_IRQD_N
11.19.20.22 PCI_IRDY_N
11.19.20.22 PCI_STOP_N
11.19.20.22 PCI_TRDY_N
11.19.20.22 PCI_PAR
11.19.20.22 PCI_PERR_N
11.19.20.22 PCI_SERR_N
11.19.20.22 PCI_STOP_N
11.15.19.20.22 PCI_RST_N
P5V0 R325 1K
R326 15K
ISOLATE N
23

2007/4/9 R328 change to NI.



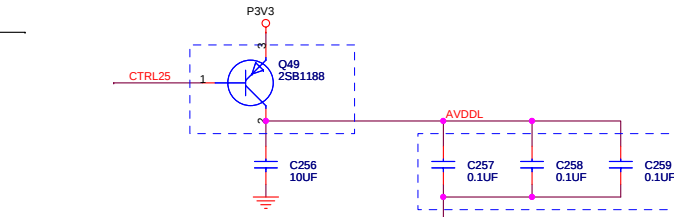
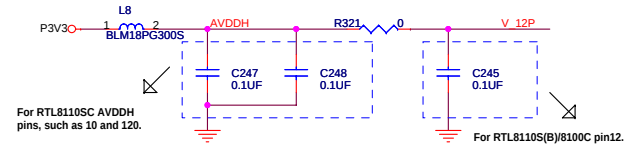
RTL8110SCL-GR



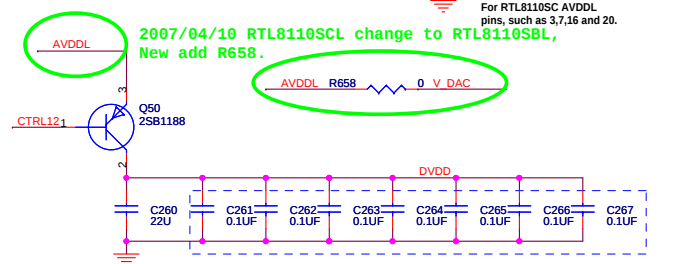
10/100M use P/N:DFHS17FR129
1000M use P/N:DFHS17FR056

RTL8110SBL

AVDDH	+3.3V
V_12P	+3.3V
AVDDL	+2.5V
V_DAC	+2.5V
DVDD	+1.2V
DVDD_A	+1.2V

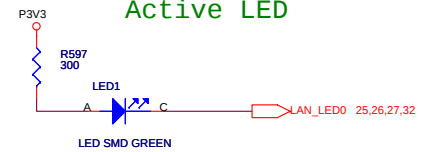
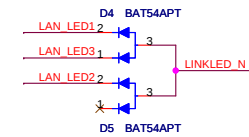


2007/04/10 RTL8110SCL change to RTL8110SBL,
New add R658.



For RTL8110SCL/8100C DVDD pins, such as 24,32,45,54,64,78,99,110 and 116.

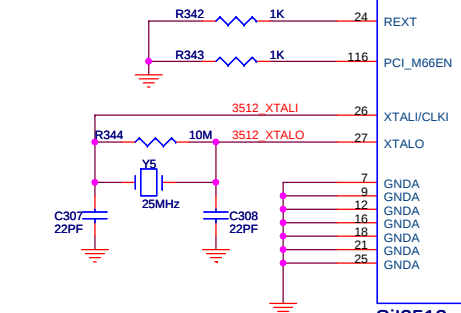
Active LED



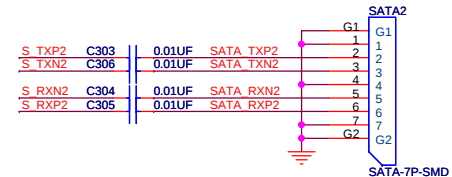
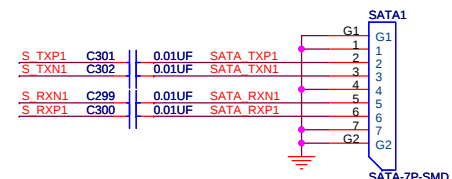
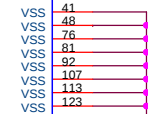
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Quanta Computer Inc.	
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Custom<Doc>	LAN RTL8110SC
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11,18,20,22 PCI_AD[31..0] PCI_AD[31..0]



SiI3512



SATA-7P-SMD

SATA-7P-SMD

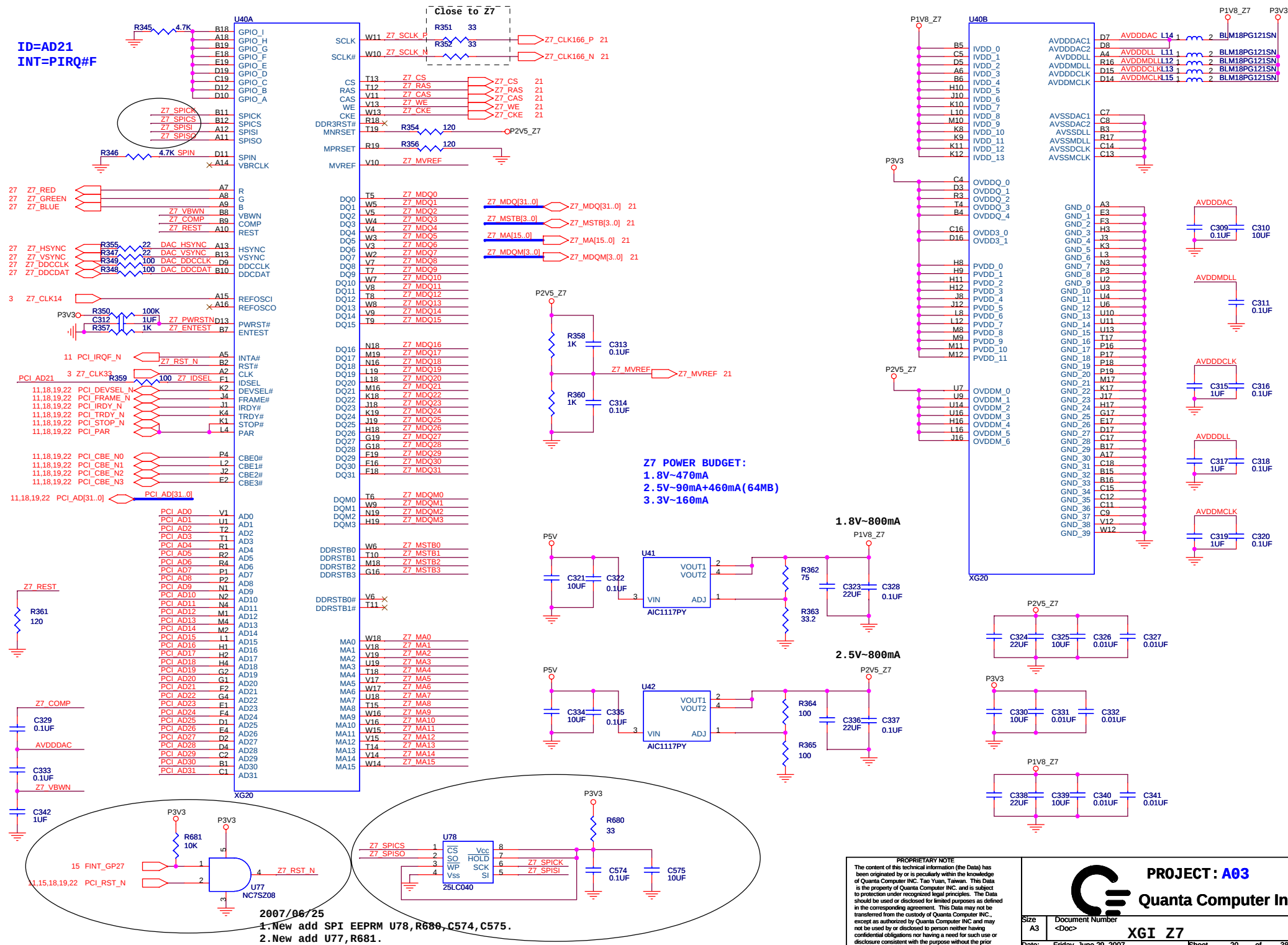
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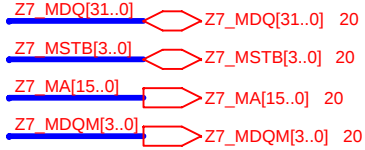
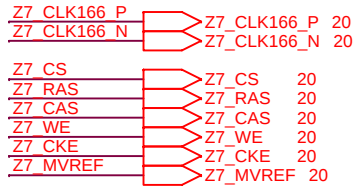


SATA SiI3512

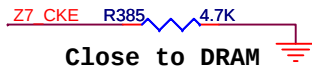
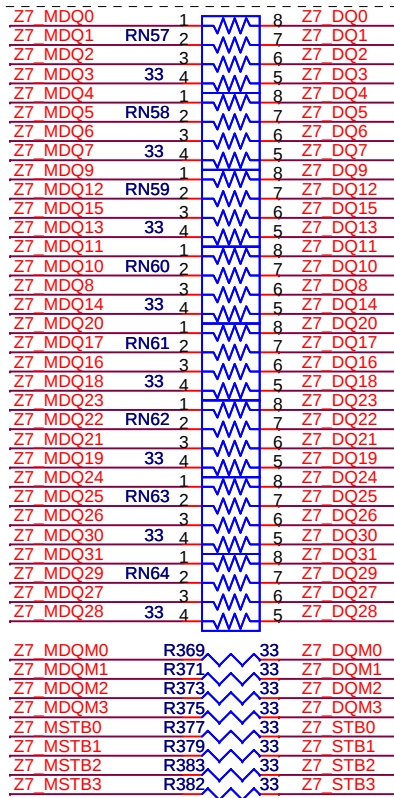
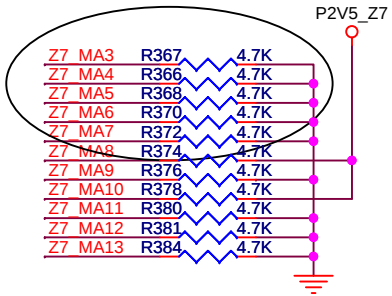
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Rev
C1A



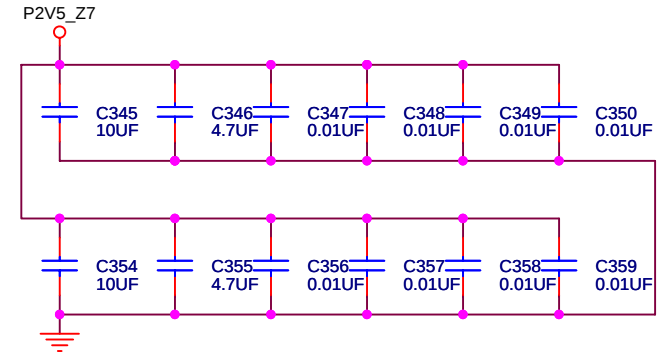
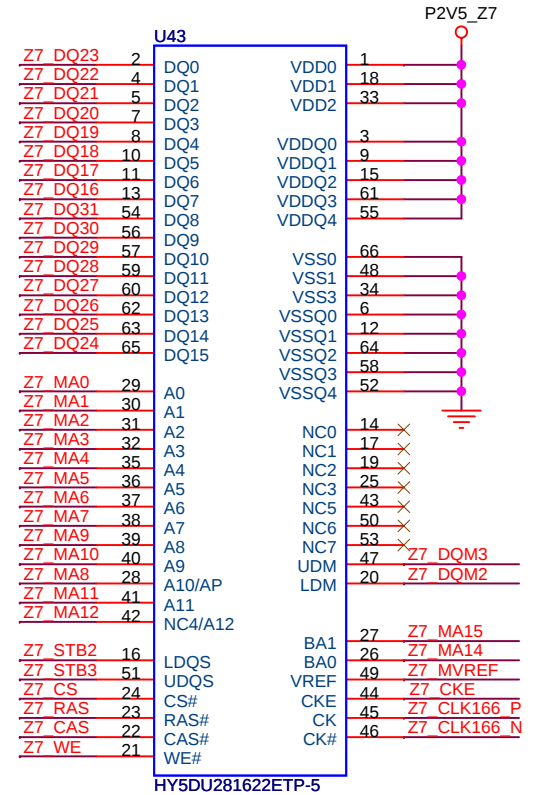
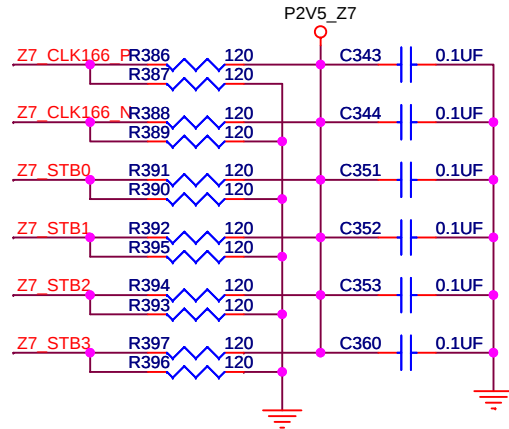
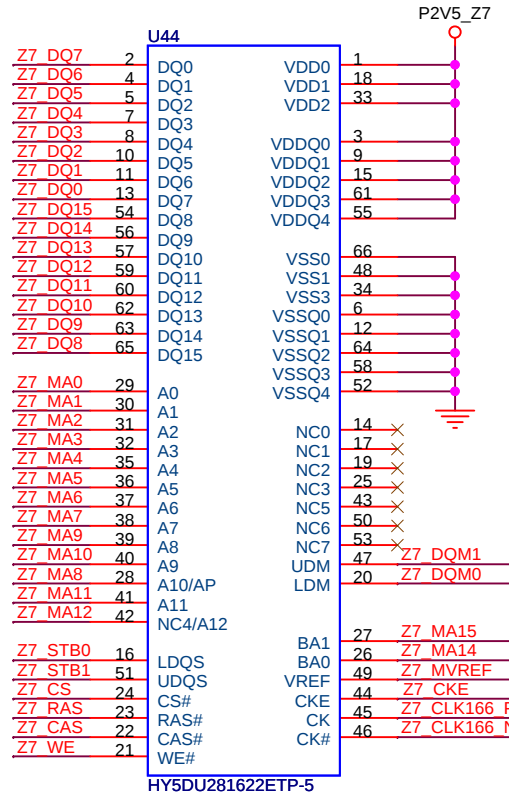


2007/06/25
R367,R370 change to pull down.



Close to DRAM

16M*16bit:AKD3JG-KW08
8M*16bit:AKD3DG-KW02



Pin Name	Value	Description	Default
MAA 3	0 1	Enable SPI Disable SPI	0
MAA4	0 1	32KB ROM decoding 64KB ROM decoding	0
MAA5	0 1	Disable PCI AD Bus Reverse Enable PCI AD Bus Reverse	0
MAA6	0 1	Sub-system ID auto-fetch Sub-system ID programmable	0
MAA7	0 1	D2 state Enable D2 state Disable	0
MAA8	0 1	Local Frame Buffer Size -- MAA[10:8] 0 0 0: 2MB 1 0 1: 64MB	0
MAA9	0 1	0 0 1: 4MB 1 1 0: 128MB 0 1 0: 8MB 1 1 1: 256MB	0
MAA10	0 1	0 1 1: 16MB 1 0 0: 32MB	1
MAA11	0 1	PCI I/O interface driving control 0: Weak 1: Strong	0
MAA12	0 1	Select internal clock generator Select external clock generator	0
MAA13	0 1	BCLK DLL Enable BCLK DLL Disable	0

Note: 1. If the serial ROM is not used (integrated system BIOS), then MAA3 and MAA6 both need to be high.

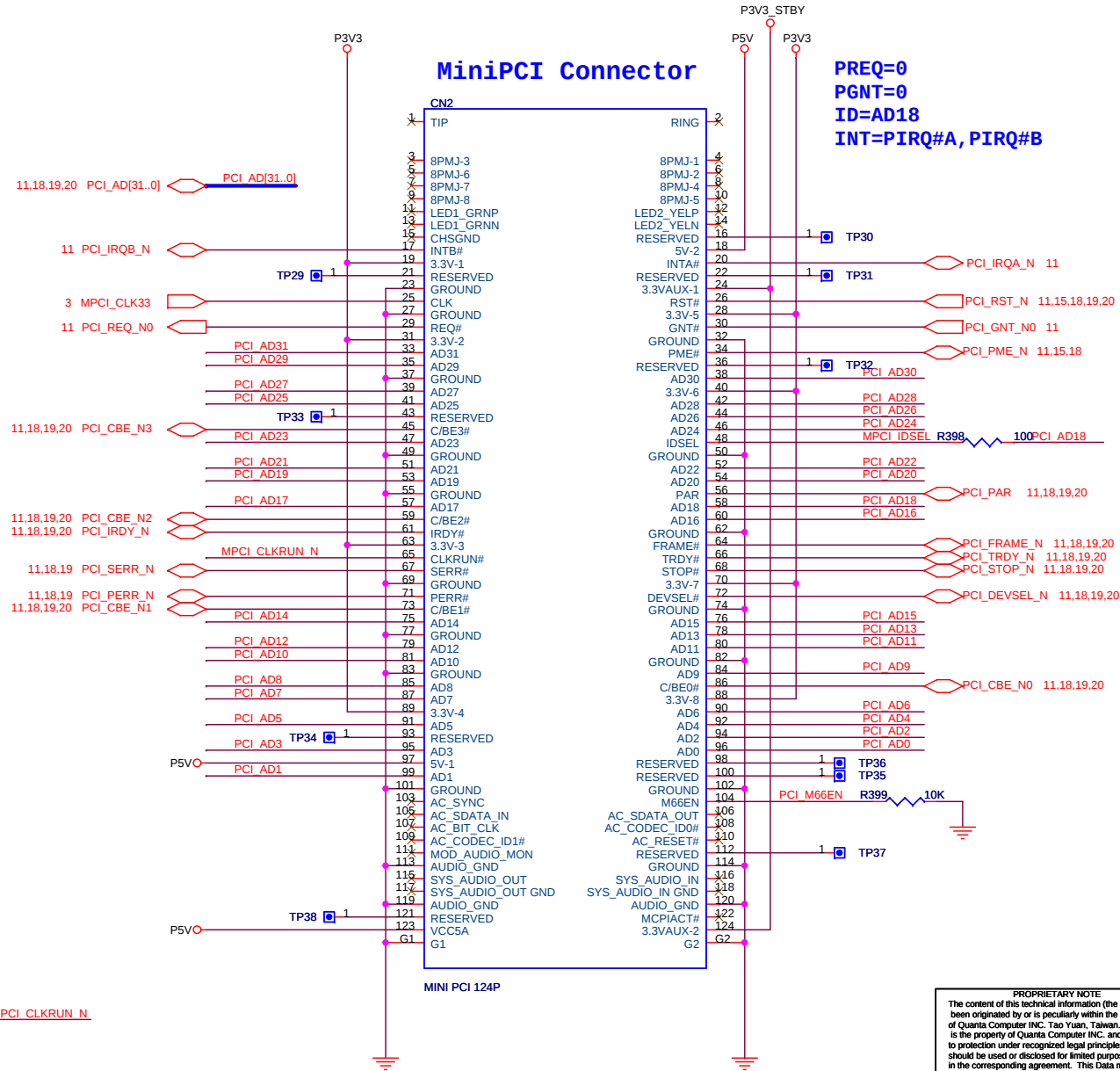
2. The hardware trapping signal needs to be set high or low, depending on the system configuration. These pins cannot be left floating or open.

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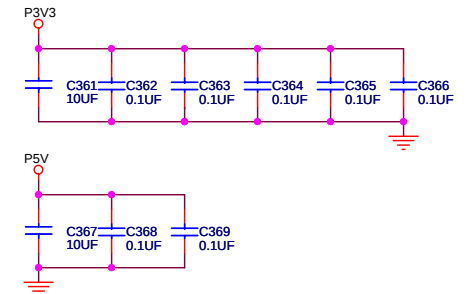
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Quanta Computer Inc.

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XGI Z7 DDR SDRAM		
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MiniPCI Connector



MiniPCI By-pass Cap.



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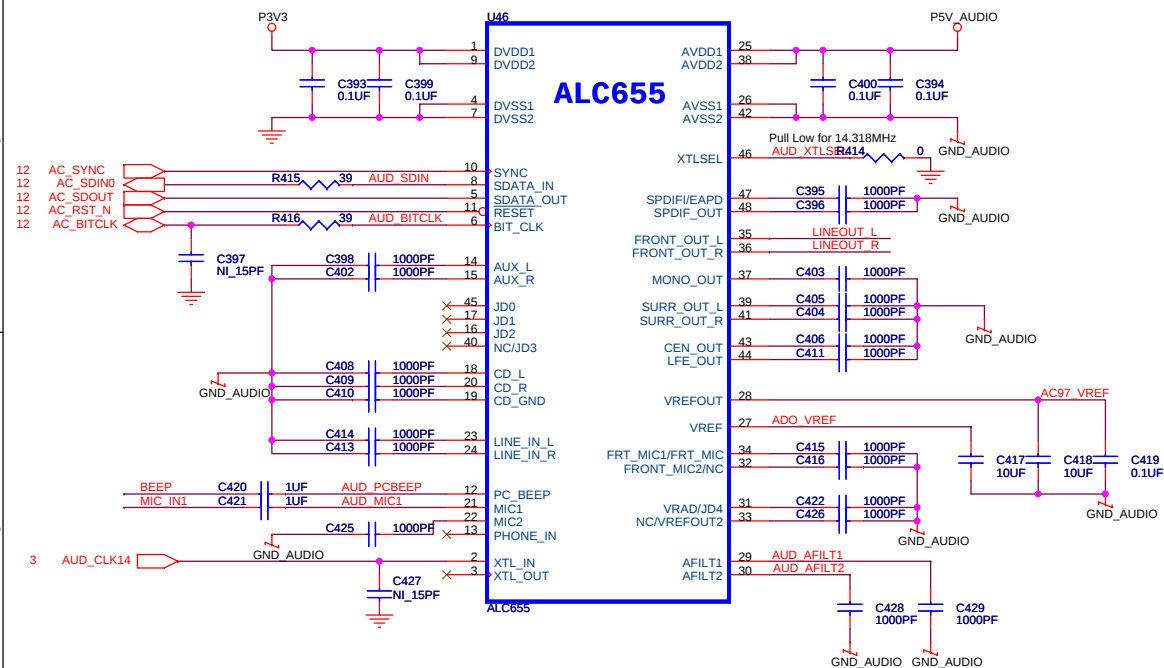


PROJECT : A03
Quanta Computer Inc.

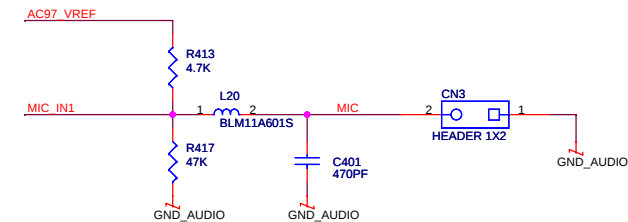
Size B	Document Number <Doc>	Rev C1A
Date: Friday, June 29, 2007	MINIPCI SLOT	Sheet 22 of 38

AC'97 CODEC

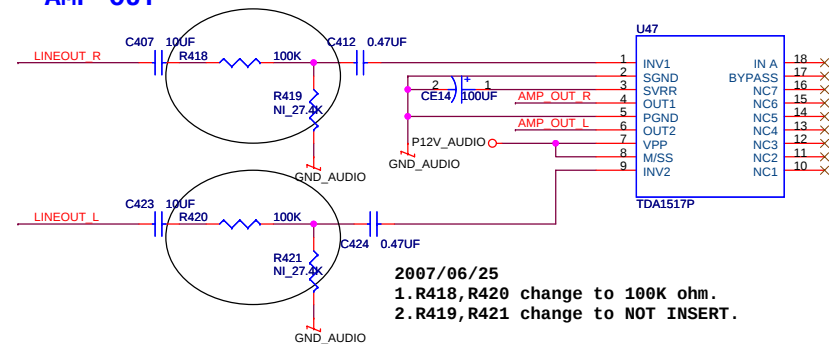
ALC655



MIC IN



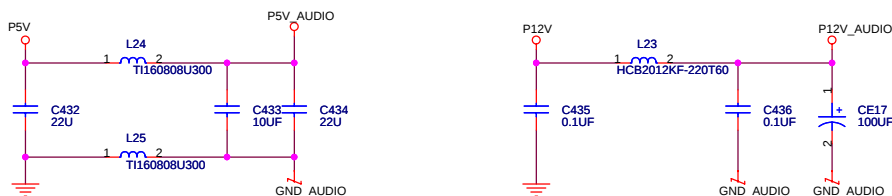
AMP OUT



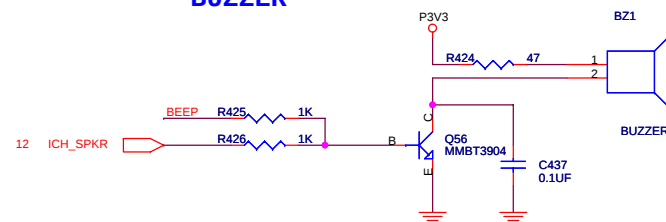
2007/06/25

1. R418, R420 change to 100K ohm.
2. R419, R421 change to NOT INSERT.

ANALOG POWER



BUZZER



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PROJECT: A03

Quanta Computer Inc.

Size A3

Document Number <Doc>

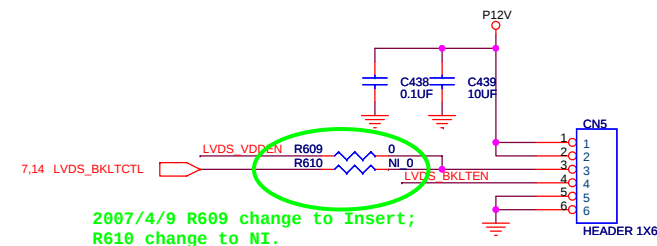
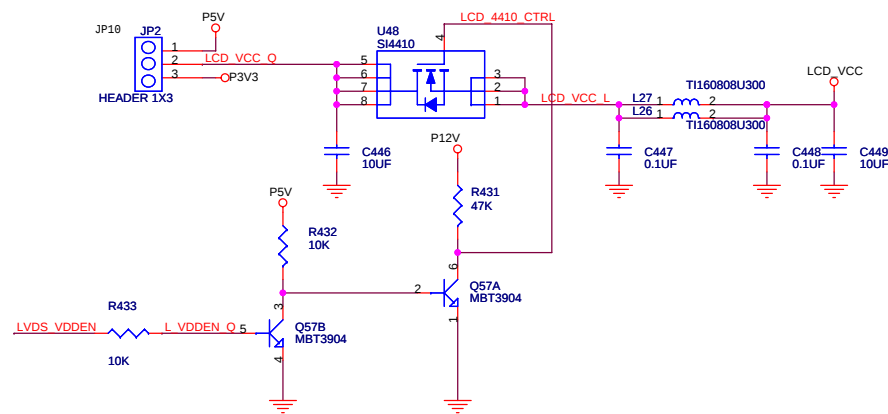
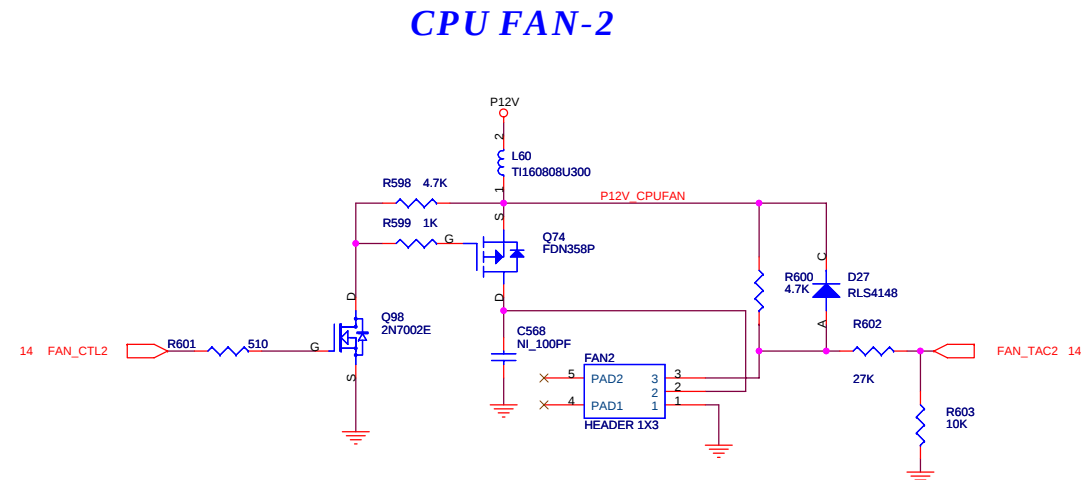
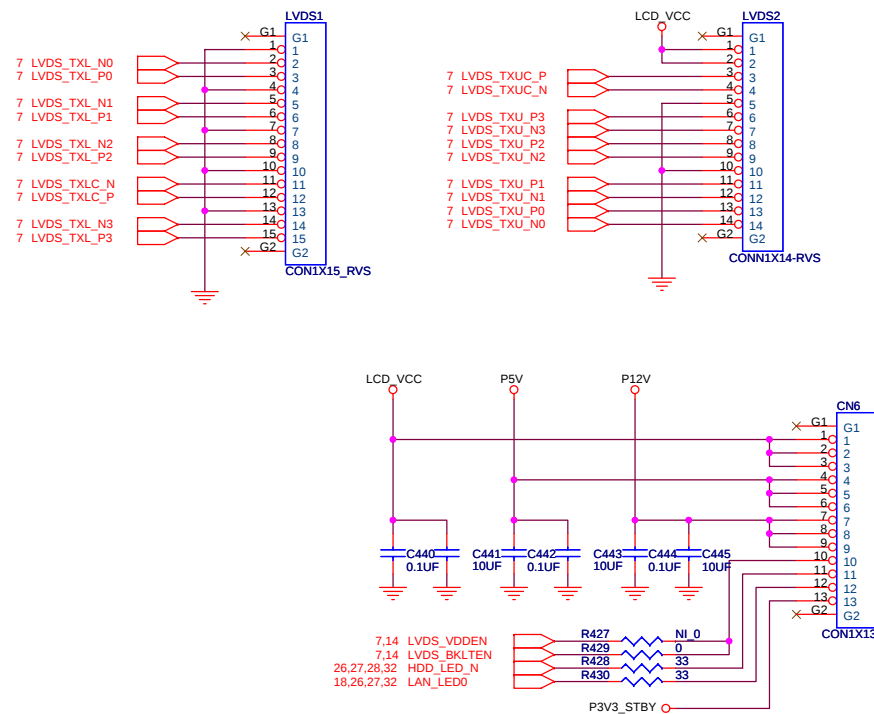
ALC655

Rev

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CIA

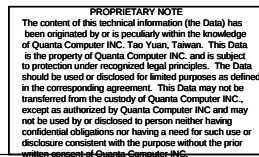
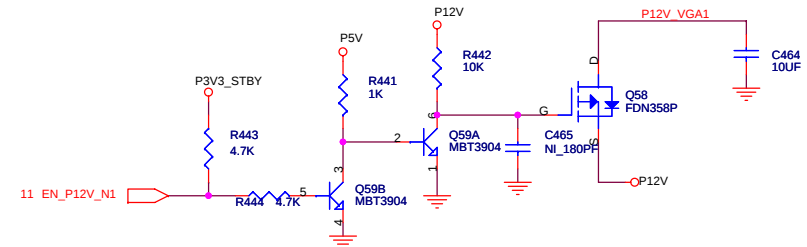
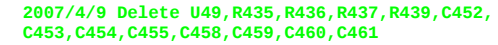


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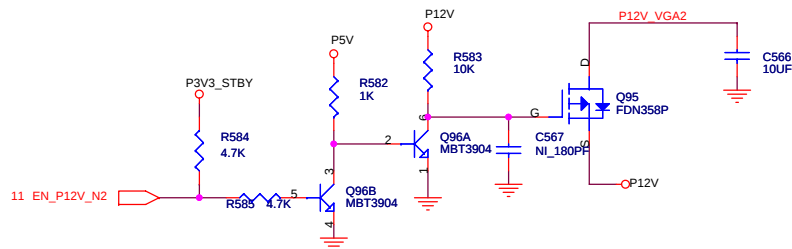
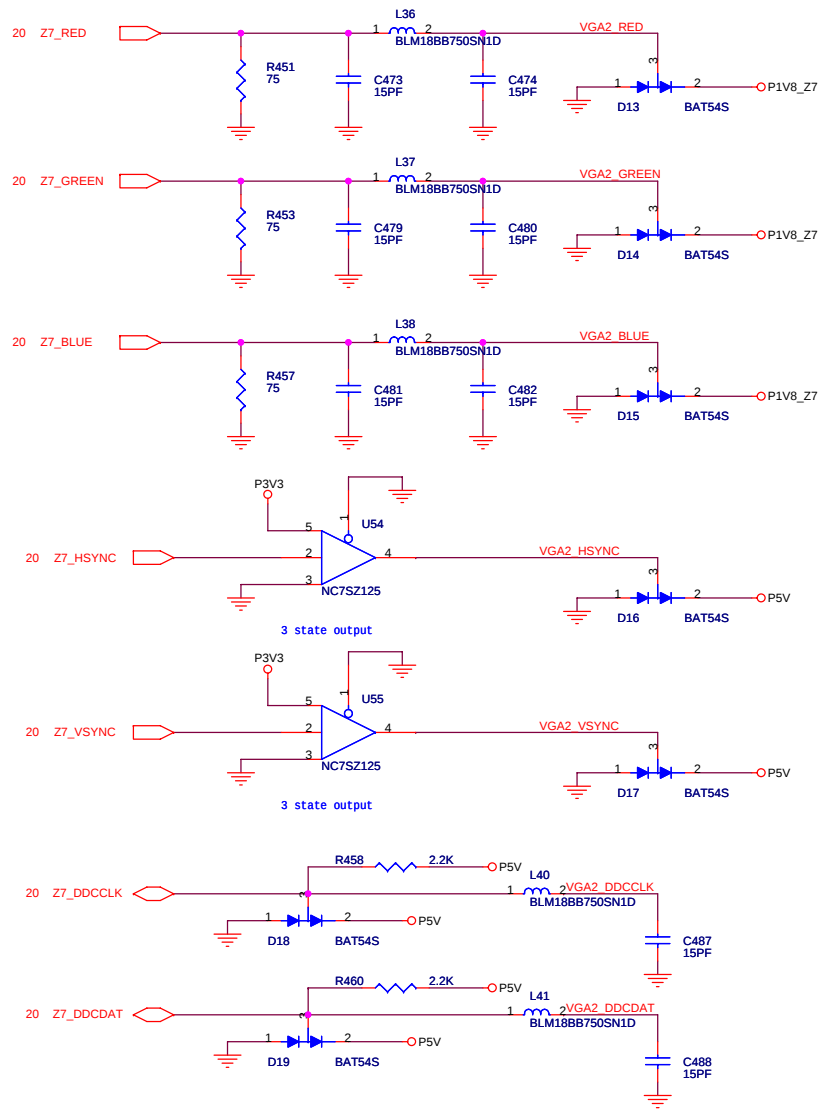
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Quanta Computer Inc.

Size	Document Number	Rev
A3	<Doc>	C1A
LVDS		
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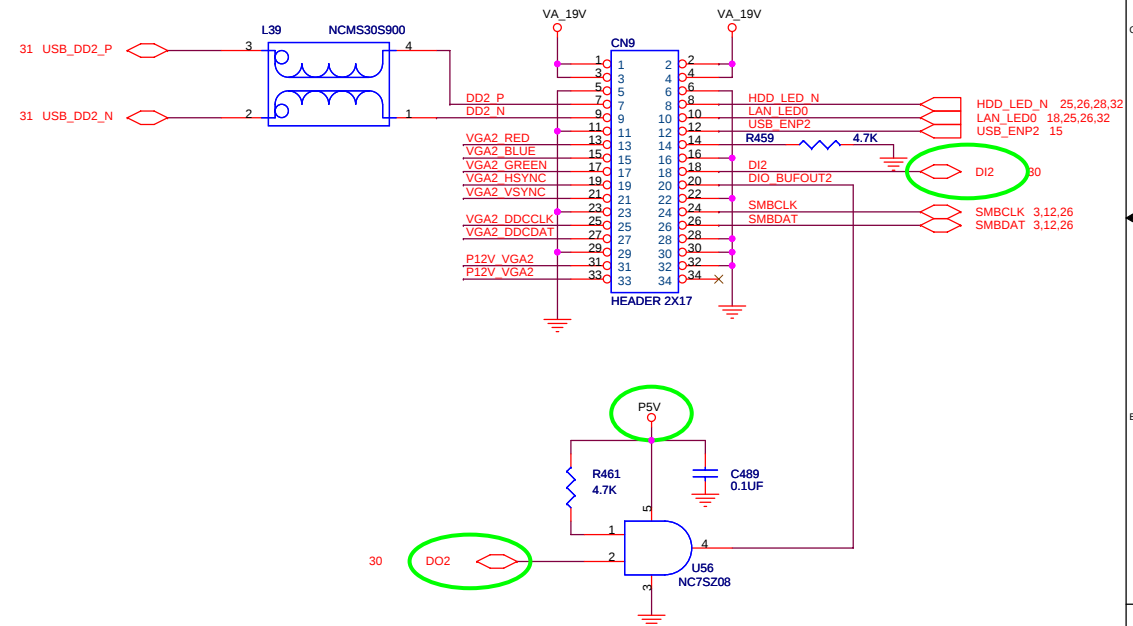


 PROJECT: **A03**
Quanta Computer Inc.

Size A3	Document Number <Doc>	Rev C1A
VGA1 From NB		
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2007/4/9 Delete
U53, R452, R454, R455, R456, C475, C476,
C477, C478, C483, C484, C485, C486.



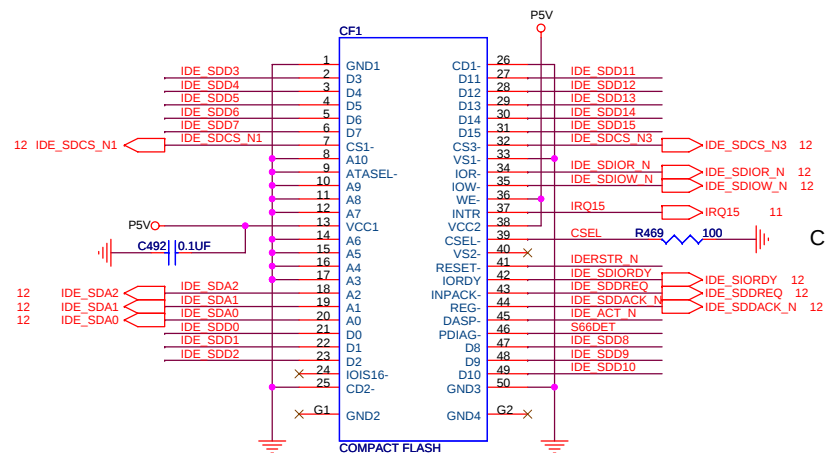
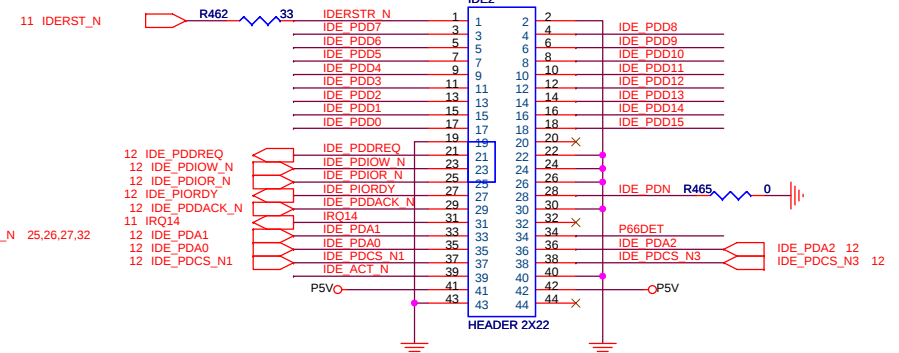
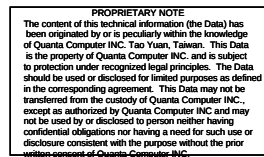
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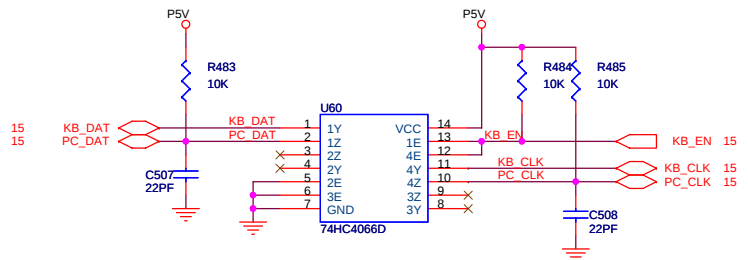
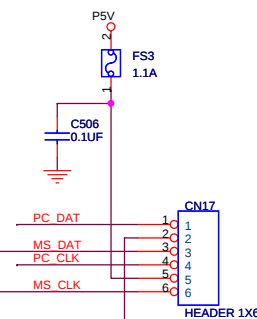
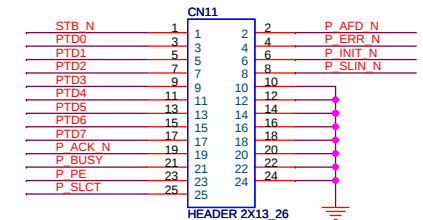
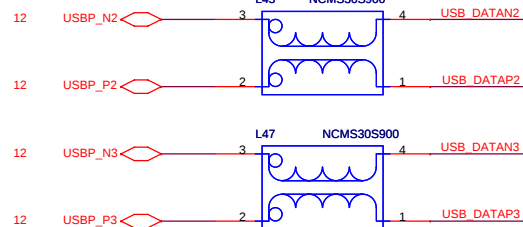
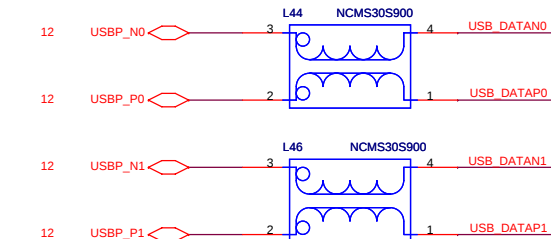


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Size	Document Number	Rev
A3	<Doc>	C1A
VGA1 From Z7		
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Pin	Function	Pin	Function
1	IDERST_N	2	IDE_PDD8
2	IDE_PDD7	3	IDE_PDD9
3	IDE_PDD6	4	IDE_PDD10
4	IDE_PDD5	5	IDE_PDD11
5	IDE_PDD4	6	IDE_PDD12
6	IDE_PDD3	7	IDE_PDD13
7	IDE_PDD2	8	IDE_PDD14
8	IDE_PDD1	9	IDE_PDD15
9	IDE_PDD0	10	
10	IDE_PDDREQ	11	
11	IDE_PDIOW_N	12	
12	IDE_PDIOI_N	13	
13	IDE_PDIORDY	14	
14	IDE_PDIACK_N	15	
15	IRQ4	16	
16	IDE_PDA1	17	
17	IDE_PDA0	18	
18	IDE_PDCS_N1	19	
19	IDE_ACT_N	20	
20		21	
21		22	IDE_PDD8
22		23	IDE_PDD9
23		24	IDE_PDD10
24		25	IDE_PDD11
25		26	IDE_PDD12
26		27	IDE_PDD13
27		28	IDE_PDD14
28		29	IDE_PDD15
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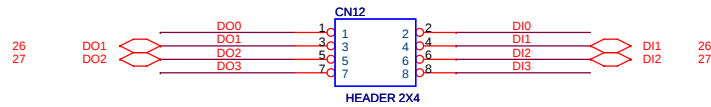
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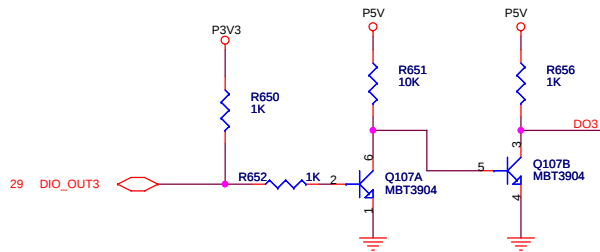
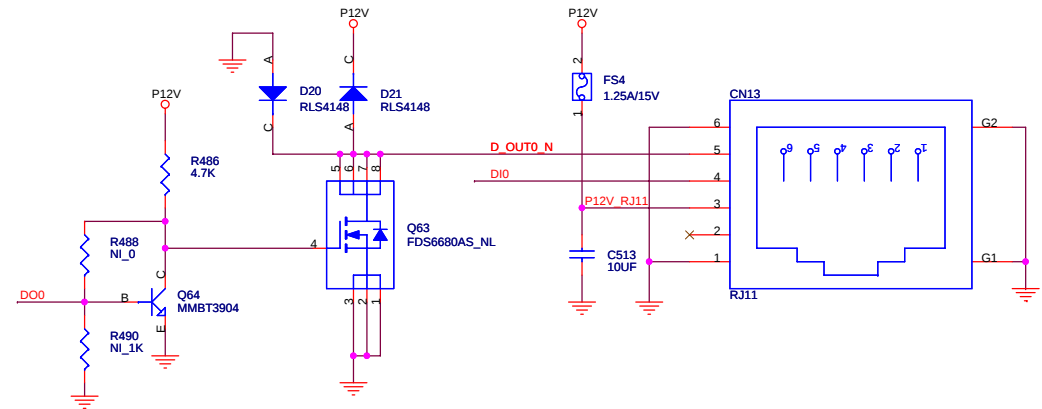
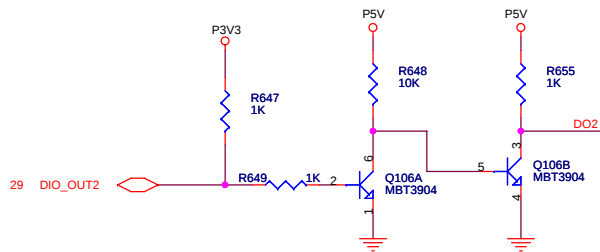
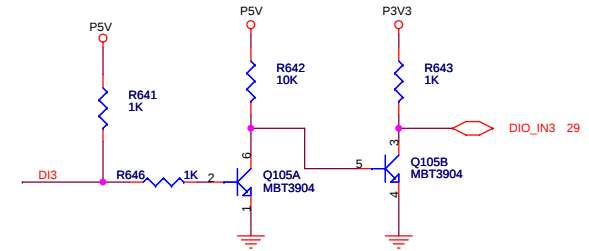
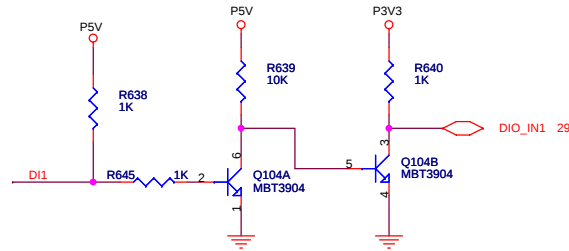
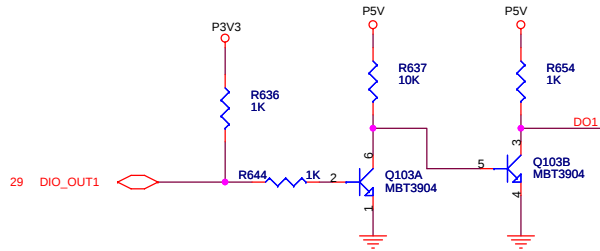
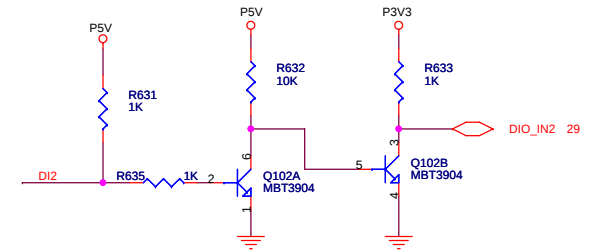
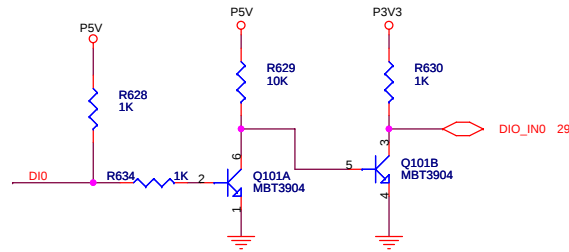
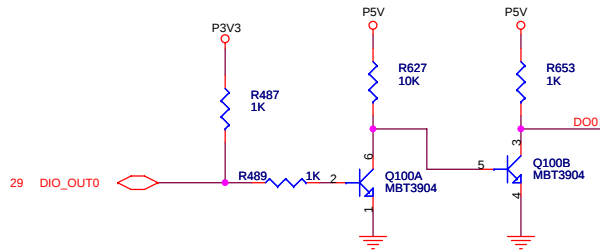
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Digital IO: 4 IN / 4 OUT



2007/4/9 Delete RN66,RN67,
New Add GPIO Level shift circuitry.

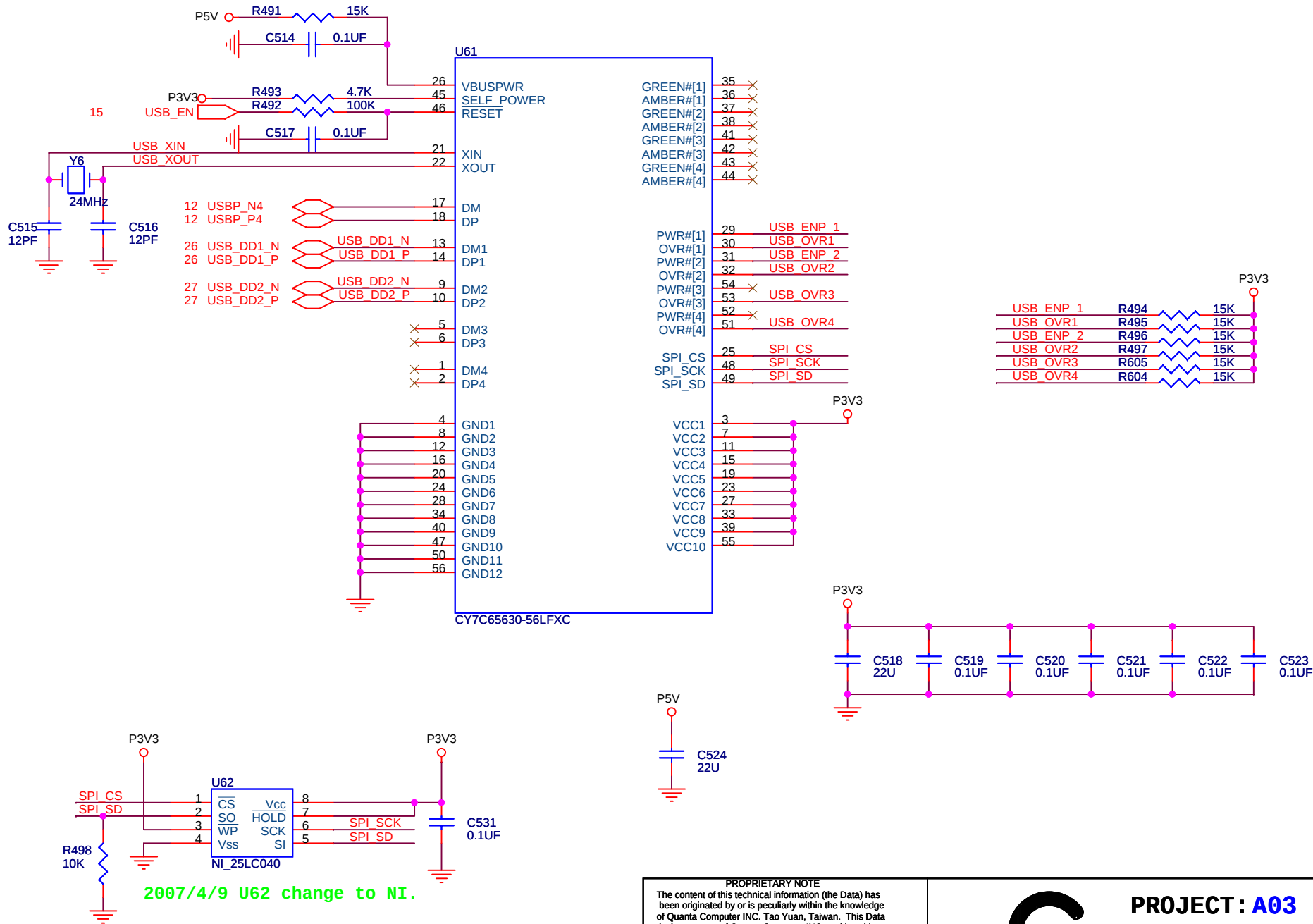


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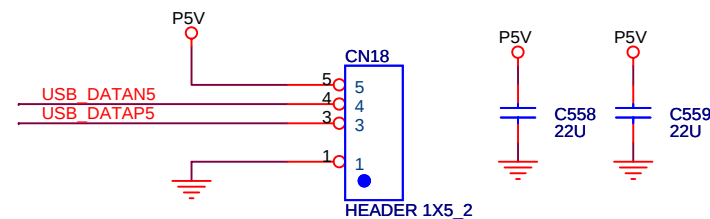
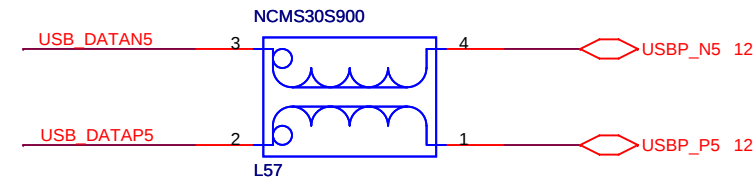
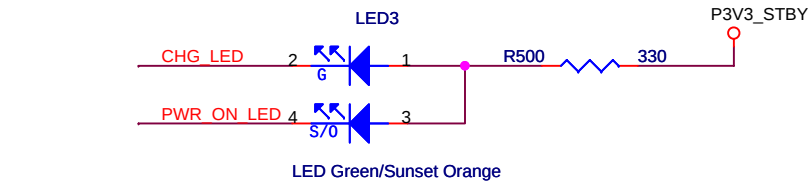
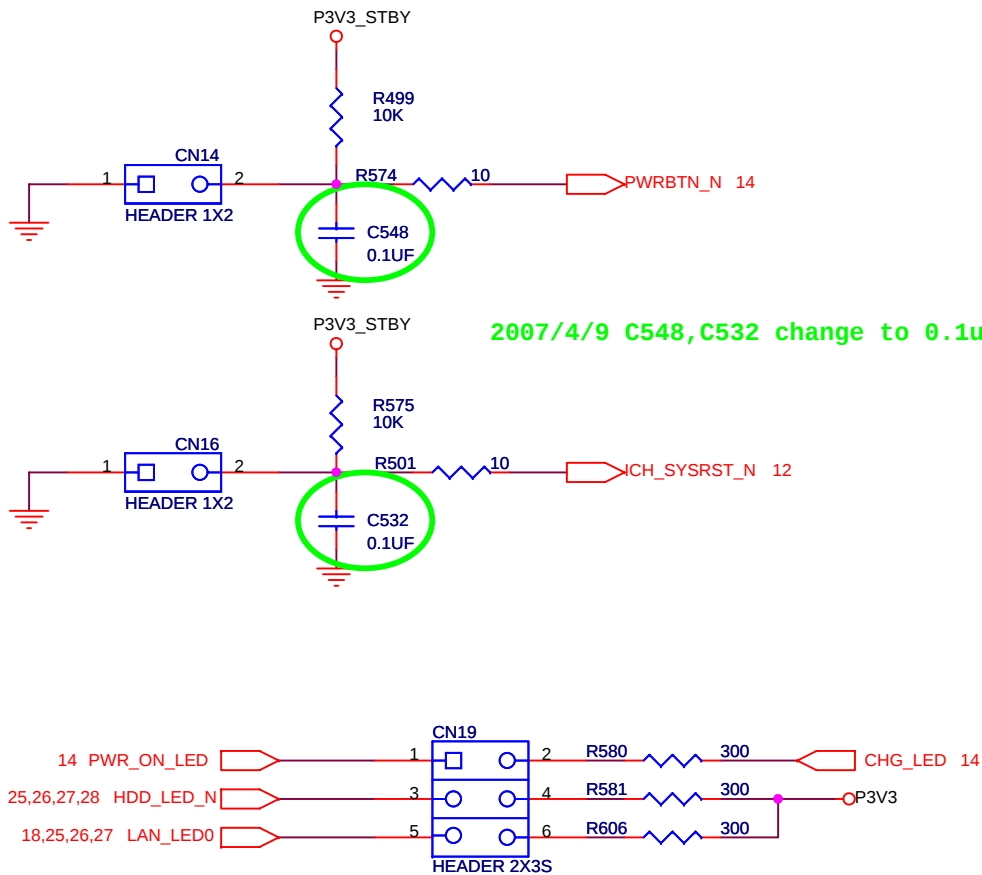
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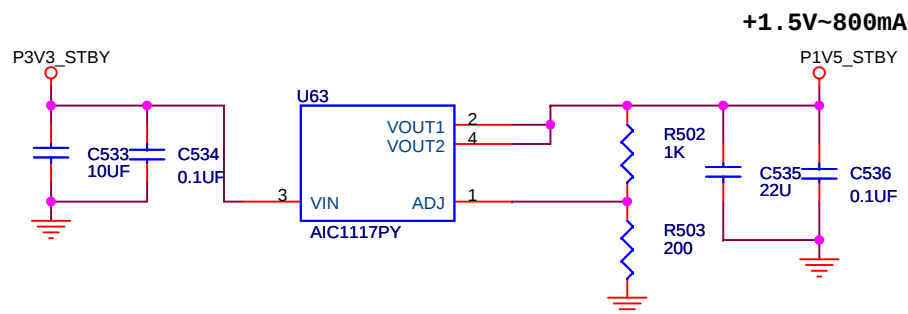
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2007/4/9 Delete U75,R577,R578,C549,C550,C557.

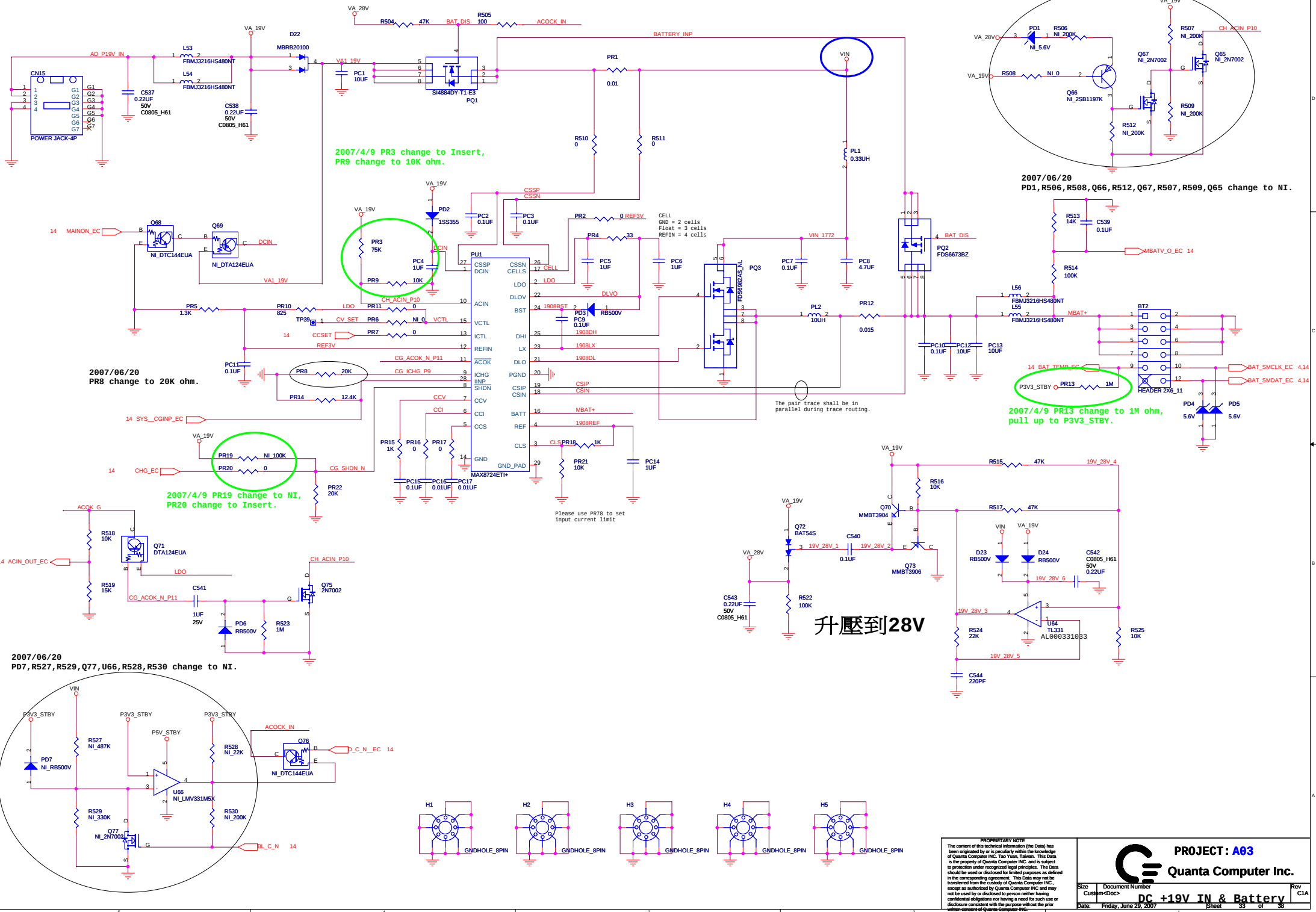


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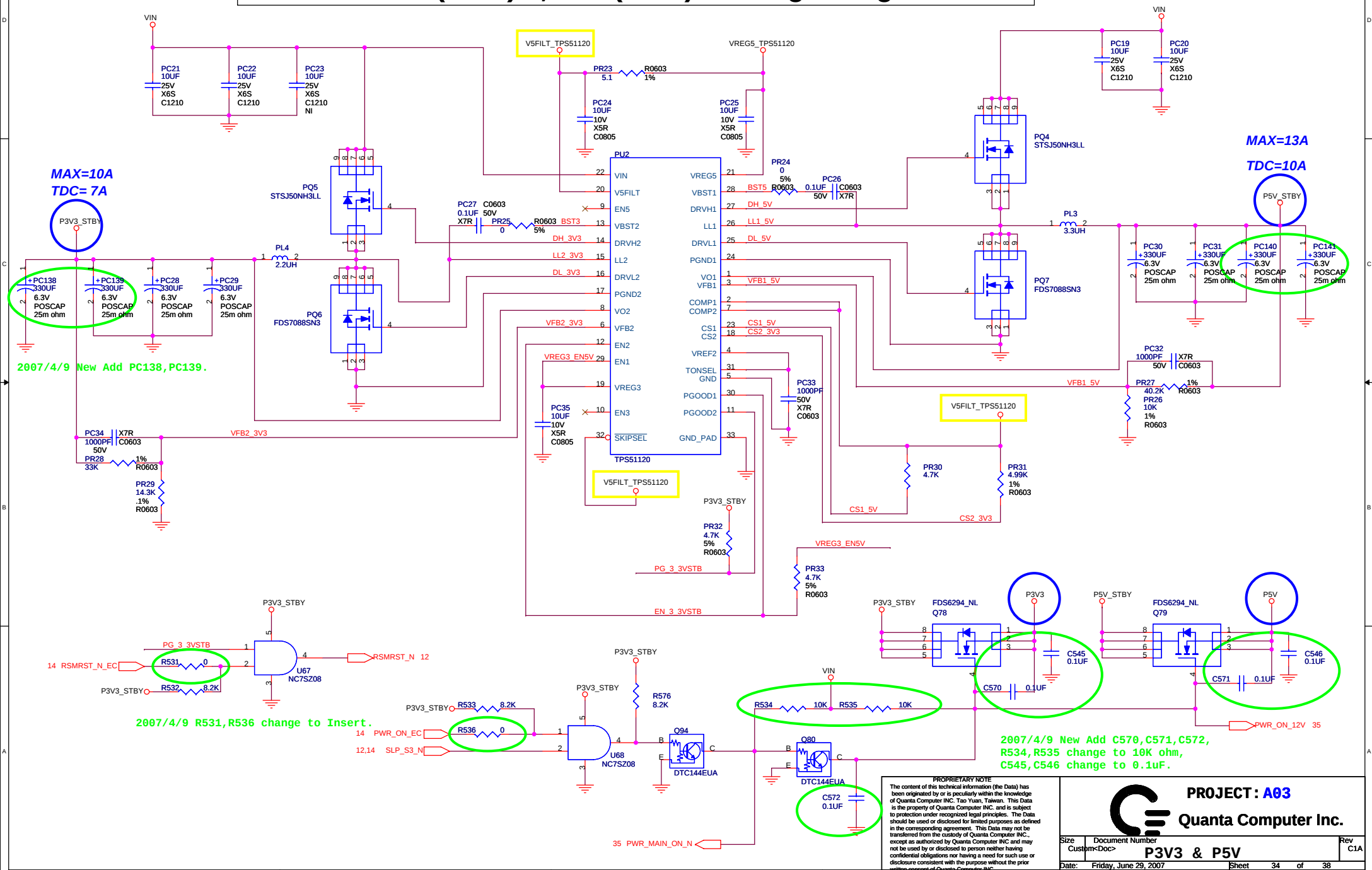


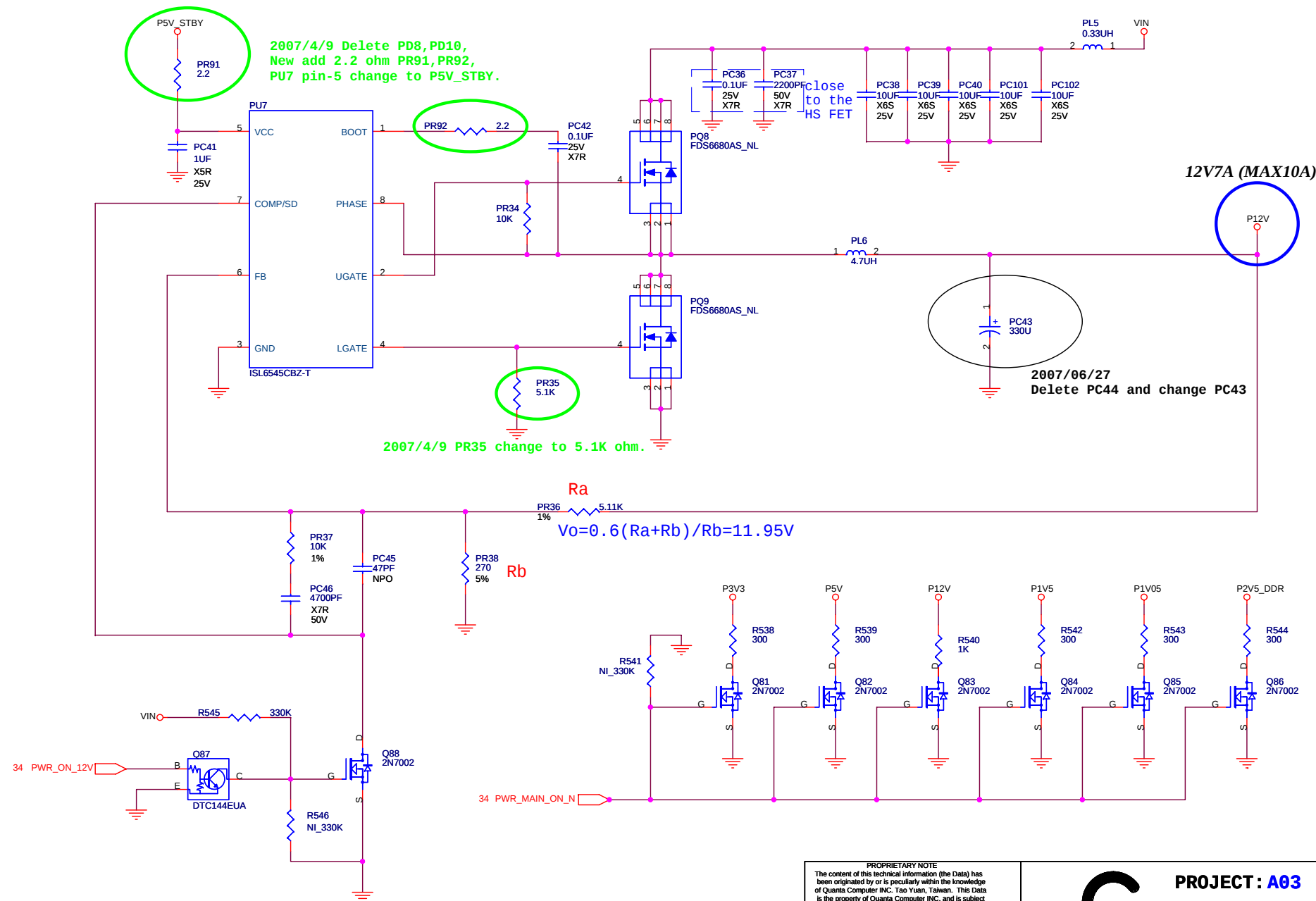
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Power Button		
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3.3V / 10A(Max) , 7A(TDC)Voltage Regulator 5.0V / 10A(Max) , 7A(TDC)Voltage Regulator



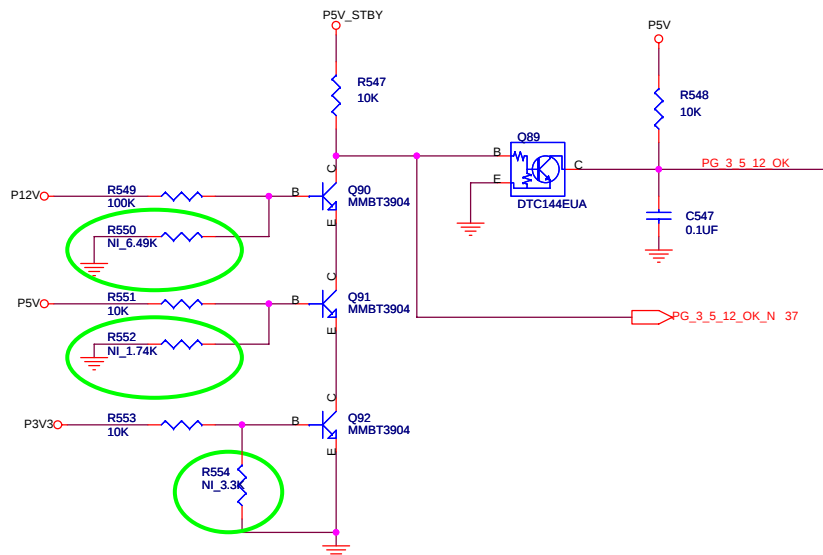
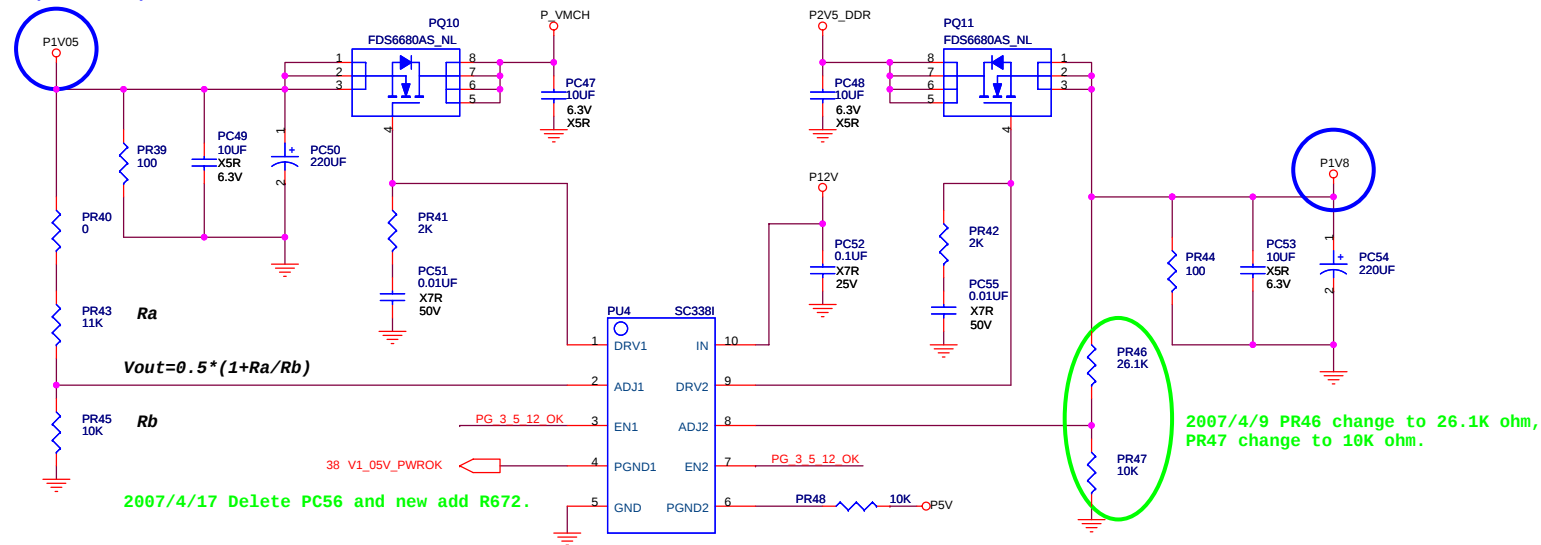


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2.5V / 4.8A(Max) , 4A(TDC)Voltage Regulator 1.35V / 2.42A(Max) , 2A(TDC)Voltage Regulator

