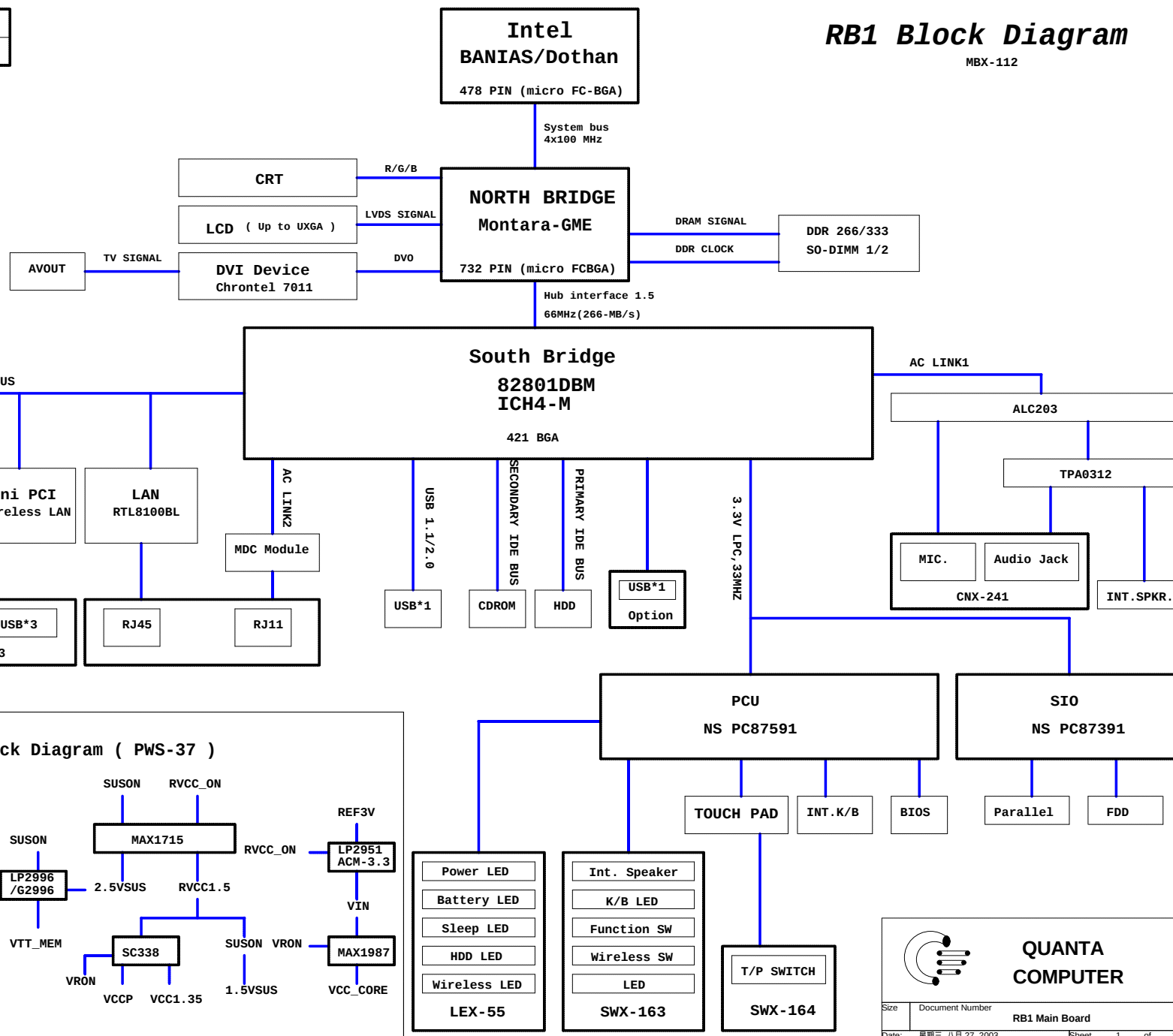


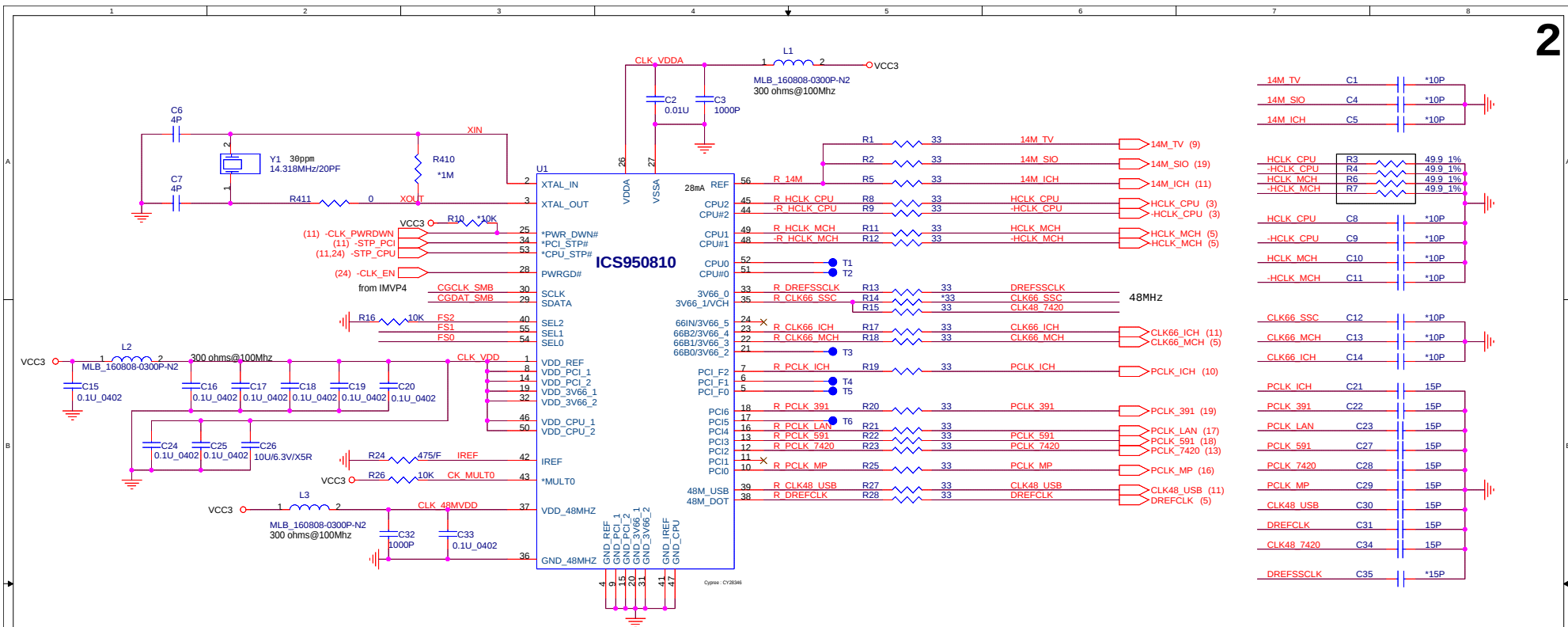
RB1 Block Diagram

MBX-112

* GM GME

1. VCC PR57:	1.2V 17.4K/F	1.35V 14K/F
2. HLRCOMP R91:	27.4/F	37.4/F





X : Pull high or pull low
Mid : Pin float

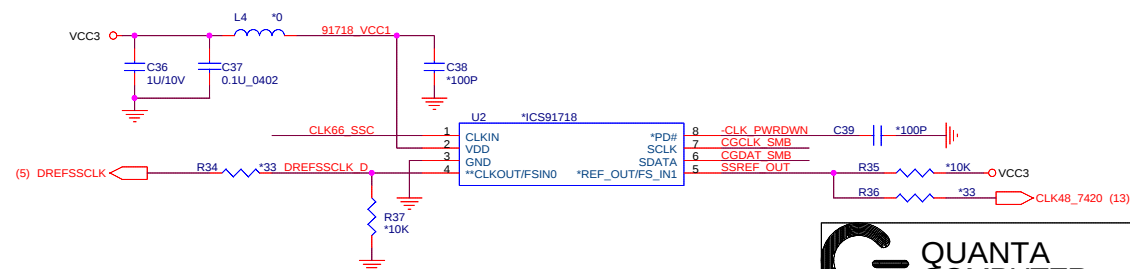
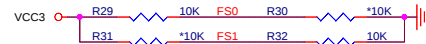
FS2	FS1	FS0	CPU	3V66[5:0]	PCI_F[2:0]
X	0	0	166.66	66.66	33.33
* X	0	1	100.00	66.66	33.33
X	1	0	200.00	66.66	33.33
X	1	1	133.33	66.66	33.33
Mid	0	0	Tristate	Tristate	Tristate
Mid	0	1	TCLK/2	TCLK/4	TCLK/8
Mid	1	0	Reserved	Reserved	Reserved
Mid	1	1	Reserved	Reserved	Reserved

1. Use ICS 91718
Mount : U2, R35, R36, R37, R34, L4, R14
No mount : R13, R15
2. Don't use ICS91718
Mount : R13, R15
No mount : U2, R35, R36, R37, R34, L4, R14

* : Internal pull-up resistor
** : Internal pull-down resistor

CPUCLK IREF SETUP:

CK_MULT0	IREF	Output Current
0	221 1% Iref=5mA	Ioh = 4*IREF
* 1	475 1% Iref=2.32mA	Ioh = 6*IREF



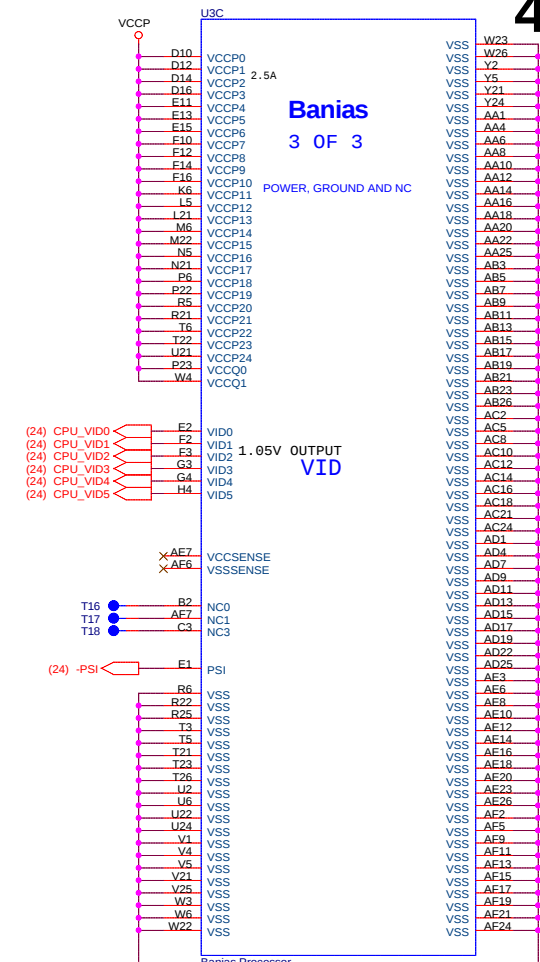
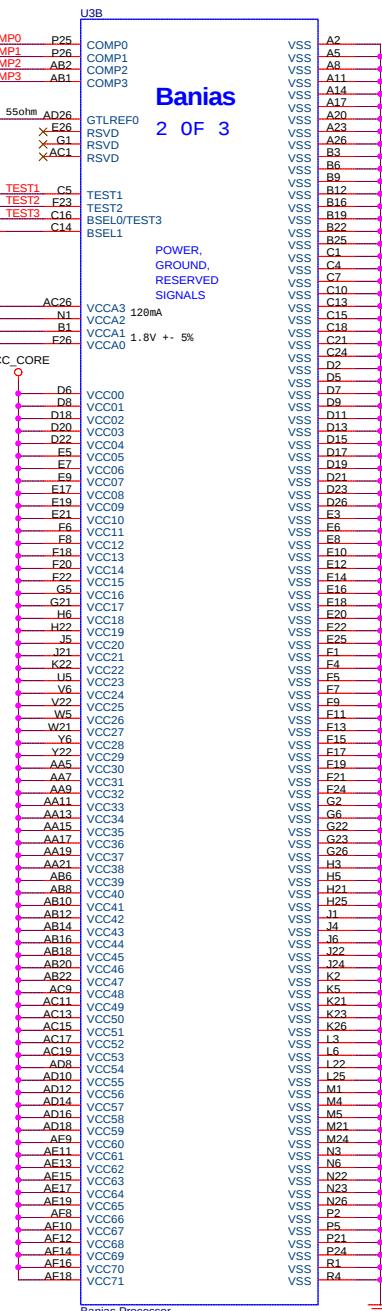
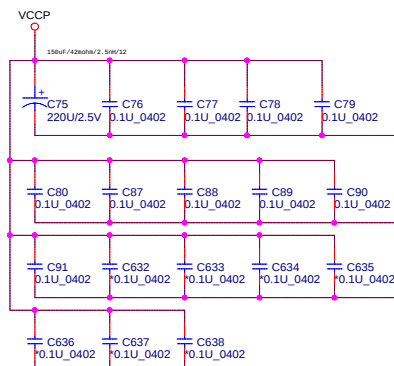
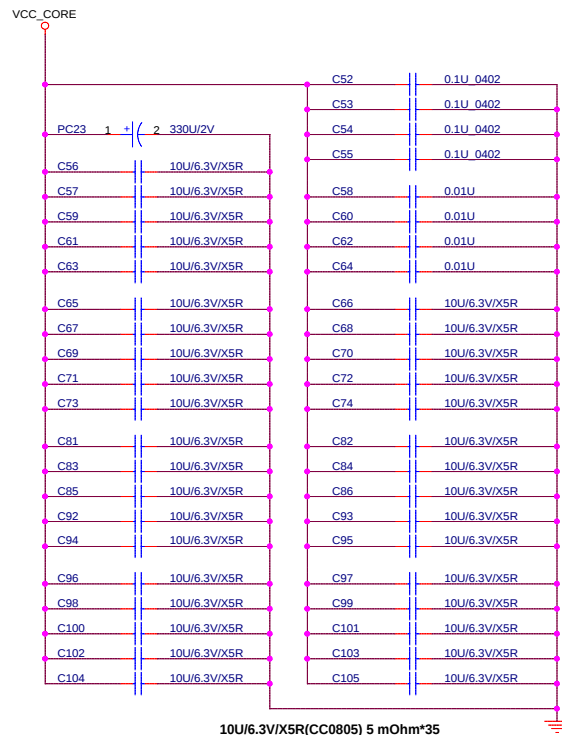
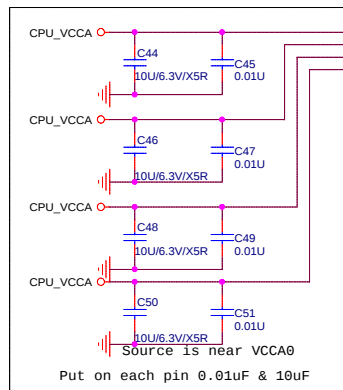
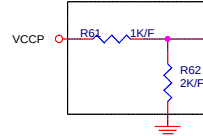
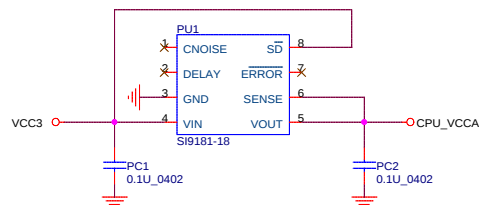
FS IN1	FS IN0	MHz	SPREAD
0	0	14.318 In 48 Out	-1.6% down Sprd
0	1	14.318 In 66 Out	-1.6% down Sprd
* 1	0	48 In/Out, 66 In/Out	-1.6% down Sprd
1	1	48 In/Out, 66 In/Out	+1.0% CENTER Sprd

THIS PART SHOULD NOT CONTAIN ANY SUBSTANCES WHICH ARE SPECIFIED IN SS-00259-1



Title		CLOCK GENERATOR	
Size	Document Number	Rev	
Custpm	RB1 Main Board	1A	
Date:	星期二, 九月 02, 2003	Sheet	2 of 28

VCCA:
VCC1.5 : Intel Dothan Processor only.
VCC1.8 : Intel Dothan/Pentium M Processor only.



Title		BANIAS CPU-B	
Size	Document Number	RB1 Main Board	
Custom			
Date:	日期: 九月 03, 2003	Sheet	4 of 28
		Rev	1A

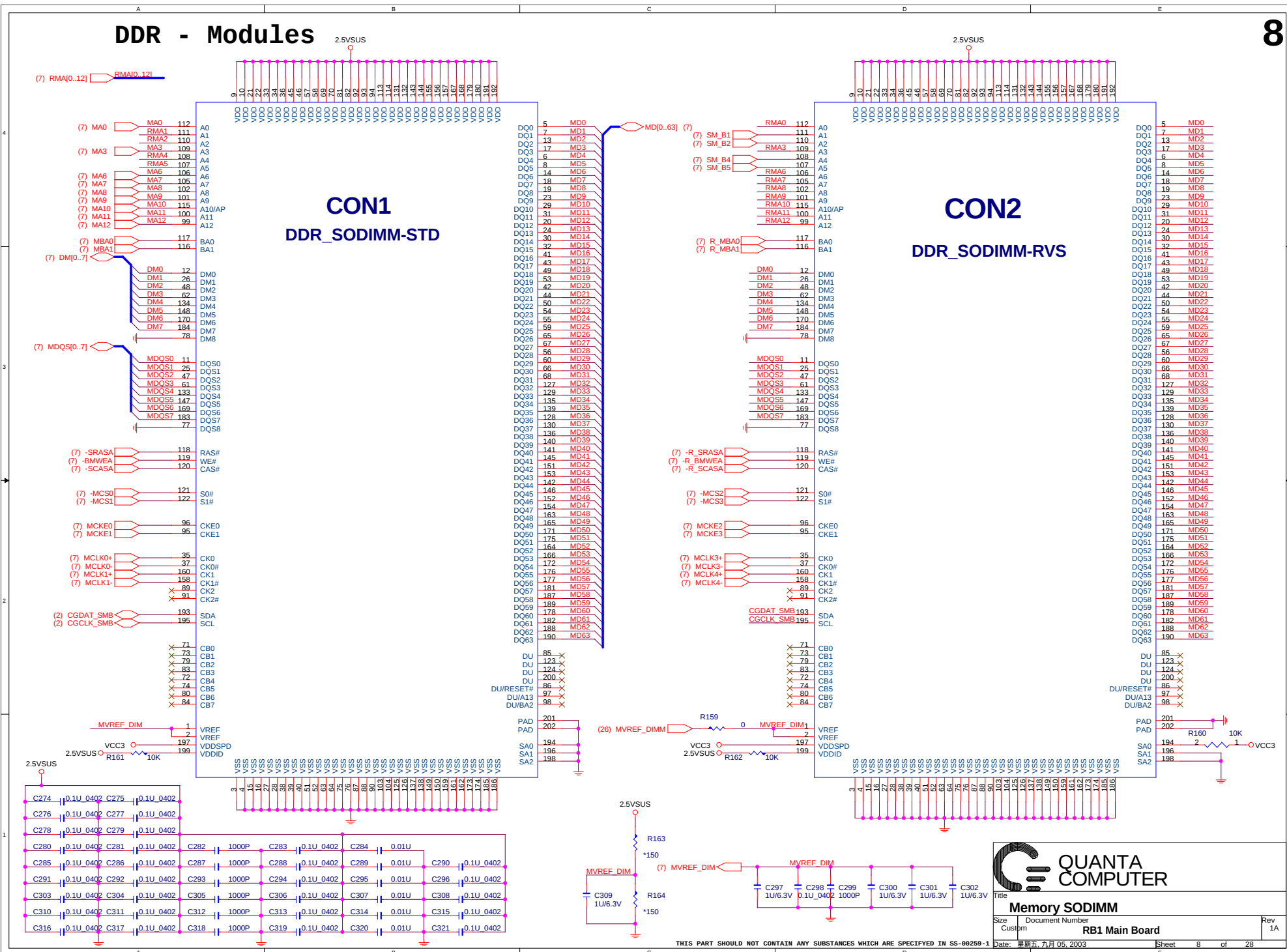
THIS PART SHOULD NOT CONTAIN ANY SUBSTANCES WHICH ARE SPECIFIED IN SS-00259-1



Title			
GMCH-M_B(VCC,GND)			
Size	Document Number	Rev	
Custom	RB1 Main Board	1A	
1 Date	星期四, 九月 04, 2003	Sheet	6 of 28

DDR - Modules

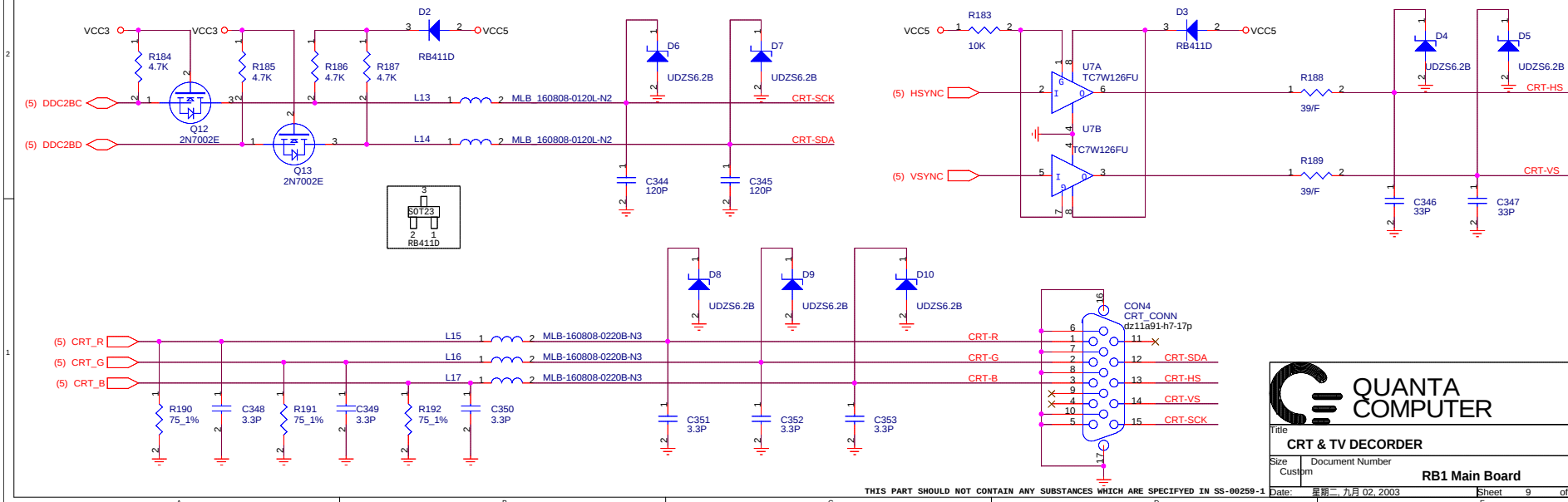
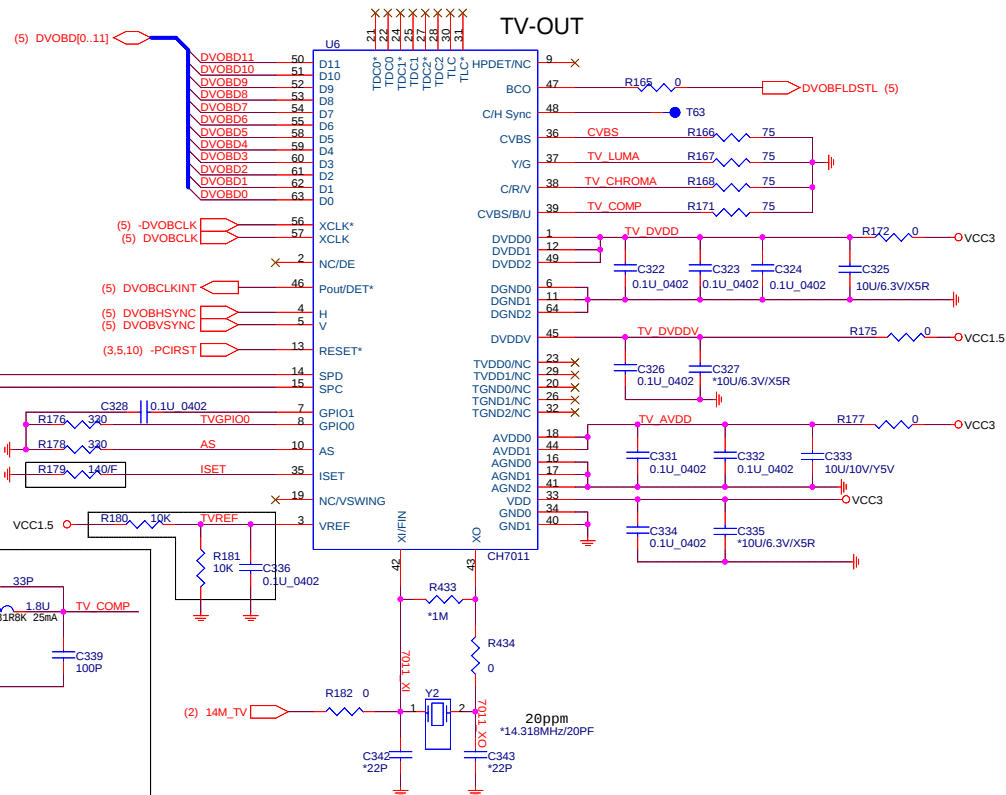
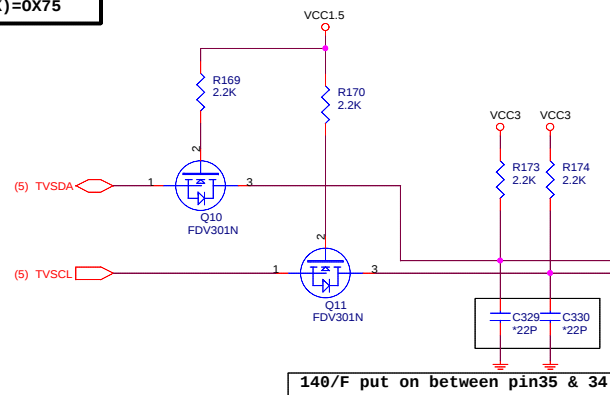
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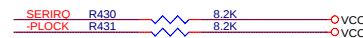
Title		Rev 1A
Memory SODIMM		
Size	Document Number	
Custom	RB1 Main Board	
Date: 星期四, 九月 05, 2003		Sheet 8 of 28

THIS PART SHOULD NOT CONTAIN ANY SUBSTANCES WHICH ARE SPECIFIED IN SS-00259-1

Pin8(GPI00) : *Low(330)=NTSC
High(10K)=PAL
Pin10(AS) :CH7011 Address
*Low(330)=0X76
High(10K)=0X75

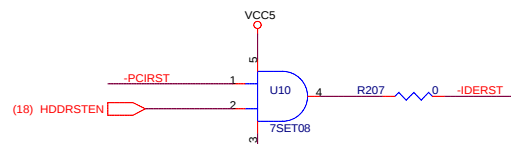
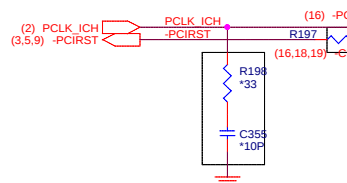
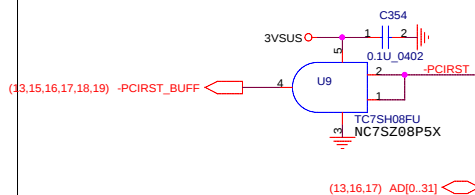
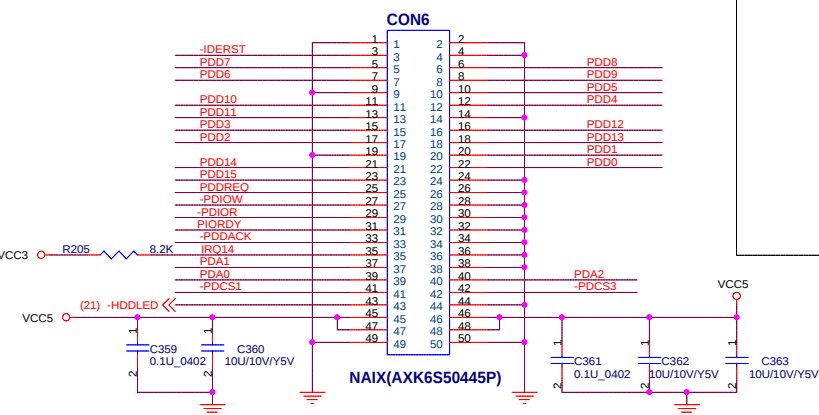
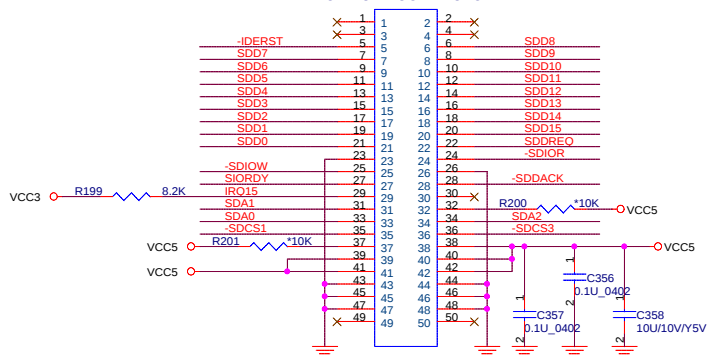
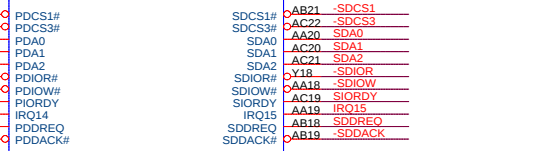
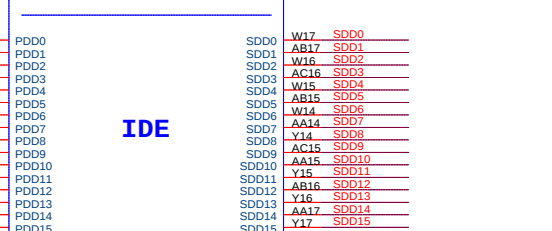
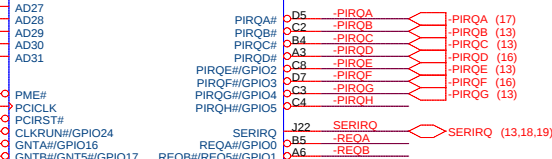
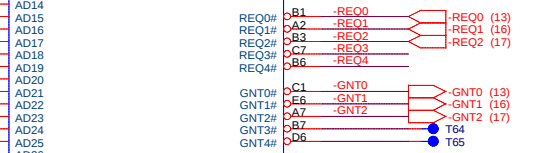
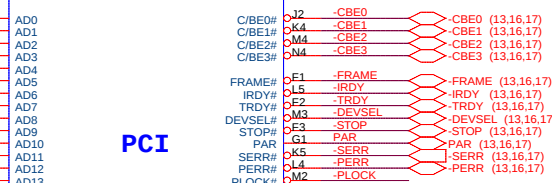
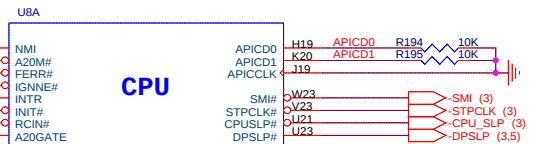
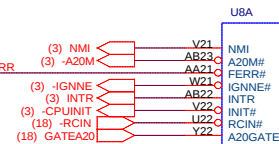
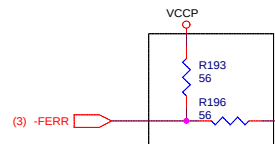


Title			
CRT & TV DECODER			
Size	Document Number		Rev
Custpm	RB1 Main Board		1A
Date:	星期二, 九月 02, 2003	Sheet	9 of 28

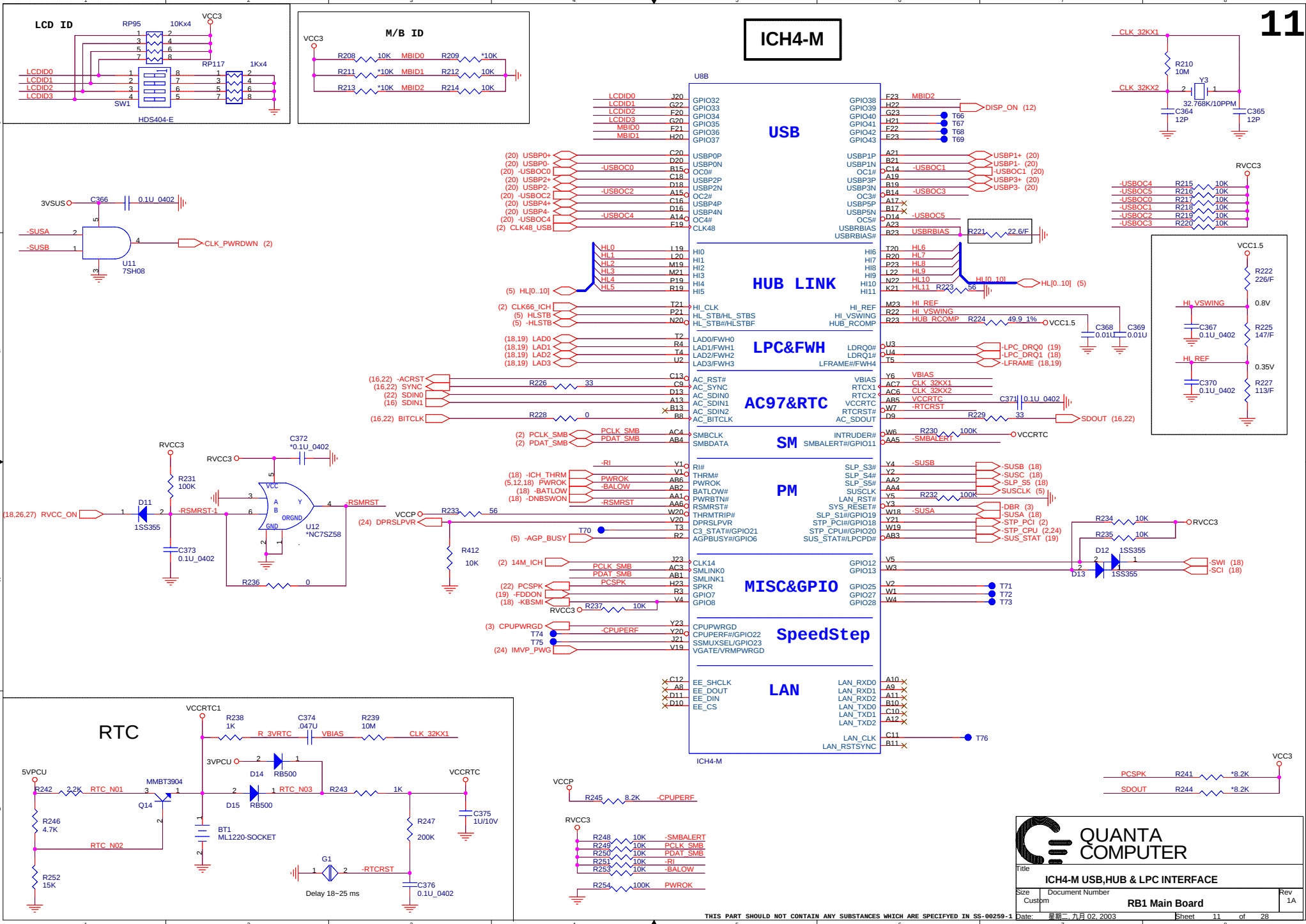


```
REQ0 : CARD/1394/MS AD25
REQ1 : MINI PCI AD20
REQ2 : LAN AD29
REQ3 : X

-PIRQA: LAN
-PIRQB: CARDBUS/1394
-PIRQC: CARDBUS/1394
-PIRQD: MINIPCI
-PIRQE: CARDBUS/1394
-PIRQF: MINI-PCI
-PIRQG: CARDBUS/1394
-PIRQH: Internal USB
```



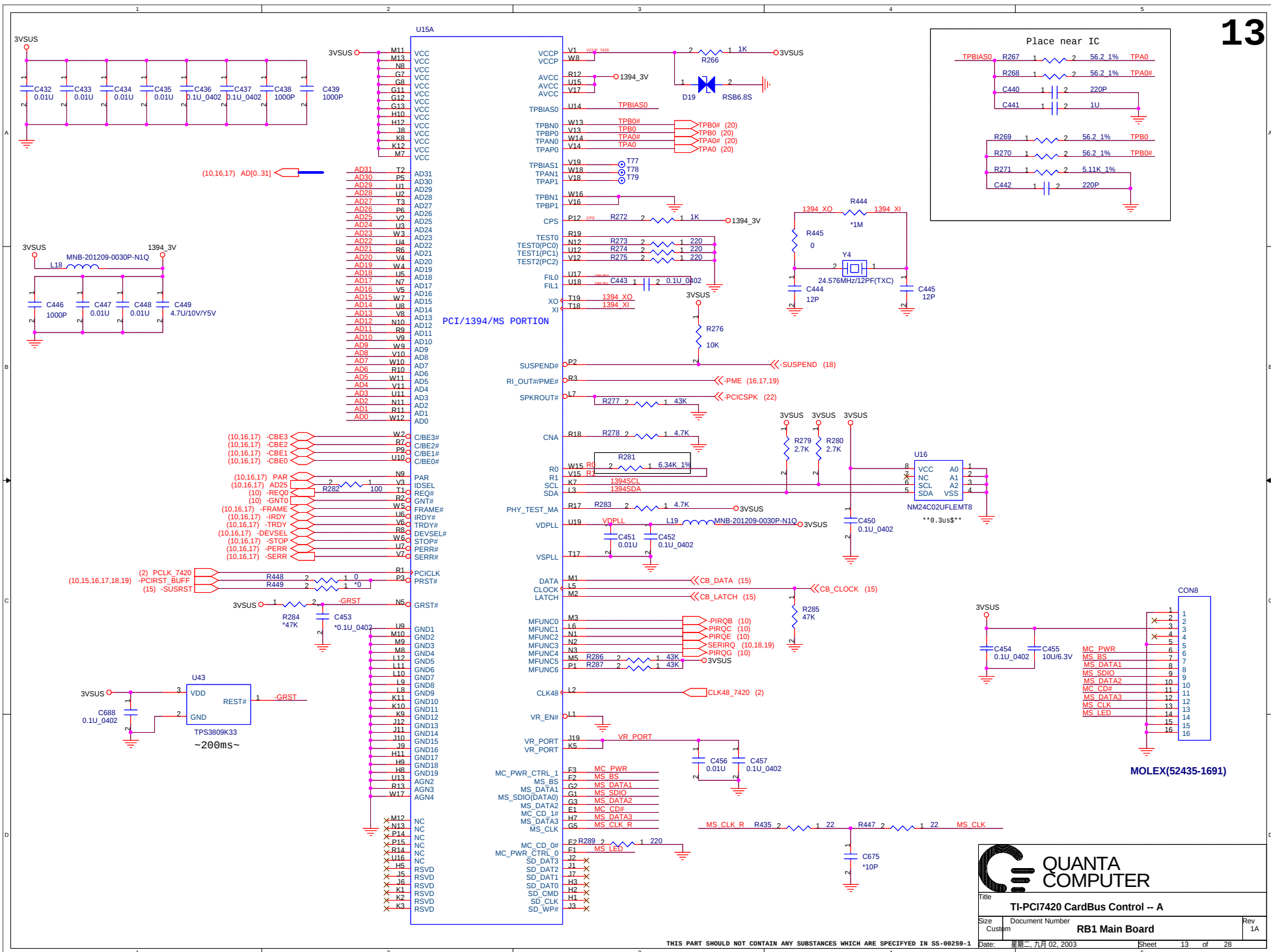
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Size	Document Number	Rev	
Custom	BR1 Main Board	1A	

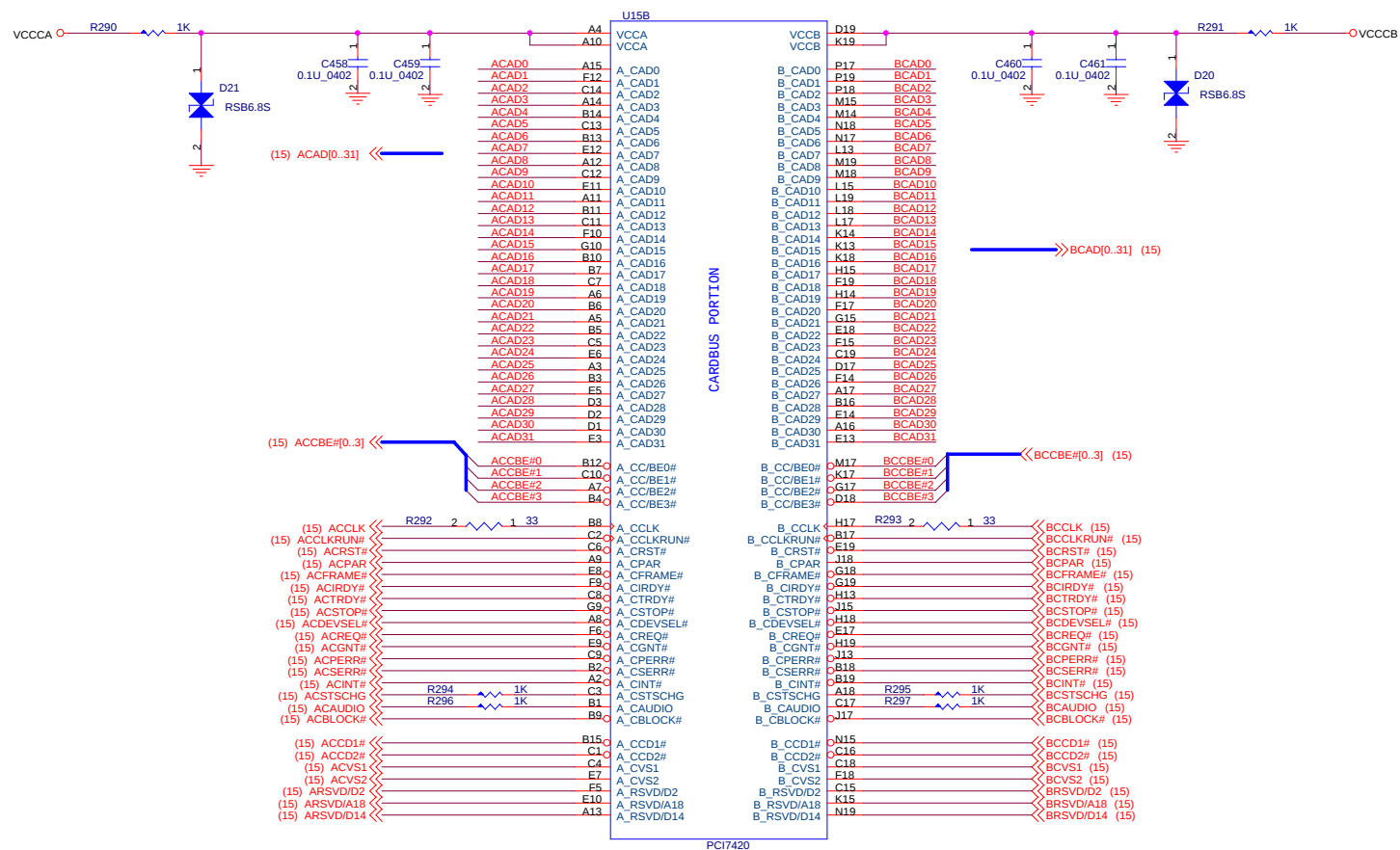




**QUANTA
COMPUTER**

Title ICH4-M USB, HUB & LPC INTERFACE		
Size Custom	Document Number RB1 Main Board	Rev 1A
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Title
TI-PCI7420 CardBus Control -- B

Size
Custom

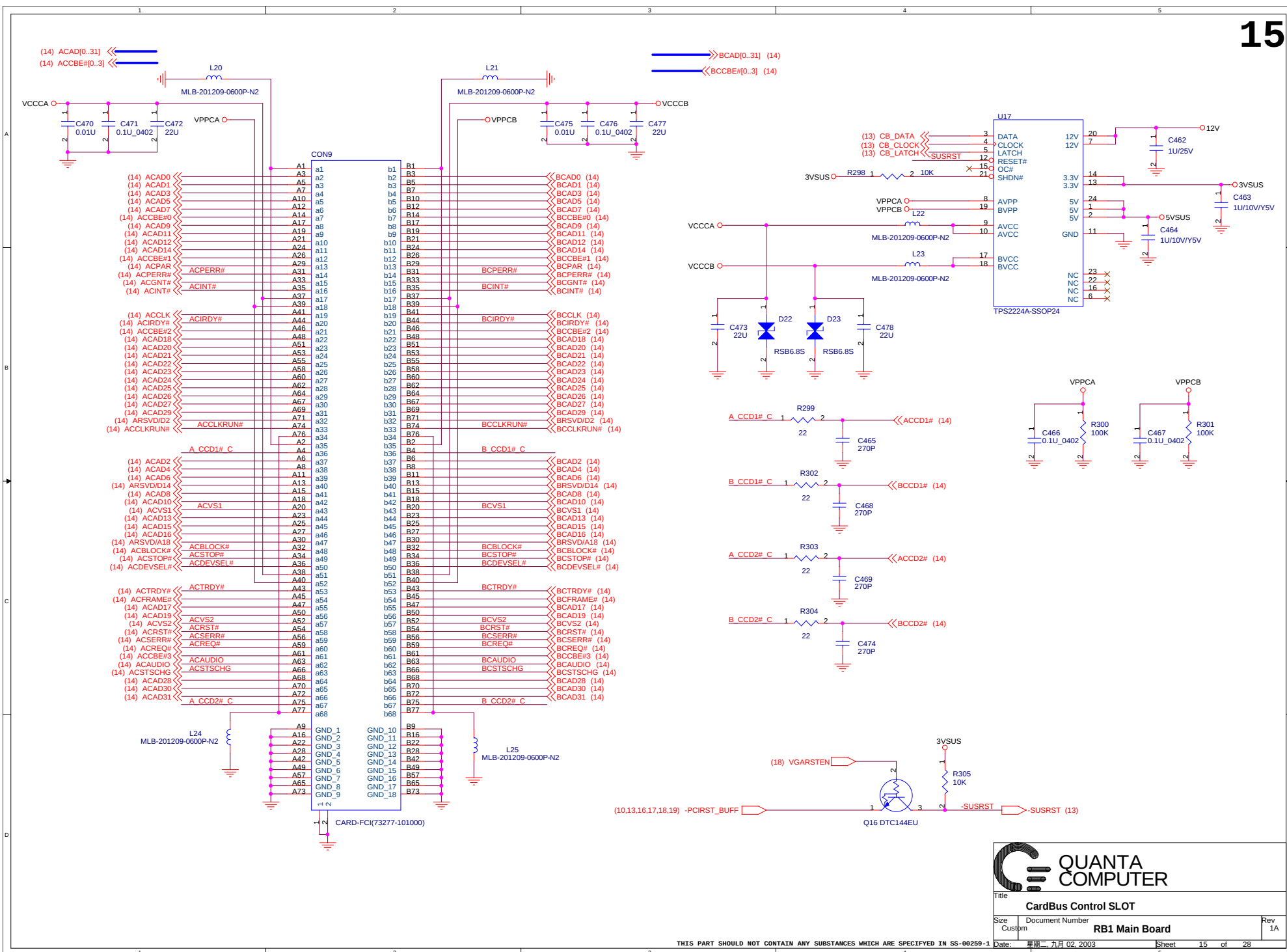
Document Number
RB1 Main Board

Date: 星期二, 九月 02, 2003

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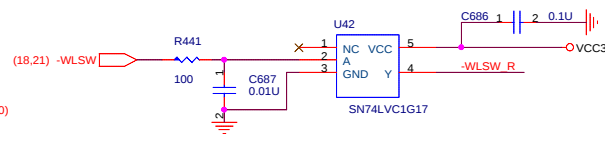
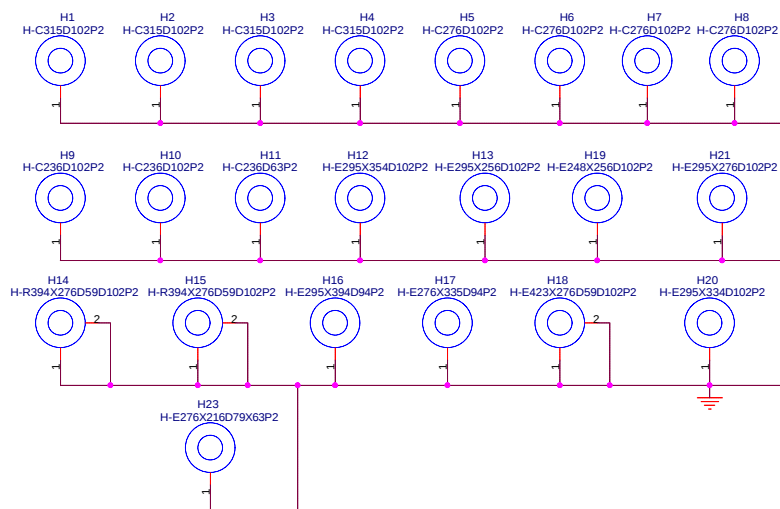
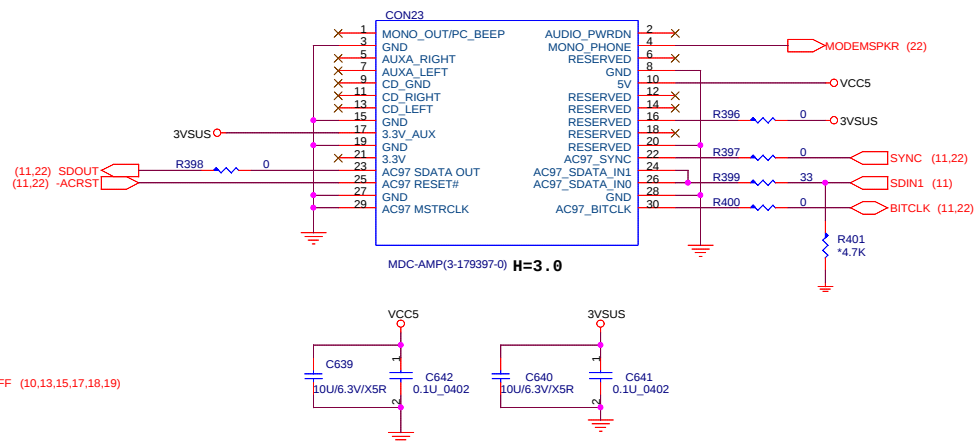
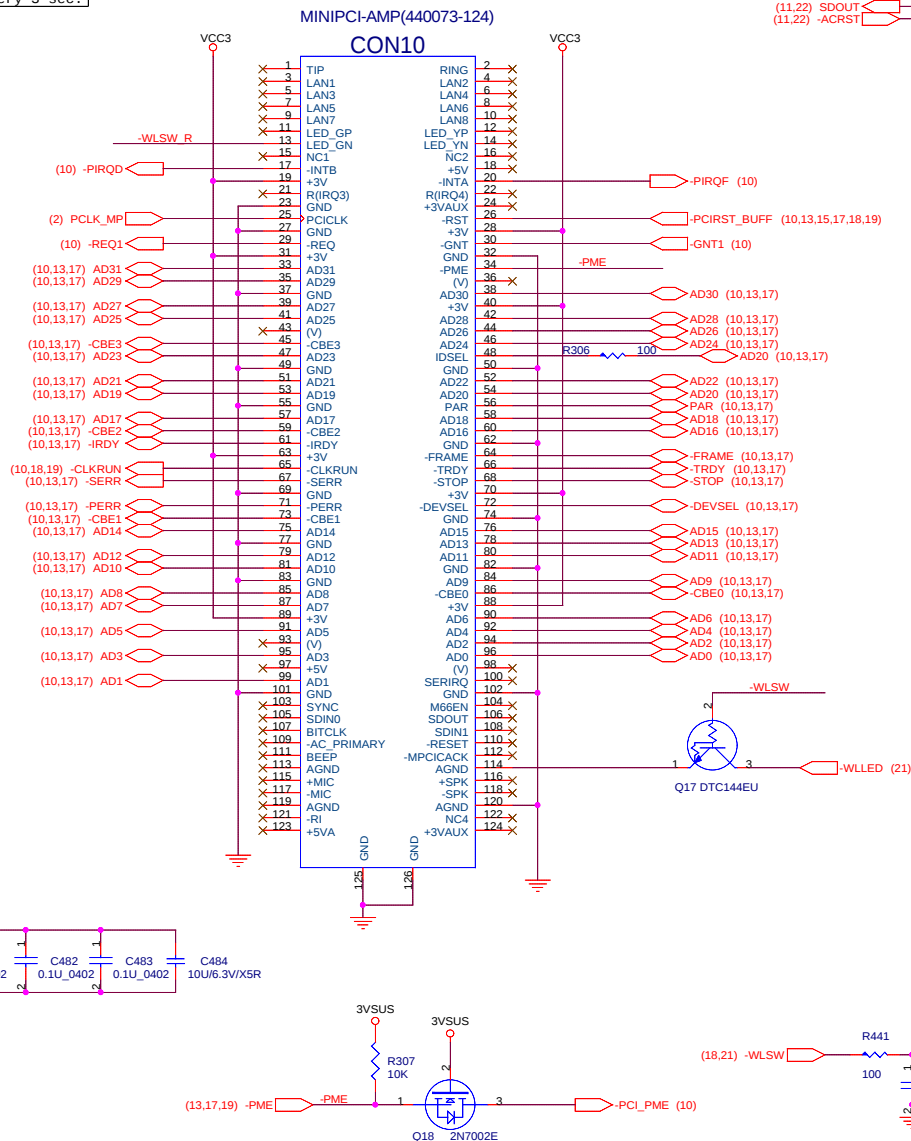
Rev 1A

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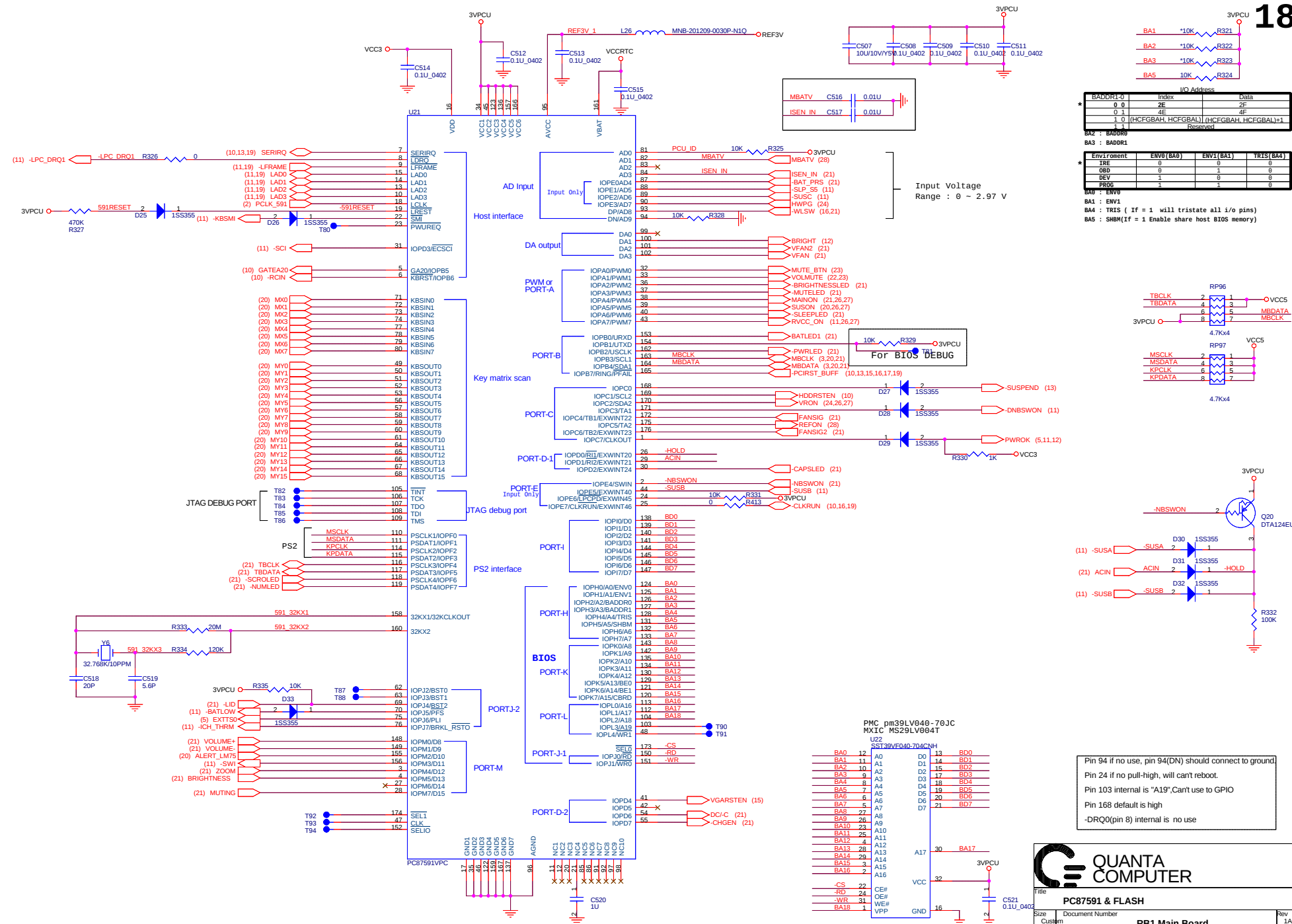


```
LED_GP :LED WLEN LINK
Output Current : 7mA
Blink rate : 1 flash per every 3 sec.
```

WLSW:	
Low :	disable the radio.
High :	Enable the radio.

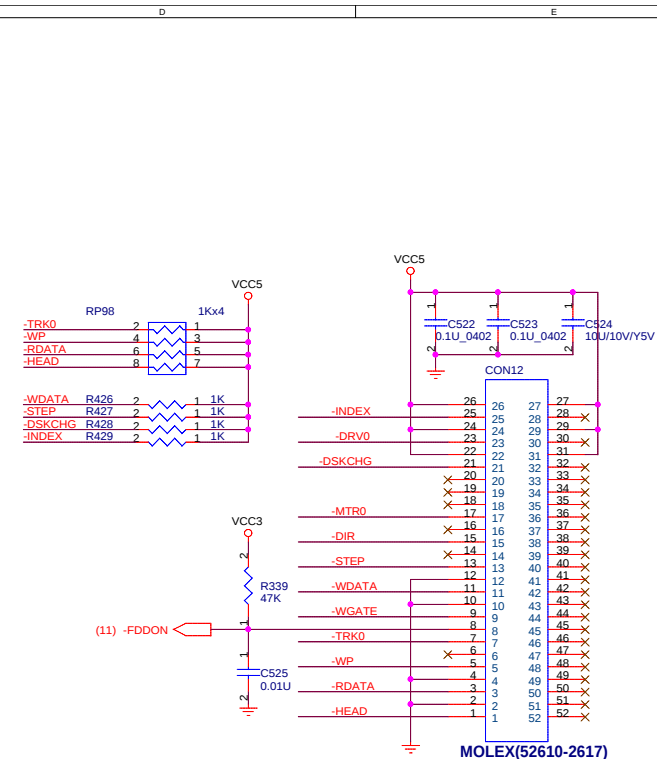
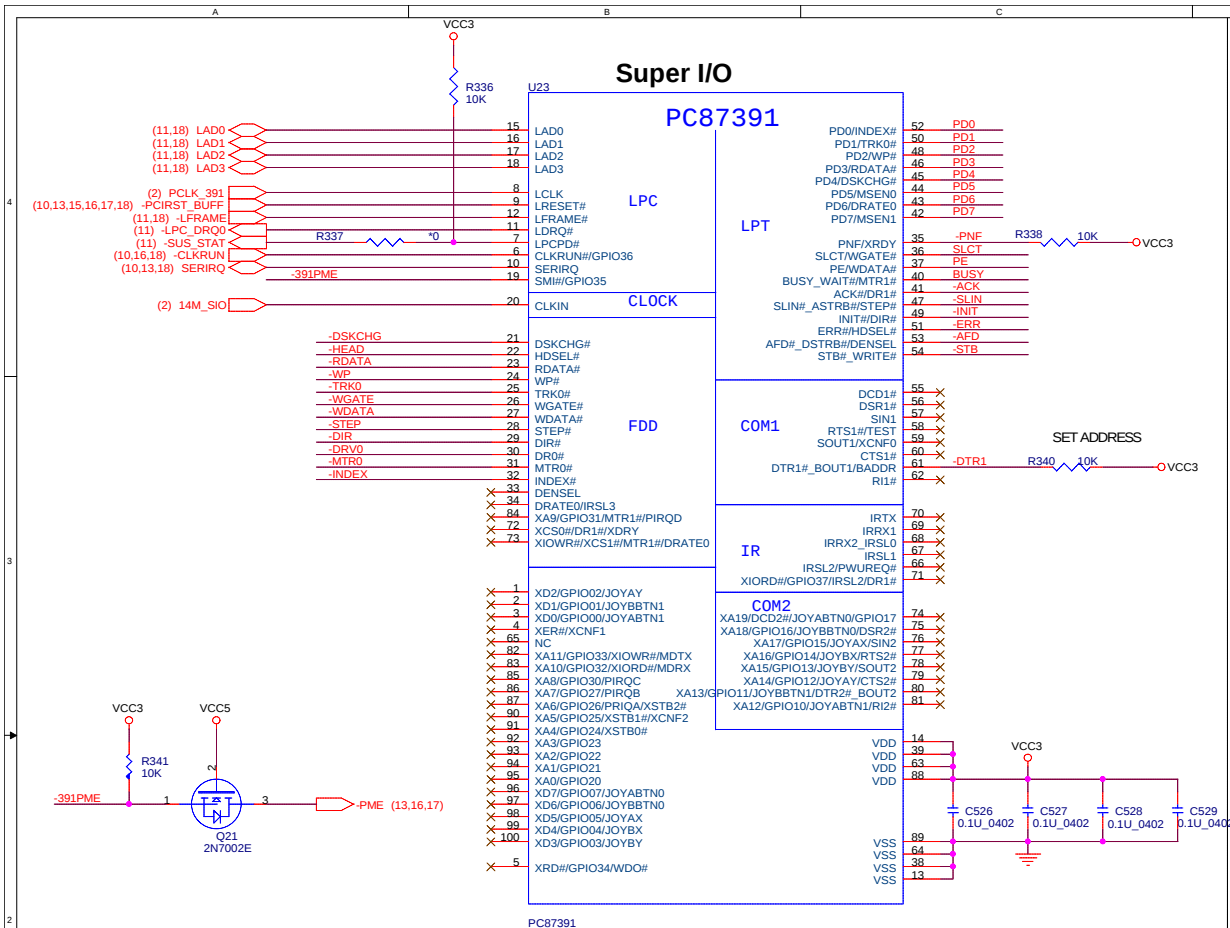


Title		MINIPCI / MDC	
Size	Document Number	Rev	
Custom	RB1 Main Board	1A	
Date:	星期五, 九月 05, 2003	Sheet	16 of 28

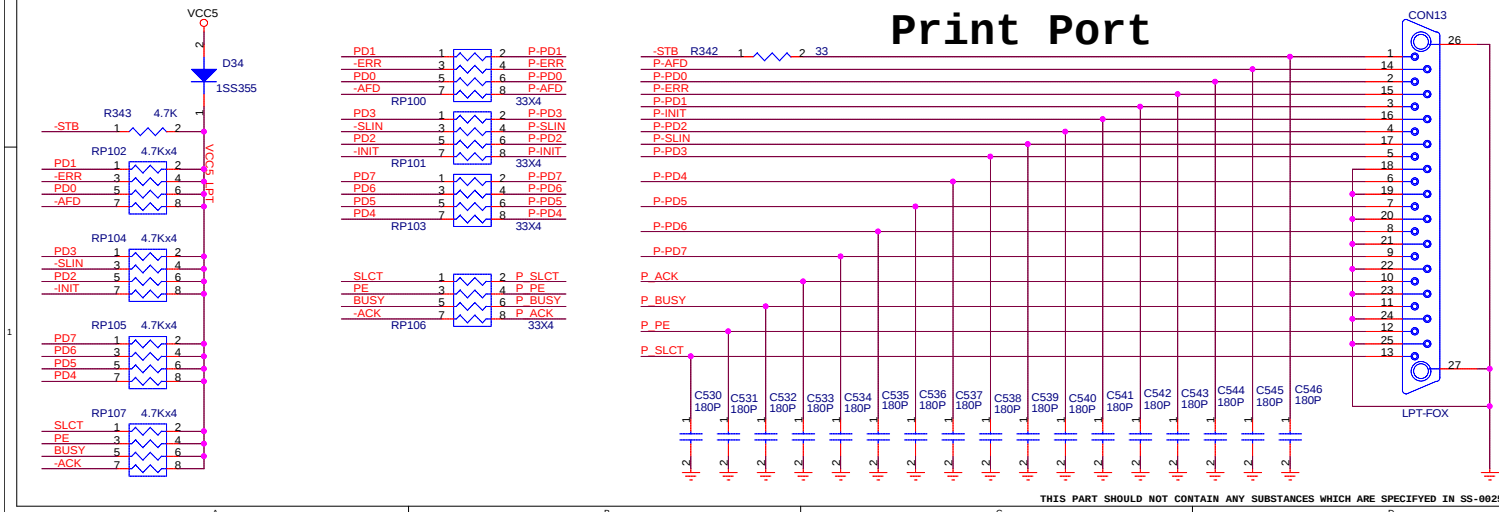


THIS PART SHOULD NOT CONTAIN ANY SUBSTANCES WHICH ARE SPECIFIED IN SS-00259-1		Date: 星期二, 九月 02, 2003	Sheet 18 of 28
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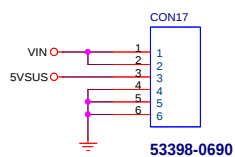
Super I/O



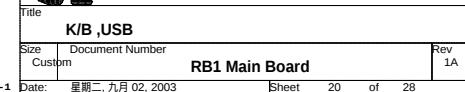
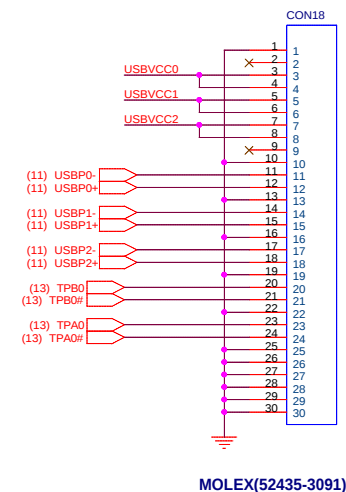
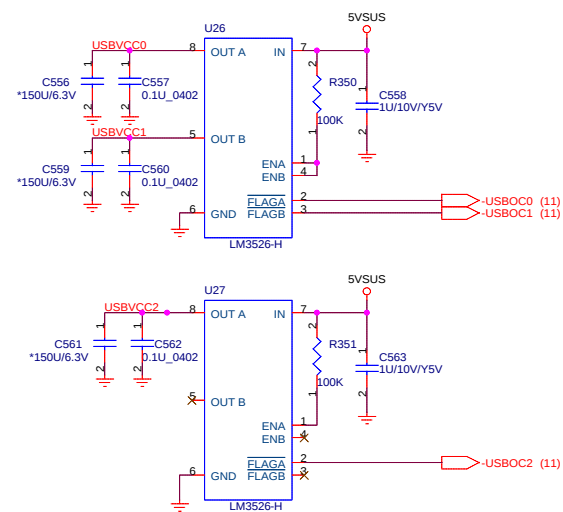
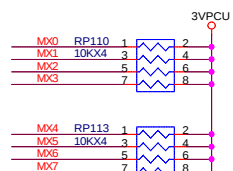
Print Port



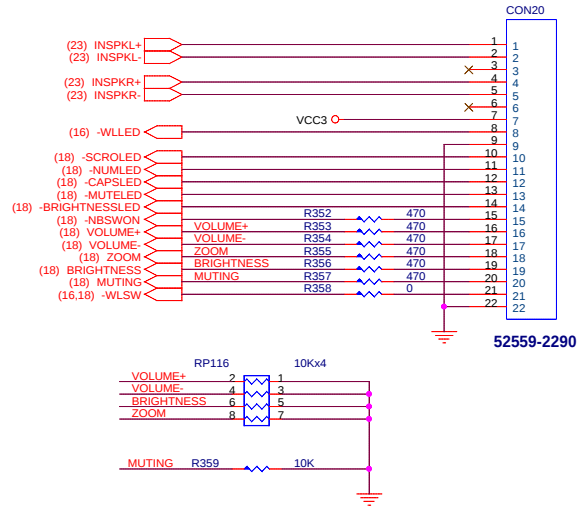
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SUPER I/O NS37391			
Size	Document Number		Rev
Custom	RB1 Main Board		1A
Date: 星期二, 九月 02, 2003		Sheet	19 of 28



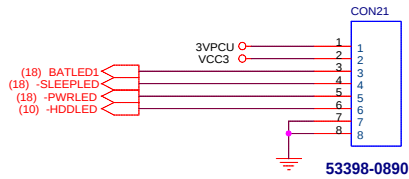
KEYBOARD



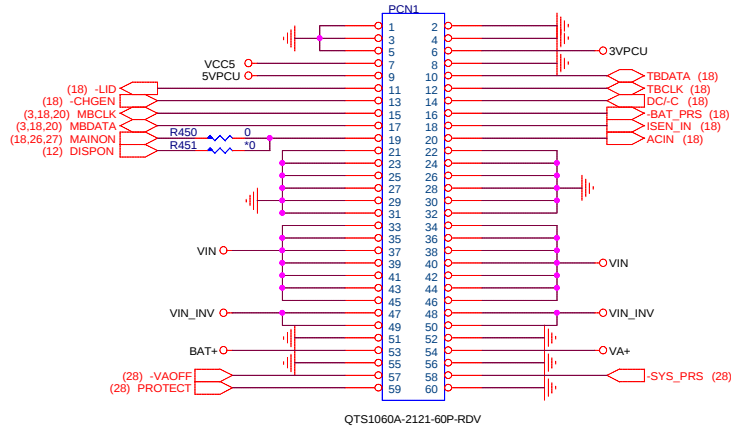
POWER SWITCH /LED BOARD CONNECTOR(SWX-163)



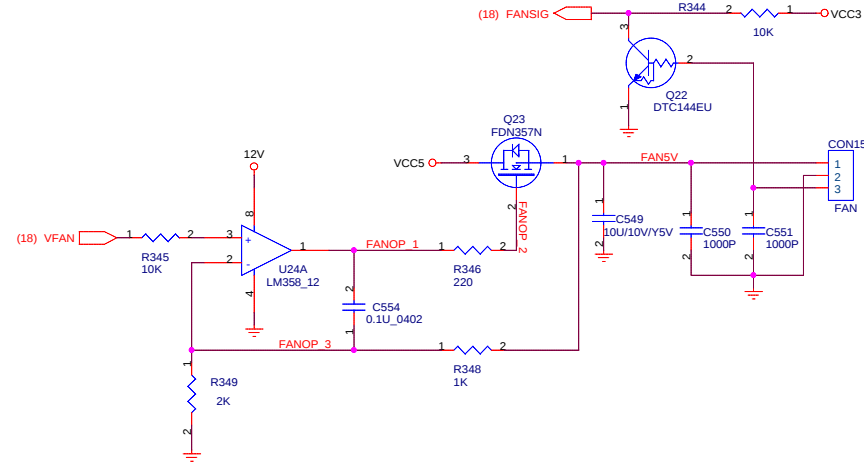
LED BOARD CONNECTOR(LEX-55)



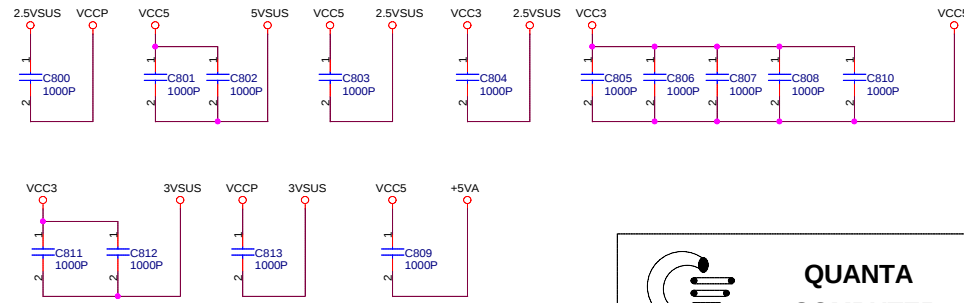
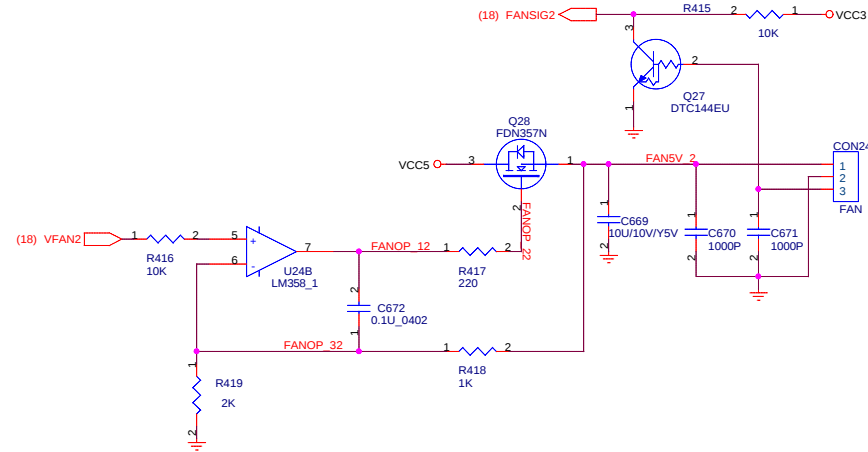
CHARGER BOARD CONNECTOR(PWS-37)



MAIN FAN UNIT



2ND FAN UNIT

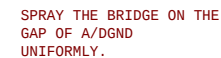


QUANTA
COMPUTER

Size	Document Number	Rev
	LED,P/S,C/B CONNECTOR	1A

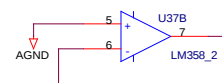
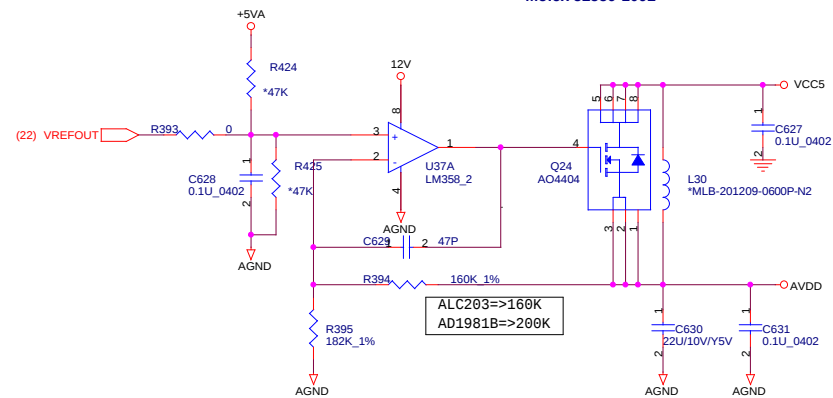
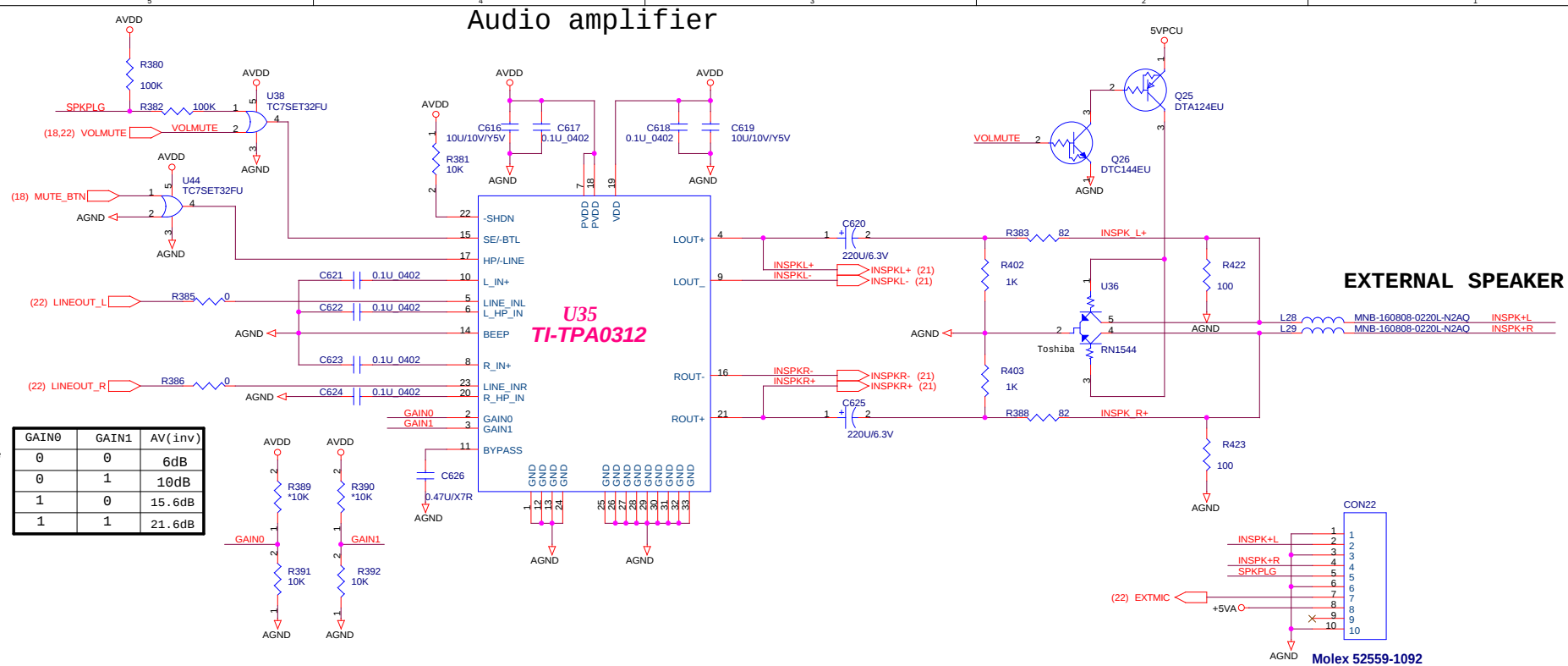
THIS PART SHOULD NOT CONTAIN ANY SUBSTANCES WHICH ARE SPECIFIED IN SS-00259-1

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$$V_{out} = V_{set} \{1 + R(4,5)/R(5, gnd)\}$$
$$V_{set} = 1.25V$$
$$V_{out} = 1.25(1 + 29.4K/10K) = 4.925V$$
$$V_{out} = 1.25(1 + 28.7K/10K) = 4.8375V$$
$$V_{out} = 1.25(1 + 27K/10K) = 4.625V$$

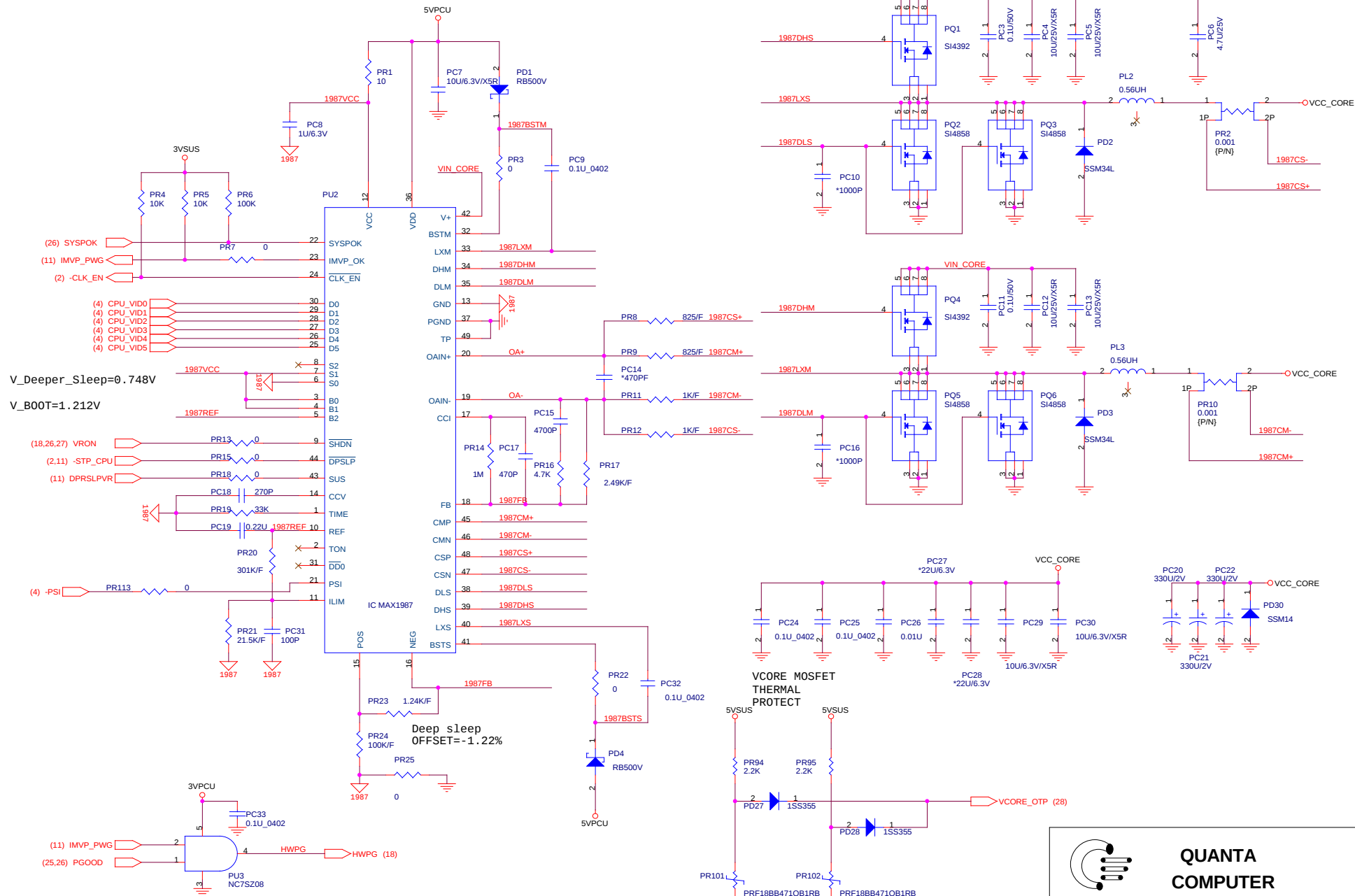
Depend on modem driver

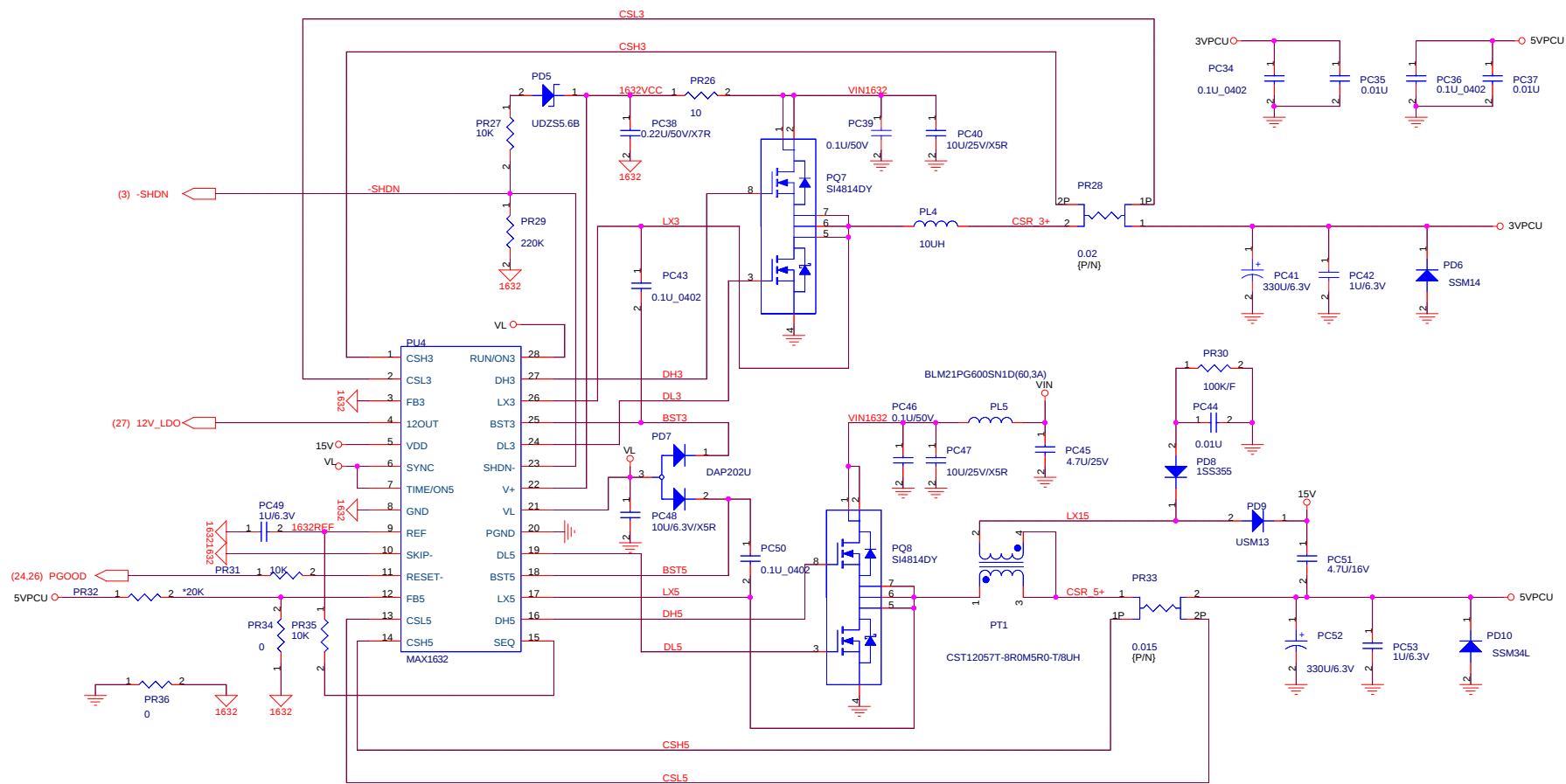
Audio amplifier



QUANTA COMPUTER

Title			AMP
Size	Document Number	Audio	
Custpm			
Date:	星期二, 九月 03, 2003	Sheet	23 of 28
			Rev 1A

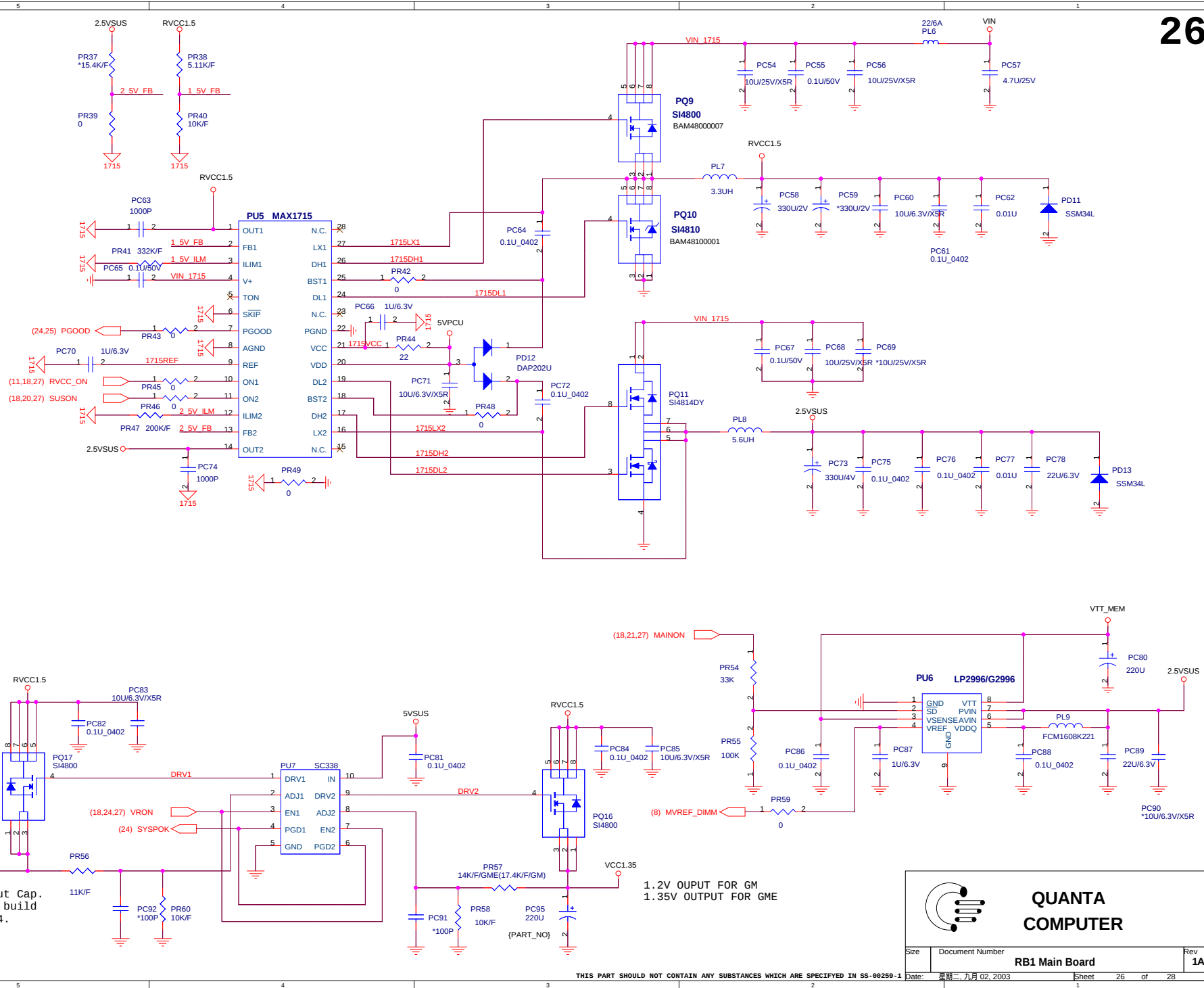




**QUANTA
COMPUTER**

Size	Document Number	Rev
	RB1 Main Board	1A
Date:	星期二, 九月 02, 2003	Sheet 25 of 28

THIS PART SHOULD NOT CONTAIN ANY SUBSTANCES WHICH ARE SPECIFIED IN SS-00259-1

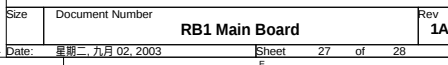


QUANTA COMPUTER

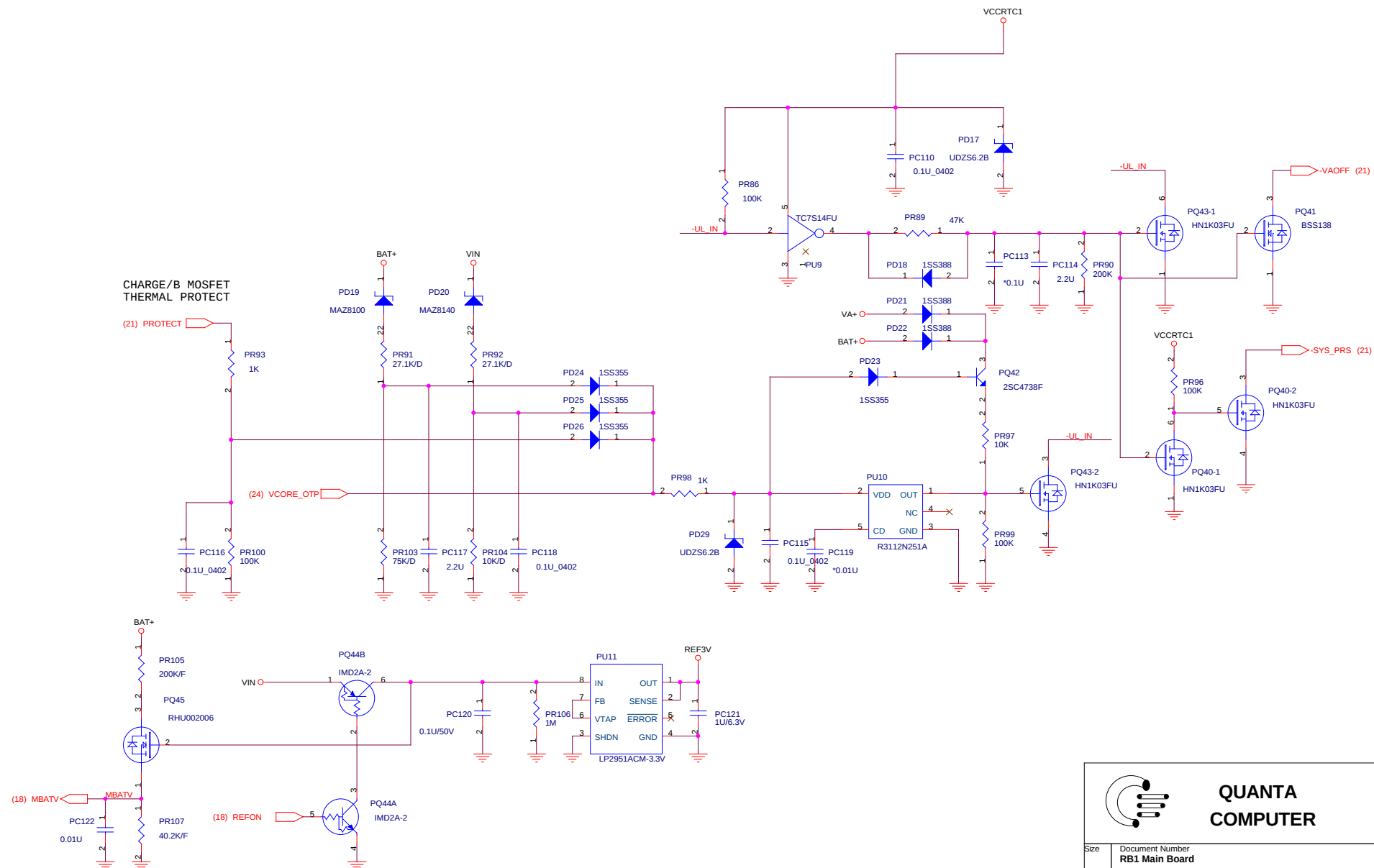
Size: Document Number: Rev: 1A

RB1 Main Board

Date: 星期二, 九月 02, 2003 Sheet: 26 of 28



CHARGE/B MOSFET THERMAL PROTECT



**QUANTA
COMPUTER**