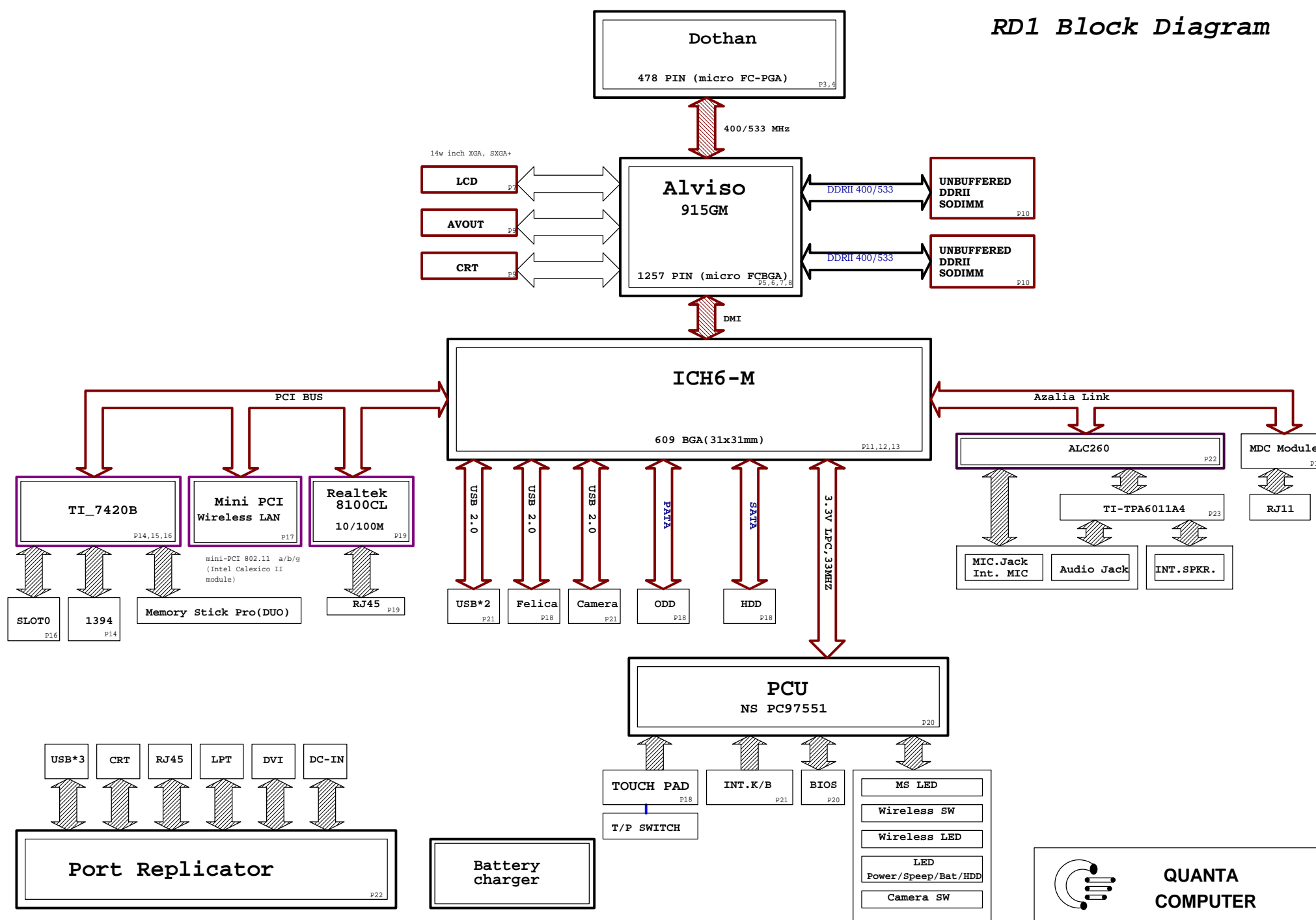
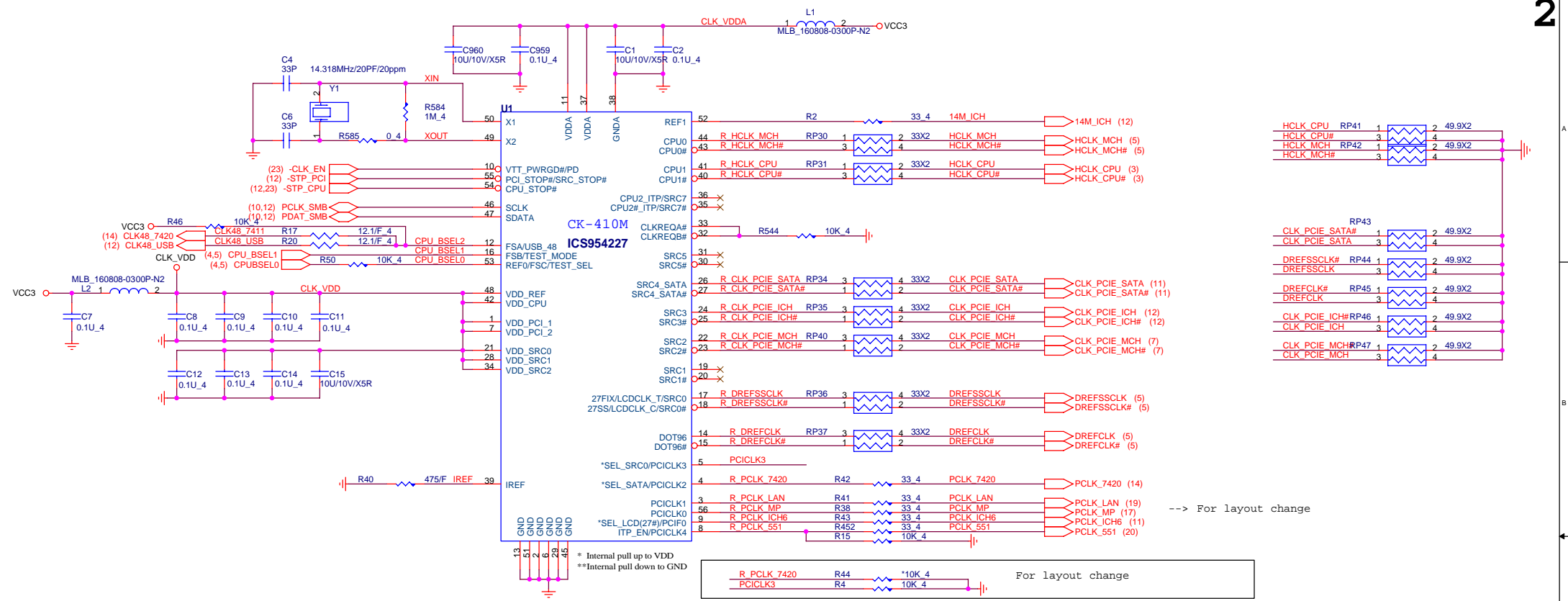
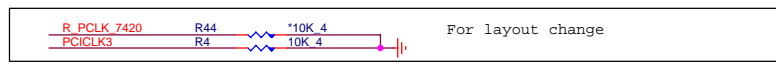


RD1 Block Diagram





--> For layout change

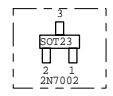


R44: (Pin 26,27)
 1: Clock from SARA PLL
 0: Clock from RC PLL
 R4: (Pin 17,18)
 1: SRCCLK0 pair
 0: 17,18 pin is set by R6
 R6: (Pin 17,18)
 1: LCDCLK pair
 0: 27MHZSS/27MHZSS# pair

FSC BSEL0	FSB BSEL1	FSA BSEL2	CPU	SRC	PCI	REF	USB	DOT
0	0	0	266.66	100	33.33	14.318	48	96
* 0	0	1	133.33	100	33.33	14.318	48	96
0	1	0	200.00	100	33.33	14.318	48	96
0	1	1	166.66	100	33.33	14.318	48	96
1	0	0	333.33	100	33.33	14.318	48	96
* 1	0	1	100.00	100	33.33	14.318	48	96
1	1	0	400.00	100	33.33	14.318	48	96
1	1	1	RESERVE			14.318	48	96

ICS 954227 : Include SST
ICS 954227 Function:
 Pin 53 : REF1
 Pin 17,18 : 96MHz_SST
ITP_EN Function (Pin 8)
 0 : SRC_7 Pair (Pin 35,36)
 1 : CPU_2_I TP Pair (Pin 35,36)

IREF (Pin 39) :
 475_1% : Sets the IREF current to 2.32mA



96MHz SST Table :

S3	S2	S1	S0	Spread	Type
0	0	0	0	0.8	Down
0	0	0	1	1	
0	0	1	0	1.25	
0	0	1	1	1.5	
0	1	0	0	1.75	
0	1	0	1	2	
0	1	1	0	2.5	Center
0	1	1	1	3	
1	0	0	0	+/-0.3	
1	0	0	1	+/-0.4	
1	0	1	0	+/-0.5	
1	0	1	1	+/-0.6	
1	1	0	0	+/-0.8	Center
1	1	0	1	+/-1.0	
1	1	1	0	+/-1.25	
1	1	1	1	+/-1.5	

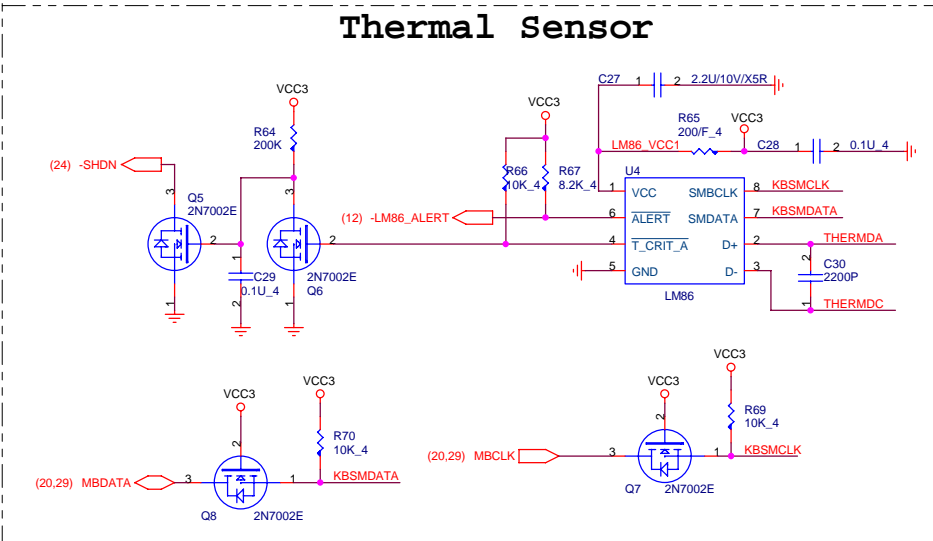
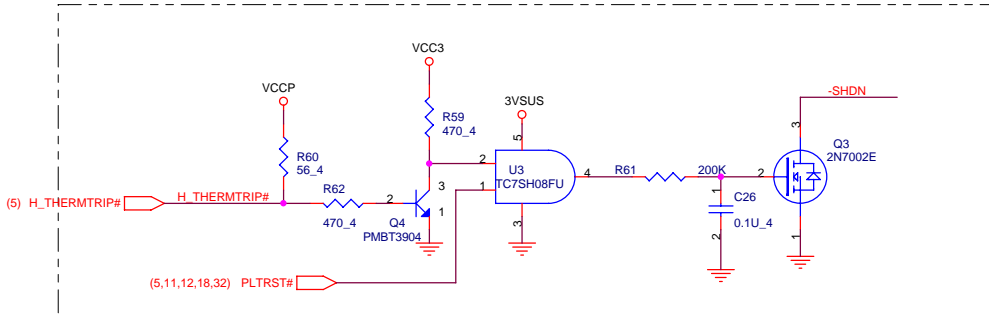
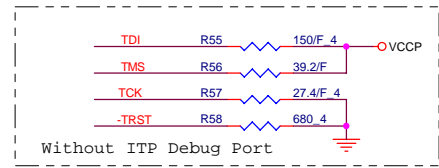
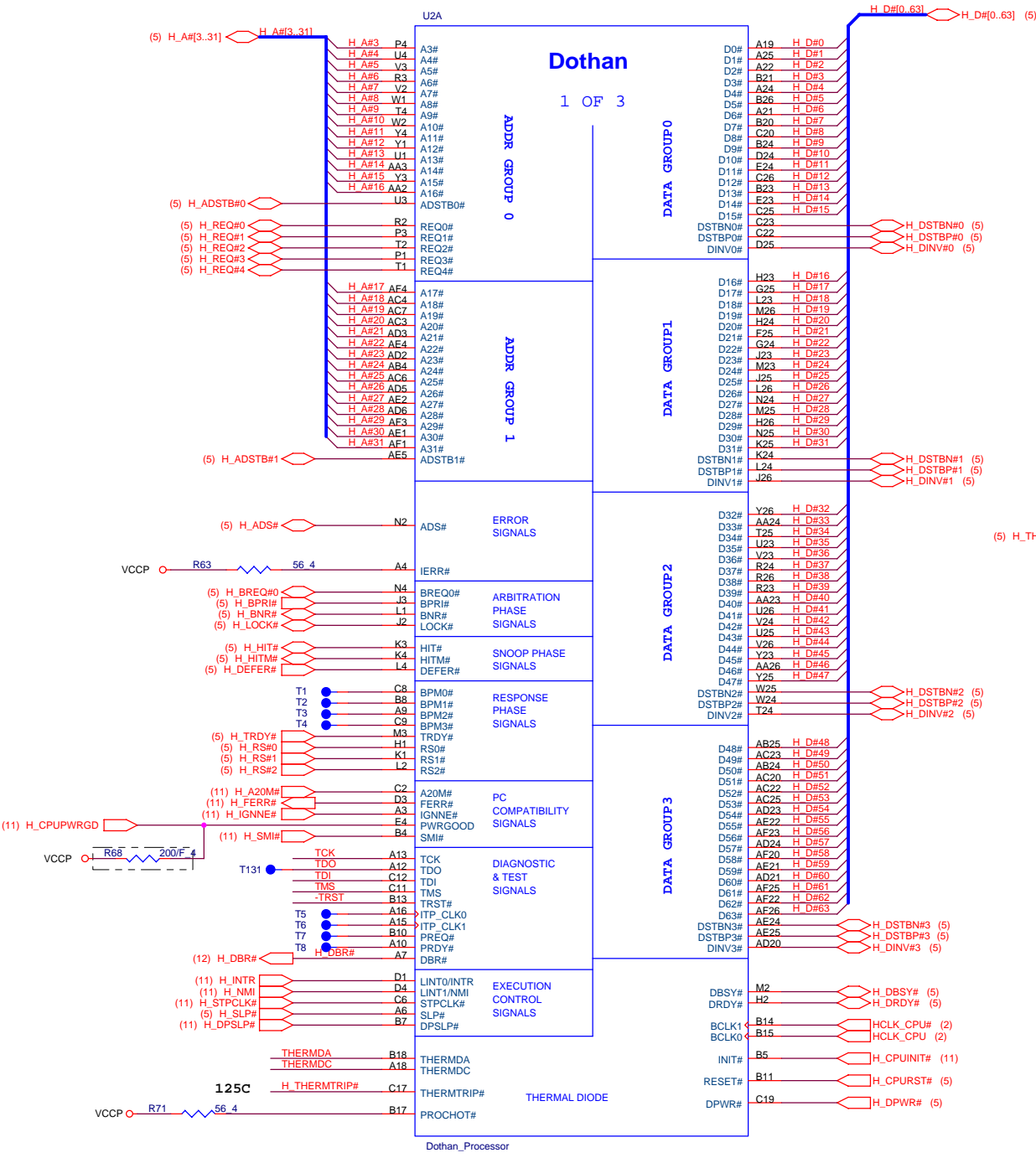
QUANTA COMPUTER

Title: **CLOCK GENERATOR**

Size: Custom | Document Number: **RD1 Main Board** | Rev: 1A

Date: Thursday, June 30, 2005 | Sheet: 2 of 32

1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



QUANTA COMPUTER

Title: Dothan CPU - A

Size: Custom

Document Number: RD1 Main Board

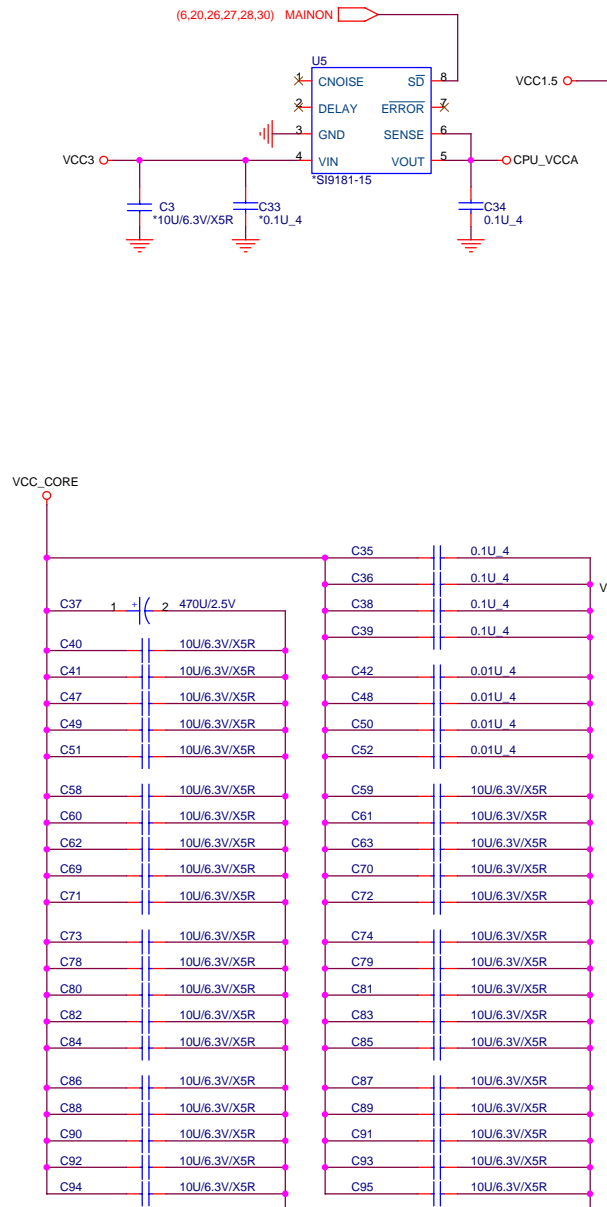
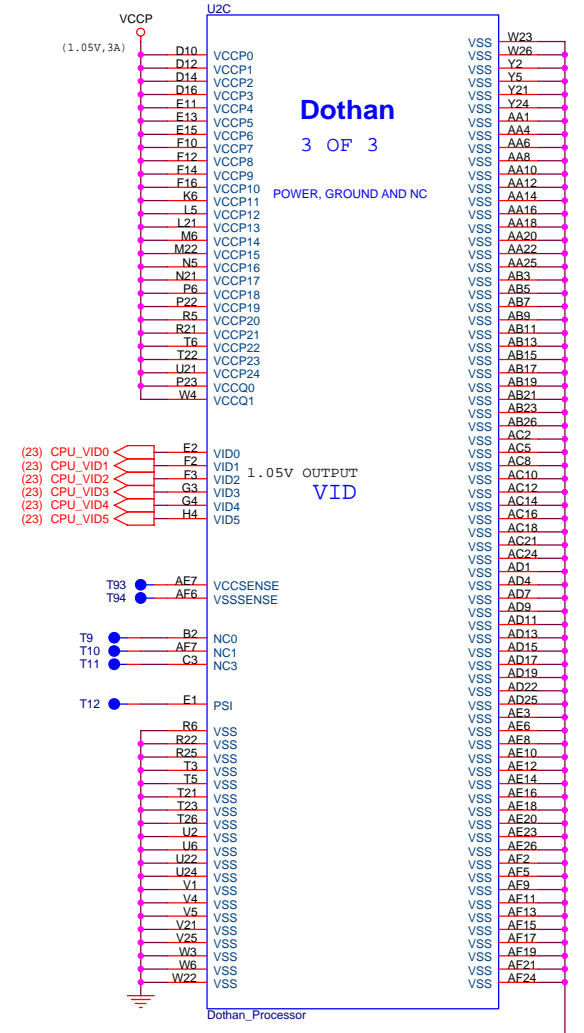
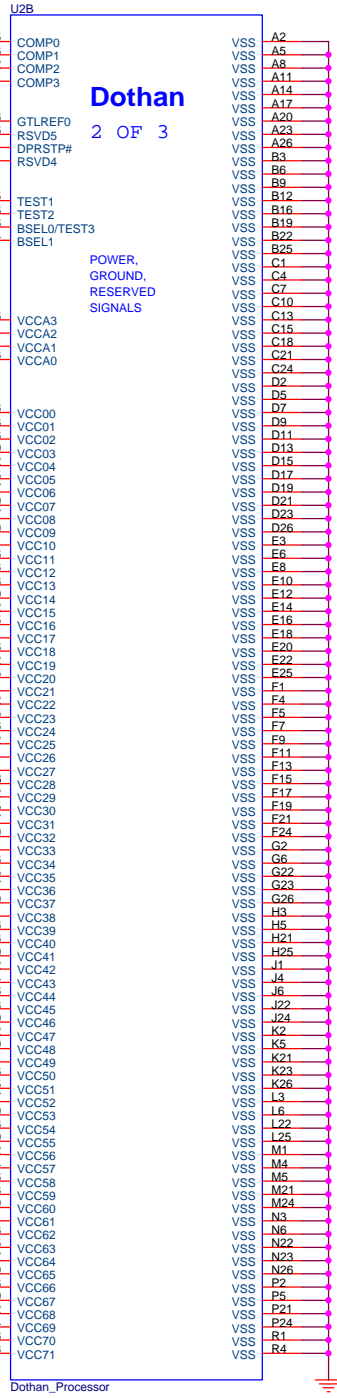
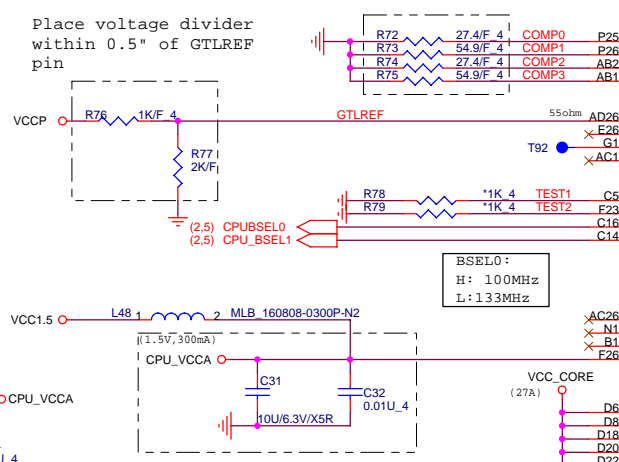
Date: Thursday, June 30, 2005

Sheet: 3 of 32

Rev: 1A

1. This part should not contain any substances which are specified in SS-00259-1
 2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

Place voltage divider within 0.5" of GTLREF pin

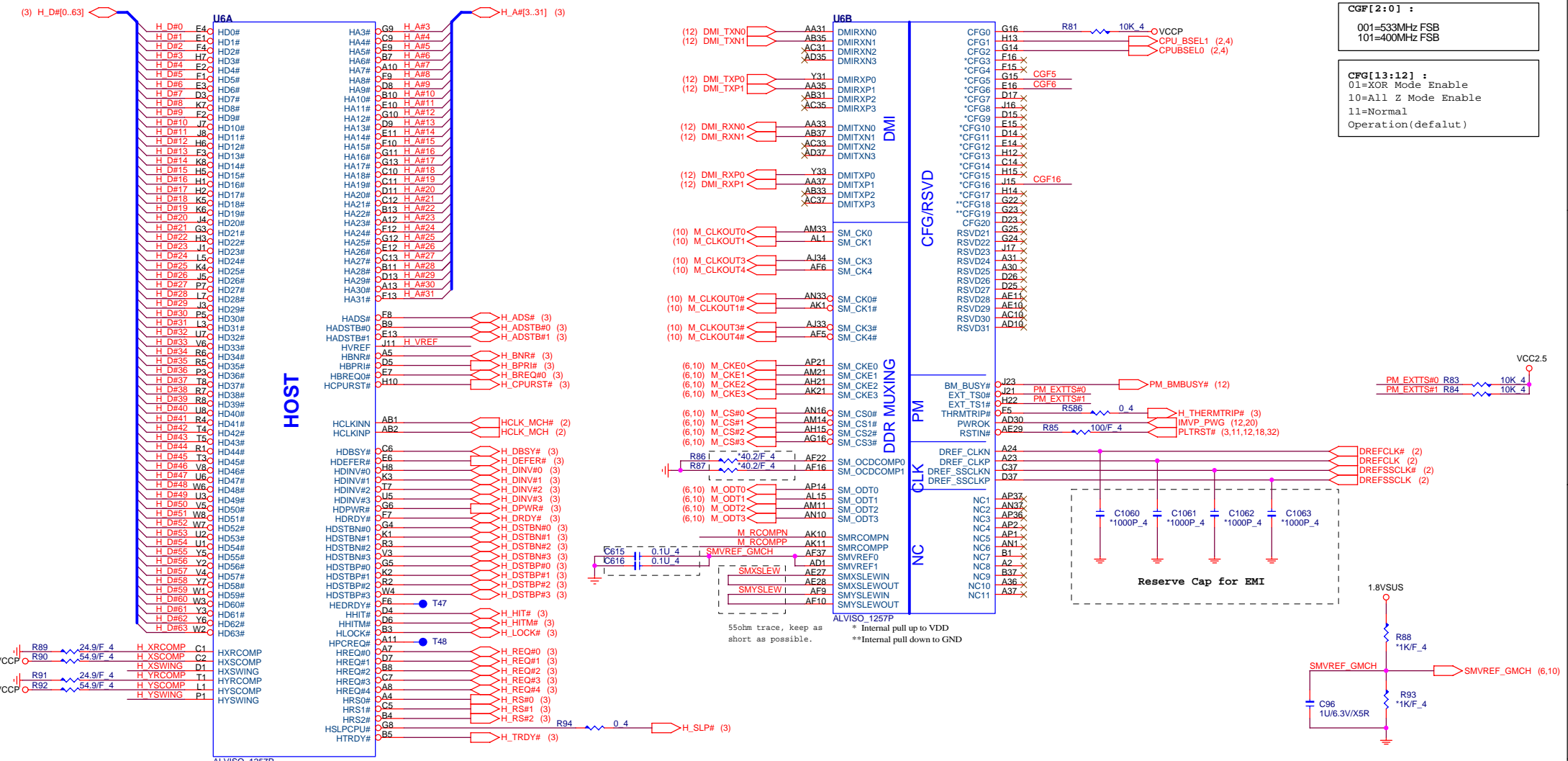


1.356 ~ 1.260V : Max.Frequency mode
 1.052V : lowest frequency mode
 0.748V : Deeper Sleep



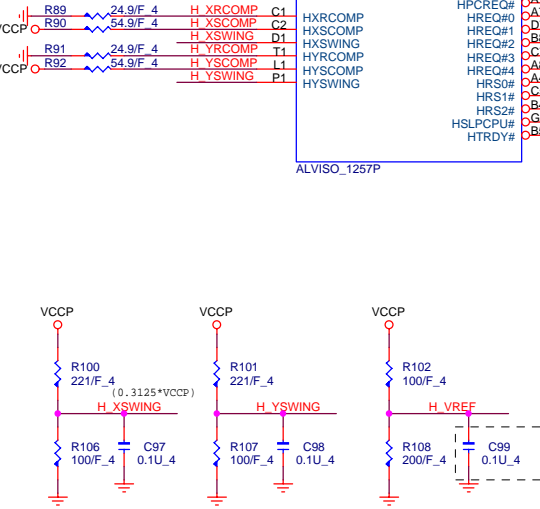
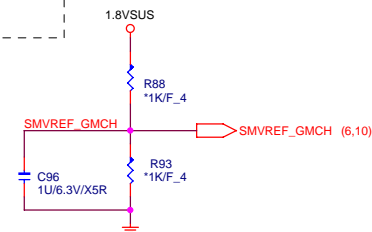
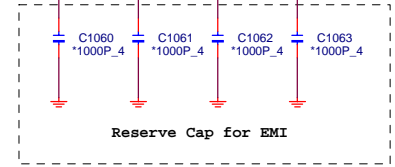
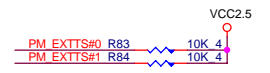
Title Dothan CPU-B		
Size	Document Number RD1 Main Board	Rev 1A
Date	Thursday, June 30, 2005	Sheet 4 of 32

1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



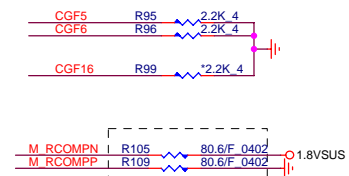
CGF [2 : 0] :
 001=533MHz FSB
 101=400MHz FSB

CFG [13:12] :
 01=XOR Mode Enable
 10=All Z Mode Enable
 11=Normal
 Operation(default)



	Low	High
CGF5	* DMIX2	DMIX4
CGF6	* DDR II	DDR
CGF7	CPU type: DT/Transportable	* CPU type: Mobile CPU
CGF9	PCIe Graphics lan : Reverse Lane	* PCIe Graphics lan : Normal operation
CGF16	Dynamic ODT Disabled	* Dynamic ODT Enabled
CGF18	* Alviso GMCH core: 1.05V	Alviso GMCH core: 1.5V
CGF19	* VPP Voltage : 1.05V	VPP Voltage : 1.2V

Note:
 CFG[17:3] have internal pullup resistors.
 CFG[19:18] have internal pulldown resistors.



	H_SLP#
For Doathan A-X step	* 0
* For Doathan B-X step & later	0

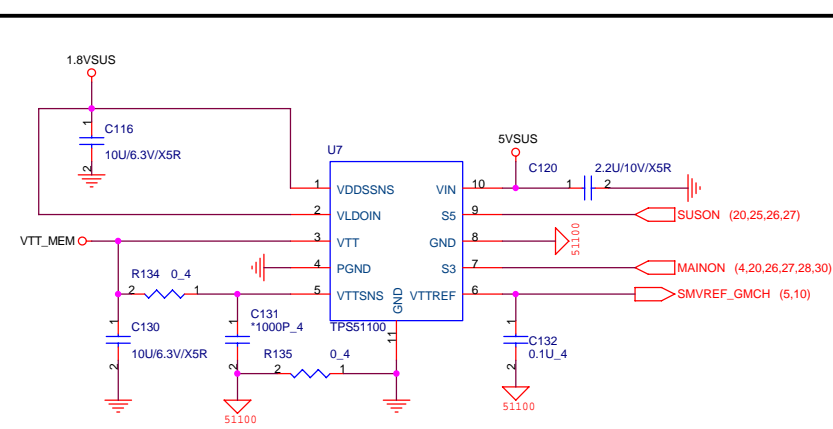
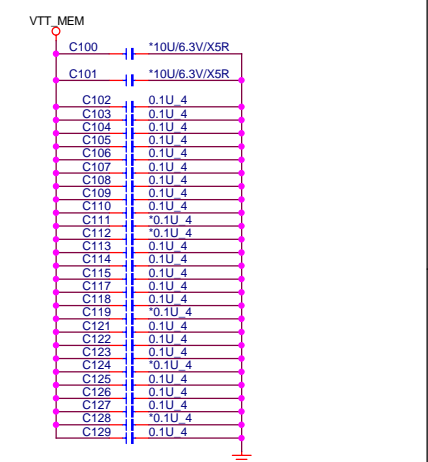
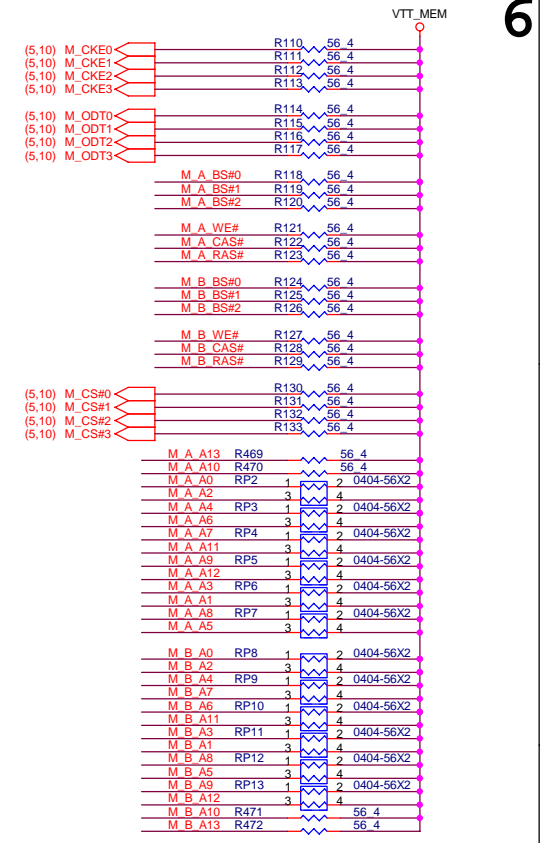
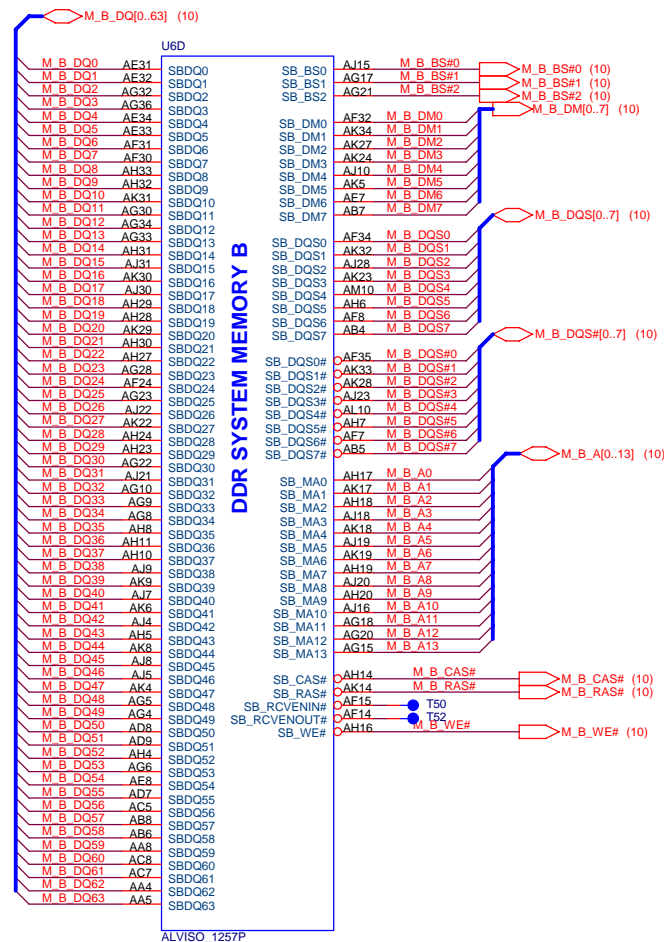
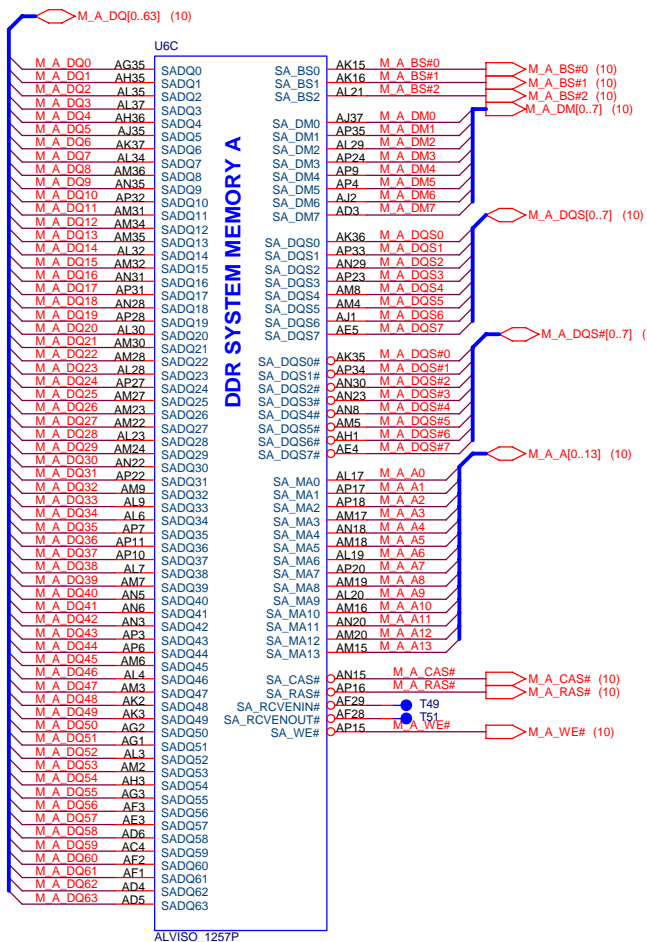
SDVOCTRL_DATA :
 * 0 : No SDVO Device Present(default)
 1 : SDVO Device Present

QUANTA COMPUTER

Title: **Alviso**

Size	Document Number	Rev
	RD1 Main Board	1A

Date: Thursday, June 30, 2005 Sheet 5 of 32



QUANTA COMPUTER

Title: **Alviso-DDRII**

Size: **RD1 Main Board**

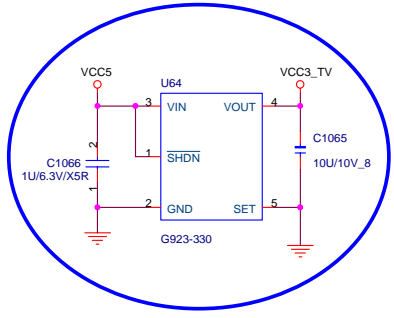
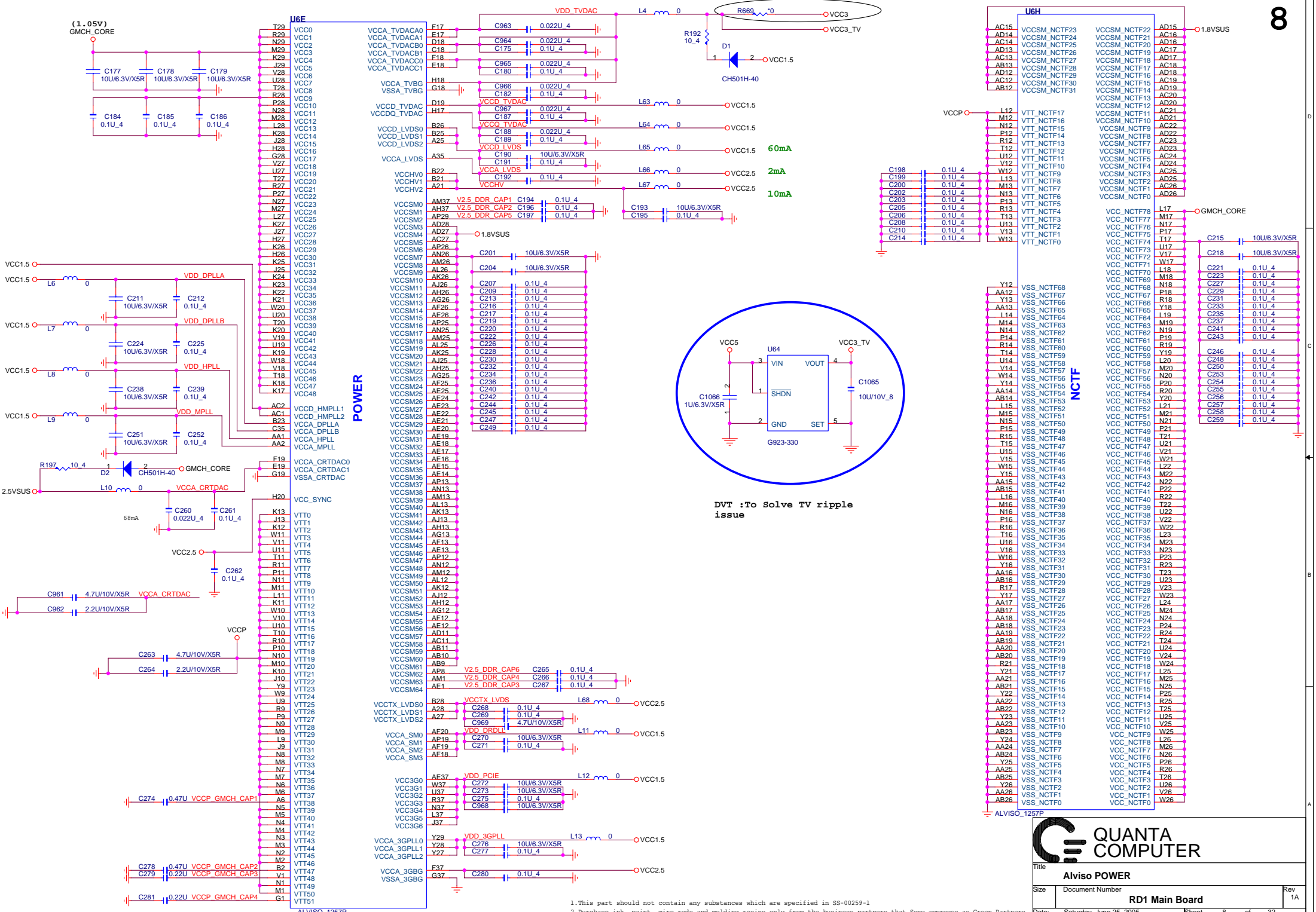
Document Number: **Rev 1A**

Date: **Thursday, June 30, 2005**

Sheet: **6** of **32**

1.This part should not contain any substances which are specified in SS-00259-1

2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

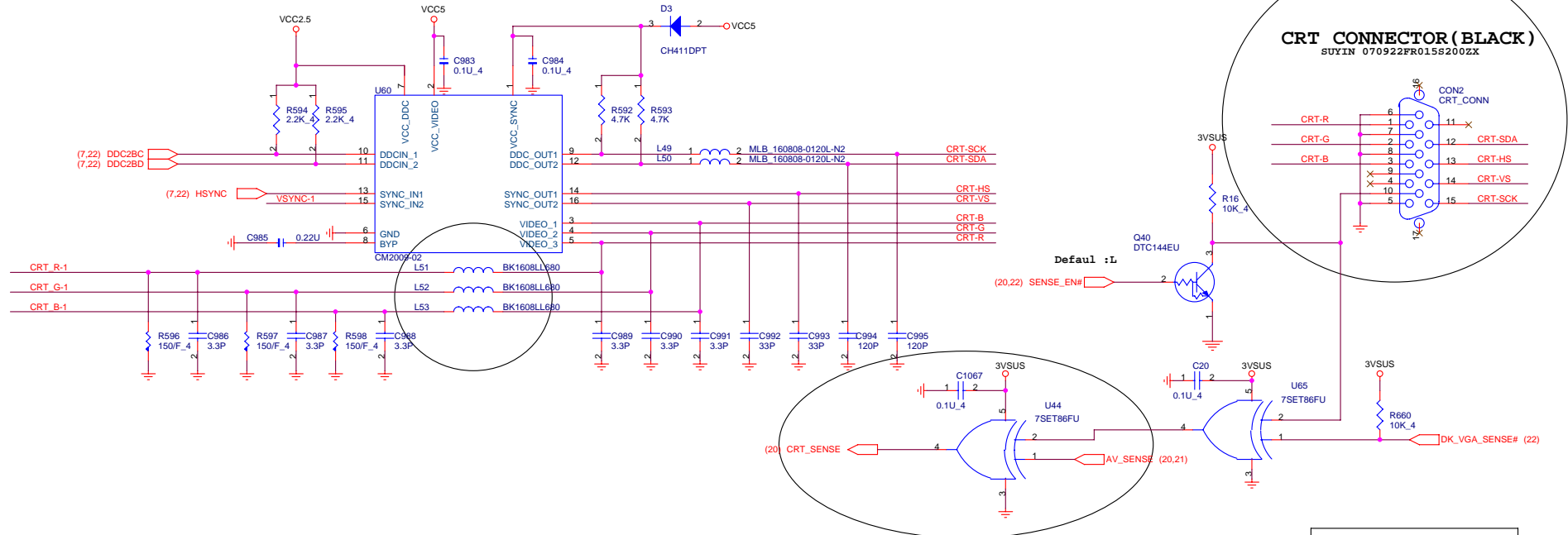


Pin	Component	Value	Pin	Component	Value
AC15	VCCSM_NCTF23		L17	GMCH_CORE	
AD14	VCCSM_NCTF24		M17		
AC14	VCCSM_NCTF25		L18	C218	100µF/6.3V/X5R
AD13	VCCSM_NCTF26		M18	C219	0.1U_4
AC13	VCCSM_NCTF27		L19	C220	0.1U_4
AB13	VCCSM_NCTF28		M19	C221	0.1U_4
AD12	VCCSM_NCTF29		L20	C222	0.1U_4
AC12	VCCSM_NCTF30		M20	C223	0.1U_4
AB12	VCCSM_NCTF31		L21	C224	0.1U_4
			M21	C225	0.1U_4
			L22	C226	0.1U_4
			M22	C227	0.1U_4
			L23	C228	0.1U_4
			M23	C229	0.1U_4
			L24	C230	0.1U_4
			M24	C231	0.1U_4
			L25	C232	0.1U_4
			M25	C233	0.1U_4
			L26	C234	0.1U_4
			M26	C235	0.1U_4
			L27	C236	0.1U_4
			M27	C237	0.1U_4
			L28	C238	0.1U_4
			M28	C239	0.1U_4
			L29	C240	0.1U_4
			M29	C241	0.1U_4
			L30	C242	0.1U_4
			M30	C243	0.1U_4
			L31	C244	0.1U_4
			M31	C245	0.1U_4
			L32	C246	0.1U_4
			M32	C247	0.1U_4
			L33	C248	0.1U_4
			M33	C249	0.1U_4
			L34		
			M34		
			L35		
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			M100		

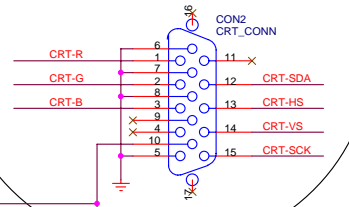


Title: Alviso POWER		
Size	Document Number	Rev
	RD1 Main Board	1A
Date: Saturday, June 25, 2005	Sheet 8	of 32

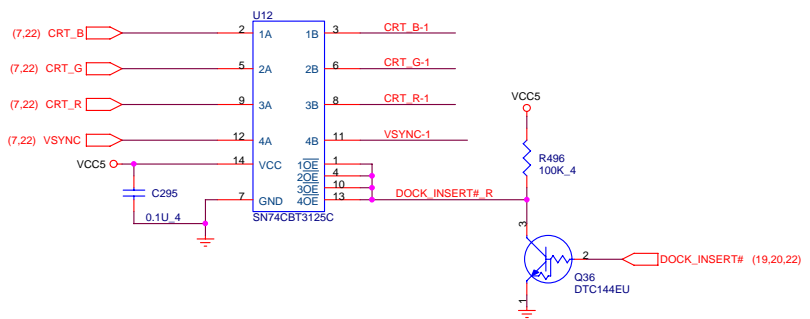
1. This part should not contain any substances which are specified in SS-00259-1
 2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



CRT CONNECTOR (BLACK)
SUYIN 070922FR015S200ZX



Close to PR-CONN



Plug Display true table

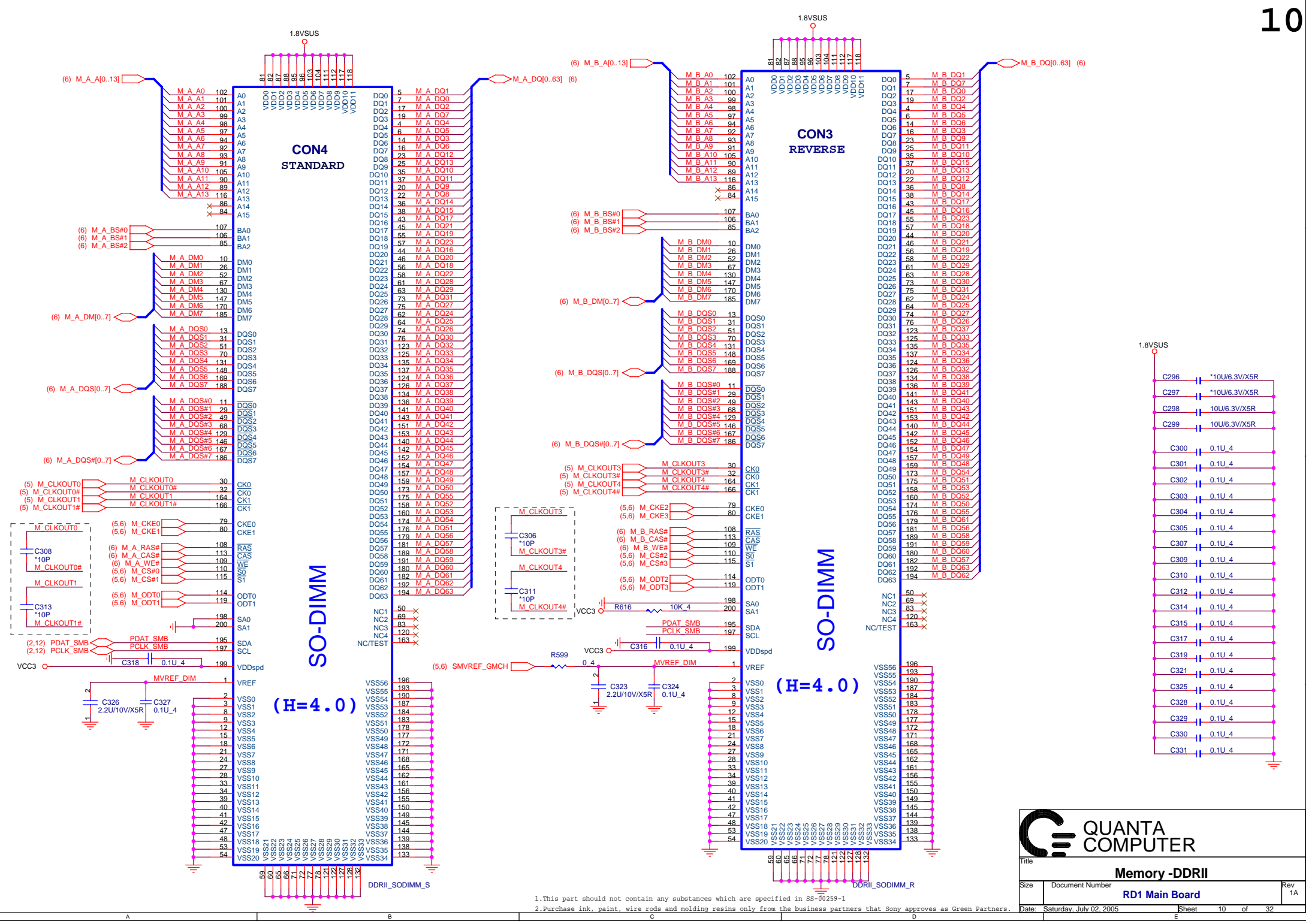
- MB no CRT/AV
- MB CRT Plug
- MB AV-OUT Plug
- MB CRT/AV-OUT Plug
- DOCK No CRT/DVI /AV
- DOCK CRT Plug
- DOCK DVI Plug
- DOCK AV Plug
- DOCK CRT/DVI Plug
- DOCK DVI/AV Plug
- DOCK CRT/AV Plug
- DOCK CRT/DVI/AV Plug

DOCK_INSERT#	SENSE_EN#	MB CRT	DK_VGA_SENSE#	DOCK DVI	DOCK CRT	AV_SENSE	CRT_SENSE
H	L	H	H	X	X	L	L
H	L	L	H	X	X	L	H
H	L	H	H	X	X	H	H
H	L	L	H	X	X	H	L
L	L	H	H	L	H	L	L
L	L	H	L	H	L	L	H
L	L	H	H	L	H	H	H
L	L	H	L	H	H	H	L
L	L	H	H	H	L	H	L
L	L	H	H	H	L	H	L
L	L	H	H	H	L	H	H
X	H	X	X	X	X	X	L



CRT /AV OUT

1.This part should not contain any substances which are specified in SS-00259-1
2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



QUANTA COMPUTER

Title: **Memory -DDR1I**

Size: **RD1 Main Board**

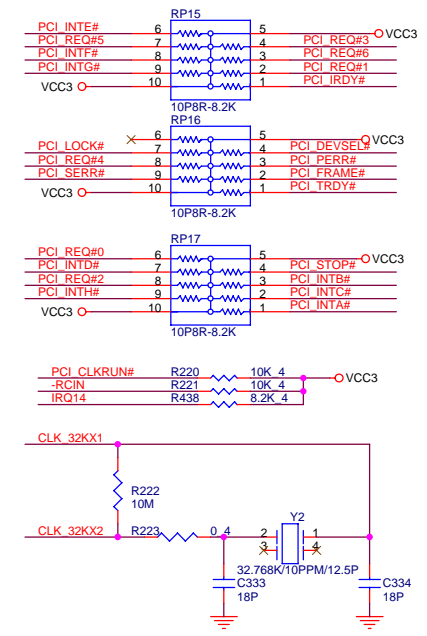
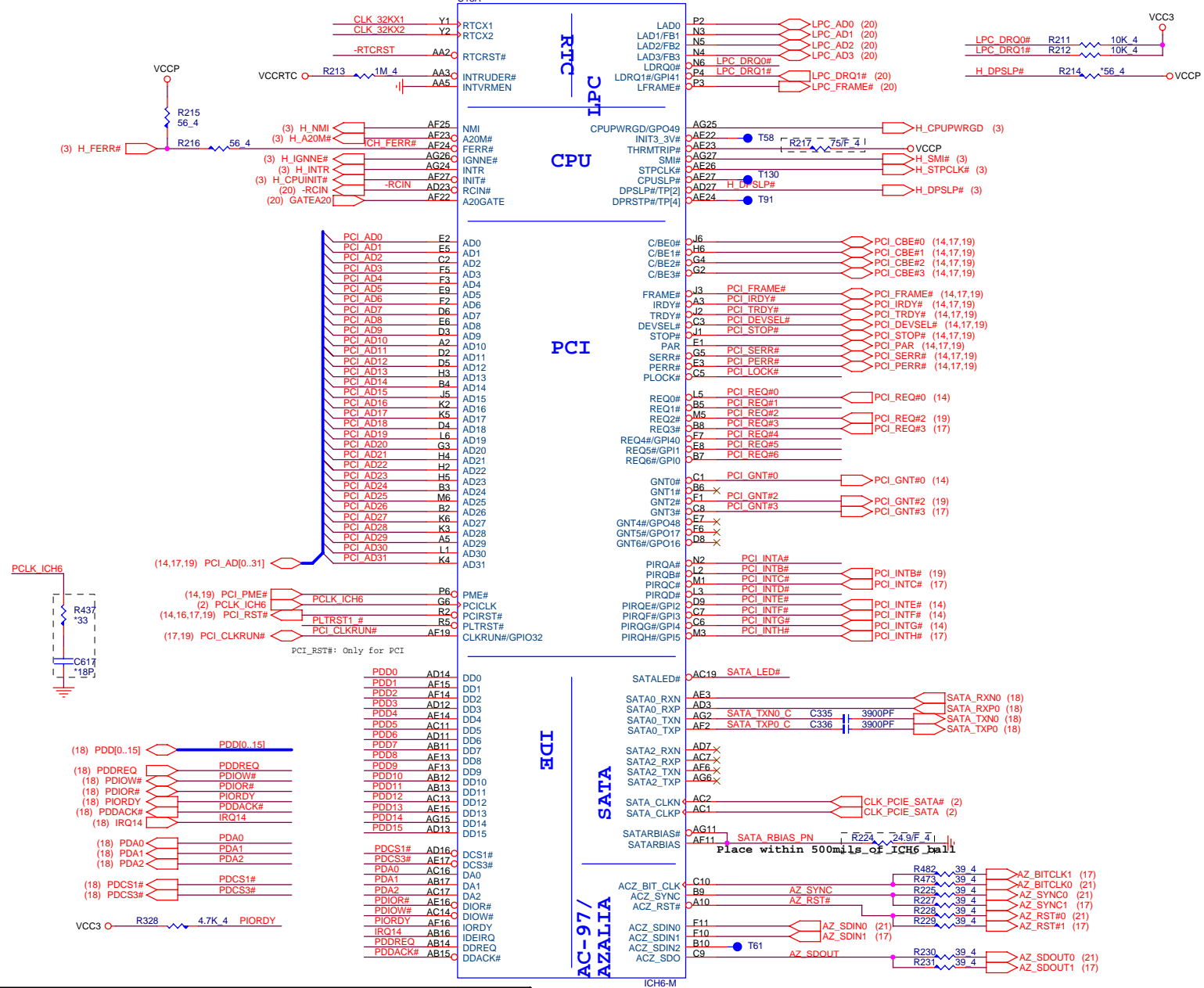
Document Number: **RD1 Main Board**

Date: **Saturday, July 02, 2005**

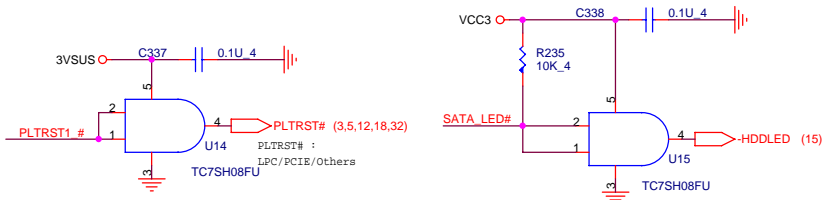
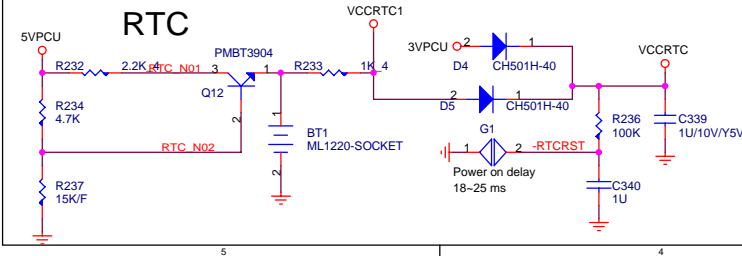
Sheet: **10** of **32**

Rev: **1A**

1. This part should not contain any substances which are specified in SS-00259-1
 2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



- PCI_REQ0 : TI-7420
 - PCI_REQ1 : X
 - PCI_REQ2 : LAN (8100CL)
 - PCI_REQ3 : MINI PCI
 - PCI_REQ4 : X
 - PCI_REQ5 : X
 - PCI_REQ6 : X
 - IDSEL: (AD16 ~ 29)
 - AD24 : LAN(8100CL)
 - AD25 : TI-7420
 - AD26 : MINI PCI
 - .
- PCI_INTA# : X
 - PCI_INTB# : LAN(8100CL)
 - PCI_INTC# : MINI PCI
 - PCI_INTD# : X
 - PCI_INTE# : TI-7420
 - PCI_INTF# : TI-7420
 - PCI_INTG# : TI-7420
 - PCI_INTH# : MINI PCI



1. This part should not contain any substances which are specified in SS-00259-1
 2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

QUANTA COMPUTER

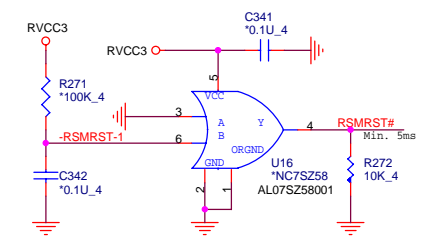
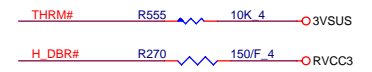
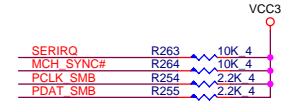
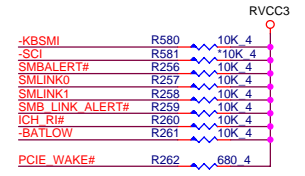
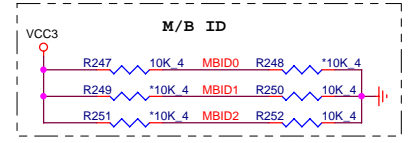
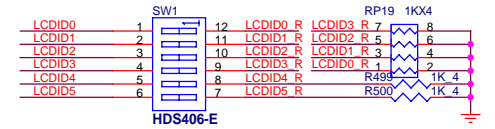
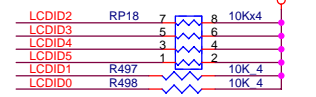
Title: **ICH6-M**

Size: _____ Document Number: _____ Rev: 1A

Sheet: 11 of 32

Date: Thursday, June 30, 2005

LCD ID



QUANTA COMPUTER

Title: ICH6-M

Size: Document Number: RD1 Main Board Rev 1A

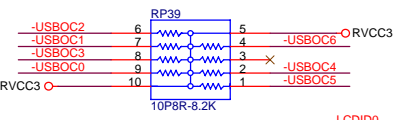
Date: Thursday, June 30, 2005 Sheet 12 of 32

USB_PORT

DOCKING_HUB

FeliCa

Reserve



U13B

USB

DMI

PCI-EXPRESS

SM&SMI

PM

MISC&GPIO

LAN

RESERVED

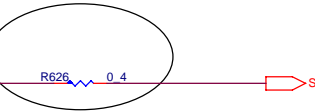
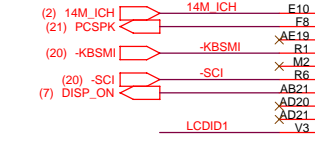
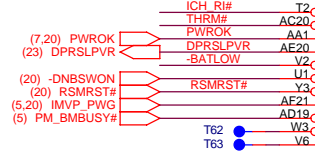
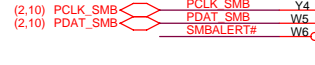
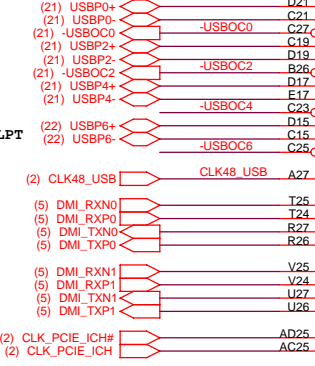
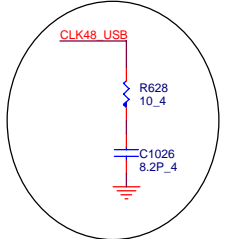
ICH6-M

USB_PORT

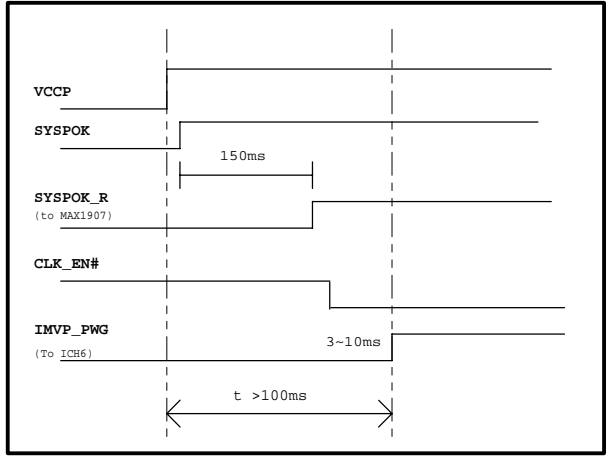
USB_PORT

CAMERA

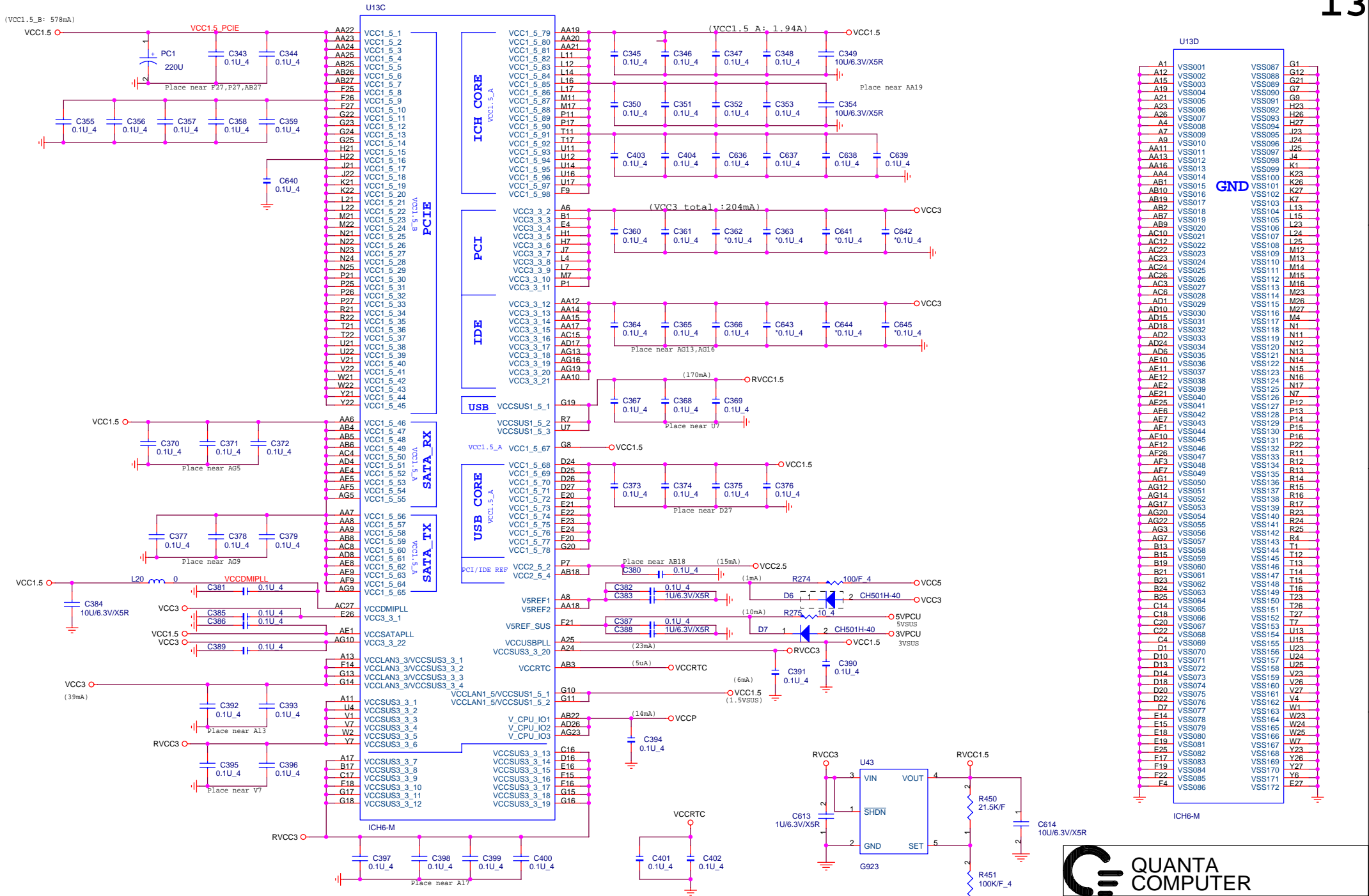
DOCKING_LPT



Reserve AC termination for EMI



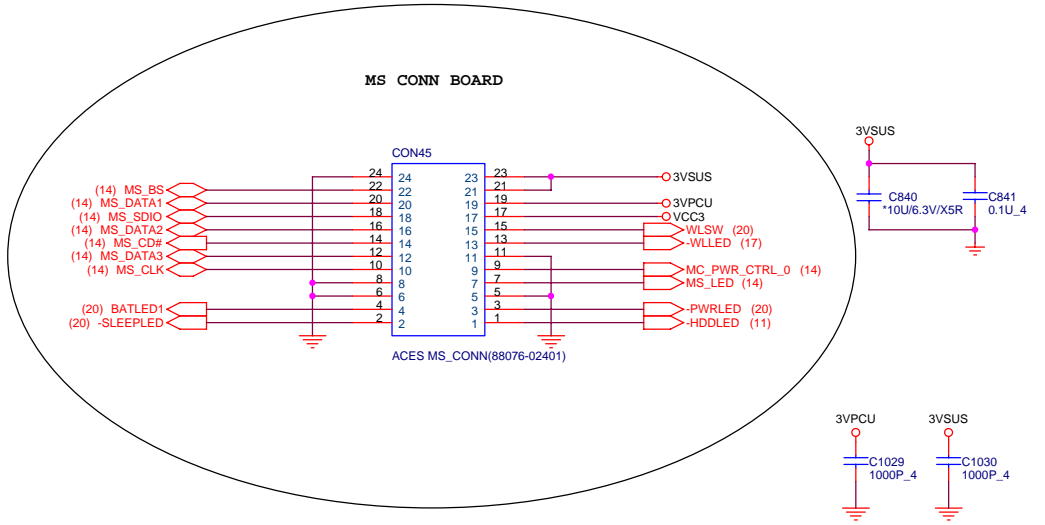
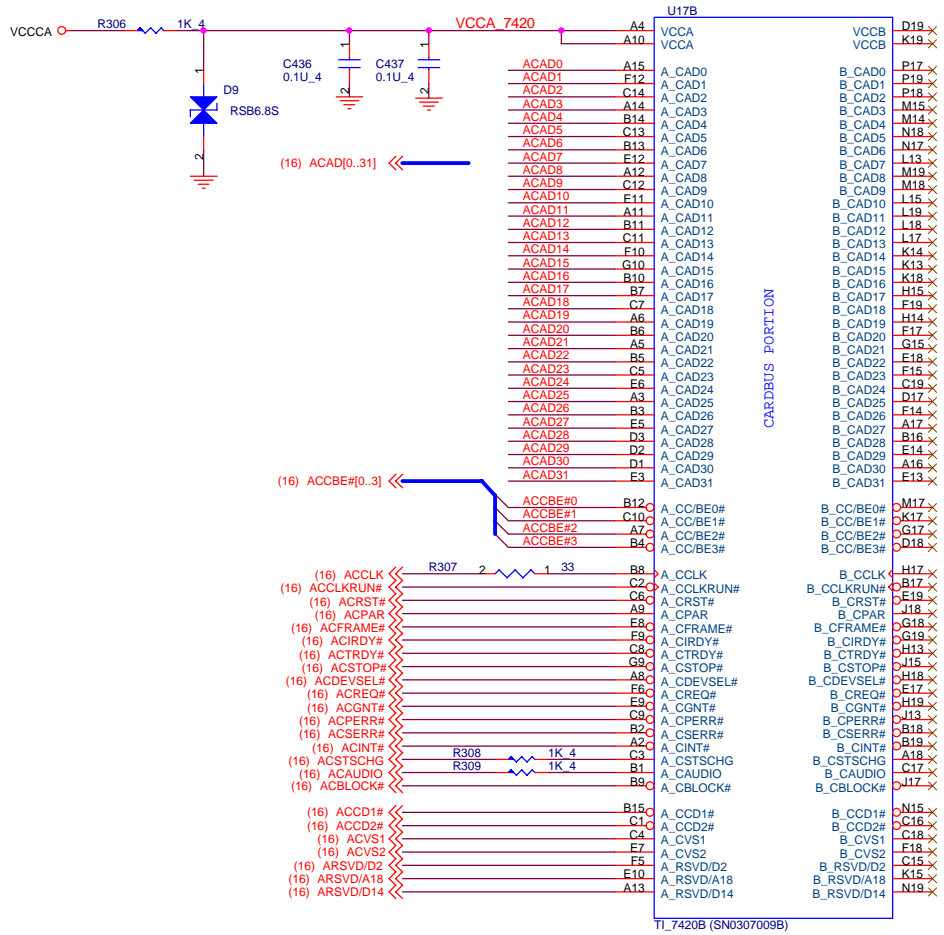
1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



Title ICH6-M		
Size	Document Number RD1 Main Board	Rev 1A
Date	Saturday, June 25, 2005	Sheet 13 of 32

1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

MB side : ACES 88076-02401 with boss
 MS side : ACES 88066-02401 with boss
 H=2.0mm



QUANTA COMPUTER

Title: **TI-7420B CardBus Control -- B**

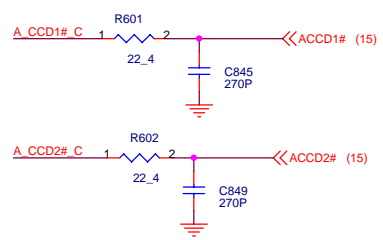
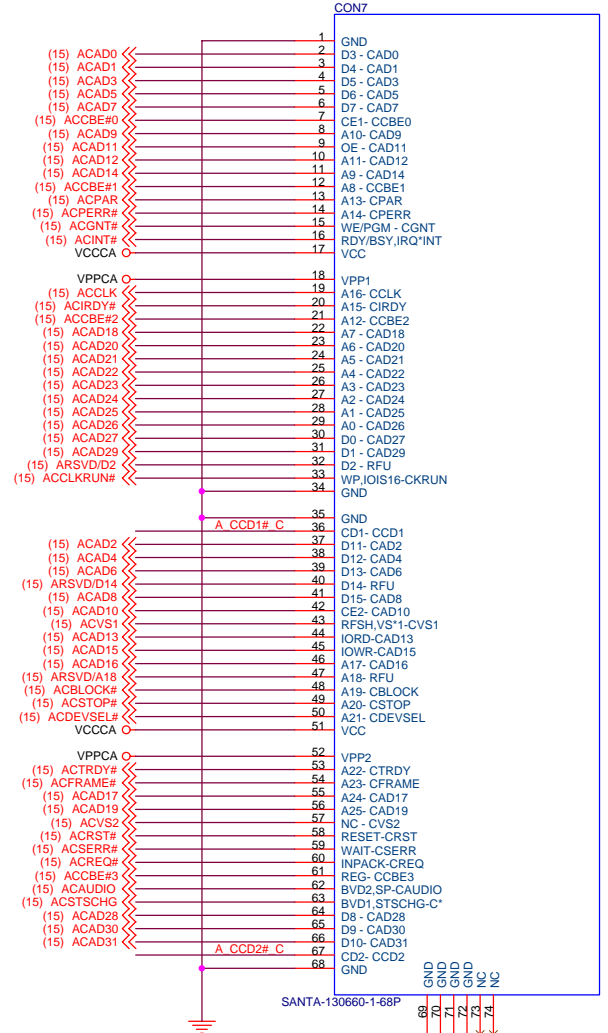
Size: Document Number **RD1 Main Board** Rev 1A

Date: Saturday, July 02, 2005 Sheet 15 of 32

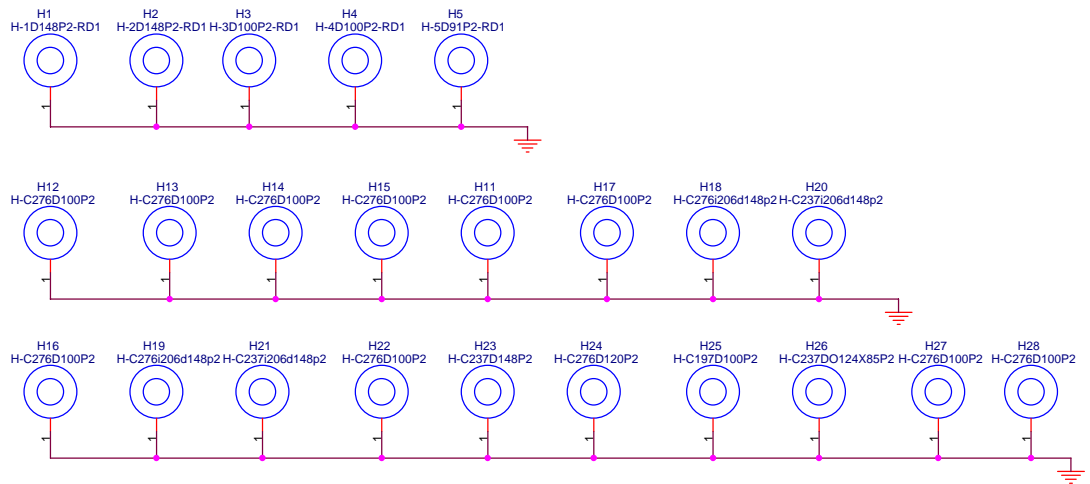
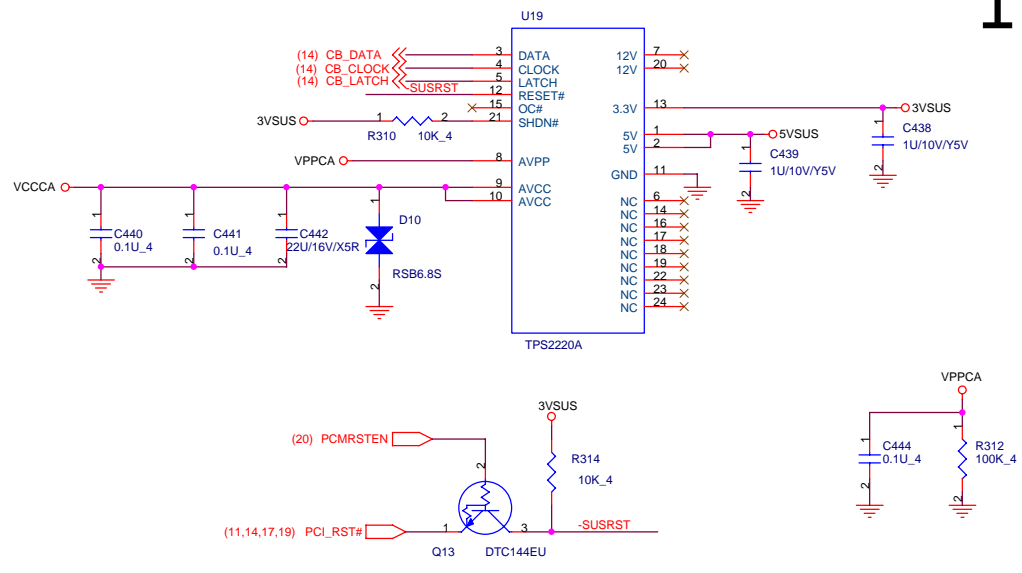
1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

(15) ACAD[0..31] << <<
 (15) ACCBE#[0..3] << <<

PCMCIA SOCKET



CardBus inject : 130660-1 , FB0A6063017
 CardBus CONN : 130610-1



QUANTA COMPUTER

Title: **CARDBUS SLOT**

Size: Document Number **RD1 Main Board** Rev 1A

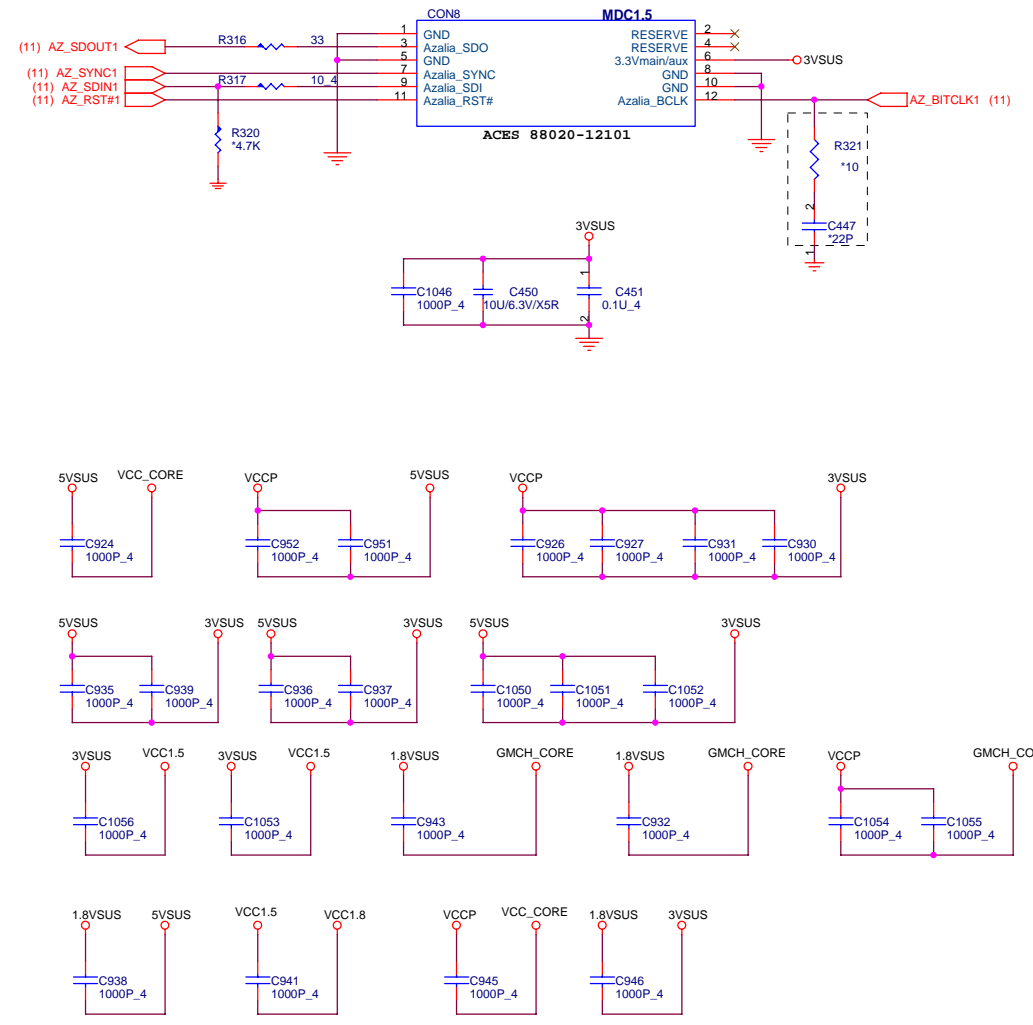
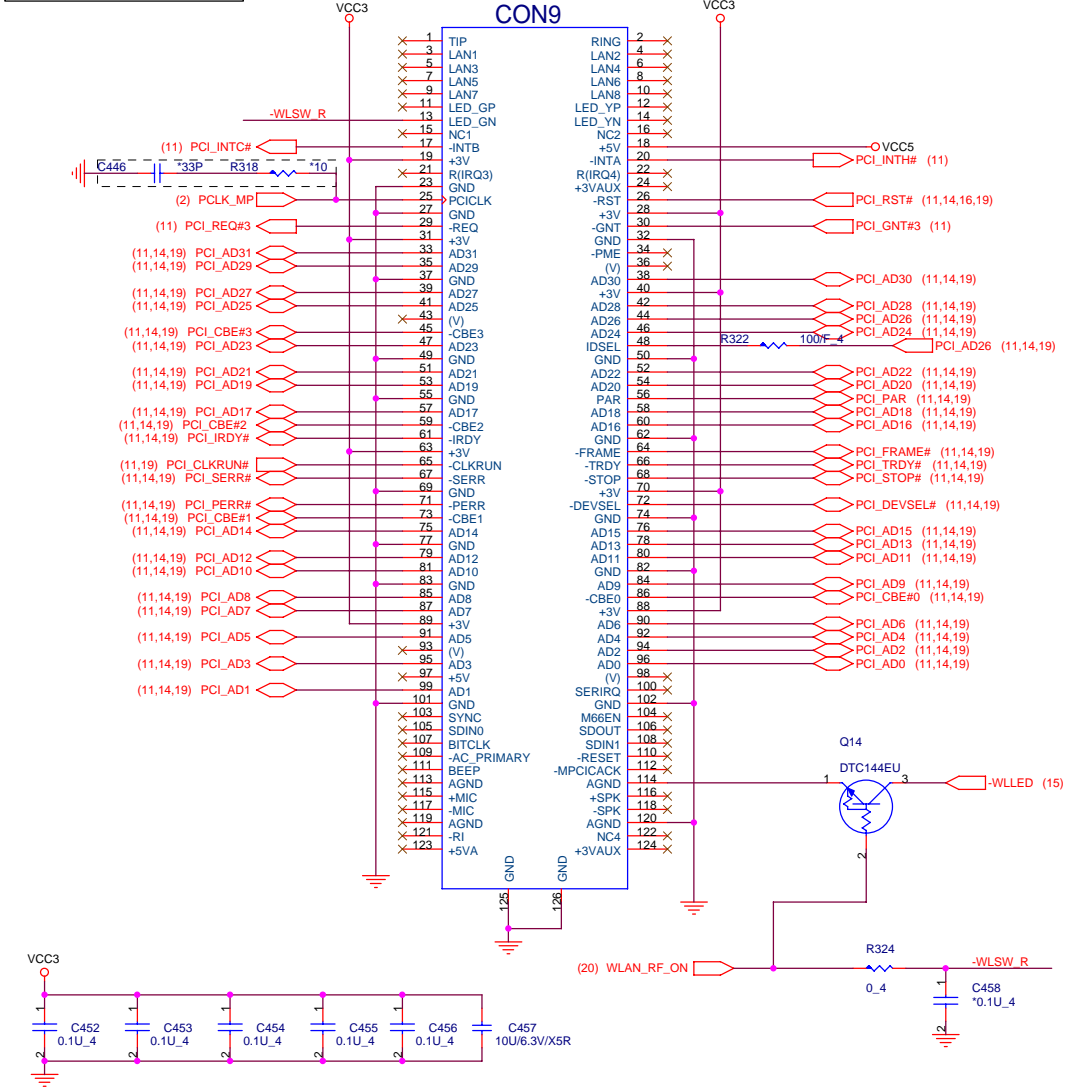
Date: Saturday, July 02, 2005 Sheet 16 of 32

1. This part should not contain any substances which are specified in SS-00259-1
 2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

MDC V1.5

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.

AMP 1734835-2
 MINIPCI H=6.7
 CON9



QUANTA COMPUTER

Title: MINIPCI /MDC

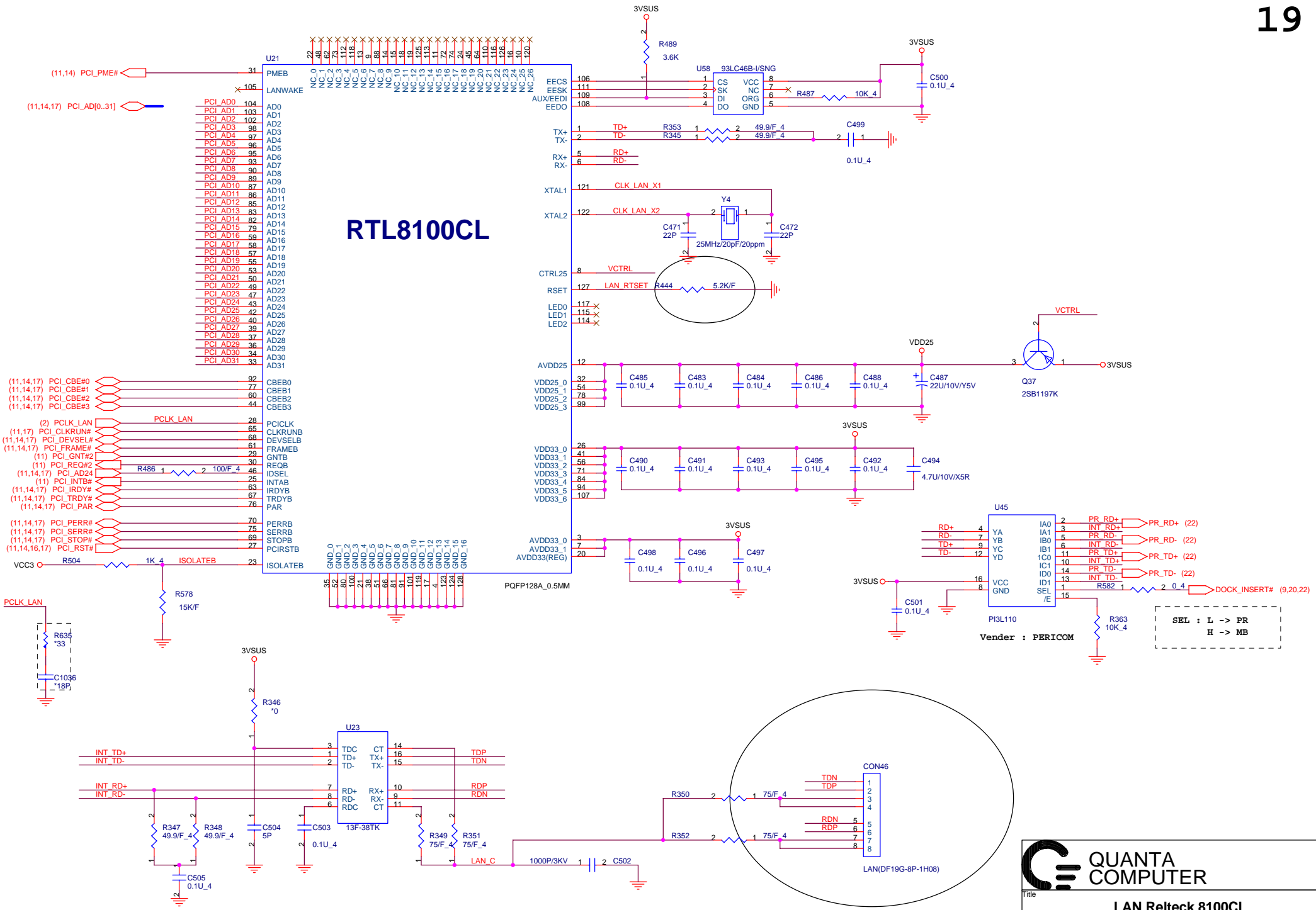
Size: Document Number

Rev: 1A

RD1 Main Board

Date: Thursday, June 30, 2005 Sheet 17 of 32

1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



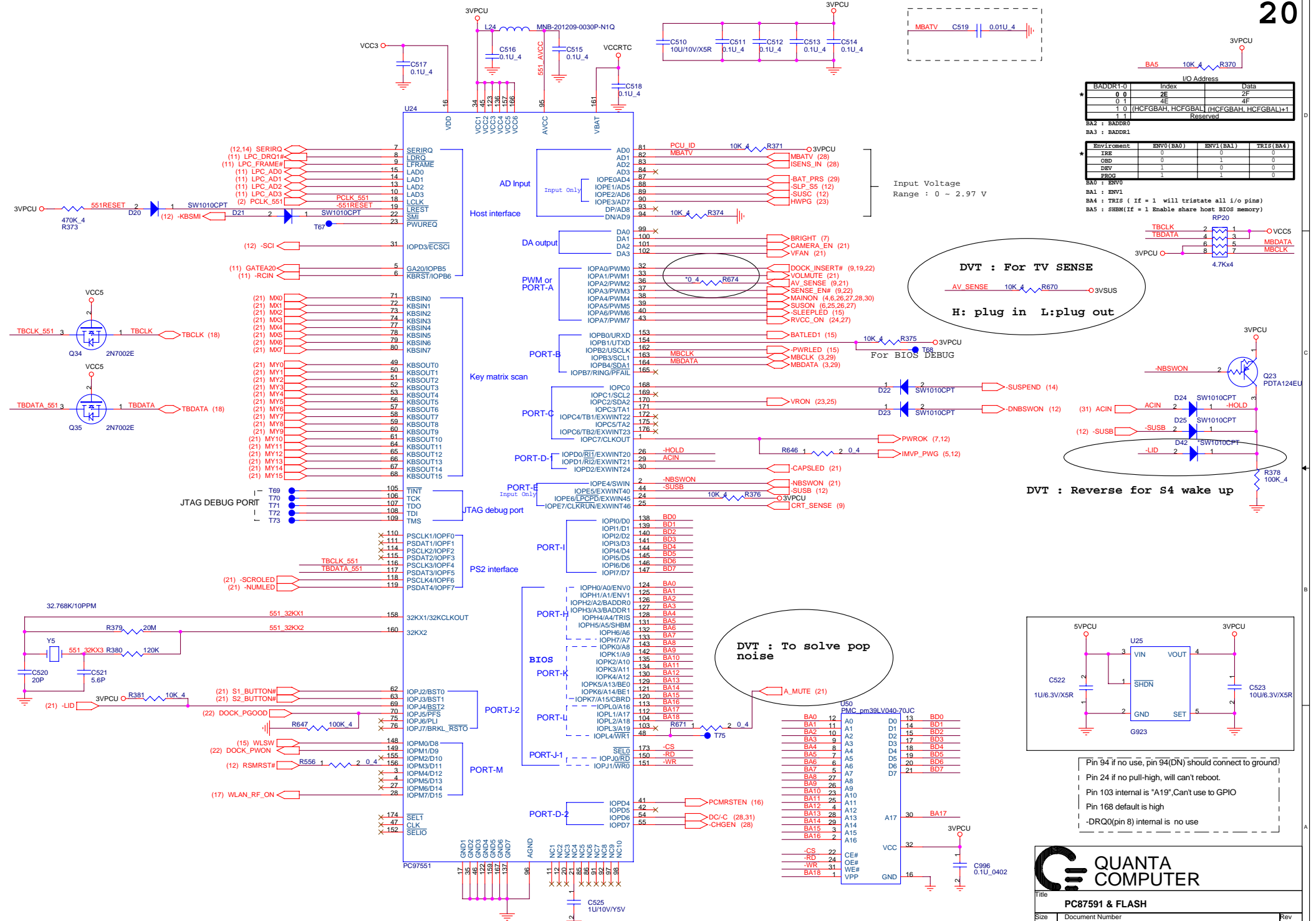
1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

QUANTA COMPUTER

Title: **LAN Relteck 8100CL**

Size: Document Number **RD1 Main Board** Rev 1A

Date: Saturday, July 02, 2005 Sheet 19 of 32



Input Voltage
Range : 0 - 2.97 V

DVT : For TV SENSE
AV SENSE 10K R670 3VSUS
H: plug in L:plug out

DVT : Reverse for S4 wake up

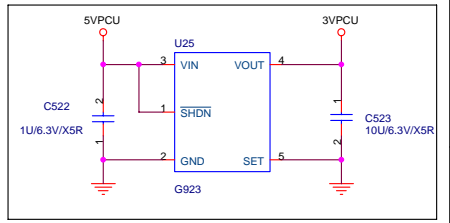
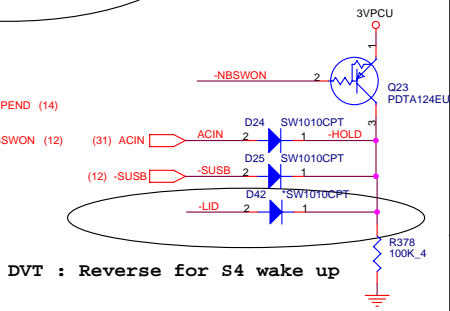
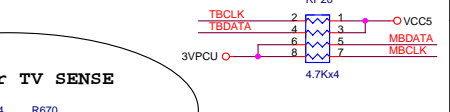
DVT : To solve pop noise
A_MUTE (21)

I/O Address		
BADDR[1:0]	Index	Data
0 0	2E	0F
0 1	4E	4F
1 0	(HCFGBAH, HCFGBAL) (HCFGGBA, HCFGGBL)+1	
1 1	Reserved	

BA2 : BADDR0
BA3 : BADDR1

Environment	ENV0 (BA0)	ENV1 (BA1)	TRIS (BA4)
TRIS	0	0	0
OB	0	1	0
DEV	1	0	0
PROG	1	1	0

BA1 : ENV0
BA2 : ENV1
BA4 : TRIS (If = 1 will tristate all i/o pins)
BA5 : SBHM (If = 1 Enable share host BIOS memory)



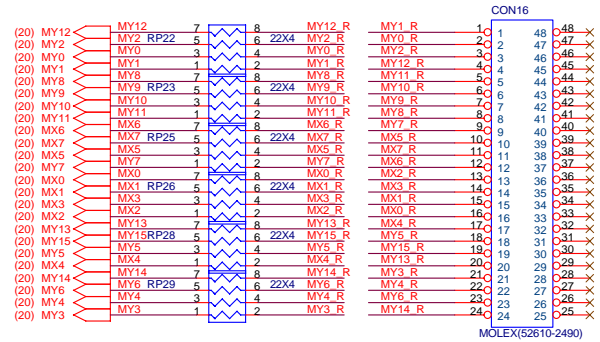
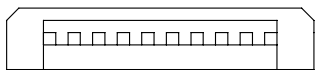
Pin 94 if no use, pin 94(DN) should connect to ground!
Pin 24 if no pull-high, will can't reboot.
Pin 103 internal is "A19", Can't use to GPIO
Pin 168 default is high
-DRQ0(pin 8) internal is no use



Title		PC87591 & FLASH	
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Date:	Friday, July 01, 2005	Sheet	20 of 32
Rev	1A		

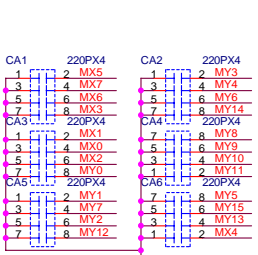
1. This part should not contain any substances which are specified in SS-00259-1
2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

KEYBOARD



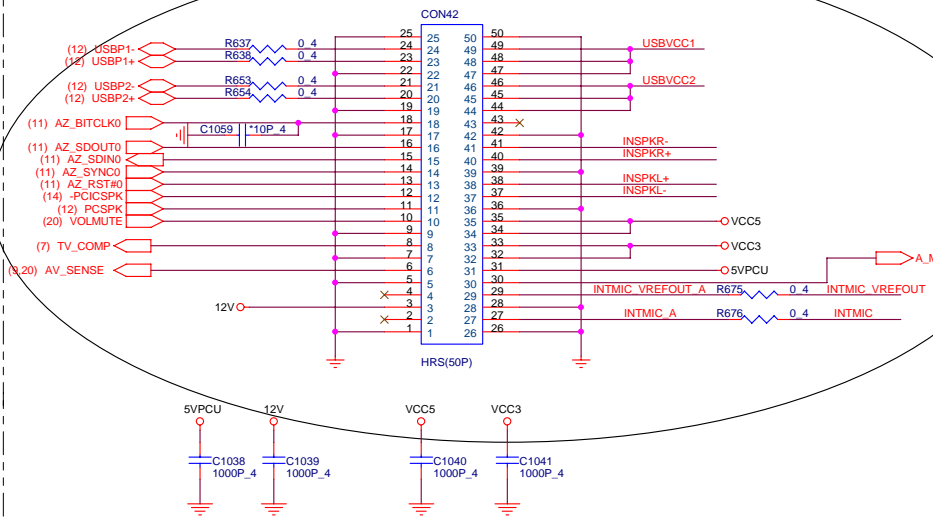
KB7641 series

Molex 52610-2490

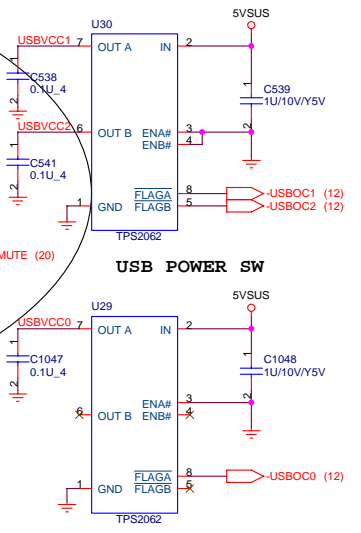


DVT : For EMI

To AUDIO-USB BOARD CONN.

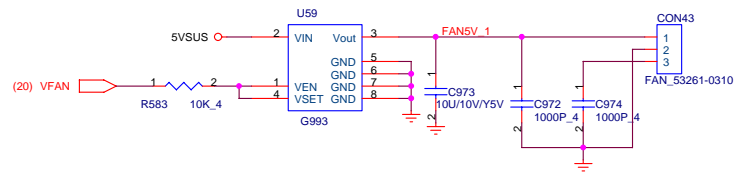


USB POWER SW



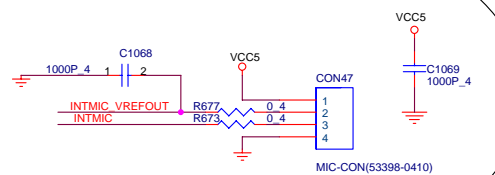
USB POWER SW

FAN

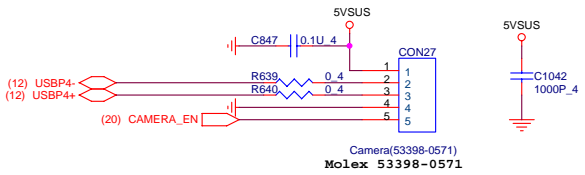


DVT : Add MIC CONN on MB

MIC CONN



USB Camera

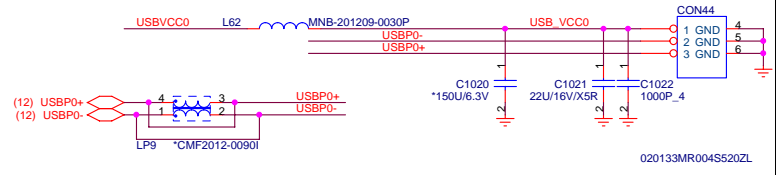


Camera(53398-0571)

Molex 53398-0571

E&T-3702Y-T004-NNN

POWER SWITCH BOARD CONNECTOR



020133MR0045520ZL

87151-2607-26P

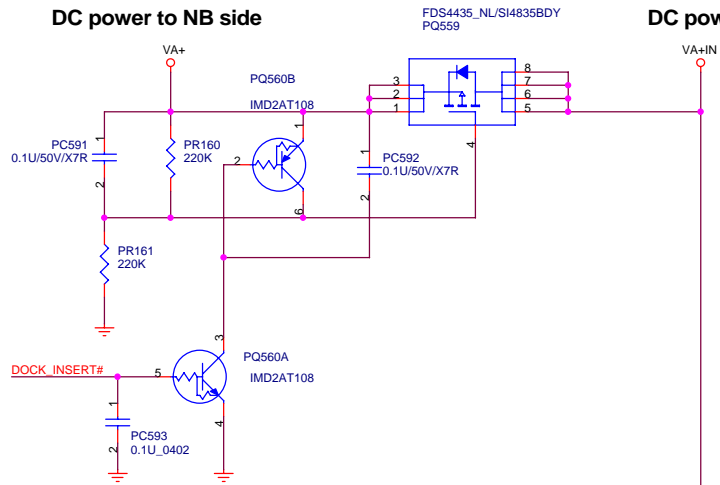


Title			K/B ,USB ,PS
Size	Document Number	RD1 Main Board	
Date:	Saturday, July 02, 2005	Sheet	21 of 32
			Rev 1A

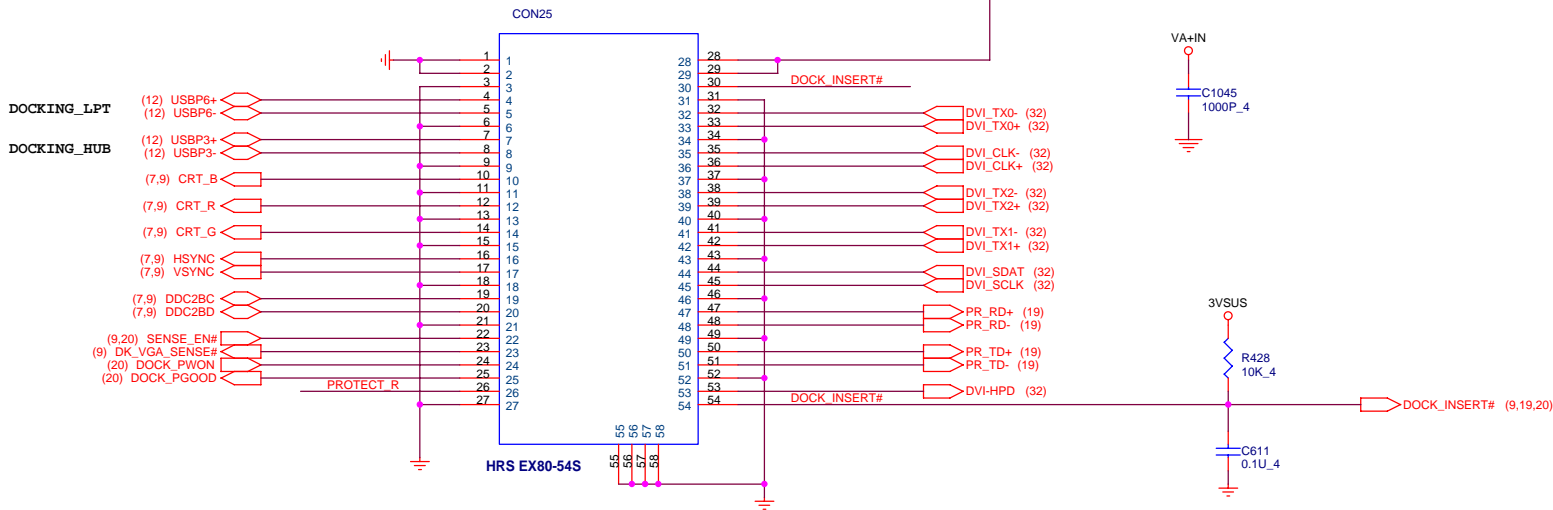
1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

DC power to NB side

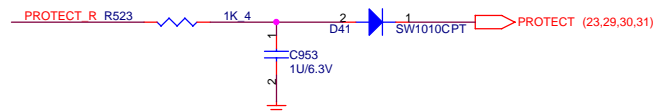
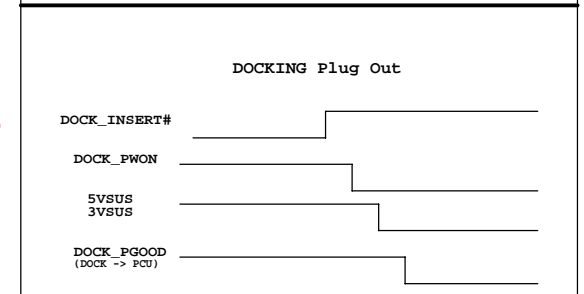
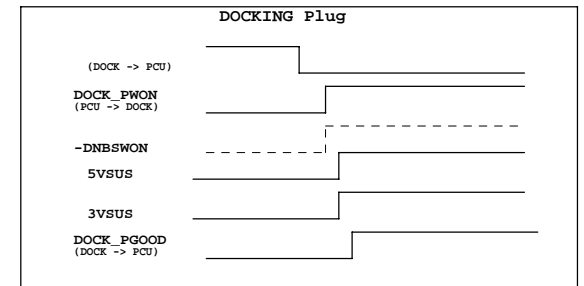
DC power from DOCKING side



Port Replicator CONN

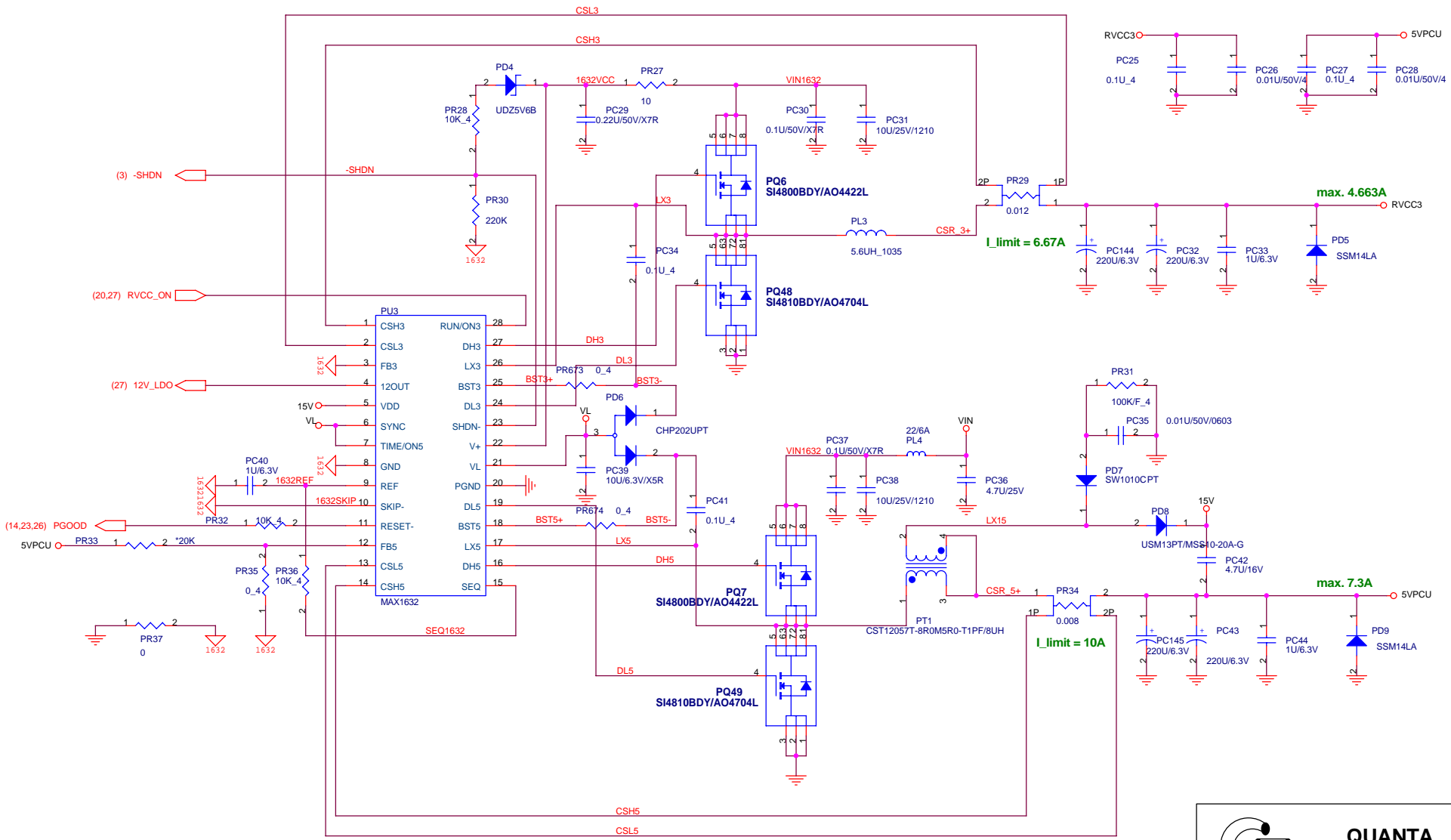


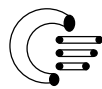
Docking detect Pin : PIN3, PIN30 and PIN 54



1. This part should not contain any substances which are specified in SS-00259-1
 2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



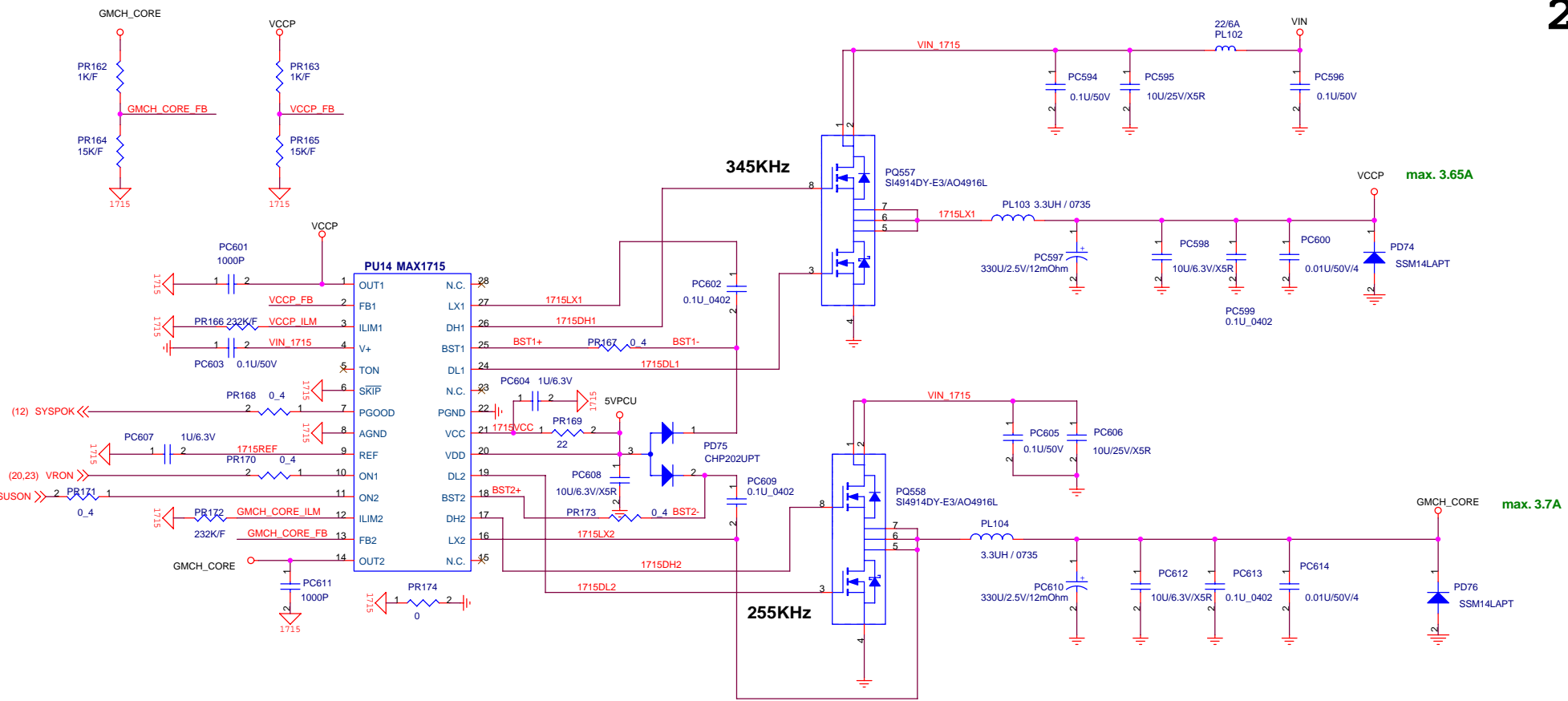




**QUANTA
COMPUTER**

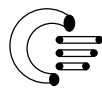
Size	Document Number	Rev
	RD1 Main Board	1A
Date: Thursday, June 30, 2005		Sheet 24 of 32

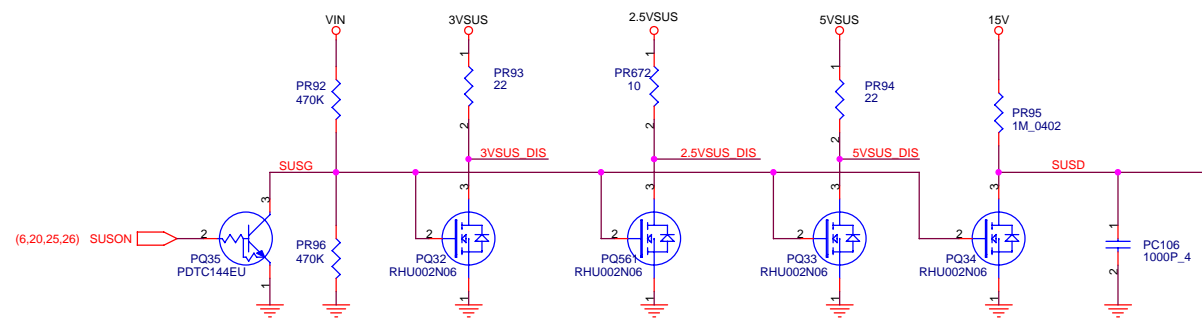
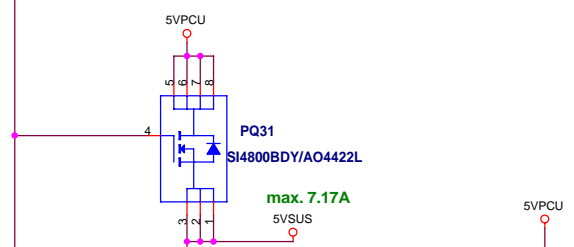
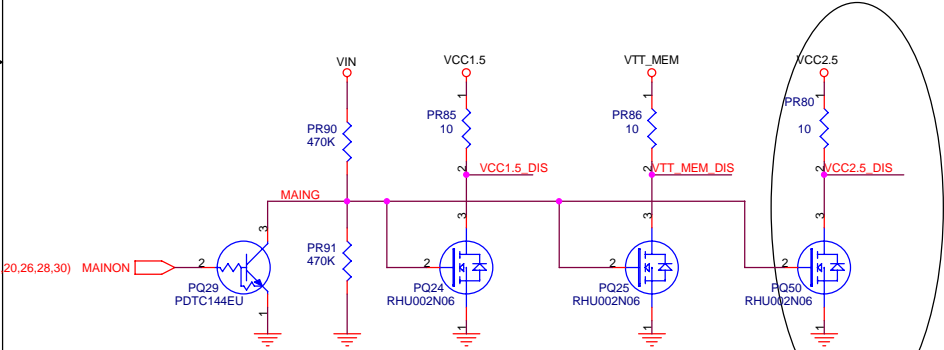
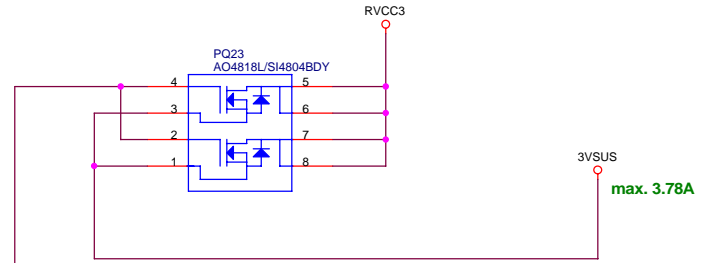
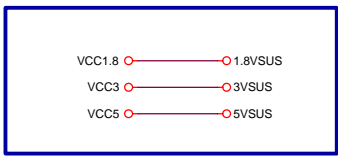
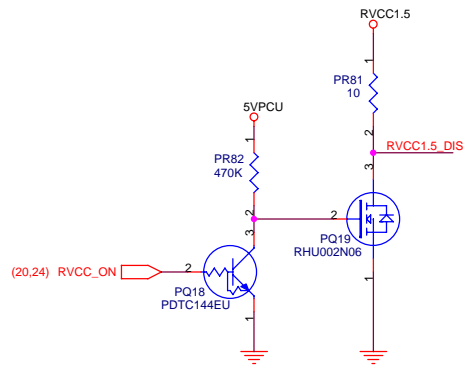
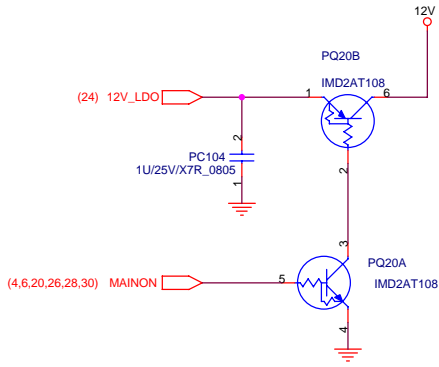
1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



(12) SYSPOK <<< PR171 1
 (20,23) VRON >>> PR170 0.4
 (6,20,26,27) SUSON >>> PR171 1

- 1.This part should not contain any substances which are specified in SS-00259-1
- 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

 QUANTA COMPUTER		Size	Document Number	Rev
		RD1 Main Board		1A
Date: Thursday, June 30, 2005		Sheet 25 of 32		

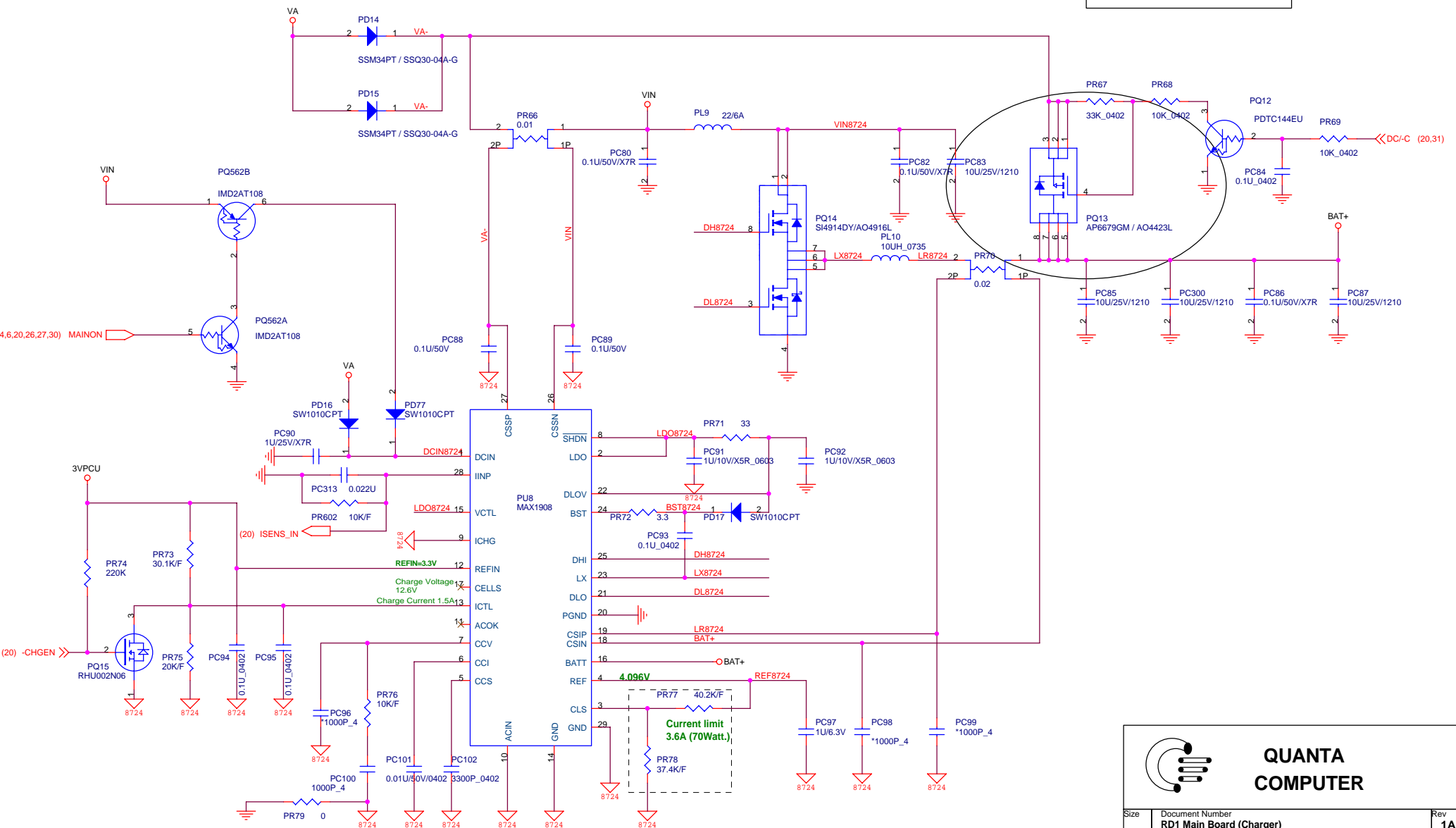
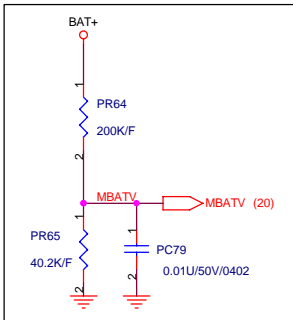


QUANTA COMPUTER

Size: Document Number: **RD1 Main Board** Rev: **1A**

Date: Thursday, June 30, 2005 Sheet: 27 of 32


1. This part should not contain any substances which are specified in SS-00259-1
 2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.



(4,6,20,26,27,30) MAINON

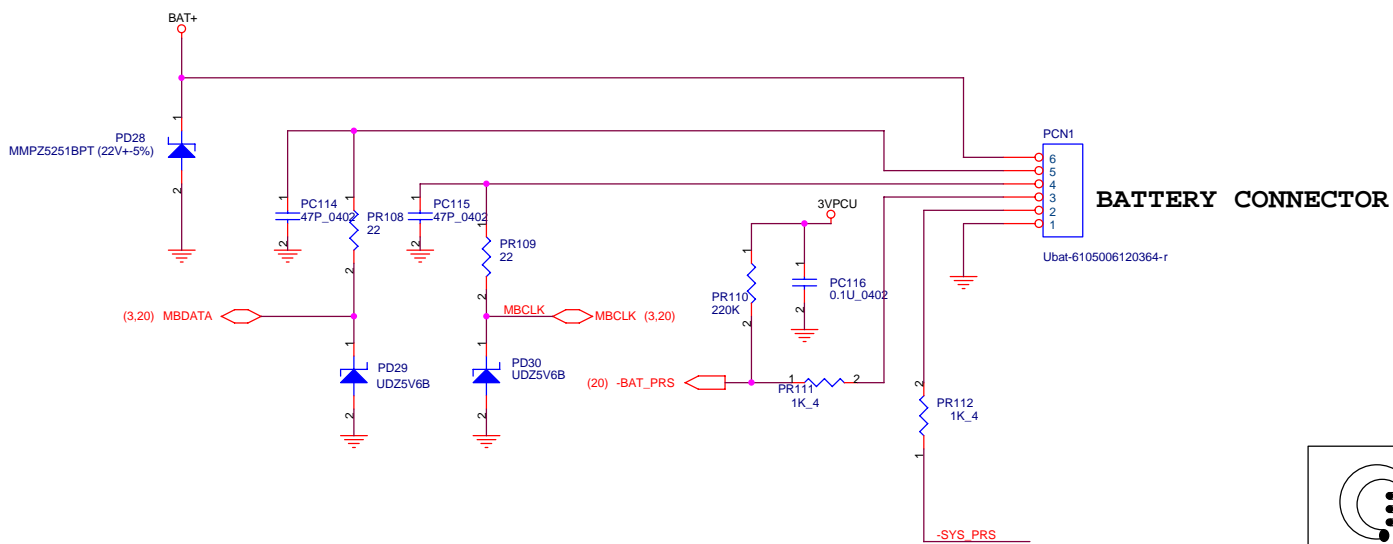
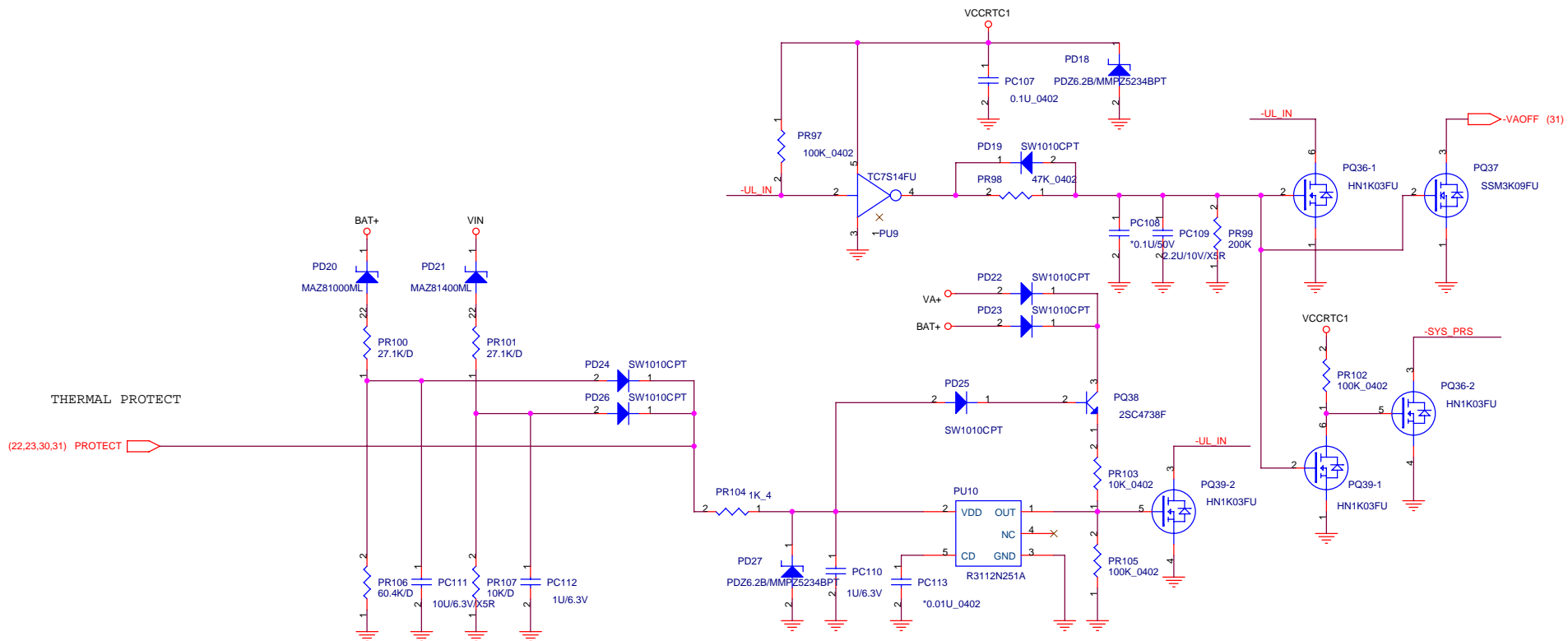
(20) -CHGEN

1. This part should not contain any substances which are specified in SS-00259-1
 2. Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.




**QUANTA
COMPUTER**

Size	Document Number	Rev
RD1 Main Board (Charger)	RD1 Main Board (Charger)	1A
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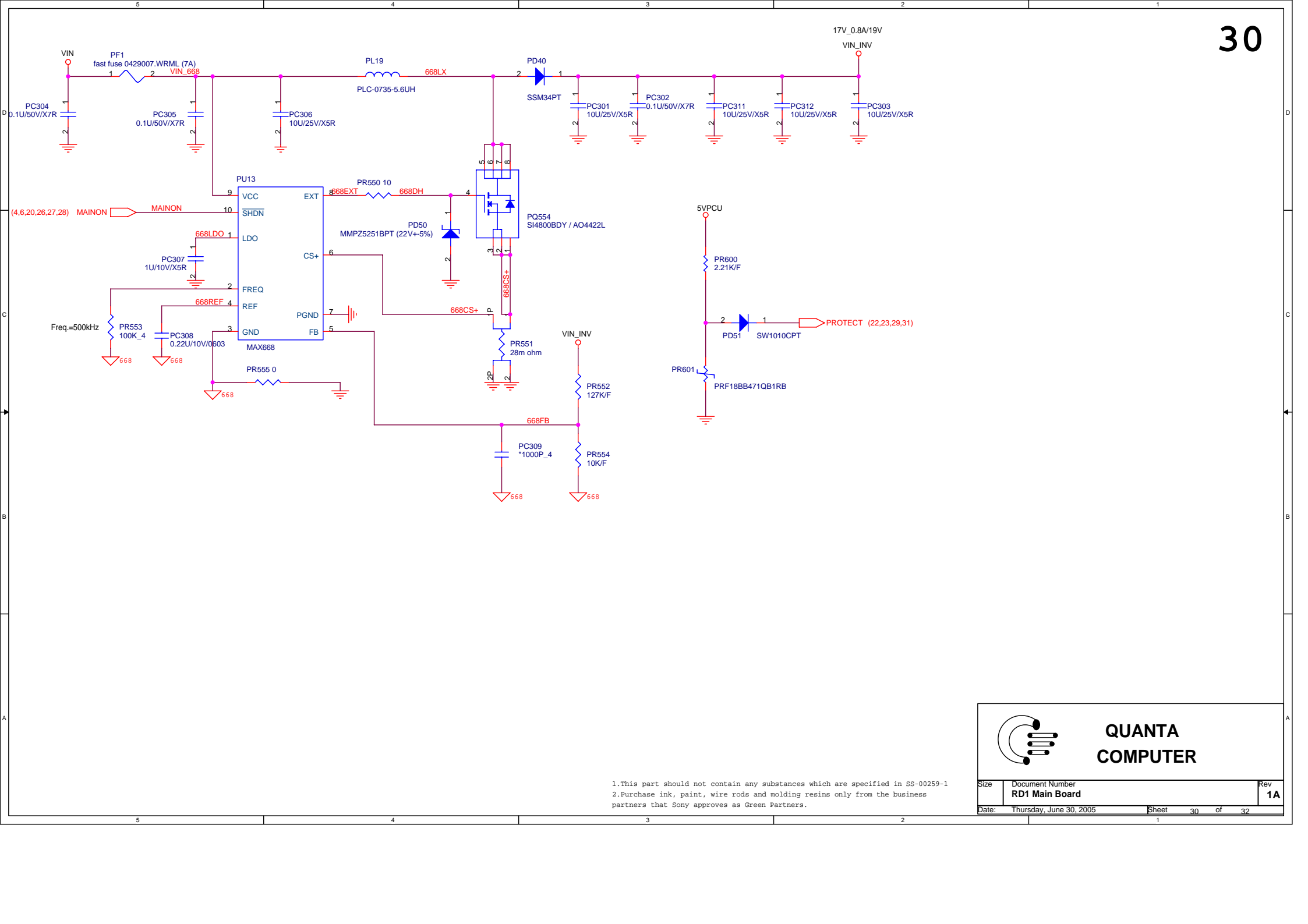


1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

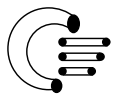


**QUANTA
COMPUTER**

Size	Document Number	Rev
	RD1 Main Board (Charger)	1A
Date: Thursday, June 30, 2005		Sheet 29 of 32

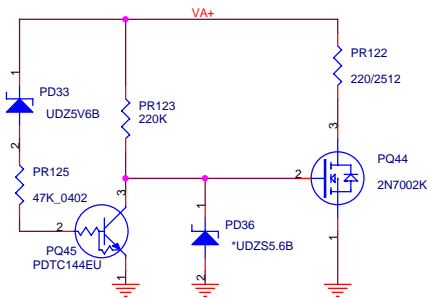
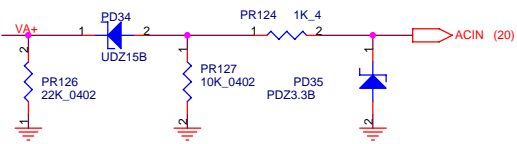
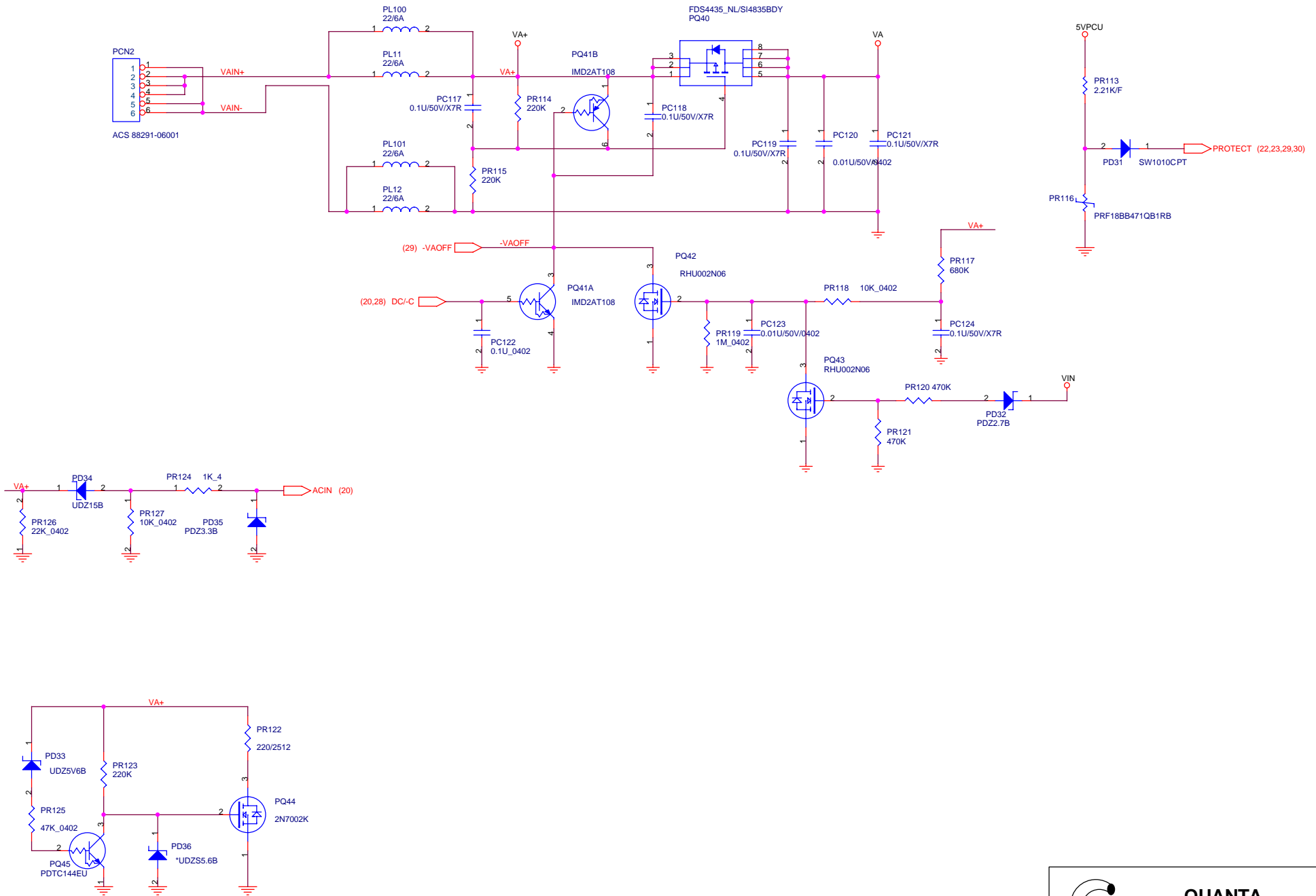


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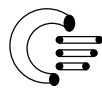


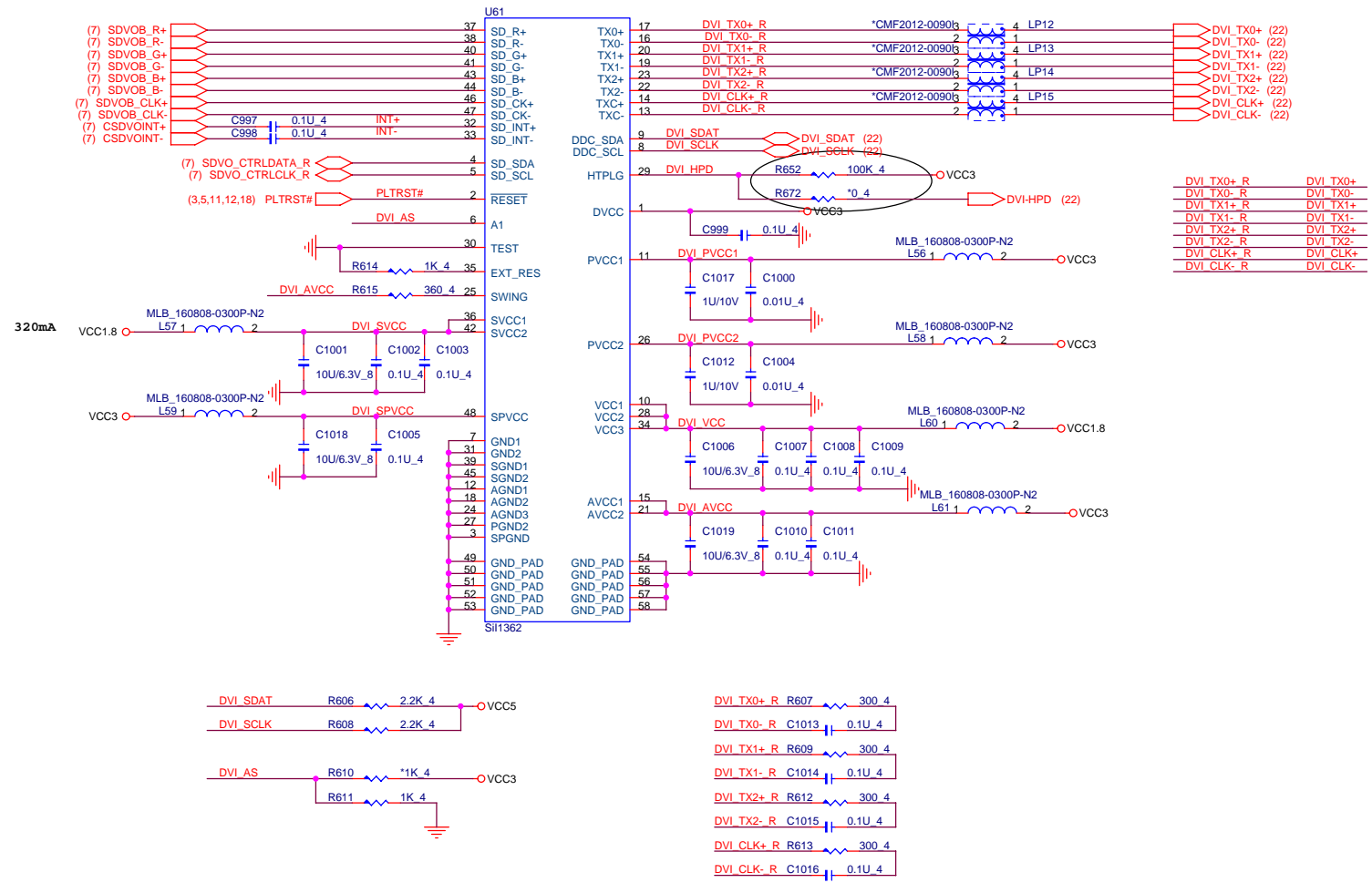
**QUANTA
COMPUTER**

Size	Document Number RD1 Main Board	Rev 1A
Date: Thursday, June 30, 2005 Sheet 30 of 32		



1.This part should not contain any substances which are specified in SS-00259-1
 2.Purchase ink, paint, wire rods and molding resins only from the business partners that Sony approves as Green Partners.

 QUANTA COMPUTER		Size
		Document Number RD1 Main Board
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QUANTA COMPUTER

Title: **DVI**

Size	Document Number	Rev
	RD1 Main Board	1A

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