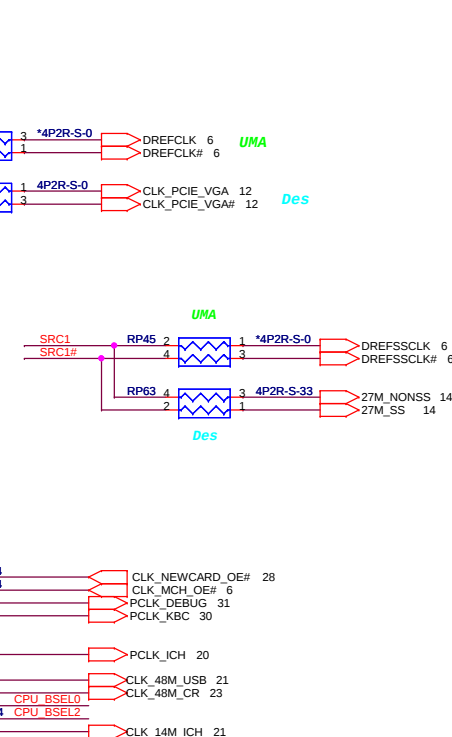
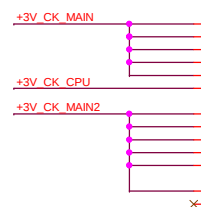
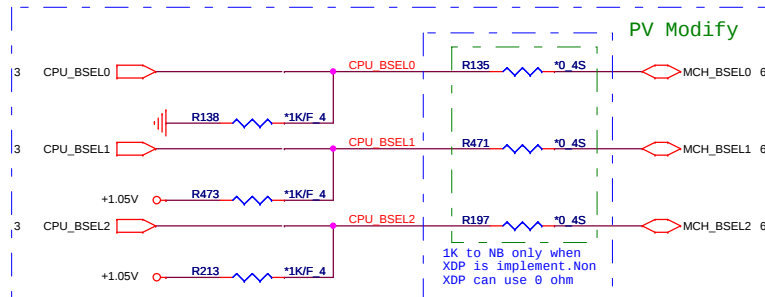
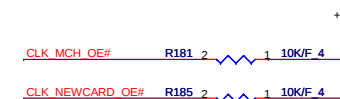


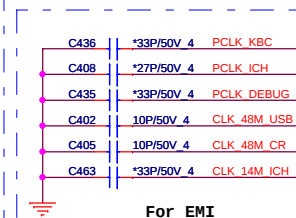
CK505 QFN64

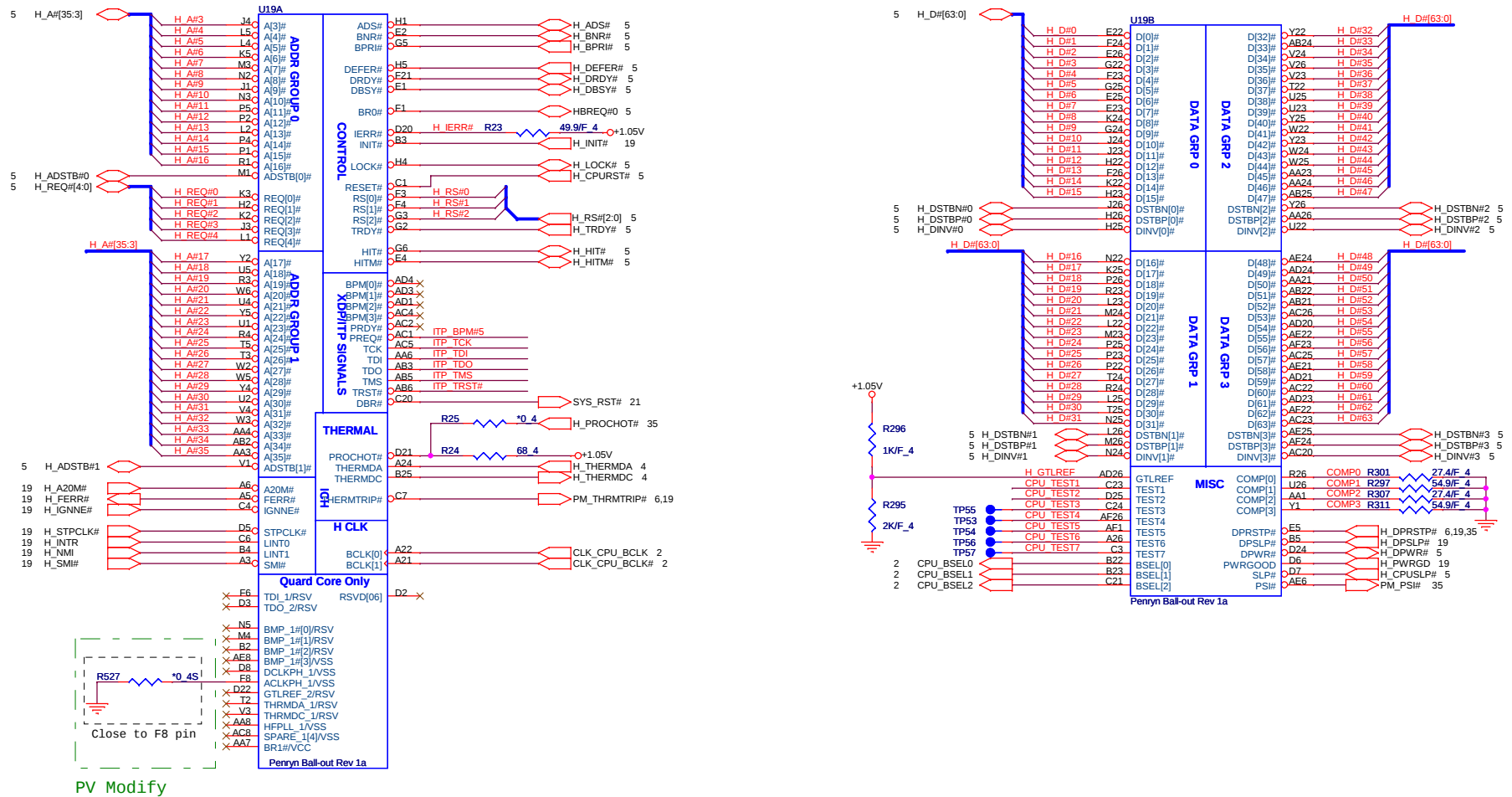
ICS	ICS9LPRS355BKLF	ALPRS355000
Silego	SLG8SP513VTR	AL8SP513000
Realtek	RTM875N-606-VD-GR	AL000875000



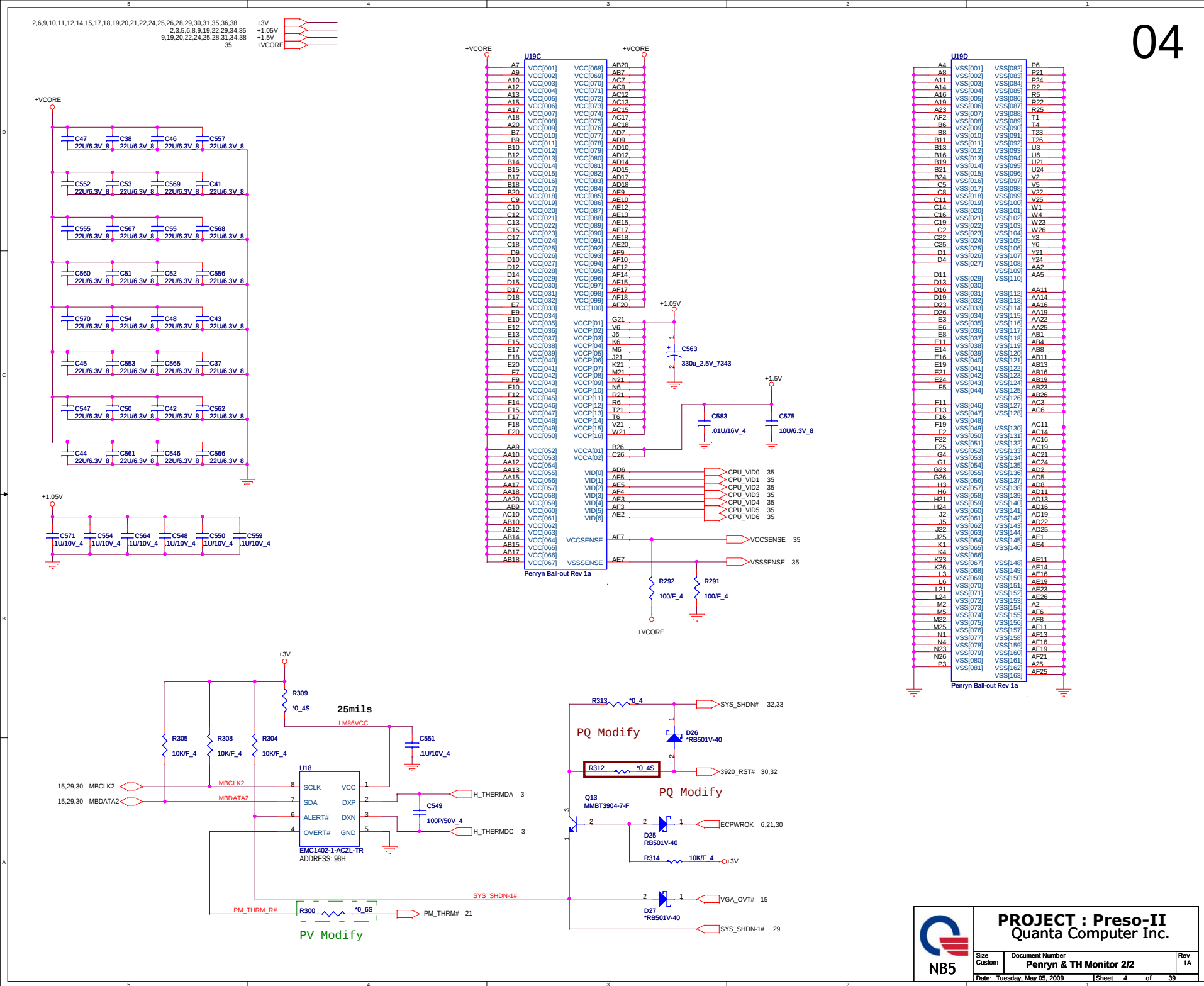
CPU Clock select

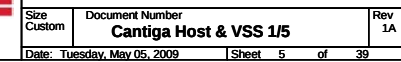
FSC	FSB	FSA	CPU	SRC	PCI
1	0	1	100	100	33
0	0	1	133	100	33
0	1	1	166	100	33
0	1	0	200	100	33
0	0	0	266	100	33
1	0	0	333	100	33
1	1	0	400	100	33
1	1	1	RSVD	100	33

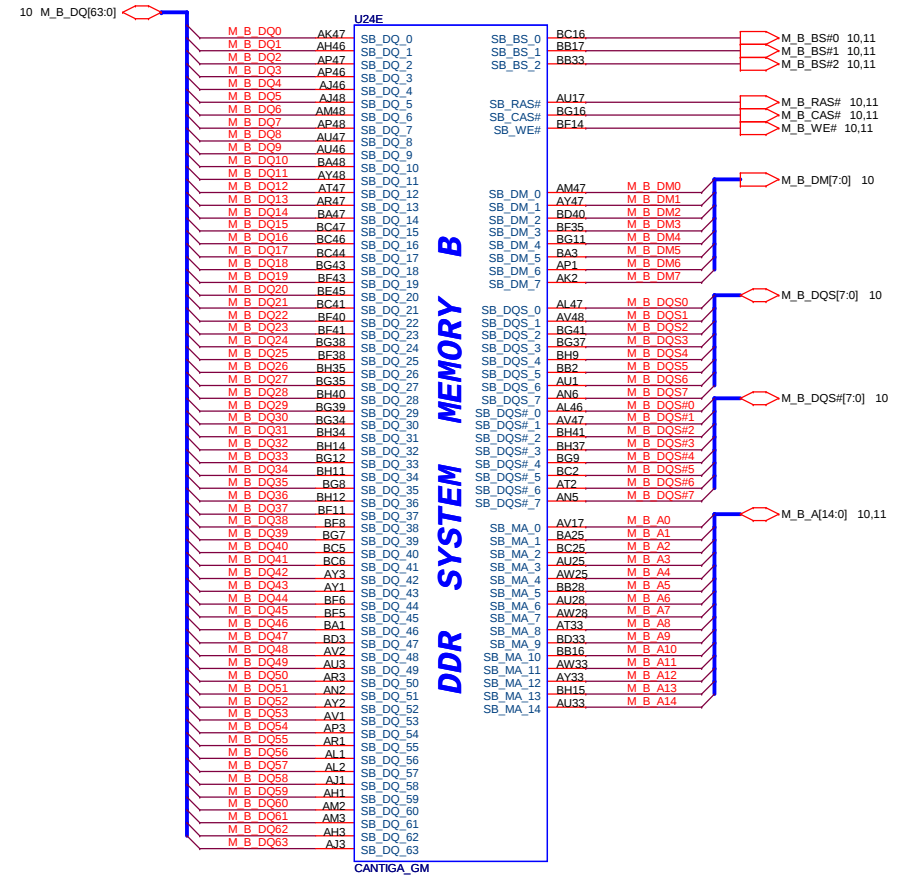
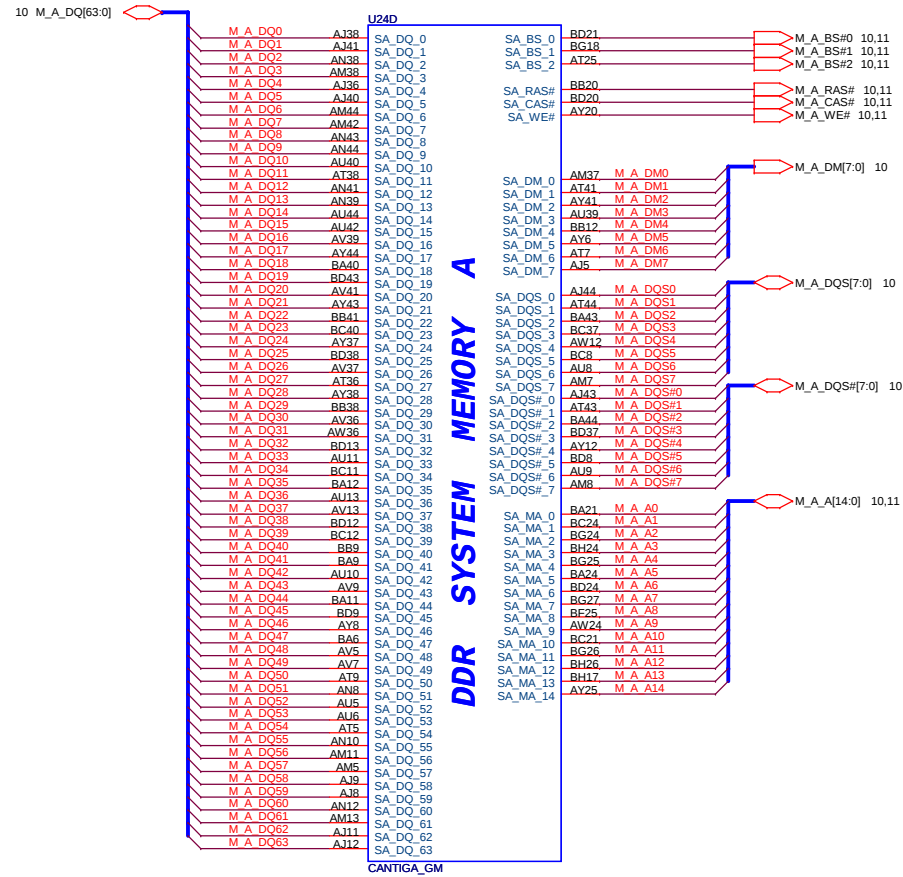




PROJECT : Preso-II
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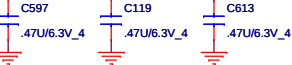


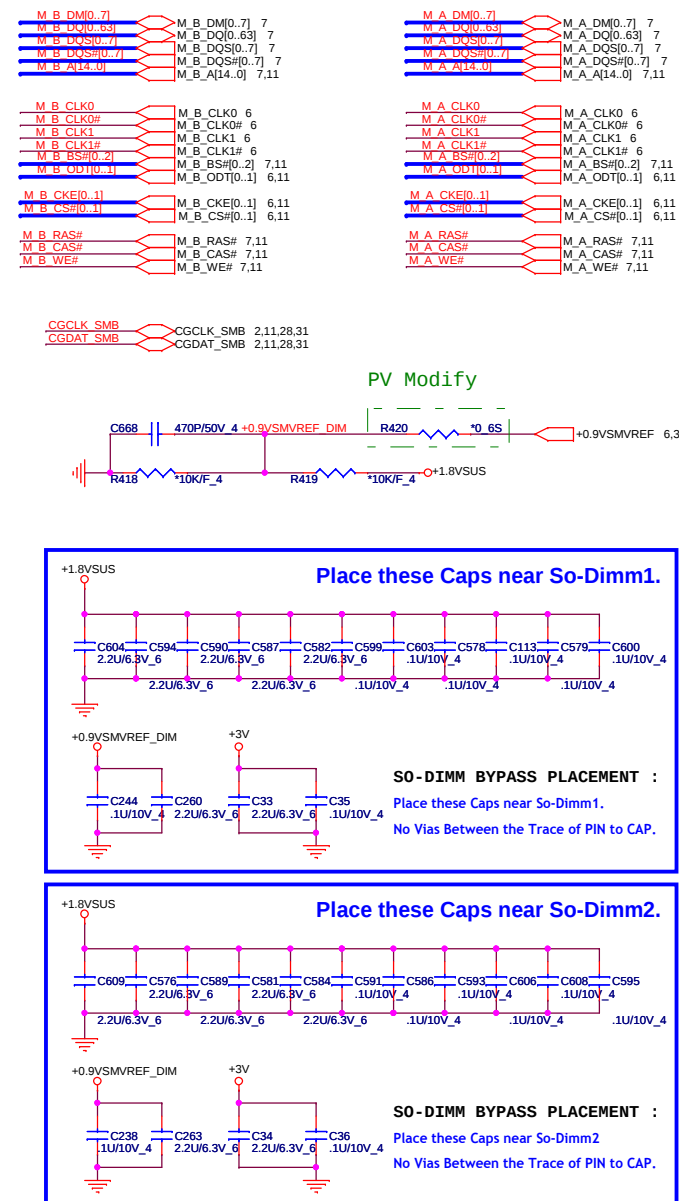
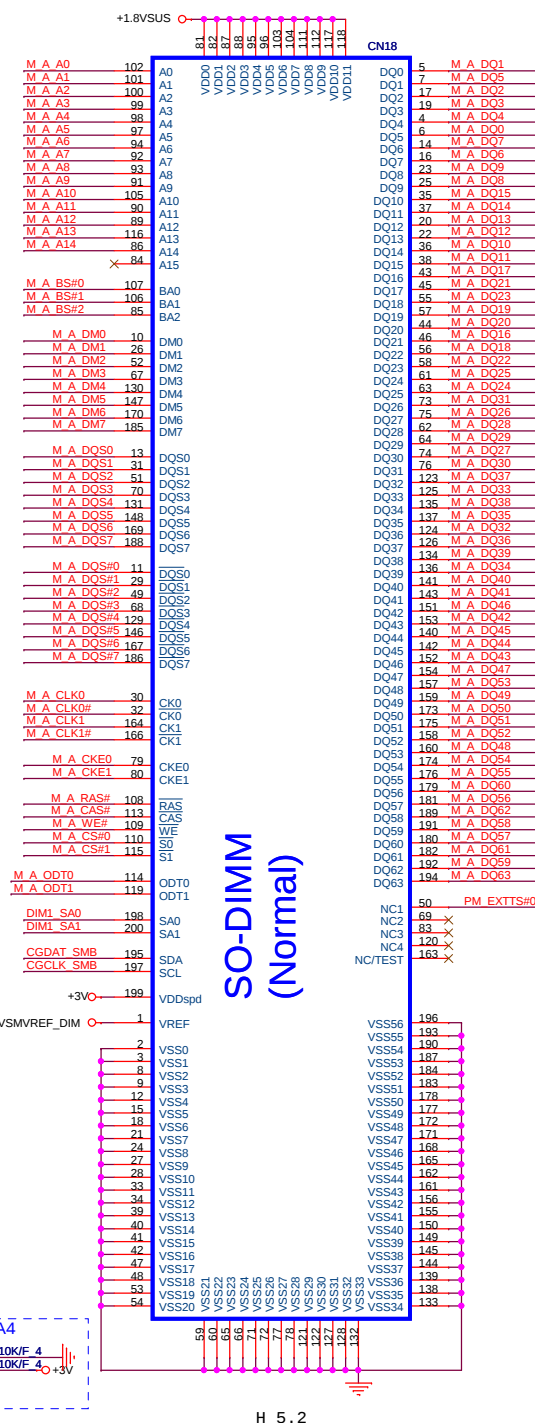
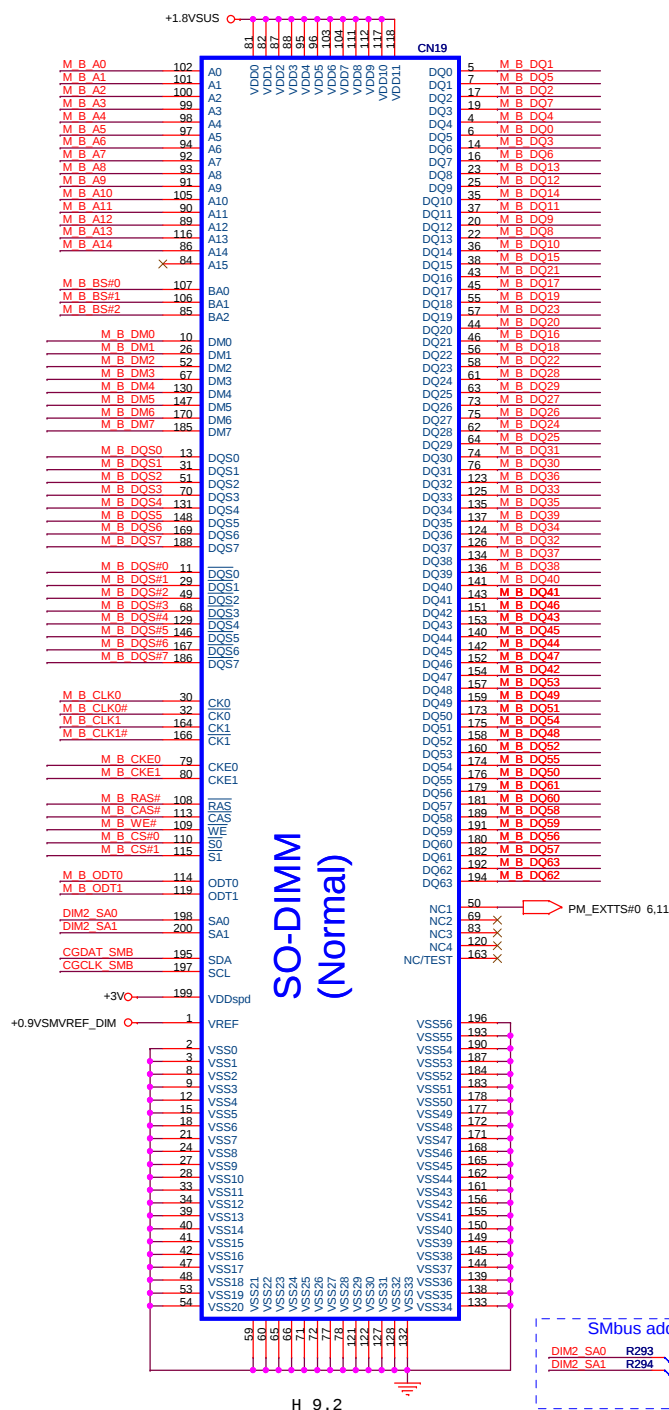




PROJECT : Preso-II
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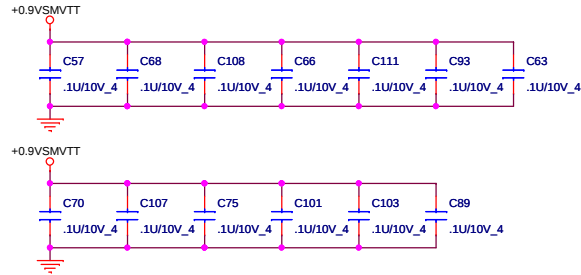






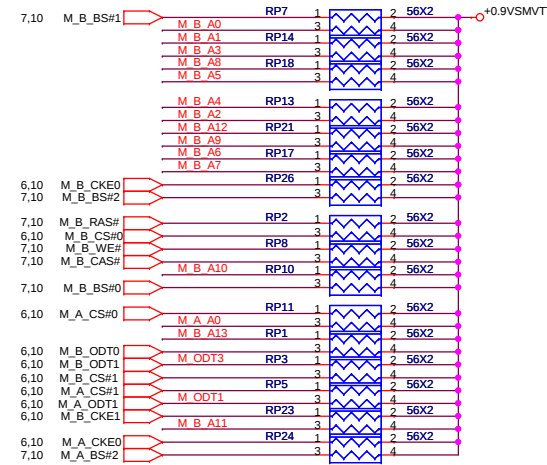
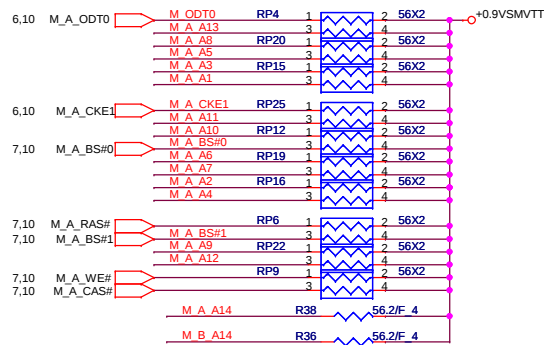
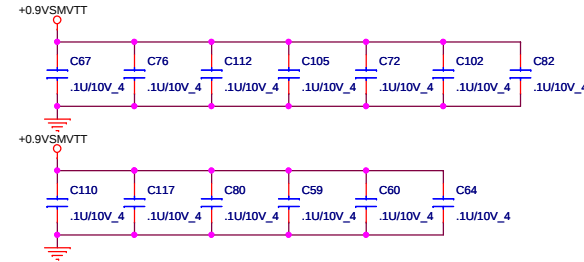
DDRII DUAL CHANNEL A,B.

DDRII A CHANNEL

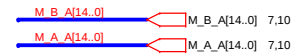
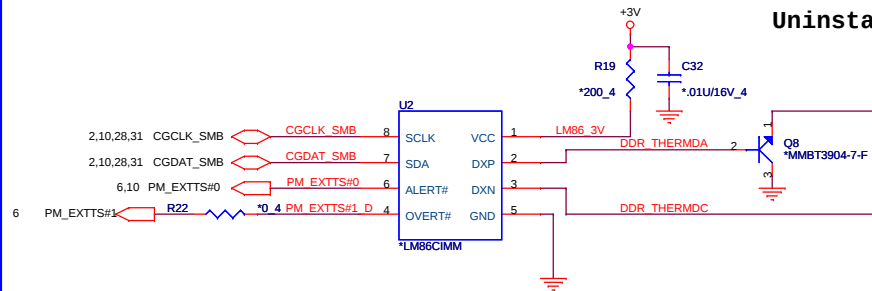


Layout note: Place one cap close to every 2 pullup resistors terminated to SMDDR_VTERM

DDRII B CHANNEL

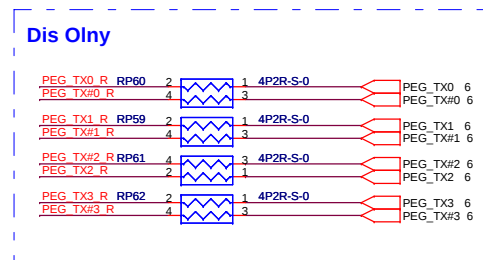
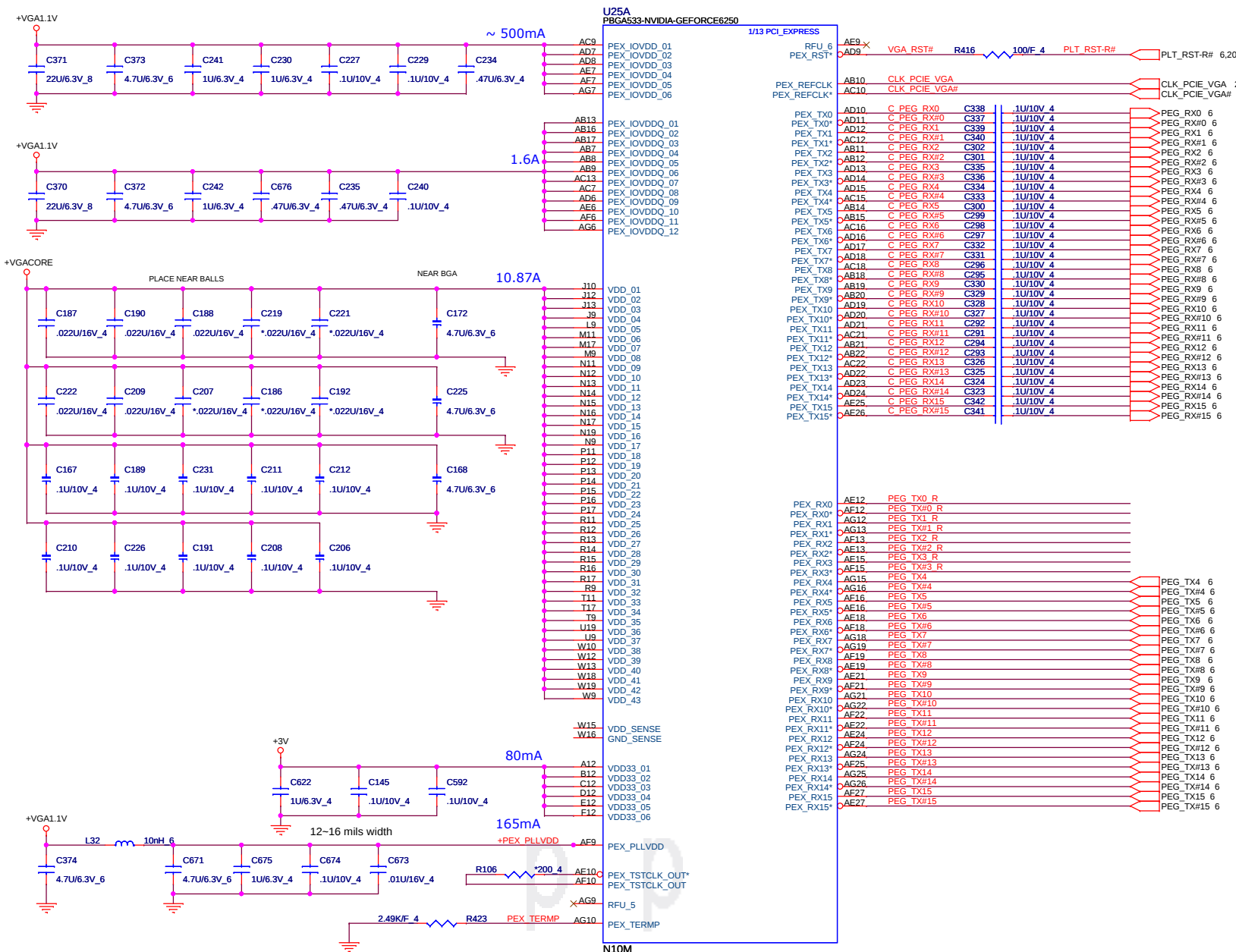


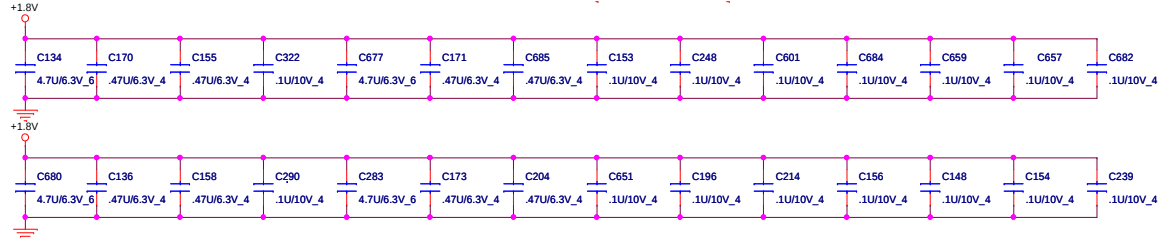
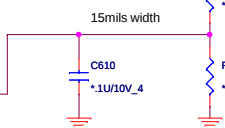
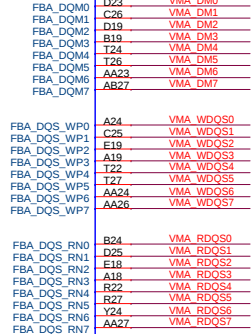
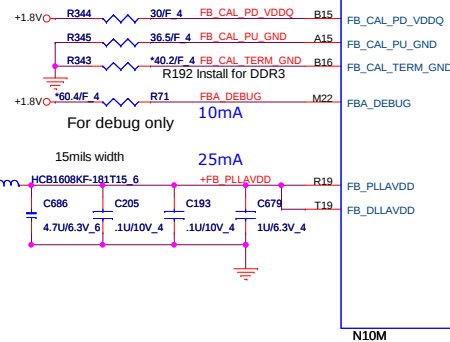
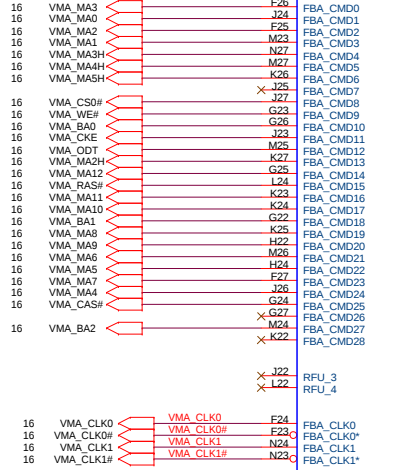
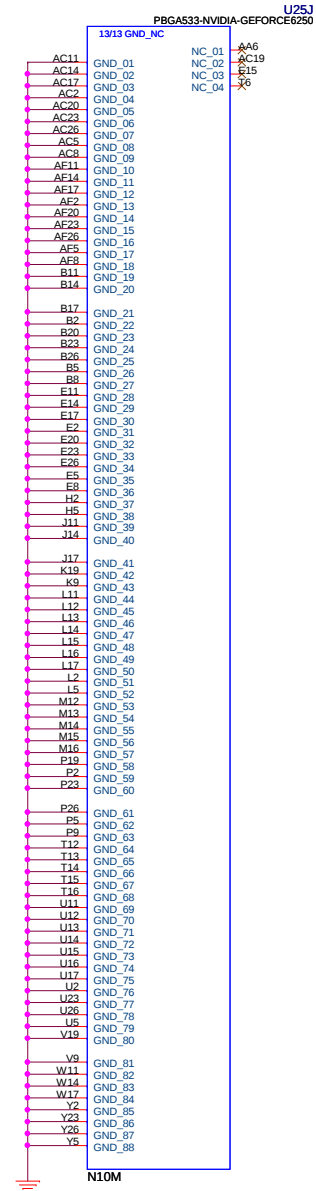
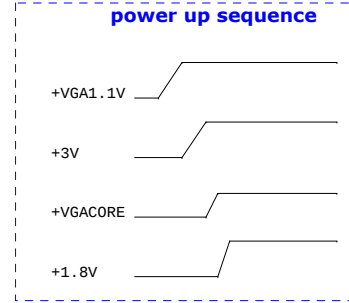
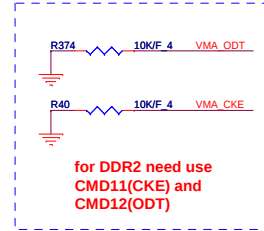
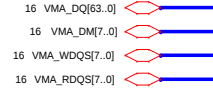
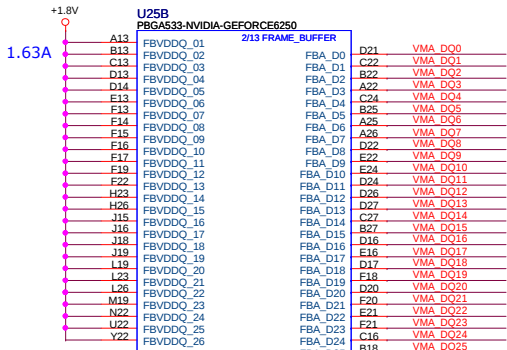
Uninstall

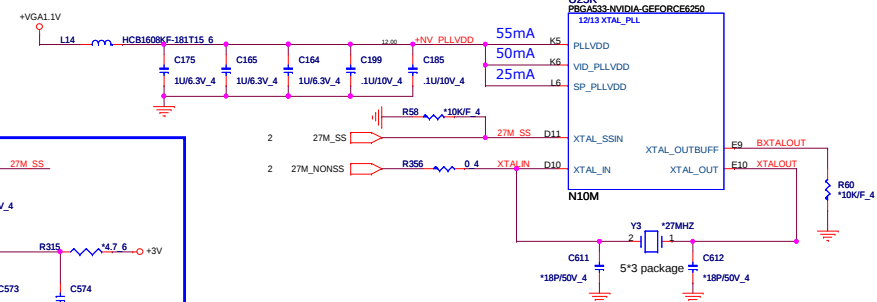
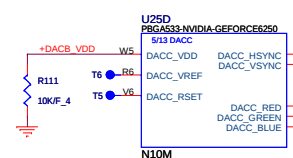
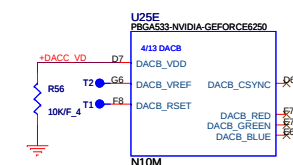
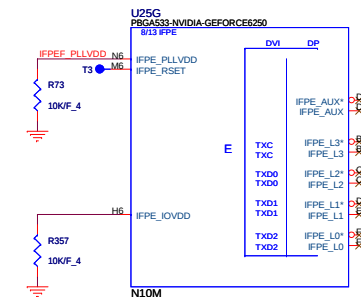
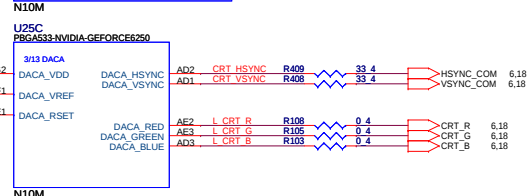
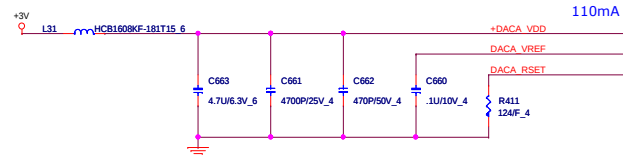
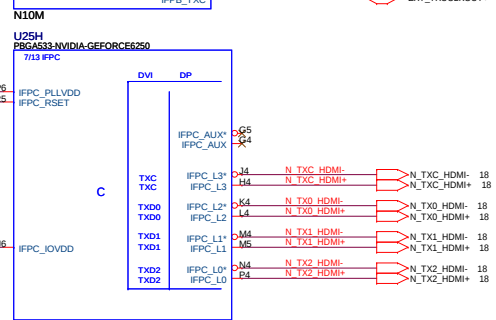
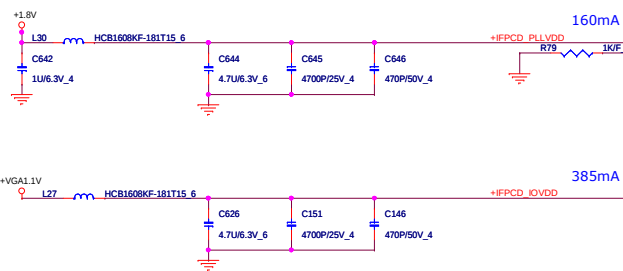
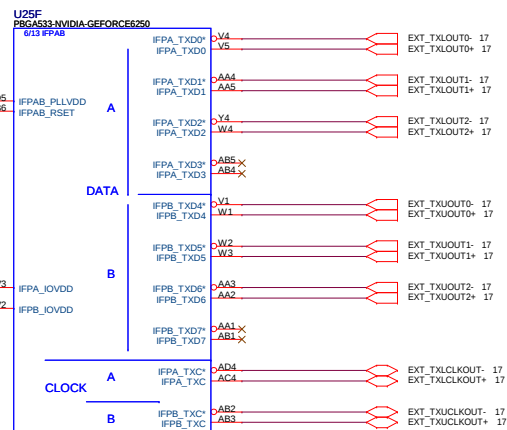
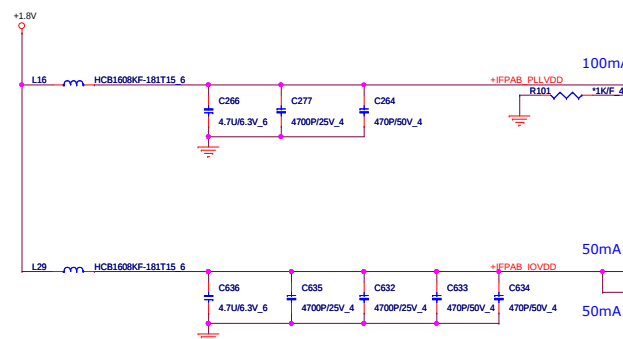


PROJECT : Preso-II
Quanta Computer Inc.

Size	Document Number	Rev
Custom	DDR2 termination	1A
Date: Tuesday, May 05, 2009	Sheet 11 of 39	

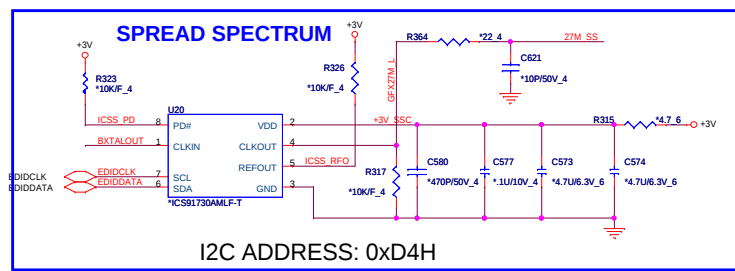


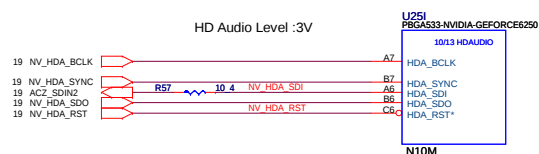
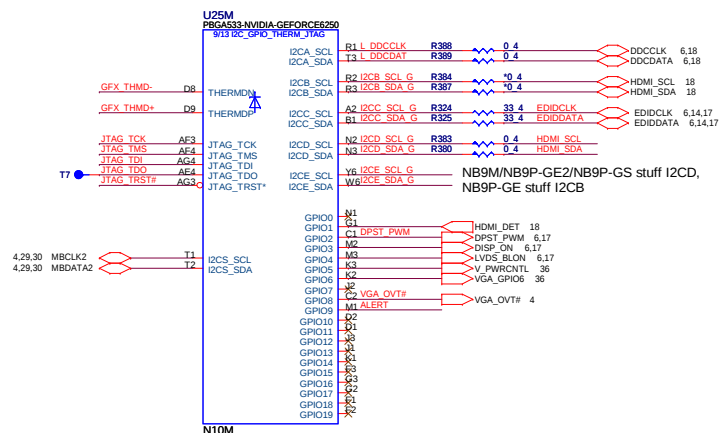
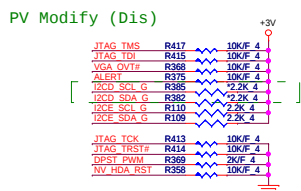
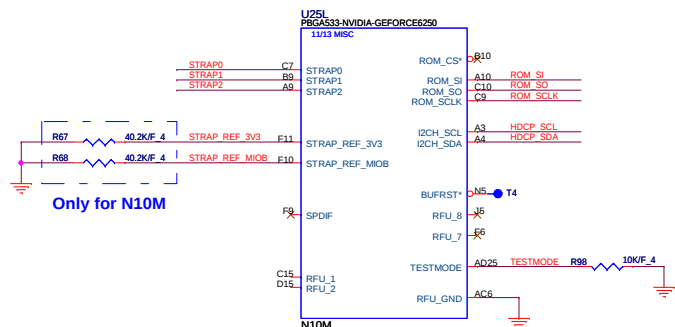
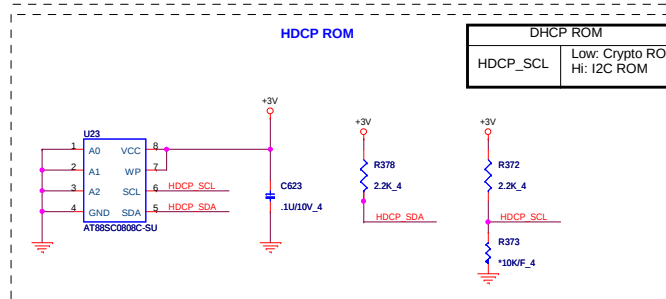
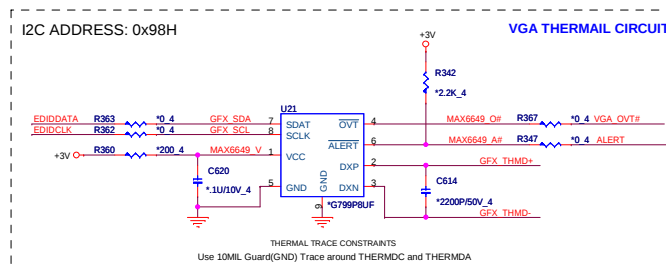




STUFF PDs on XTALSSIN and XTALOUTBUFF WHEN EXT_SS IS NOT USED

Install it when not connected to Spread spectrum device

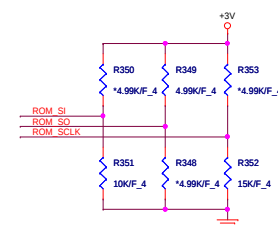




GPIO ASSIGNMENTS

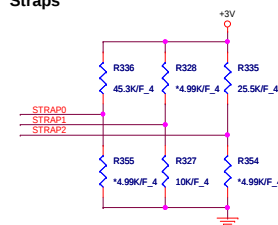
GPIO	I/O	ACTIVE	USAGE
0	IN	N/A	PRIMARY DVI HOTPLUG
1	IN	N/A	SECONDARY DVI HOTPLUG
2	OUT	HIGH	PANEL BACKLIGHT PWM
3	OUT	HIGH	PANEL POWER ENABLE
4	OUT	HIGH	PANEL BACKLIGHT ENABLE
5	OUT	N/A	NVDD VID0
6	OUT	N/A	NVDD VID1
7	OUT	N/A	FBVDD VID0
8	IN	LOW	THERMAL ALERT
9	OUT	LOW	FAN PWM
10	OUT	N/A	FBVREF SELECT
11	OUT	N/A	SLI SYNC0
12	IN	N/A	AC DETECT
13	OUT	LOW	PS CONTROL OR HDMI_CEC
14	OUT	HIGH	PS CONTROL

PCI_DEVID[4] / SUBVENDOR



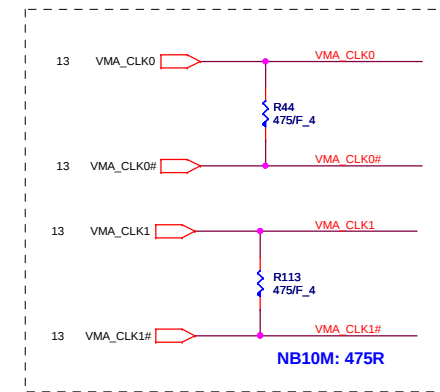
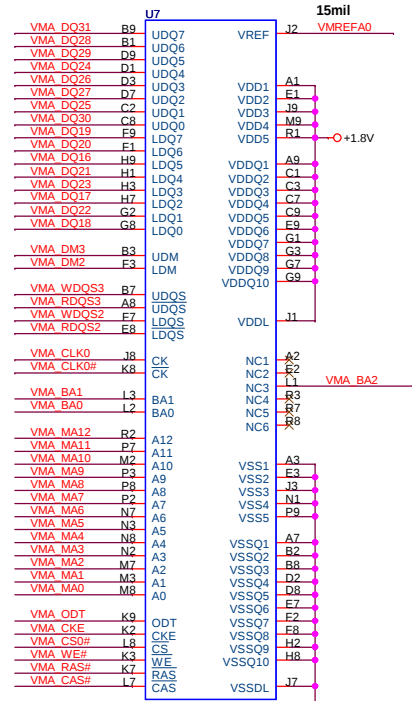
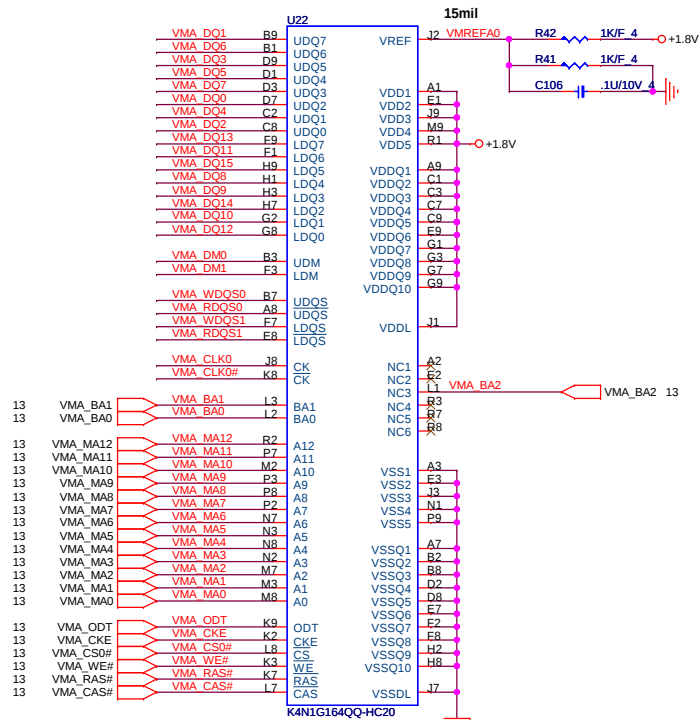
VRAM ID	
ROM_SI	PD 5K: Hynix PD 10K: Samsung PD 15K: Qimonda

Straps

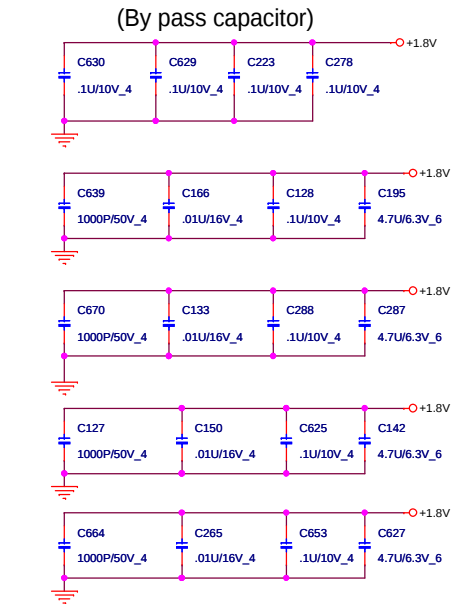
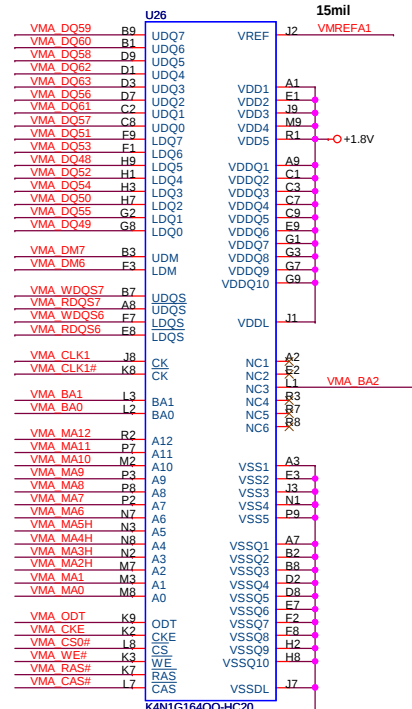
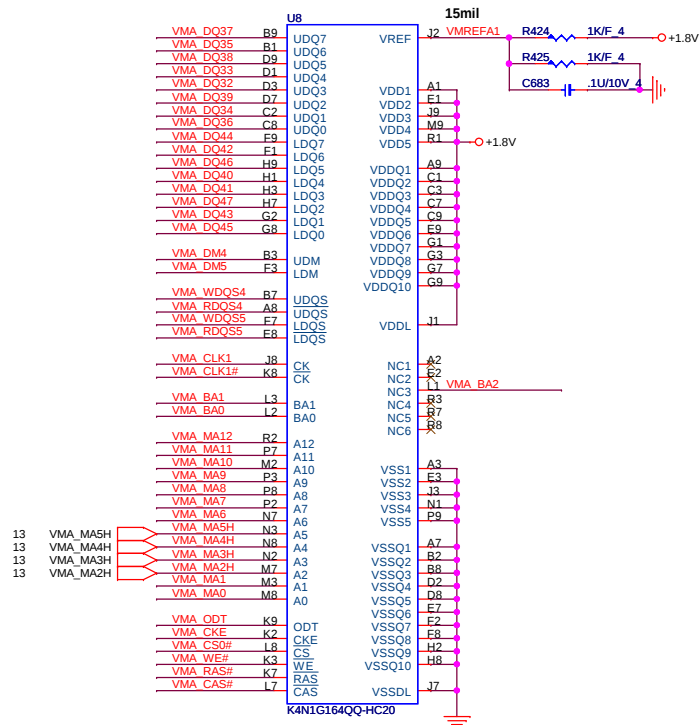


Logical Strap Bit Mapping

	PU	PD
5K	1000	0000
10K	1001	0001
15K	1010	0010
20K	1011	0011
25K	1100	0100
30K	1101	0101
35K	1110	0110
45K	1111	0111



CS14752FB11 RES CHIP 475 1/16W +-1%(0402)



13 VMA_DQ[63..0]
 13 VMA_DM[7..0]
 13 VMA_WDQS[7..0]
 13 VMA_RDQS[7..0]



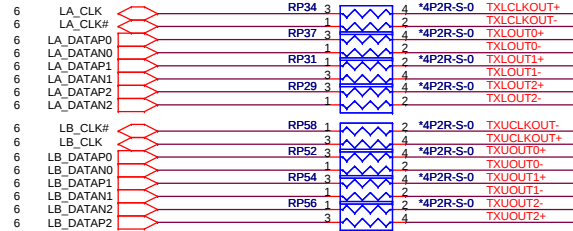
PROJECT : Preso-II
Quanta Computer Inc.

Size	Document Number	Rev
Custom	N10M VRAM-1(GDDR2) 5/5	1A
Date: Tuesday, May 05, 2009	Sheet 16 of 39	

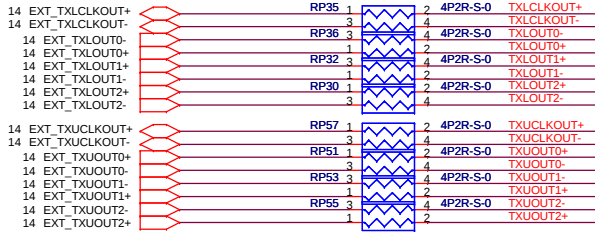
1. If LCD connector near GPU, then place these series Resistors near GPU

2. If LCD connector near N/B, then place these series Resistors near N/B

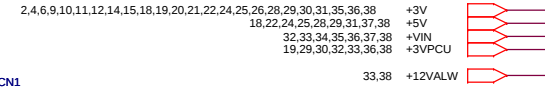
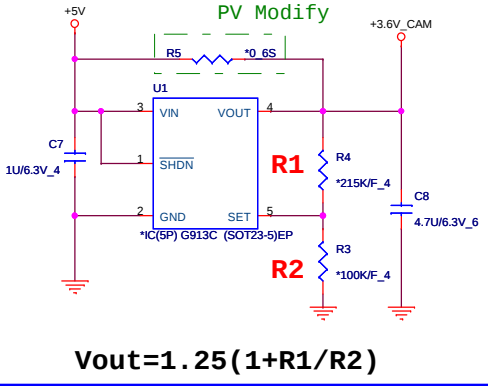
OPTION SIGNAL FROM NB FOR UMA VGA



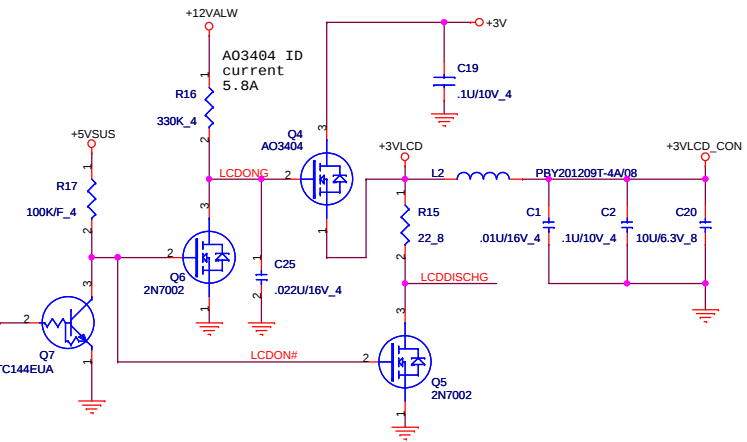
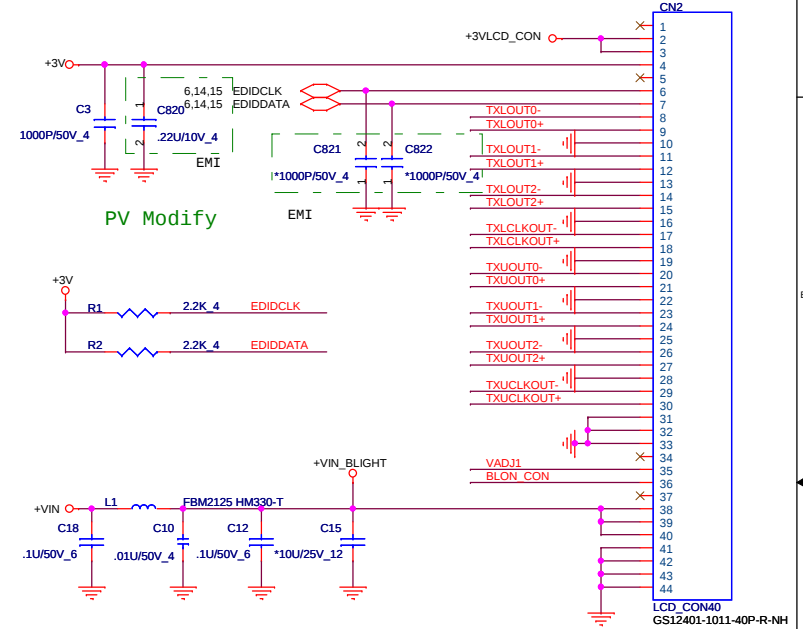
OPTION SIGNAL FROM Nvidia to VGA



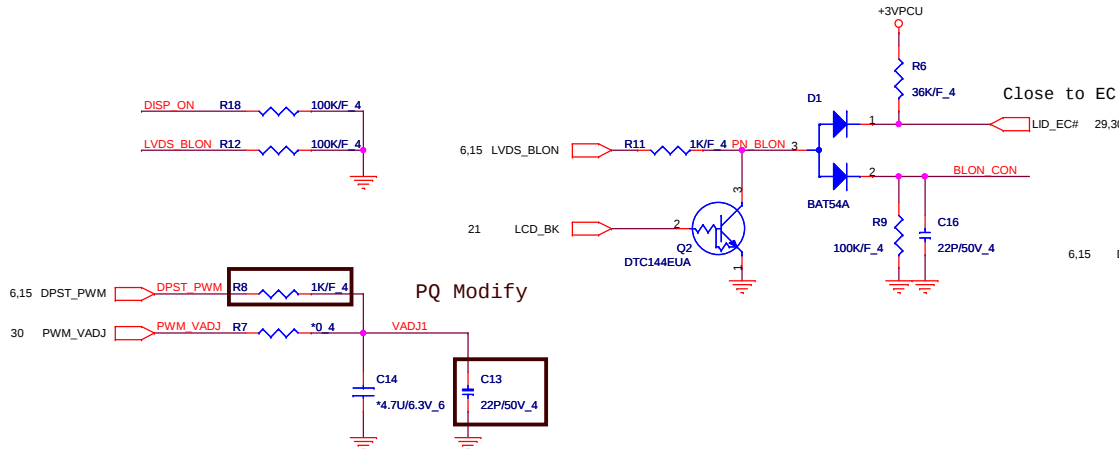
PV Modify



LCD / USB CAMERA / DIGITAL MIC CONNECTOR



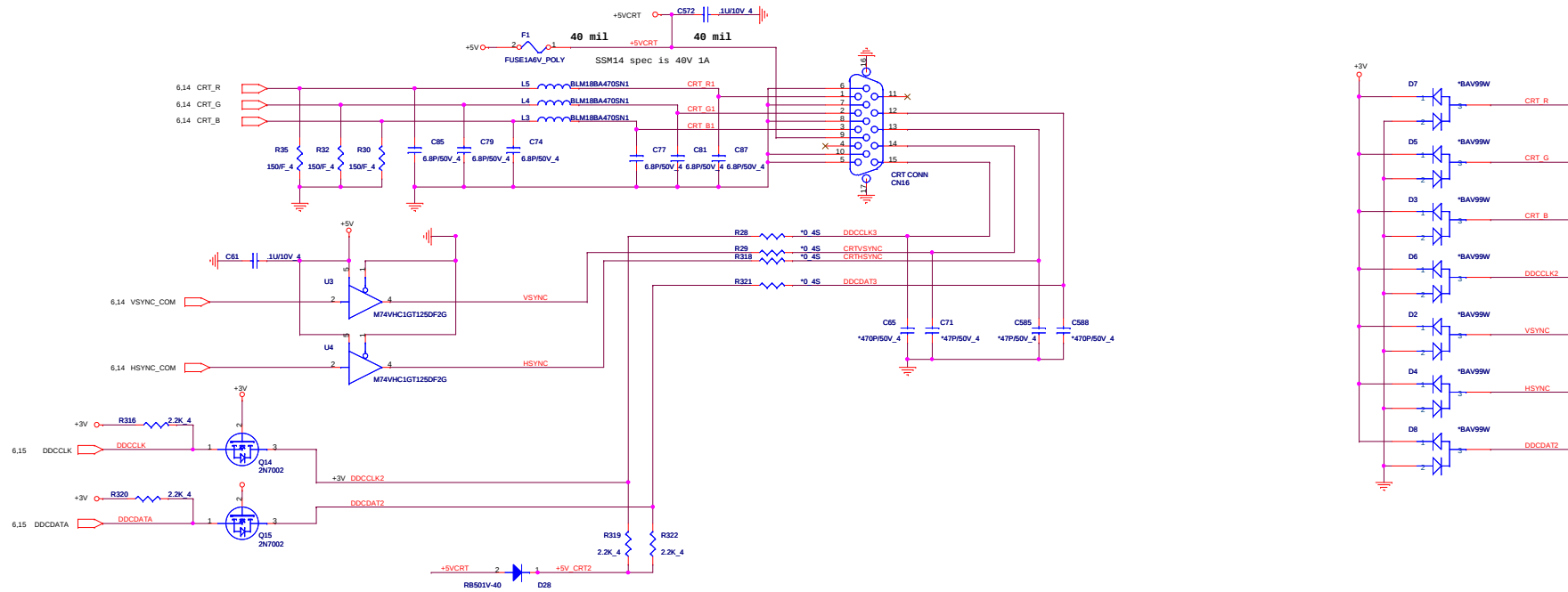
PQ Modify



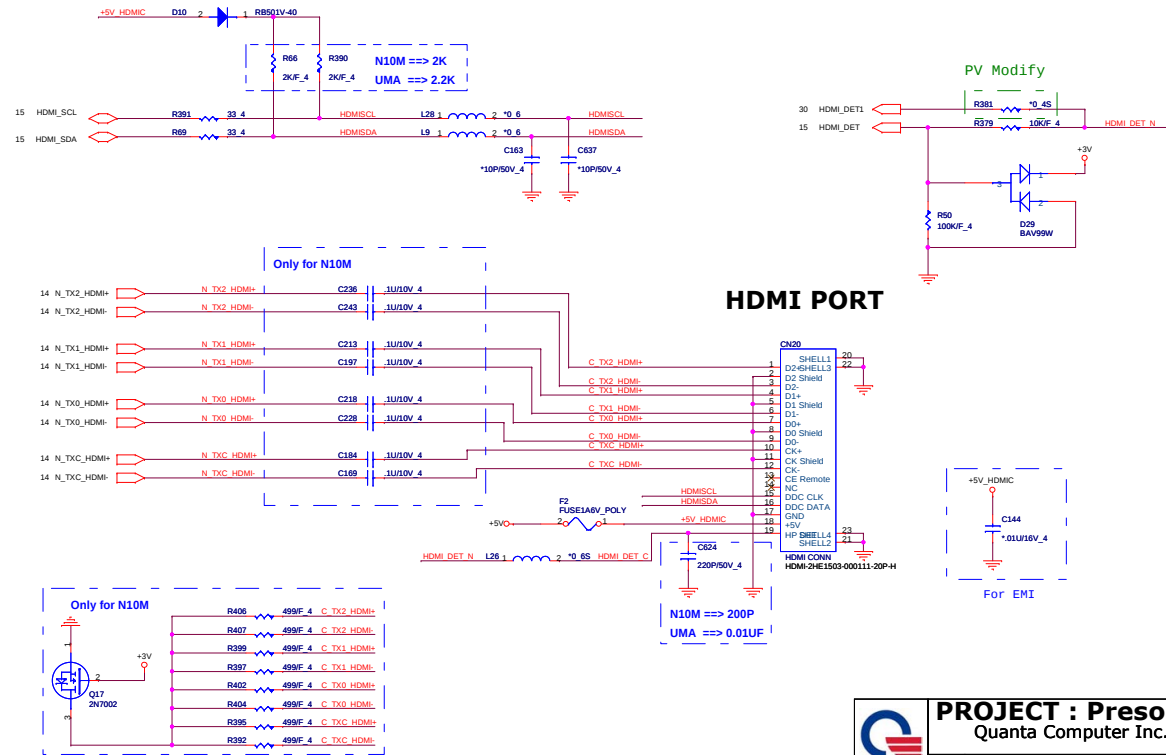
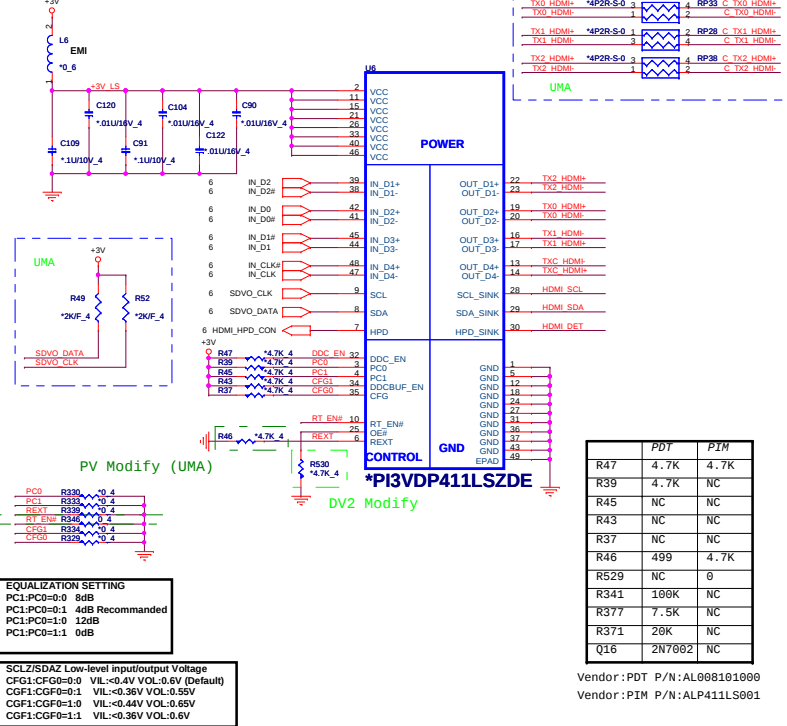
PROJECT : Preso-II
Quanta Computer Inc.

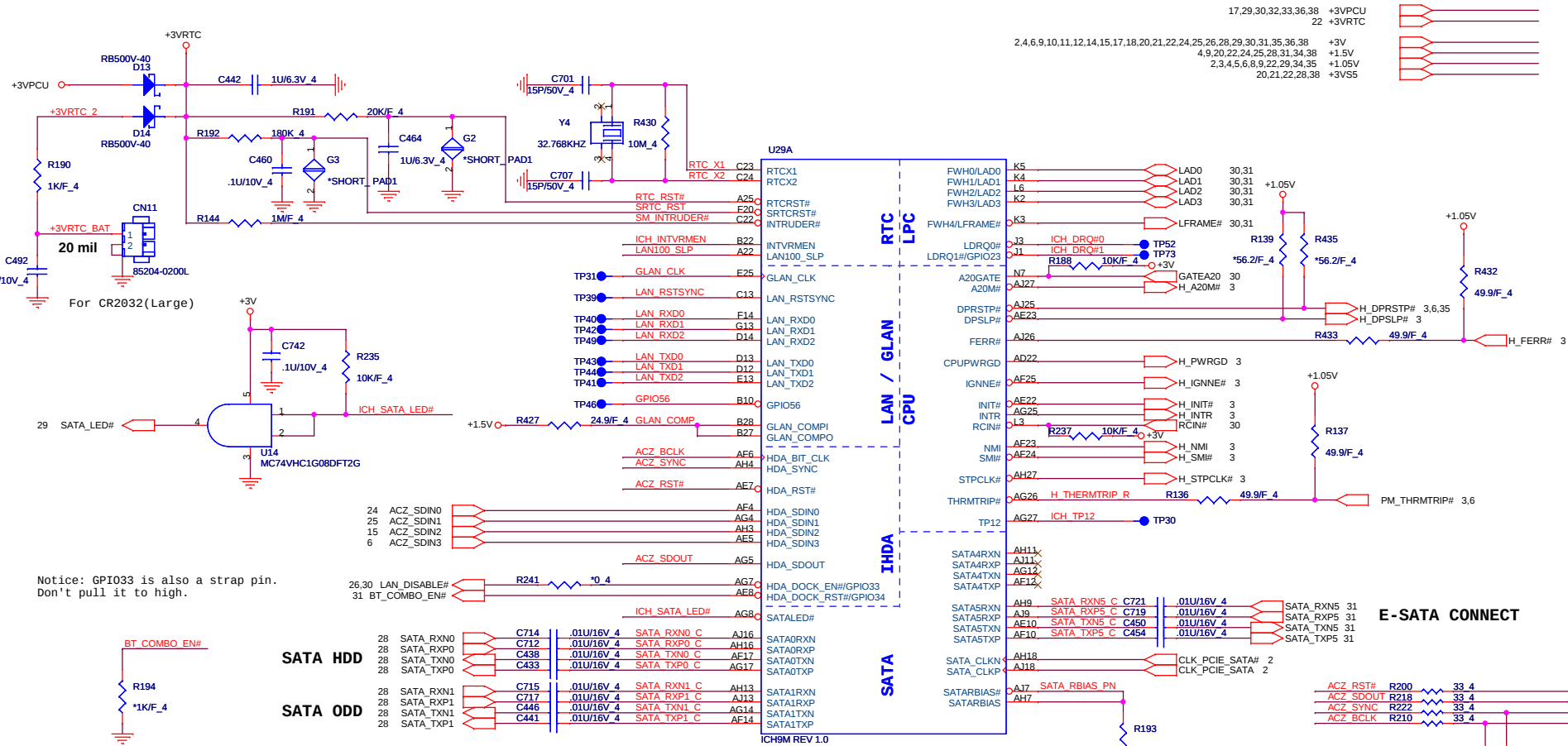
Size	Document Number	Rev
Custom	LCD CONN(WC/MIC)/LID	1A
Date: Tuesday, May 05, 2009	Sheet 17 of 39	

CRT PORT



UMA HDMI Function





SB Strap

ICH9-M Internal VR Enable strap (Internal VR for Vccsus1_05, VccSus1_5 and VccCL1_5)

ICH9-M LAN100_SLP Strap (Internal VR for VccLAN1_05 and VccCL1_05)

INTVRMEN	Low = Internal VR disable High = Internal VR enable(Default)
LAN100_SLP	Low = Internal VR disable High = Internal VR enable(Default)

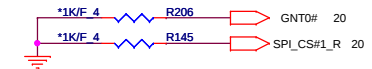
XOR Chain Entrance Strap

ICH_TP3	HDA_SDOUT	Description
0	0	RSVD
0	1	Enter XOR Chain
1	0	Normal operation(Default)
1	1	Set PCIe port config bit 1

ICH9 Boot BIOS select

STRAP	PCI_GNT0#	SPI_CS#1
SPI	0	1
PCI	1	0
LPC	1	1

(default)

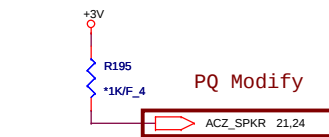


A16 swap override strap

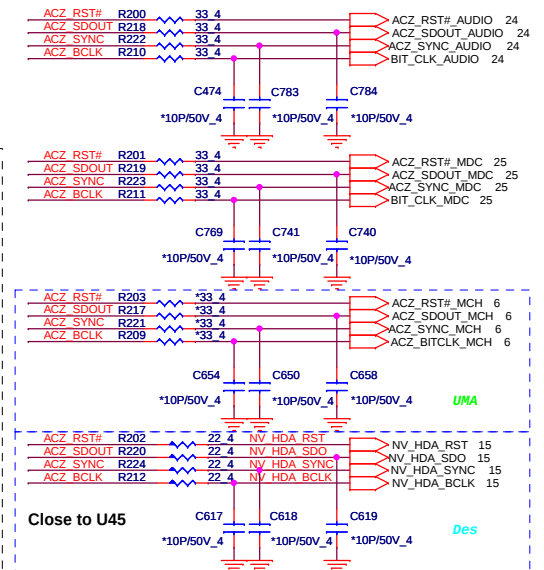
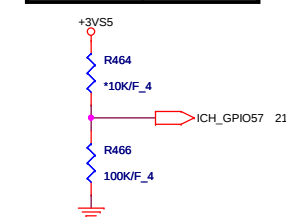
PCI_GNT#3	Low = A16 swap override enabled Hi = Default
-----------	---



No Reboot Strap	Low: Default Hi: No reboot
ACZ_SPKR	

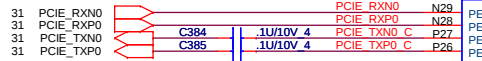


TPM physical presence	Low: Default
ICH_GPIO57	

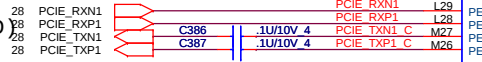


PROJECT : Preso-II
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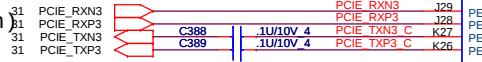
MINI CARD PCI-E(WLAN)



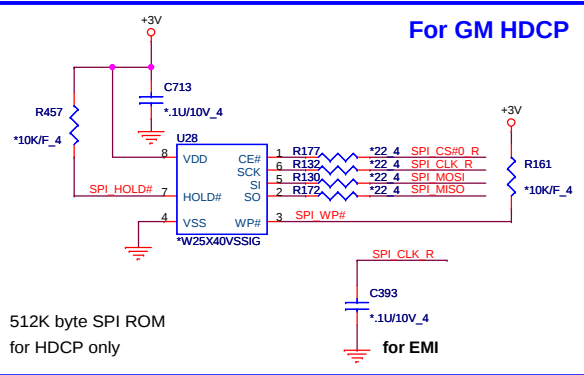
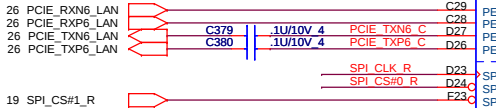
EXPRESS CARD (NEW CARD)



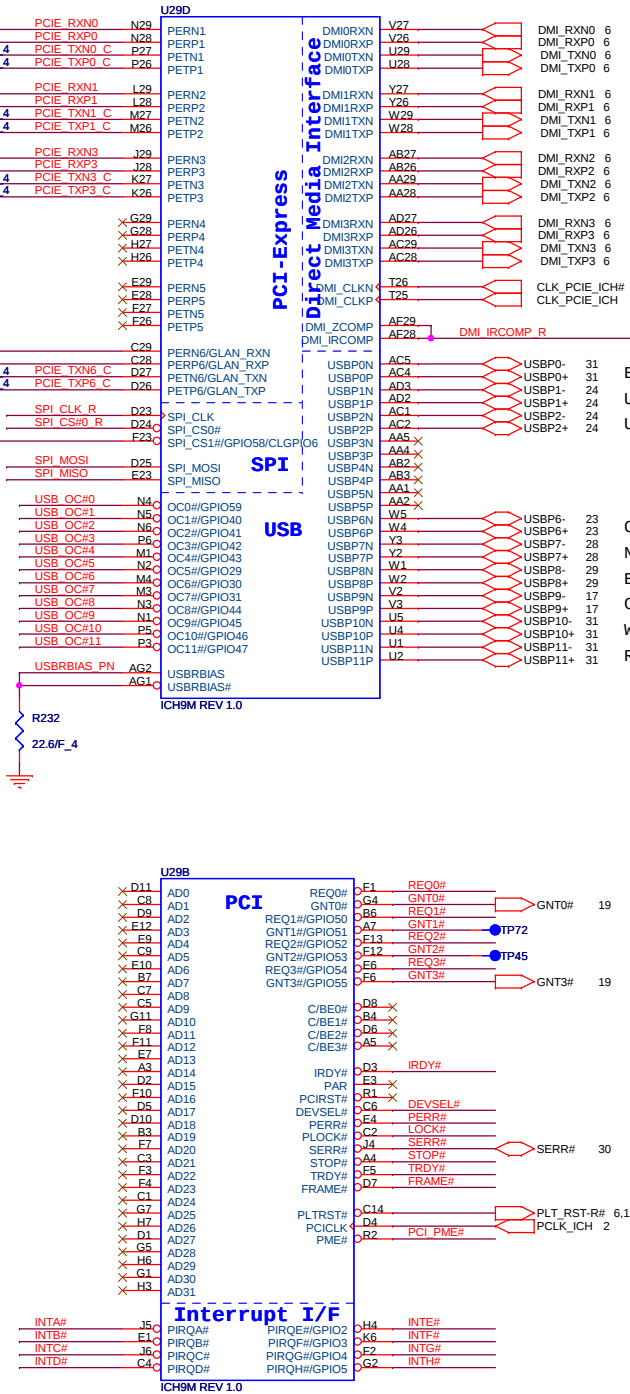
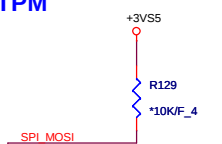
MINI CARD PCI-E(Robson)



PCI-E-LAN



For iTPM



4,9,19,22,24,25,28,31,34,38 +1.5V
2,4,6,9,10,11,12,14,15,17,18,19,21,22,24,25,26,28,29,30,31,35,36,38 +3V
21,23,29,31,34,35,36,38 +3VSUS



E-SATA and USB Connector
USB Connector
USB Connector

Card Reader

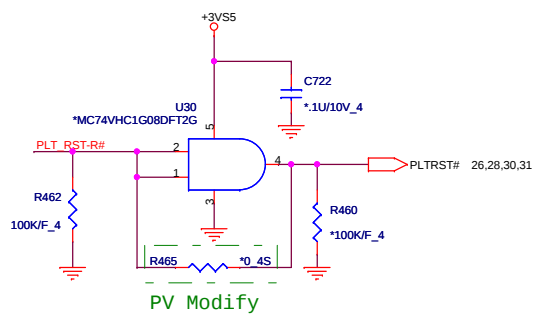
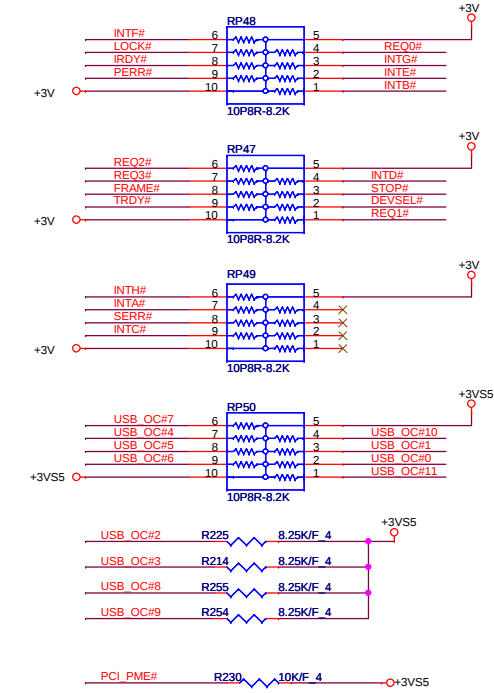
NEW CARD

BLUETOOTH

Carama USB

Wireless Mini-Card

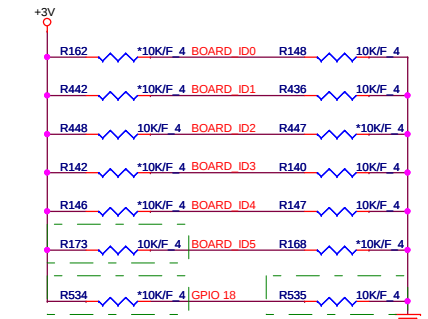
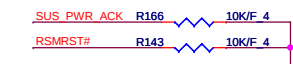
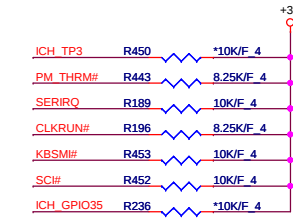
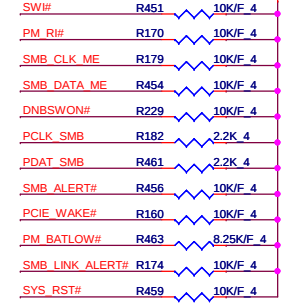
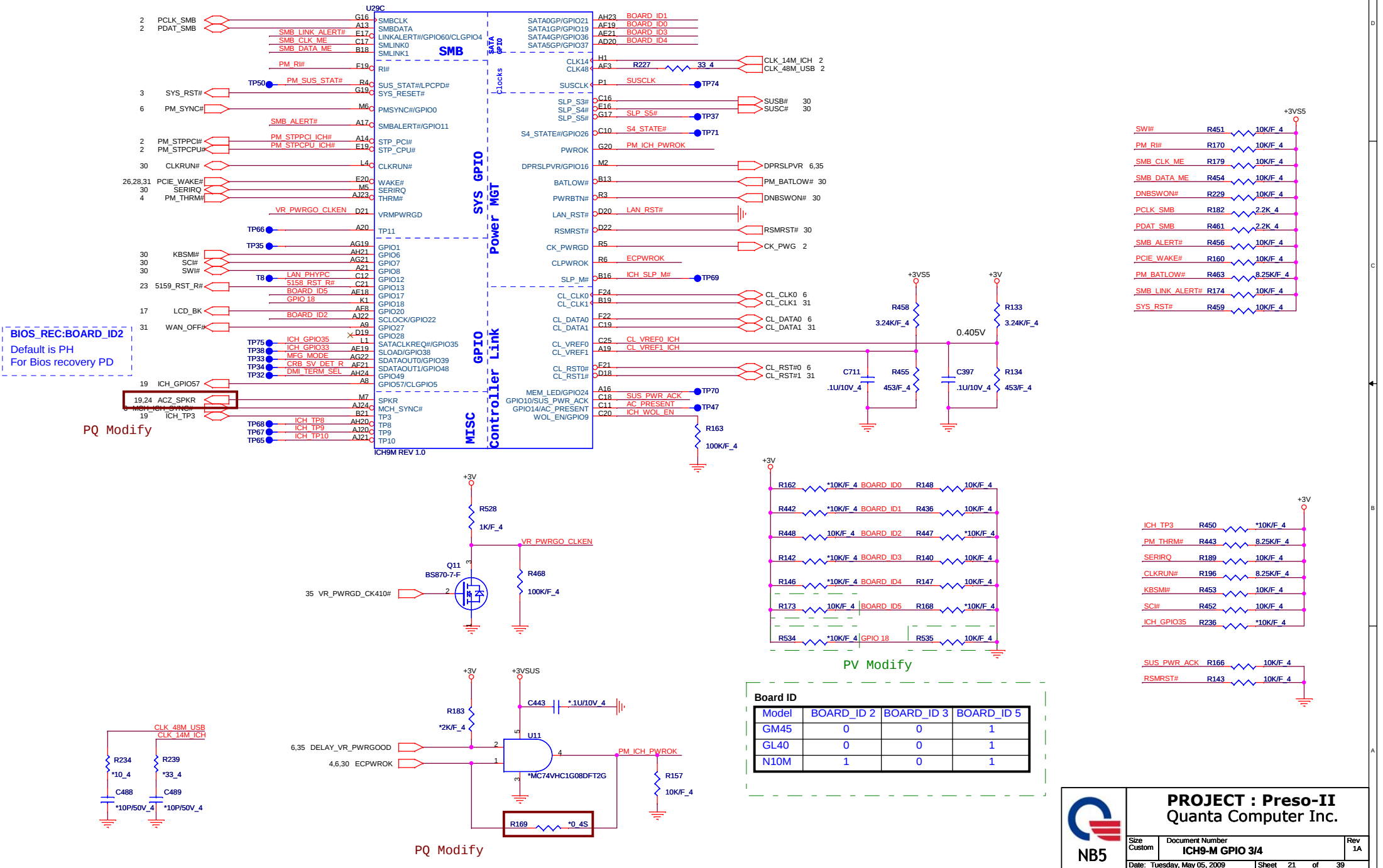
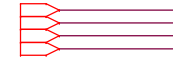
Robson Mini-Card



PROJECT : Preso-II
Quanta Computer Inc.

Size Custom	Document Number ICH9-M PCIE 2/4	Rev 1A
Date: Tuesday, May 05, 2009	Sheet 20 of 39	

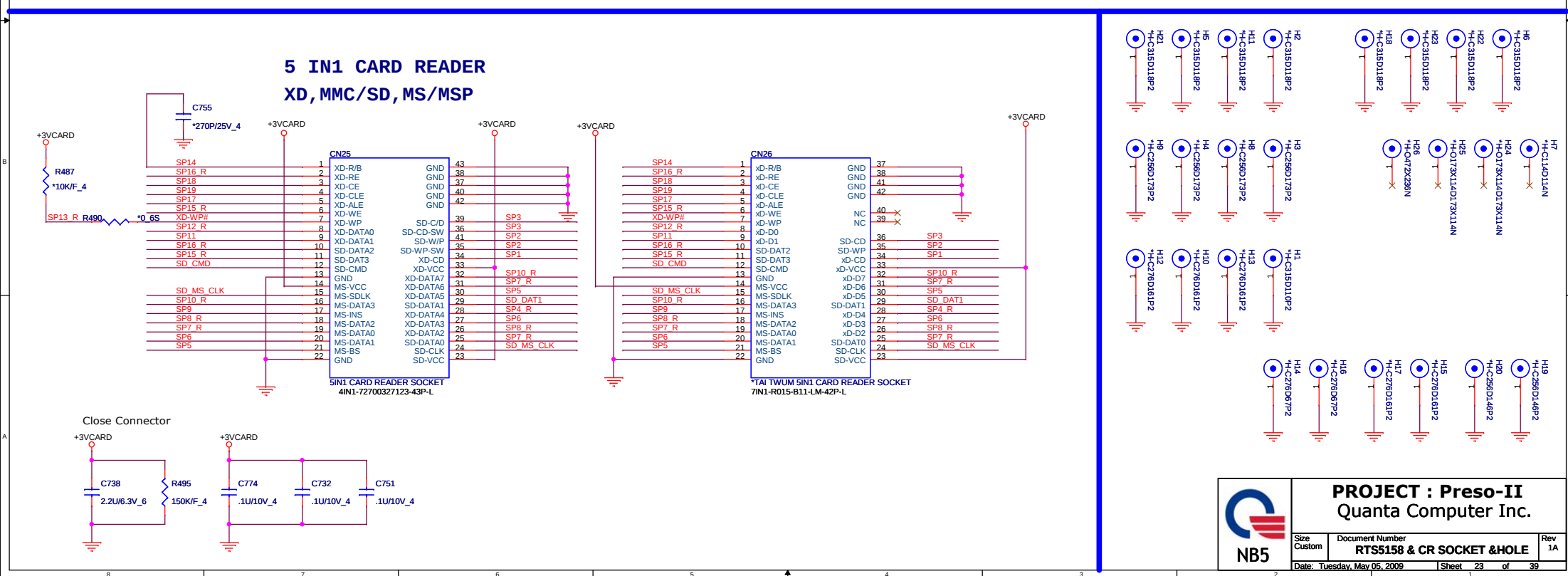
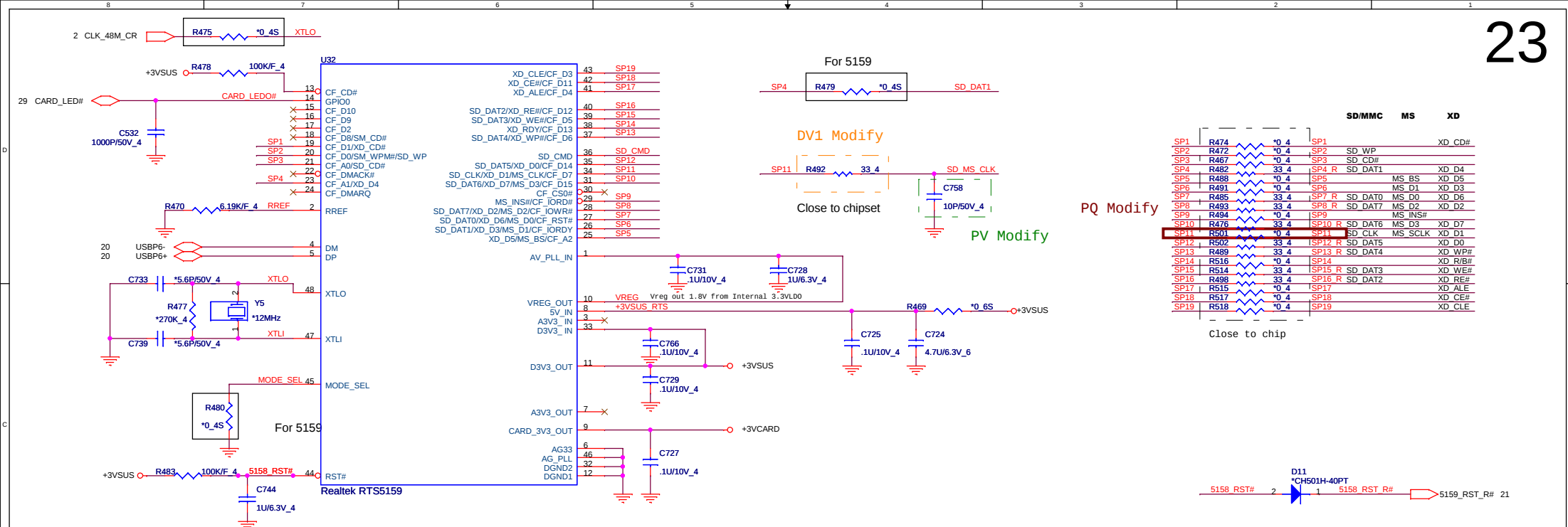
4,9,19,20,22,24,25,28,31,34,38 +1.5V
2,4,6,9,10,11,12,14,15,17,18,19,20,22,24,25,26,28,29,30,31,35,36,38 +3V
19,20,22,28,38 +3VS5
23,29,31,34,35,36,38 +3VSUS

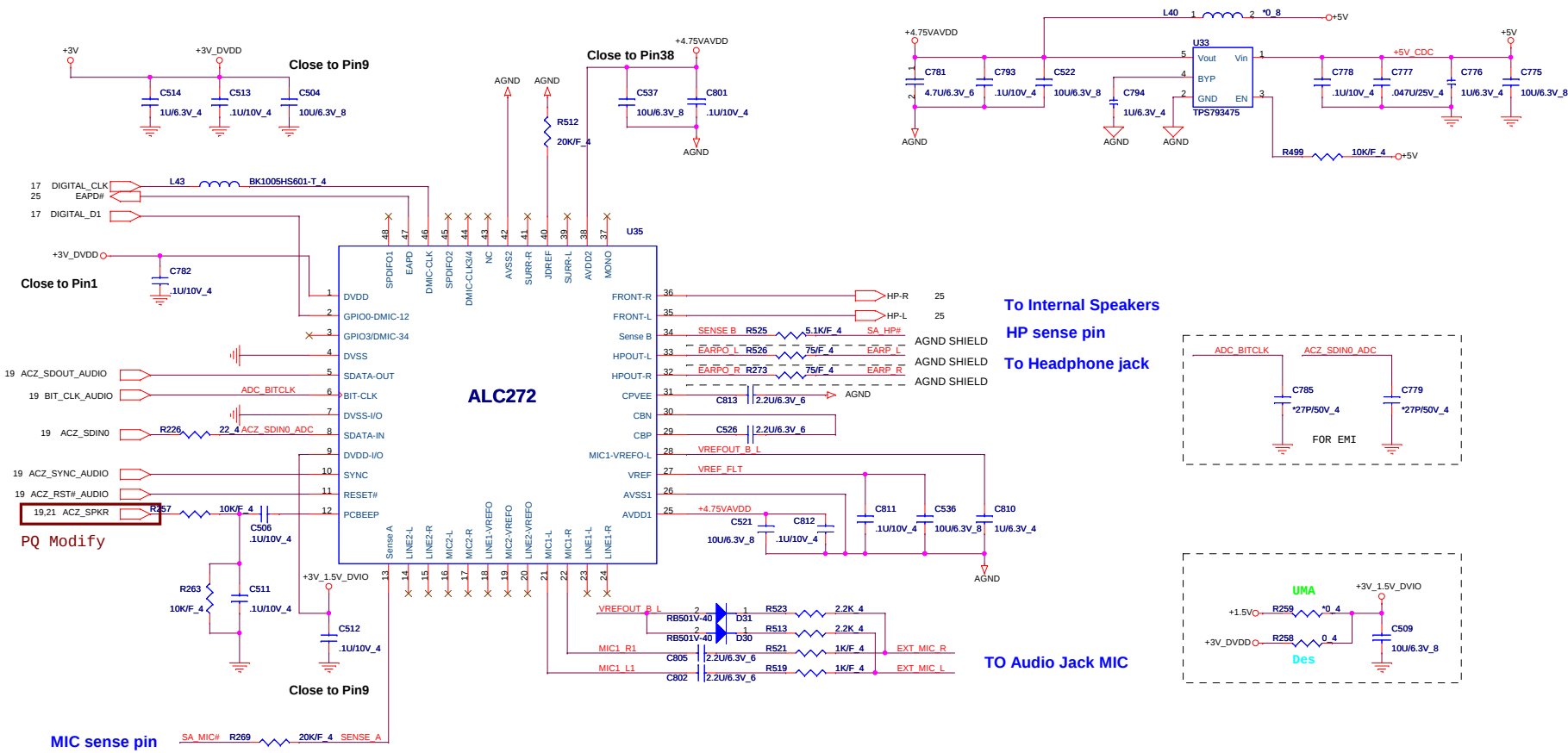


Board ID

Model	BOARD_ID 2	BOARD_ID 3	BOARD_ID 5
GM45	0	0	1
GL40	0	0	1
N10M	1	0	1



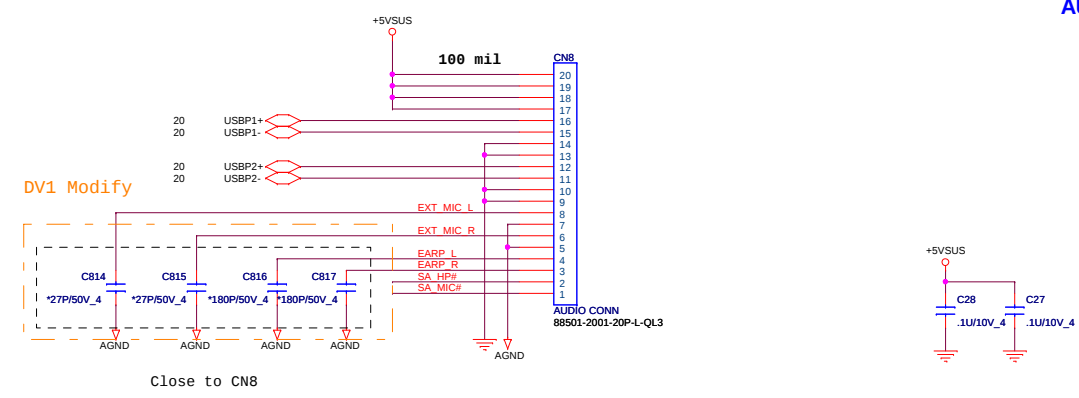




PV Modify

PORT	PLACE TO
MONO_OUT	X
PORT A	X
PORT B	Audio Jack MIC
PORT C	X
PORT D	Internal Speckers
PORT E	X
PORT F	X
PORT I	HP OUT

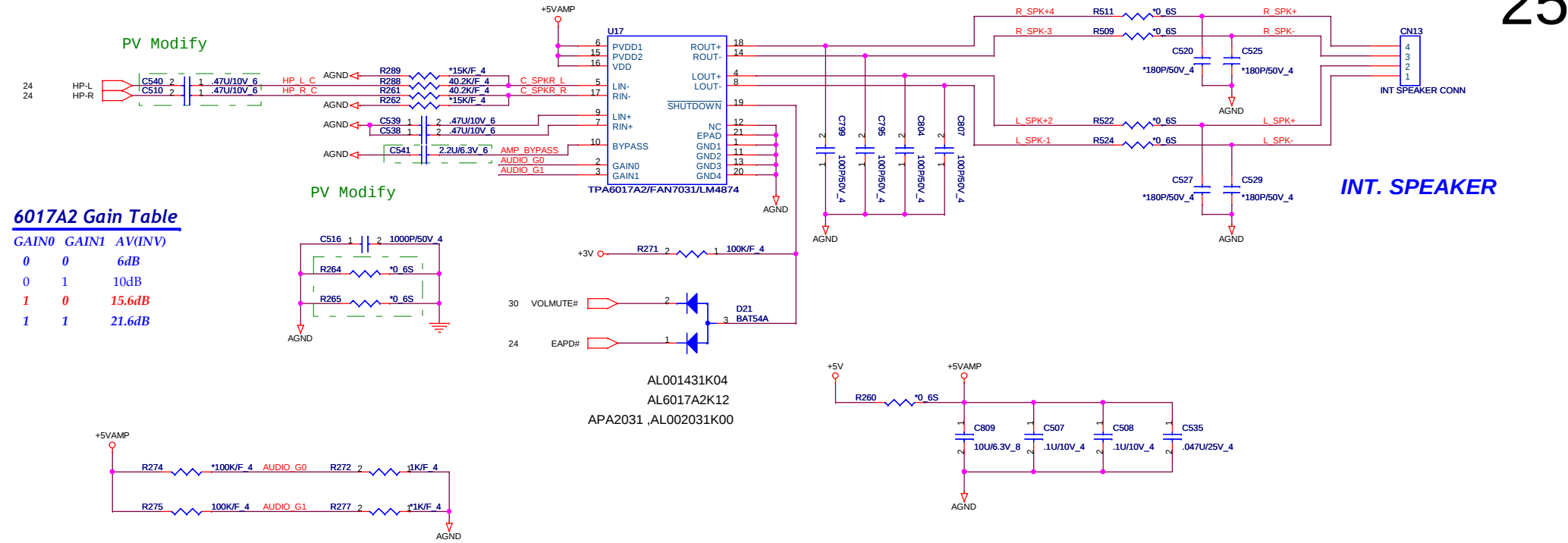
AUDIO / USB BOARD CONNECTOR



PROJECT : Preso-II
Quanta Computer Inc.

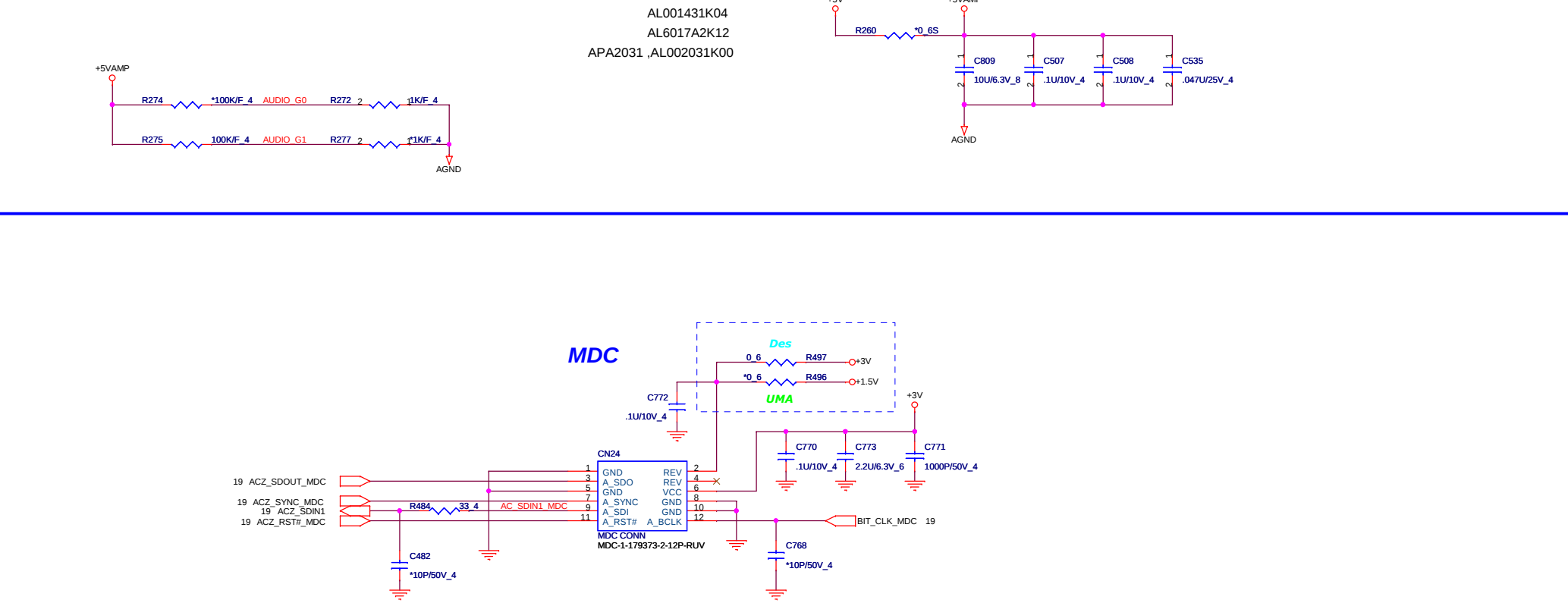
Size Custom	Document Number Azalia IDT92HD71B7	Rev 1A
Date: Tuesday, May 05, 2009	Sheet 24	of 39

AUDIO AMPLIFIER

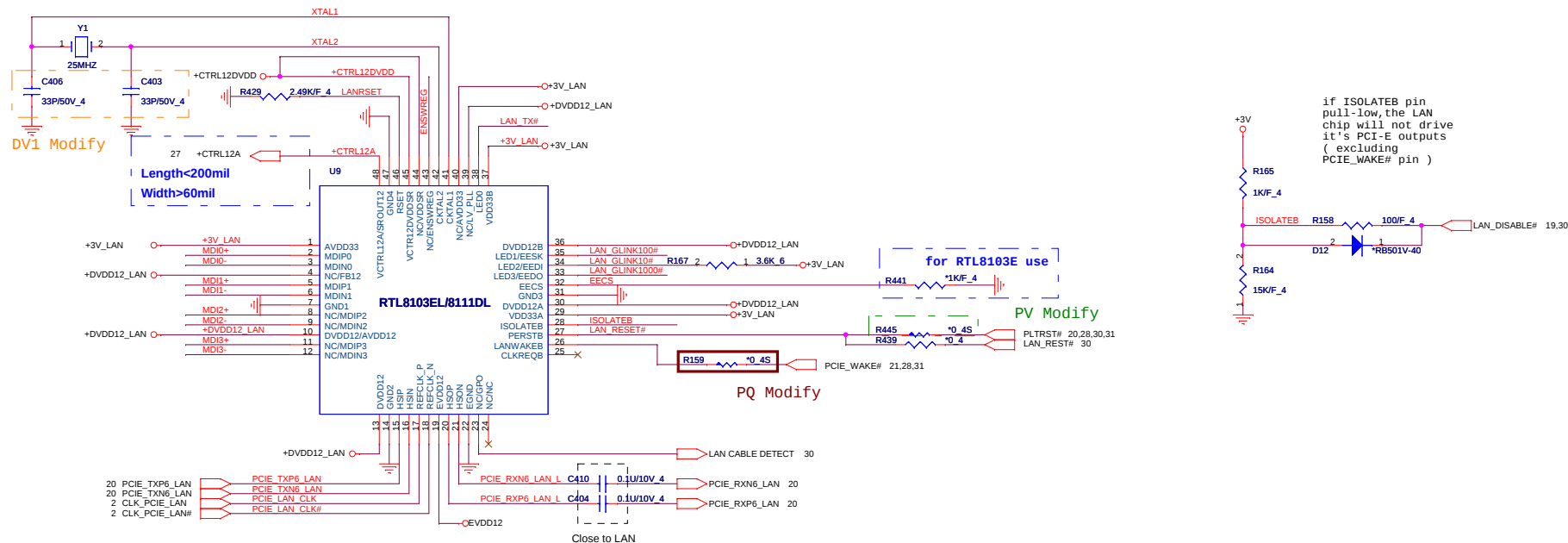


6017A2 Gain Table

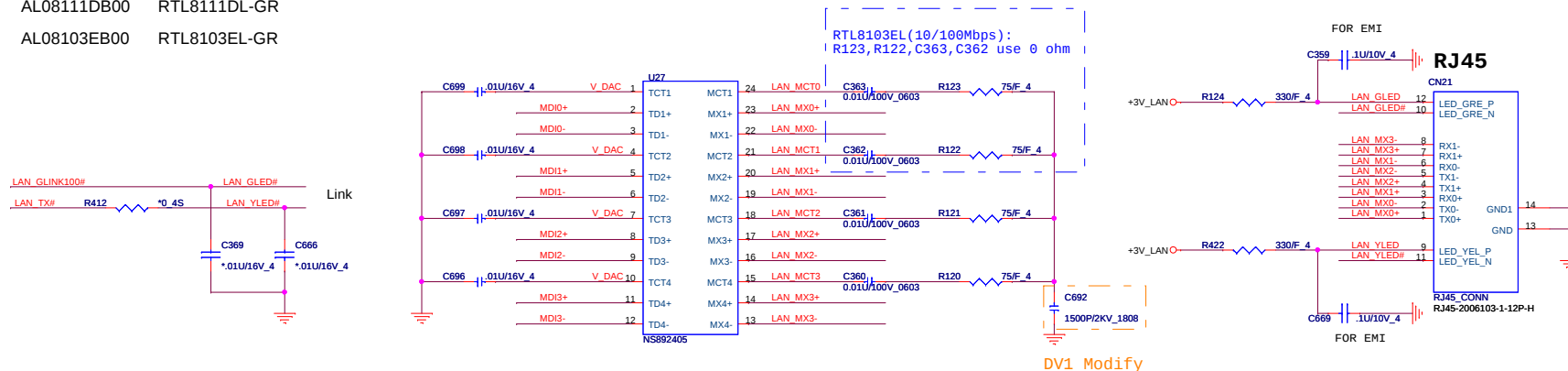
GAIN0	GAIN1	AV(INV)
0	0	6dB
0	1	10dB
1	0	15.6dB
1	1	21.6dB



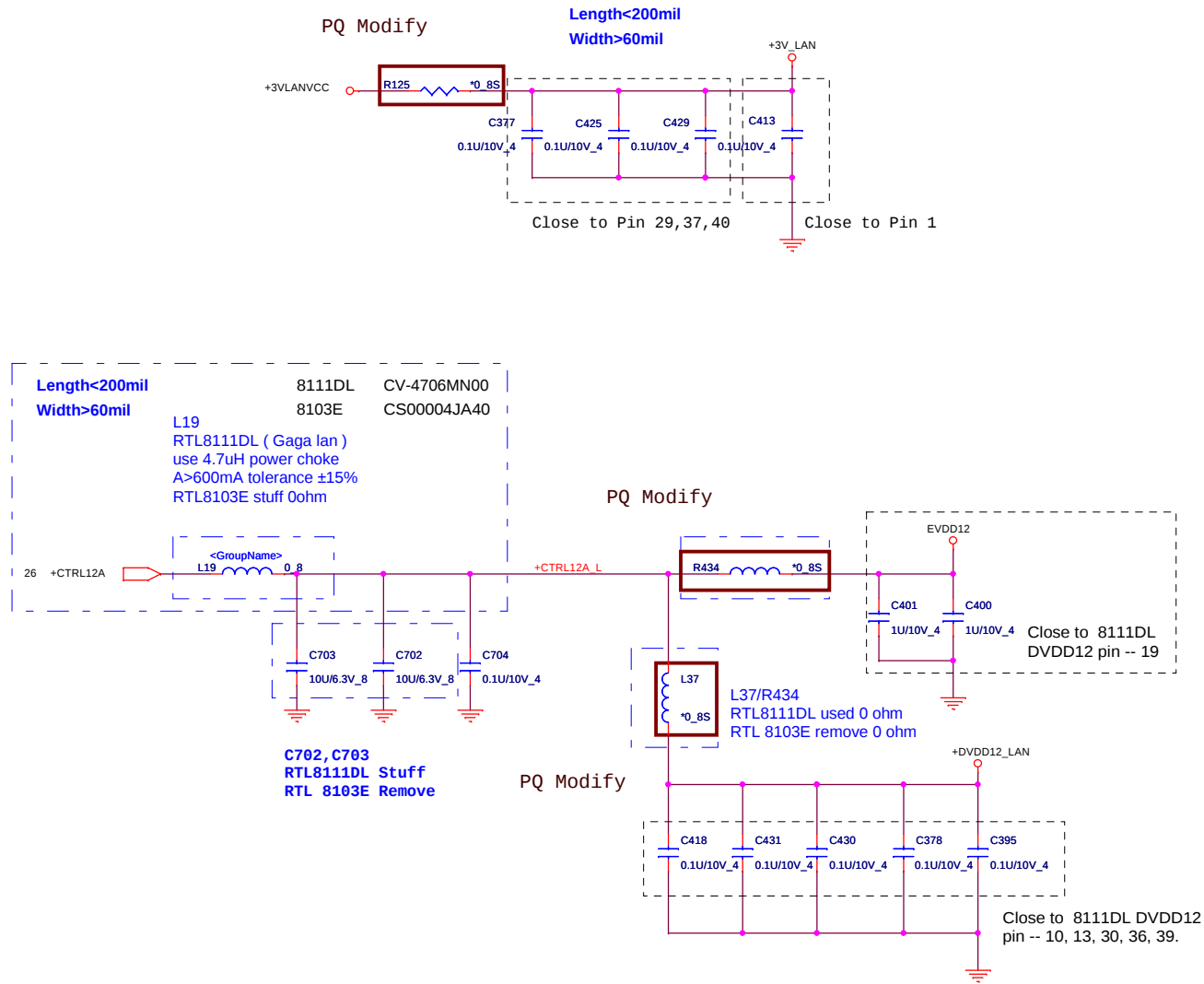
R461 and R463 are used in RTL8111DL ,
remove R463 if switching regulator is
enable , Remove R461 external power is
used.



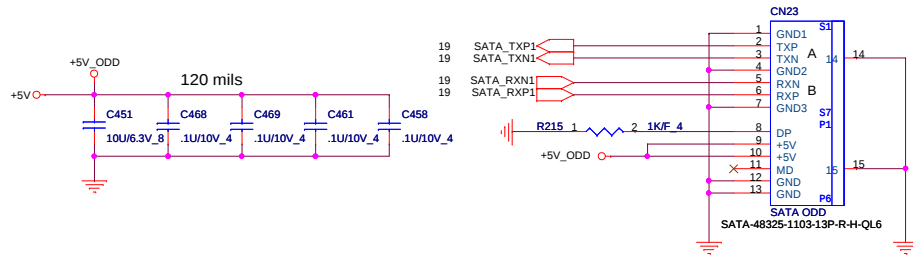
AL08111DB00	RTL8111DL-GR
AL08103EB00	RTL8103EL-GR



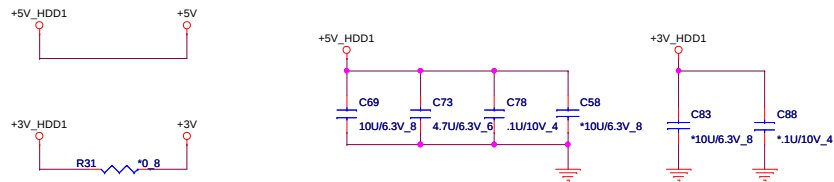
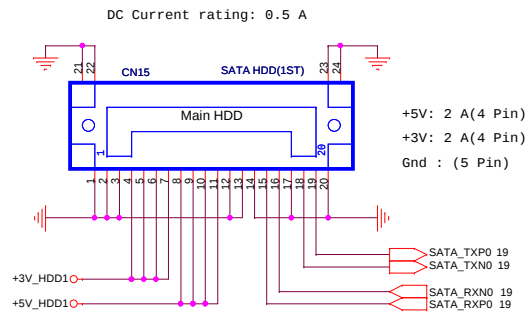
```
| NS892402:1G          DB0AT9LAN05
|
| NS892405:10/100     DB0ZB1LAN04
```



SATA ODD CONECTOR

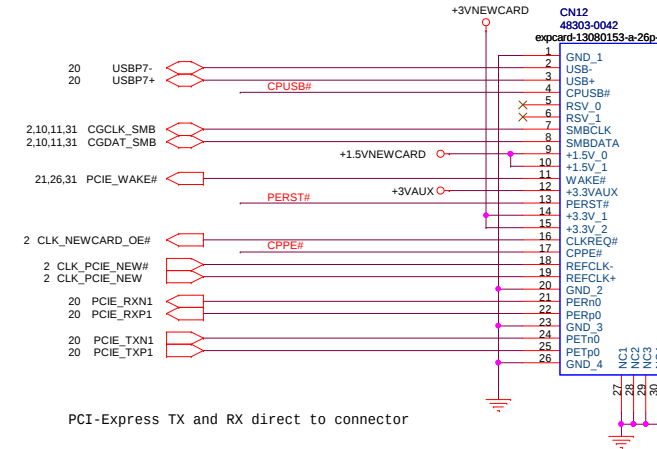


SATA HDD CONNECTOR

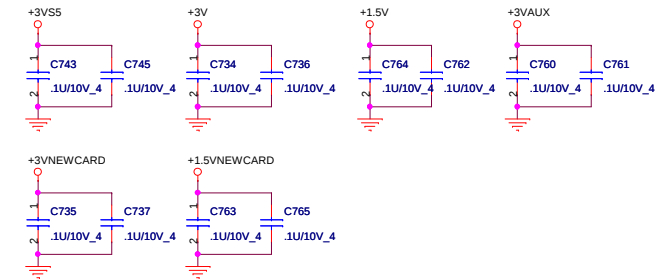
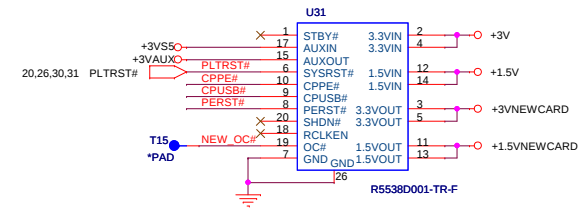


NEWCARD

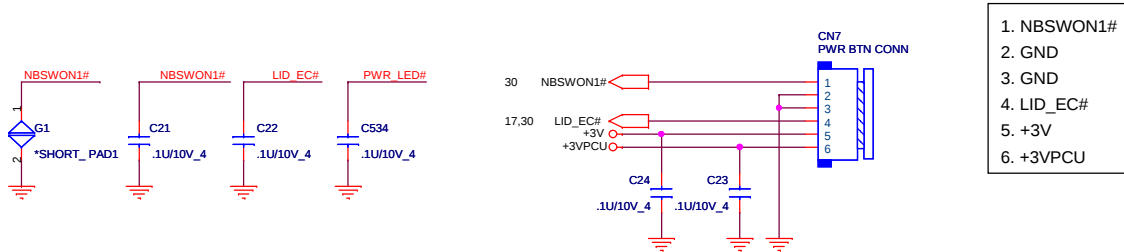
28



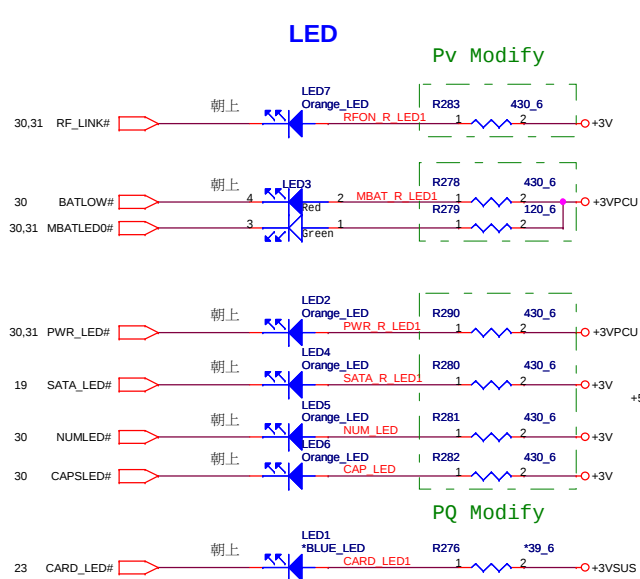
PCI-Express TX and RX direct to connector



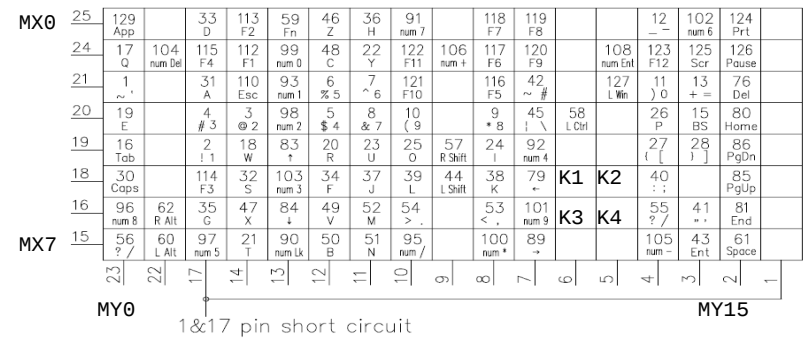
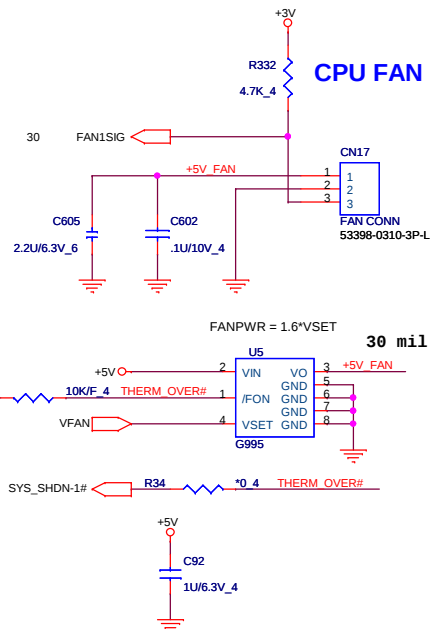
POWER BOTTON CONNECT



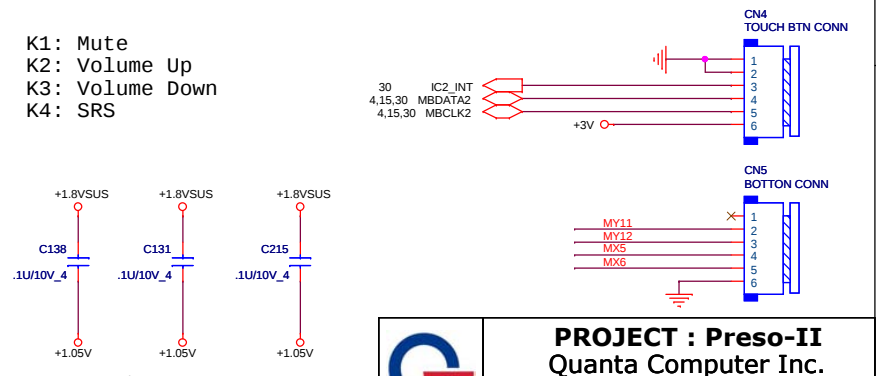
Pv Modify

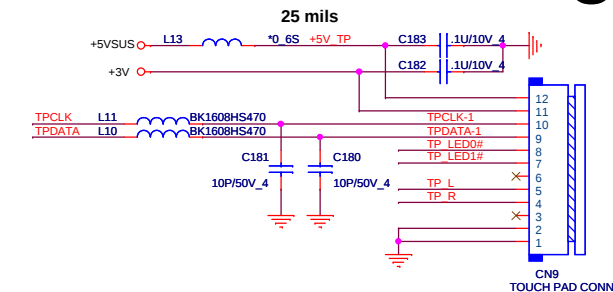


CPU FAN

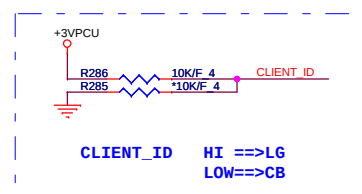
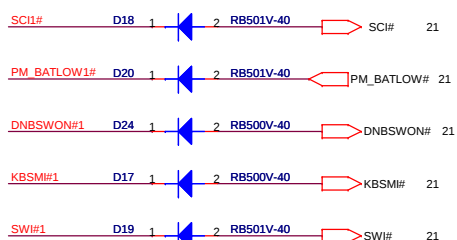
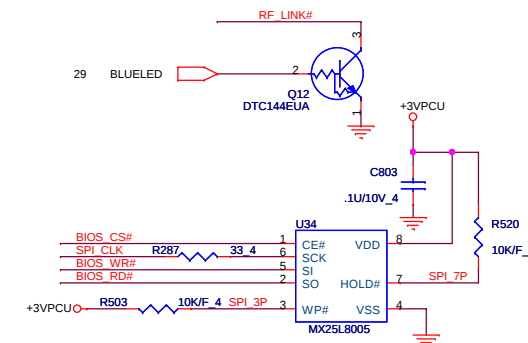
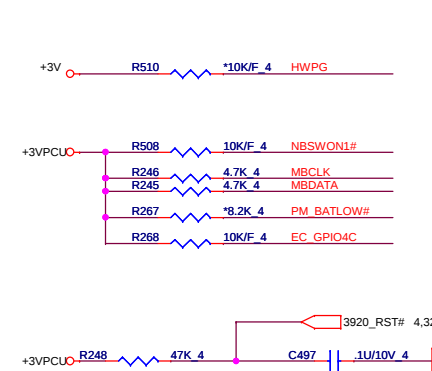
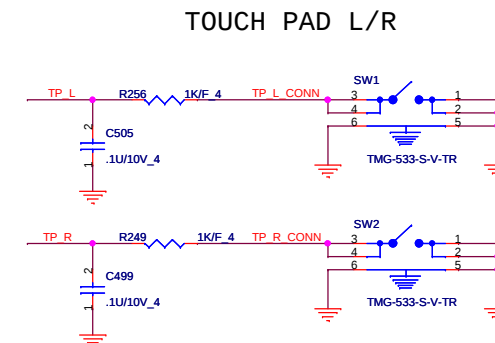


K1: Mute
K2: Volume Up
K3: Volume Down
K4: SRS

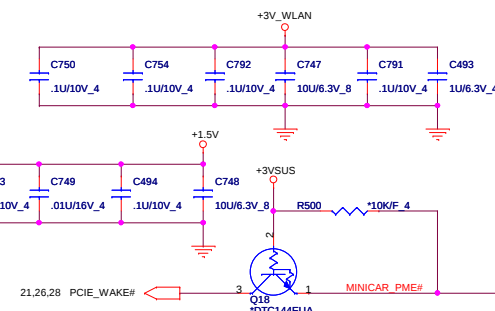
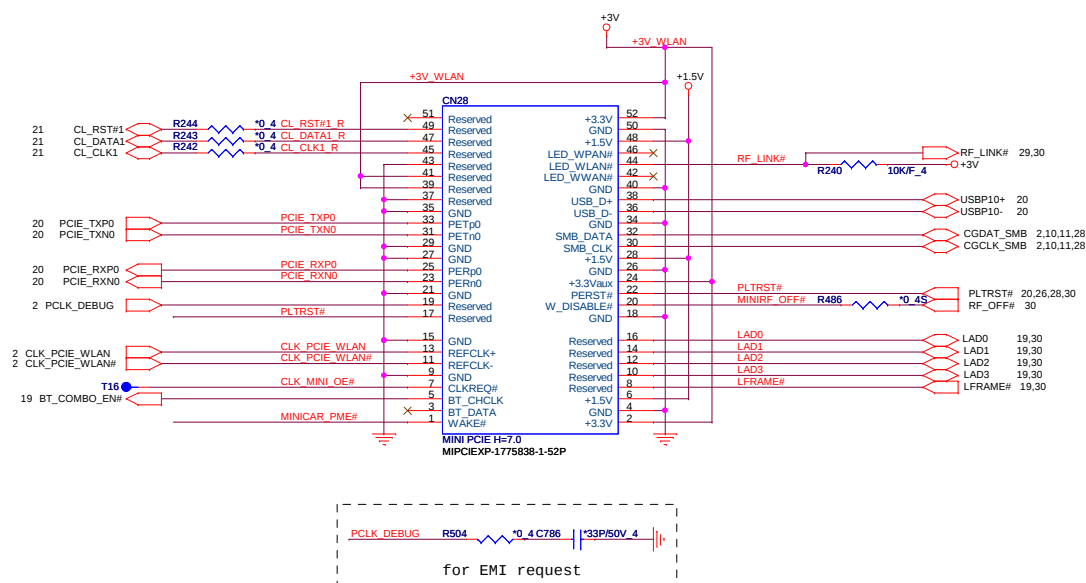




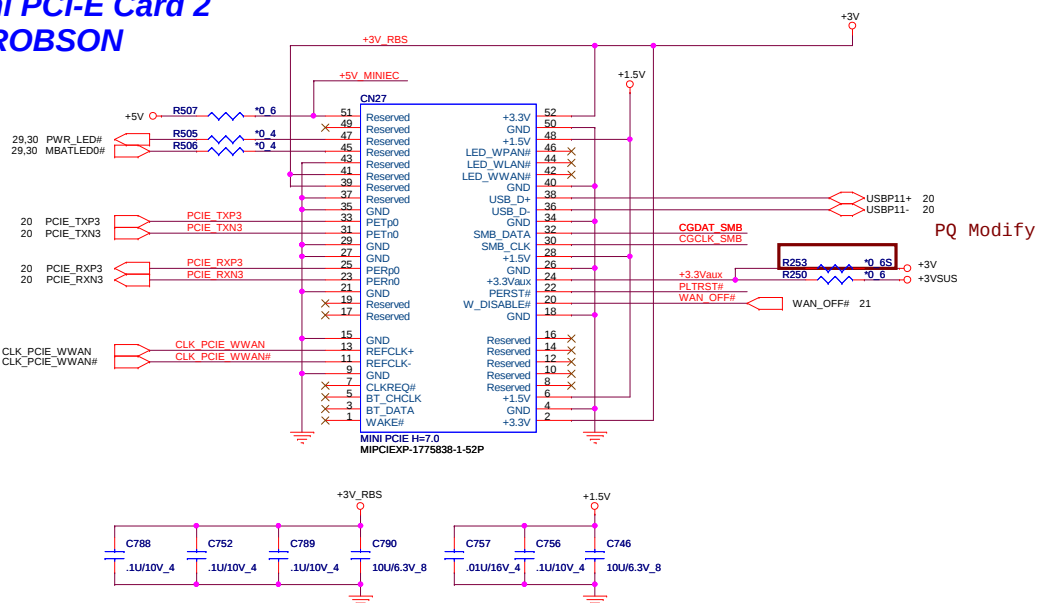
close connector



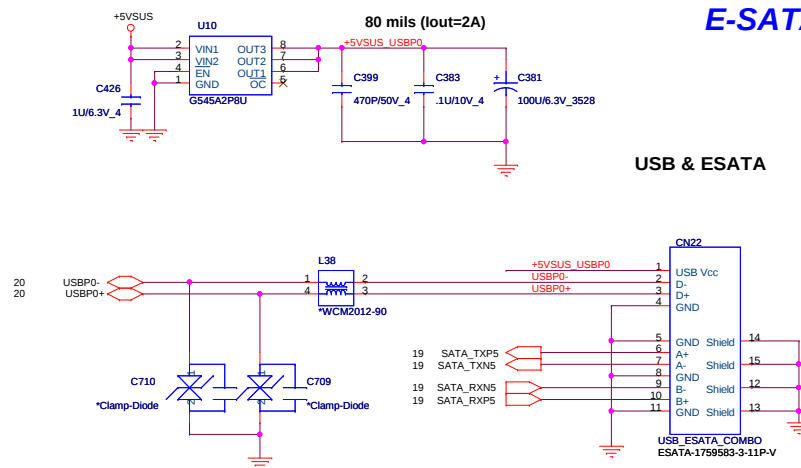
Mini PCI-E Card 1 WLAN



Mini PCI-E Card 2



E-SATA/USB COMBO

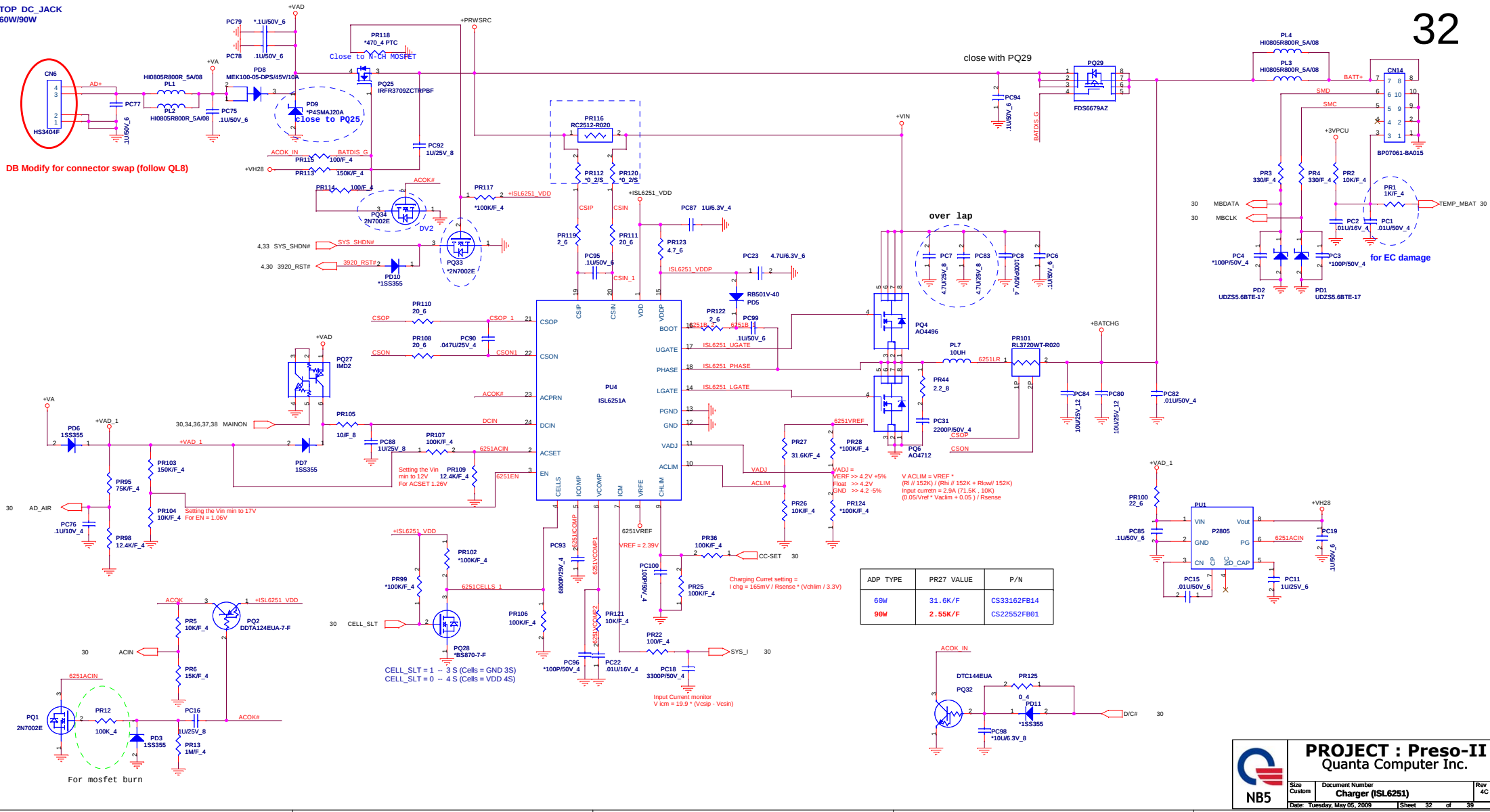


PROJECT : Preso-II
Quanta Computer Inc.

Size Custom	Document Number MINI PCIE CONN X2/E-SATA	Rev 1
Date: Tuesday, May 05, 2009	Sheet 31 of 39	

TOP DC JACK
60W/90W

DB Modify for connector swap (follow QL8)



ADP TYPE	PR27 VALUE	P/N
60W	31.6K/F	CS33162FB14
90W	2.55K/F	CS22552FB01



PROJECT : Preso-II
Quanta Computer Inc.

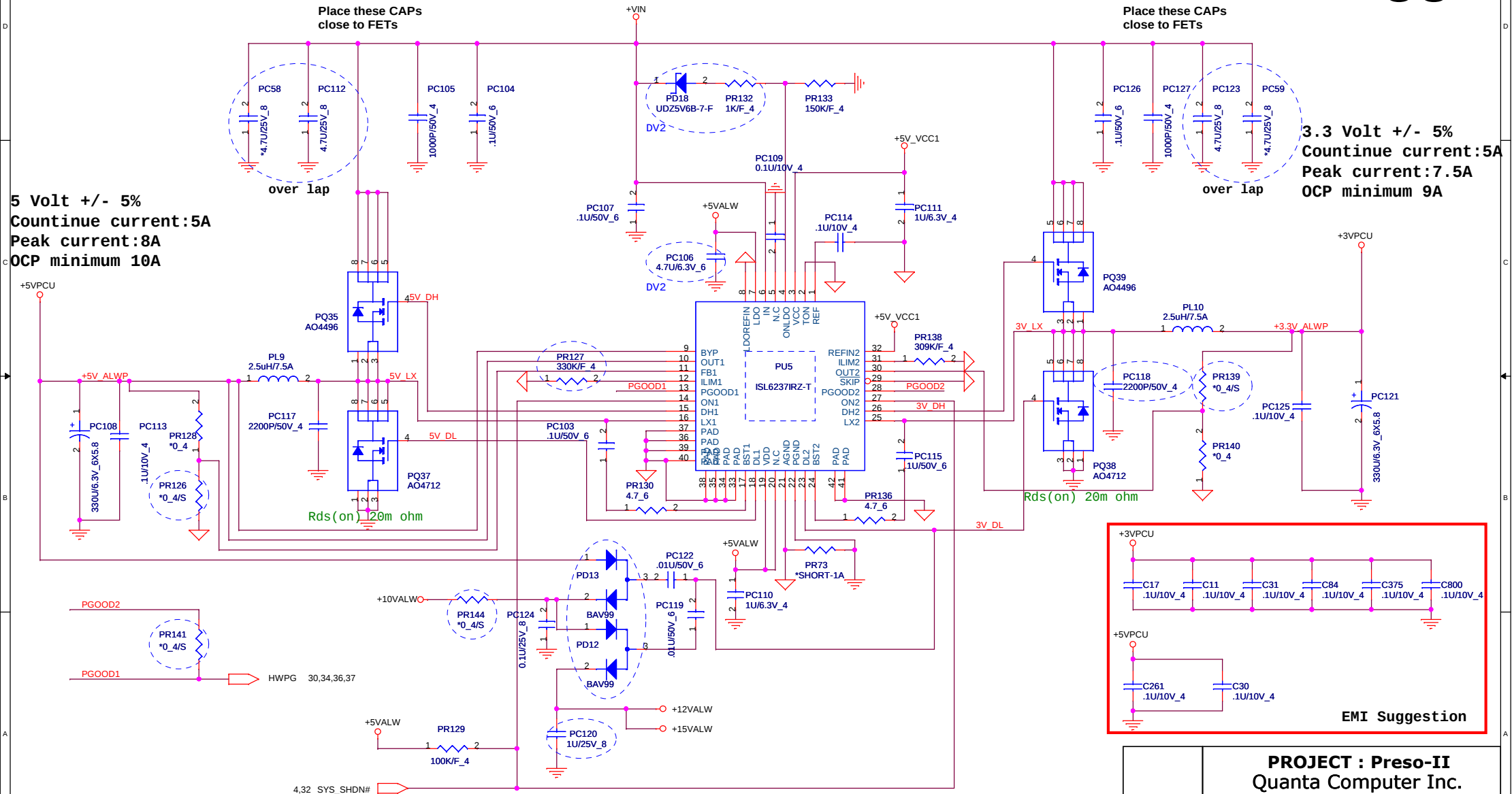
Size Custom Document Number
Charger (ISL6251)

Date: Tuesday, May 05, 2009 Sheet 32 of 39

Rev 4C

5 Volt +/- 5%
Countinue current:5A
Peak current:8A
OCP minimum 10A

3.3 Volt +/- 5%
Countinue current:5A
Peak current:7.5A
OCP minimum 9A



NB5

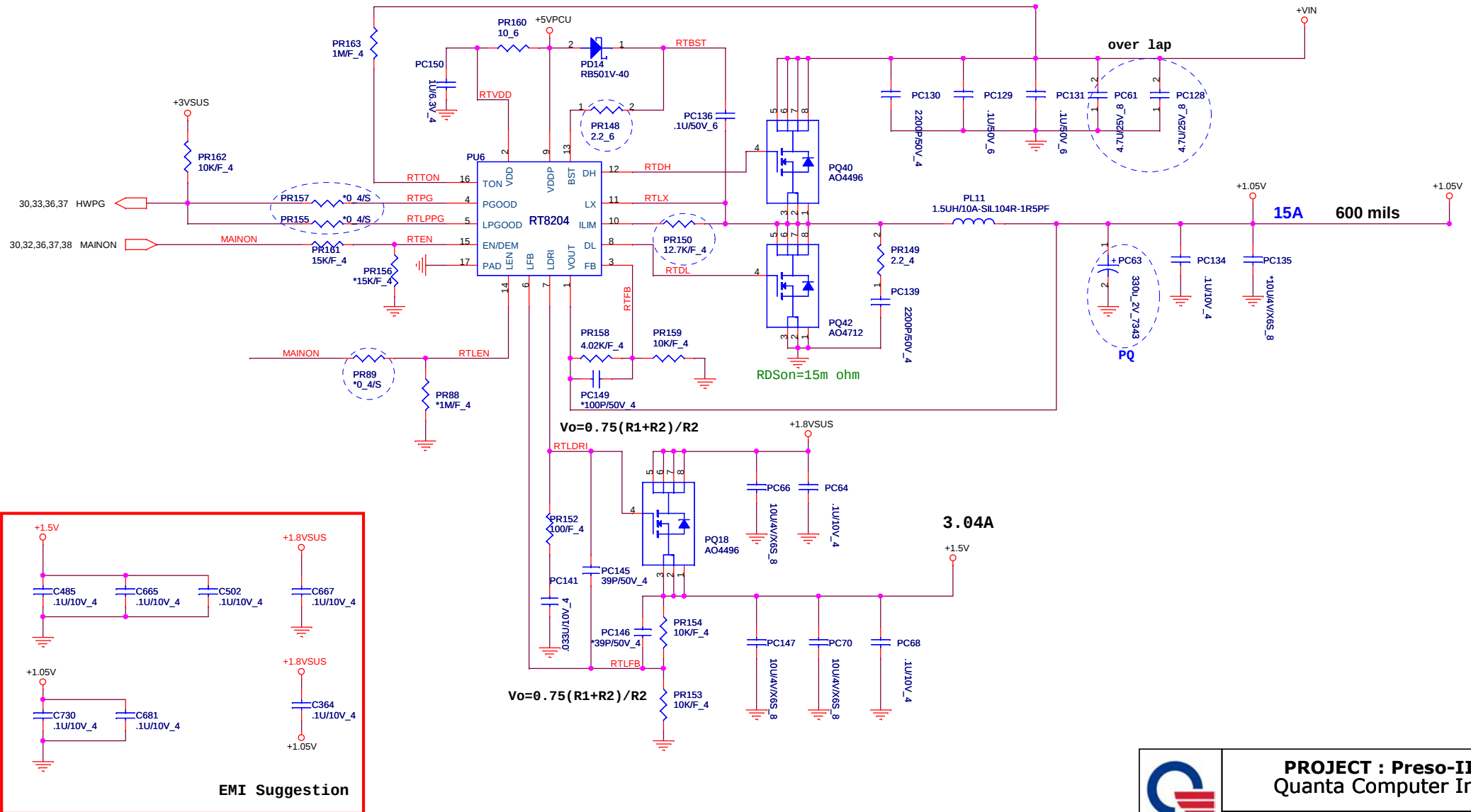
PROJECT : Preso-II
Quanta Computer Inc.

Size B	Document Number	Rev 4C
	+5V/+3V (ISL6237)	
Date: Tuesday, May 05, 2009	Sheet 33 of 39	

VCCP1.05V & +1.5V

+1.05Volt +/- 5%
 Countinue current:7.5A
 Peak current:10A
 OCP minimum 15A

34



 PROJECT : Preso-II Quanta Computer Inc.		
Size B	Document Number	Rev 4C
	+1.05V/+1.5V (RT8204)	
Date: Tuesday, May 05, 2009	Sheet 34 of 39	



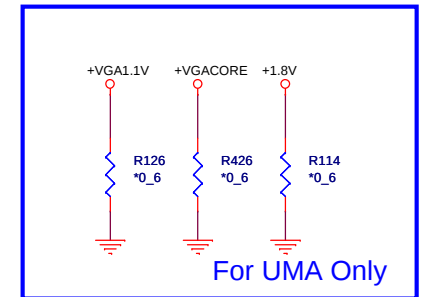
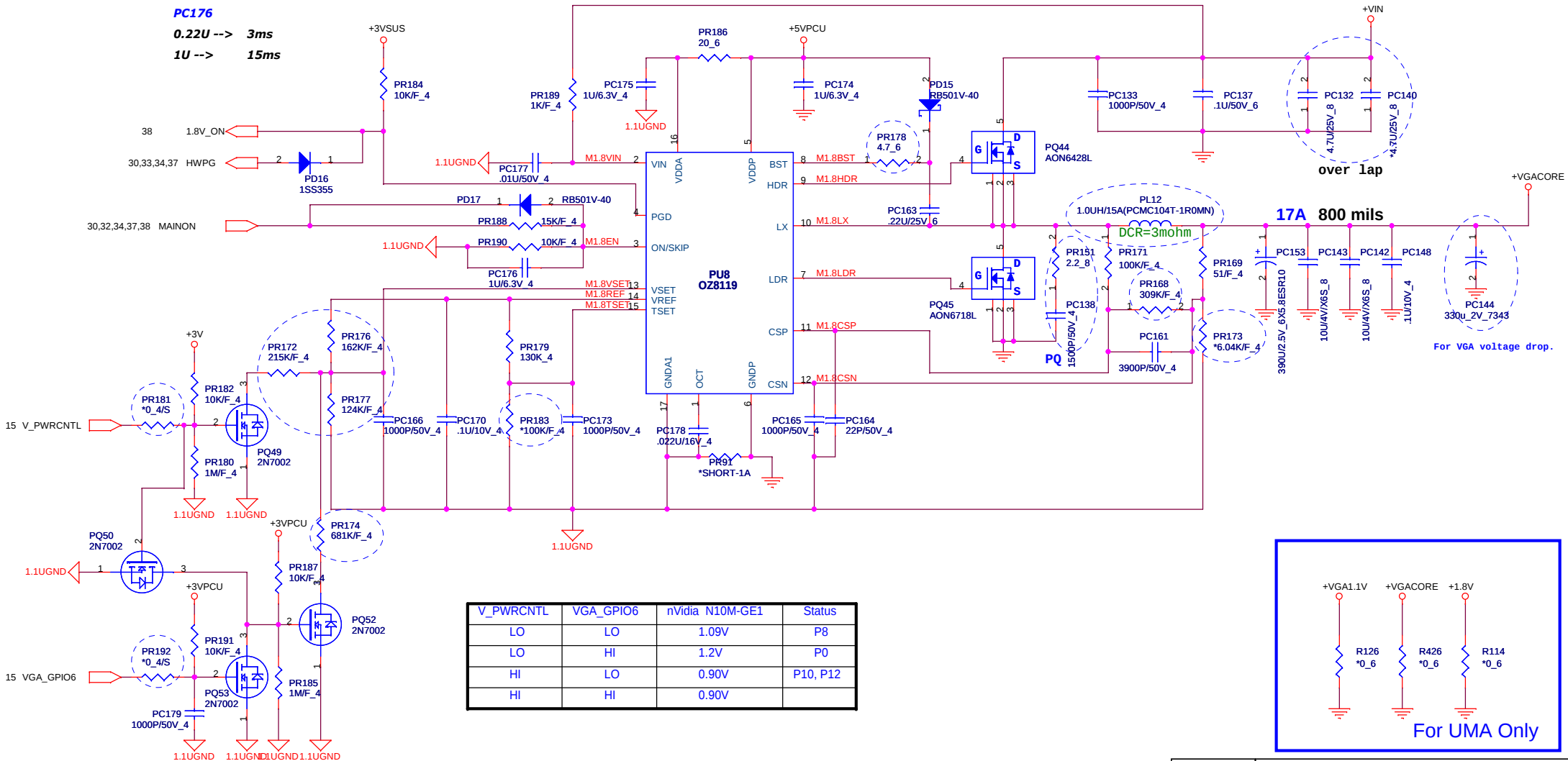
VGA Core & VCC1.1

+1.1Volt +/- 5%
 Countinue current:15A
 Peak current:17A
 OCP minimum 22A

36

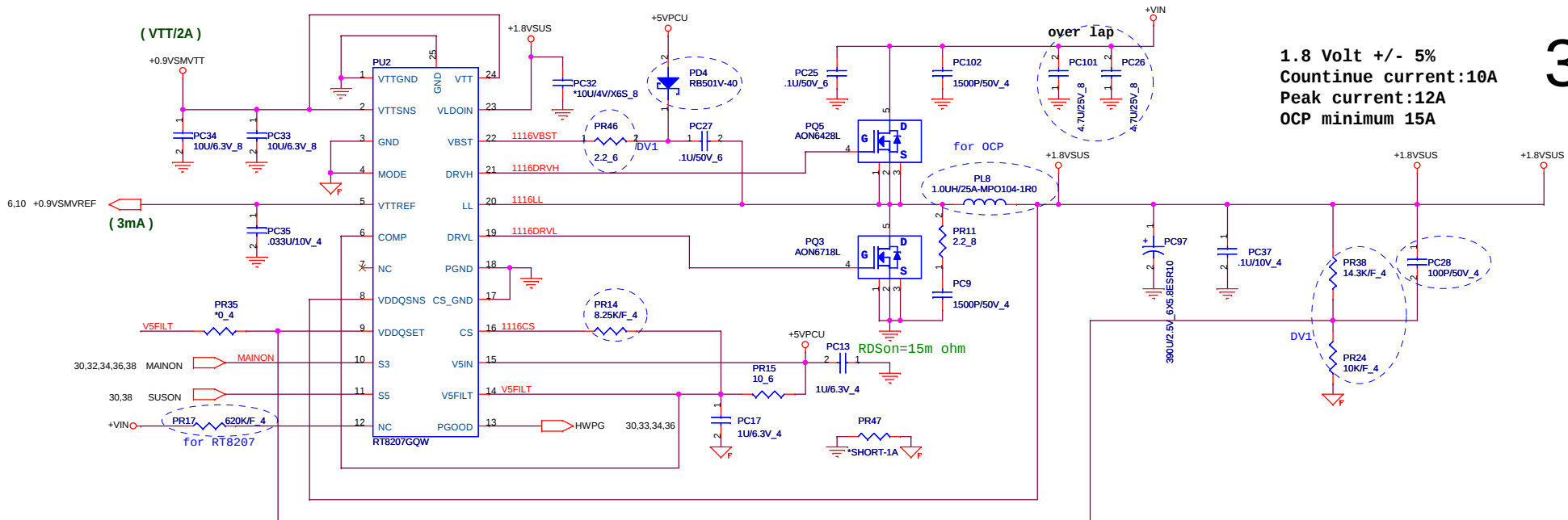
PC176

0.22U --> 3ms
 1U --> 15ms



PROJECT : Preso-II
 Quanta Computer Inc.

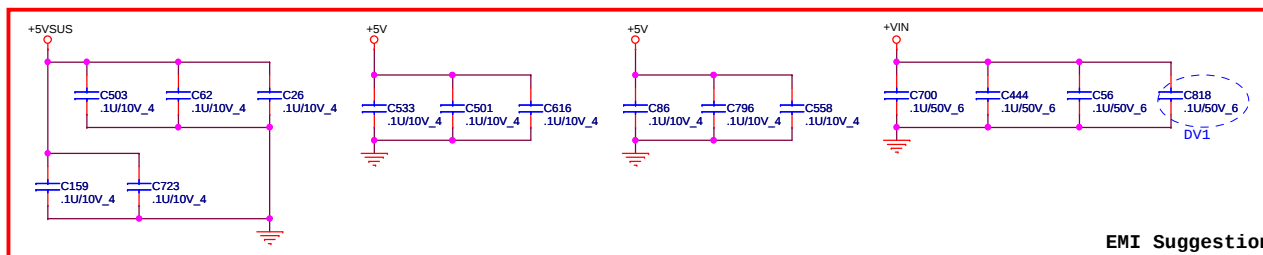
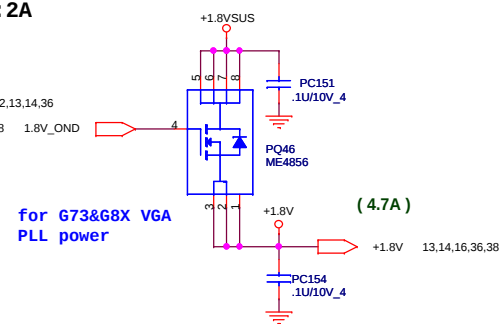
Size B	Document Number VGA CORE OZ8119	Rev 4C
Date: Tuesday, May 05, 2009	Sheet 36 of 39	



1.8 Volt +/- 5%
 Countinue current:10A
 Peak current:12A
 OCP minimum 15A

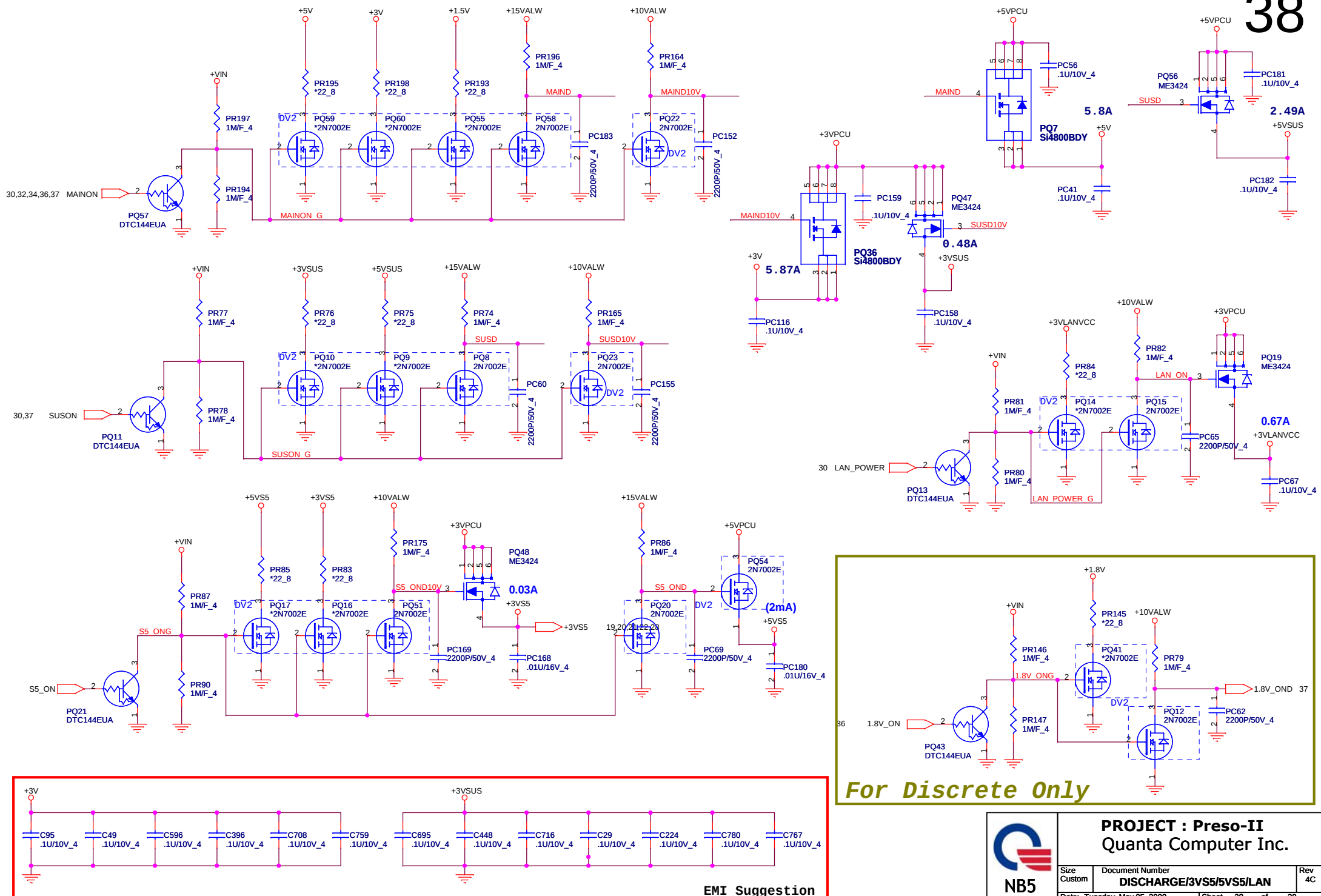
For Discrete Only

1.1 Volt +/- 5%
 Countinue current:2A
 Peak current:2.5A

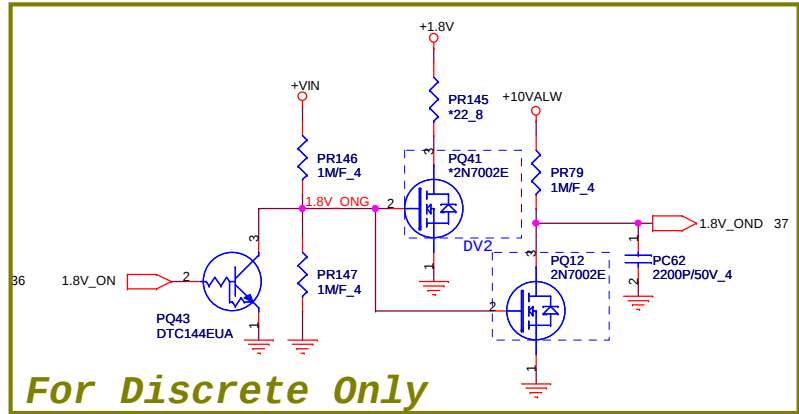


PROJECT : Preso-II
 Quanta Computer Inc.

Size Custom	Document Number 1.8V/DDR_VTER/+1.8v/+1.1V	Rev 4C
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EMI Suggestion





NB5

PROJECT : Preso-II
Quanta Computer Inc.

Size Custom	Document Number DISCHARGE/3VS5/5VS5/LAN	Rev 4C
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	Voltage level	AC MODE				DC MODE			
		S0	S3	S4	S5	S0	S3	S4	S5
+3VPCU	3.3V +/- 5%	V	V	V	V	V	V	V	V
+5VPCU	5V +/- 5%	V	V	V	V	V	V	V	V
+3VRTC	3.3V +/- 5%	V	V	V	V	V	V	V	V
+3VS5	3.3V +/- 5%	V	V	V	V	V	V		
+5VS5	5V +/- 5%	V	V	V	V	V	V		
+3VSUS	3.3V +/- 5%	V	V			V	V		
+5VSUS	5V +/- 5%	V	V			V	V		
+1.8VSUS	1.8V +/- 5%	V	V			V	V		
+0.9VSMVTT	0.9V +/- 5%	V	V			V	V		
+1.5V	1.5V +/- 5%	V				V			
+1.05V	1.05V +/- 5%	V				V			
+VCORE	0.9~1.15V	V				V			
+VGA_CORE	0.9~1.2V	V				V			
+VGA1.1V	1.1V +/- 5%	V				V			
+1.8V	1.8V +/- 5%	V				V			
+3VLAVCC	3.3V +/- 5%	V				V			



PROJECT : Preso-II
Quanta Computer Inc.

Size
Custom

Document Number
Voltage status

Rev
1A

Date: Monday, May 04, 2009

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