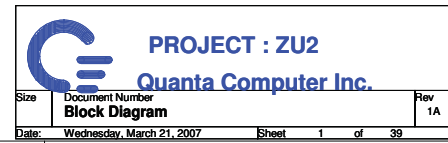
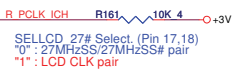
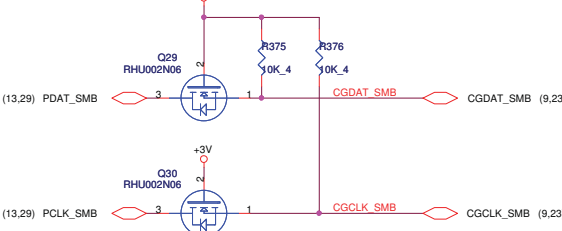
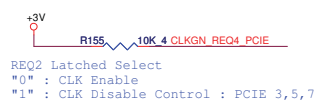
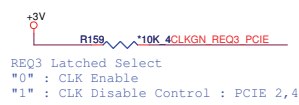
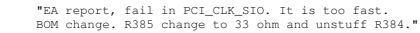
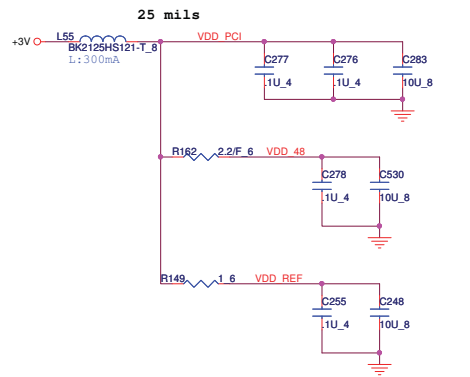


PCI DEVICE	IDSEL#	REQ# / GNT#	Interrupts	CLOCK
CB1410	AD17	REQ0# / GNT0#	INTE#	CK410/PCI3
TIAB23	AD25	REQ2# / GNT2#	INTF#	CK410/PCI8
MRS10	AD18	REQ1# / GNT1#	INTG#	CK410/PCI4

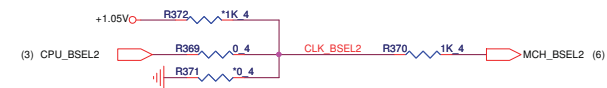
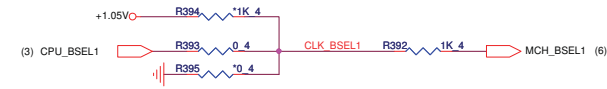




SEL2 SEL1 SEL0

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	200	100	33

BSEL strappings need to be set for 533MHz Moby Dick
(Intel7915GM - Calistoga Interposer)
(if Calistoga is designed for 667MHz board).



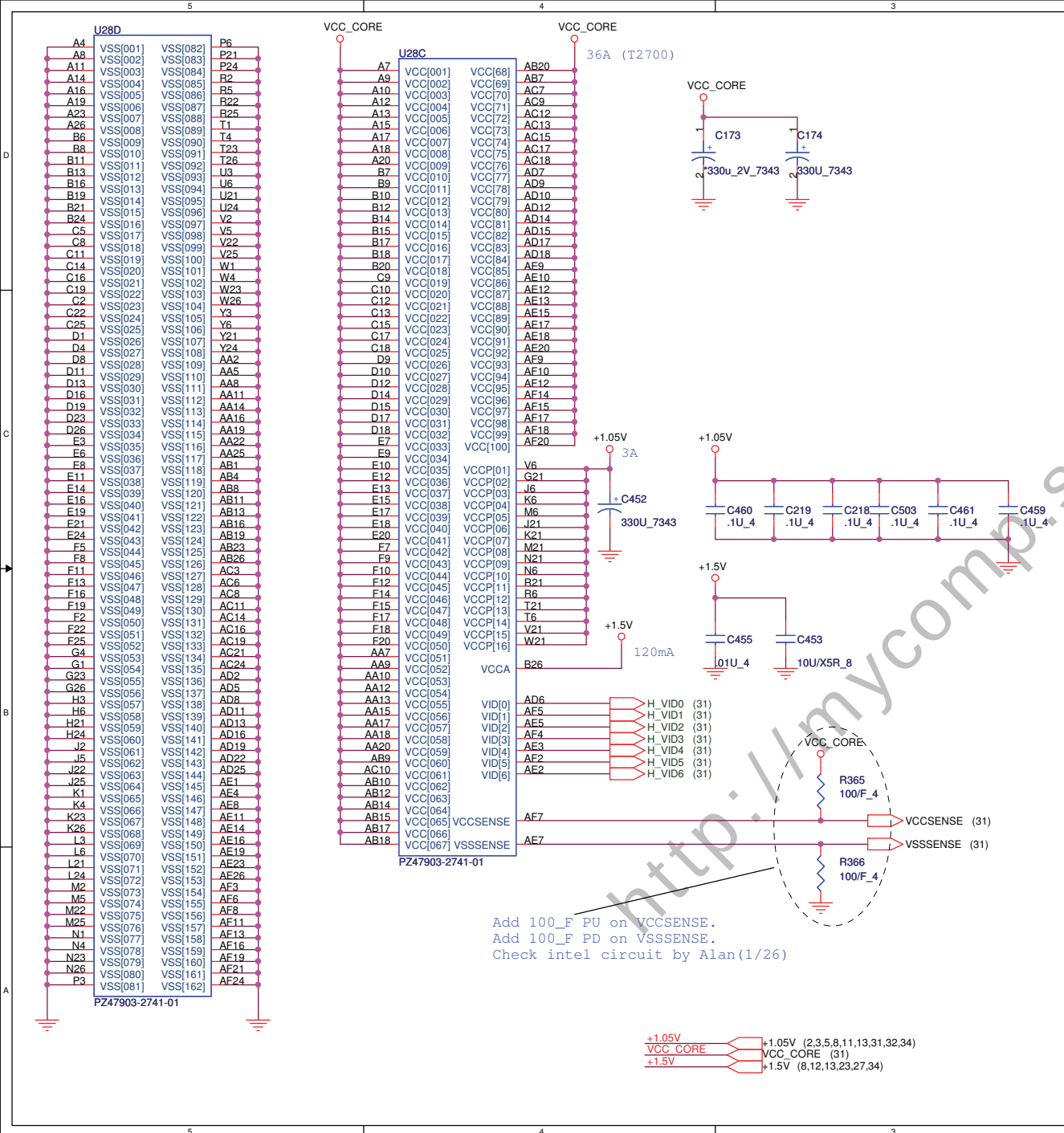
+3V (3,6,8,9,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,29,30,31,32,34)
+1.05V (3,4,5,8,11,13,31,32,34)

CLK CPU BCLK#	RP29	3	2	4	49.9 4P2R
CLK MCH BCLK#	RP30	3	2	4	49.9 4P2R
CLK PCIE SATA	RP41	3	2	4	49.9 4P2R
CLK PCIE SATA#		3	2	4	
CLK PCIE LAN#	RP49	3	2	4	49.9 4P2R
CLK PCIE LANE#		3	2	4	
CLK PCIE 3GPLL	RP47	3	2	4	49.9 4P2R
CLK PCIE 3GPLL#		3	2	4	
CLK PCIE MINIT	RP50	3	2	4	49.9 4P2R
CLK PCIE MINIT#		3	2	4	
CLK PCIE ICH	RP42	3	2	4	49.9 4P2R
CLK PCIE ICH#		3	2	4	
DREFSSCLK#	RP51	3	2	4	49.9 4P2R
DREFSSCLK		3	2	4	
DREFCLK#	RP52	3	2	4	49.9 4P2R
DREFCLK		3	2	4	
CLK PCIE DOCK	RP48	3	2	4	49.9 4P2R
CLK PCIE DOCK#		3	2	4	

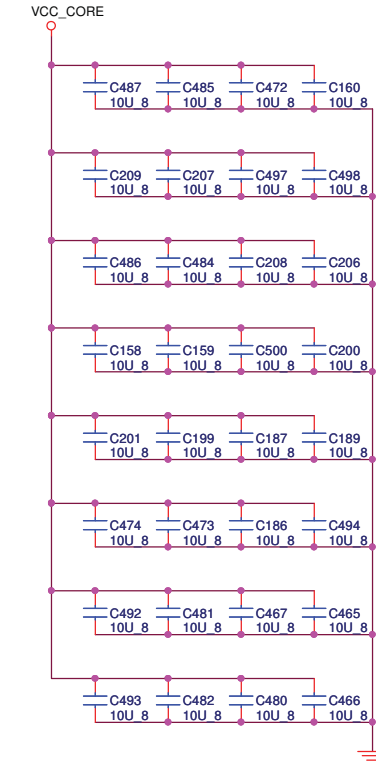
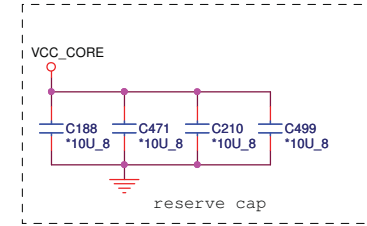
PCI CLK SIO	C533	*10P 4
PCI CLK 510	C284	*10P 4
PCI CLK CB714	C526	*10P 4
PCLK DEBUG SW	C534	*10P 4
PCLK ICH	C285	*10P 4
PCLK 591	C286	*10P 4
PCLK 1394	C250	*10P 4



PROJECT : ZU2
Quanta Computer Inc.



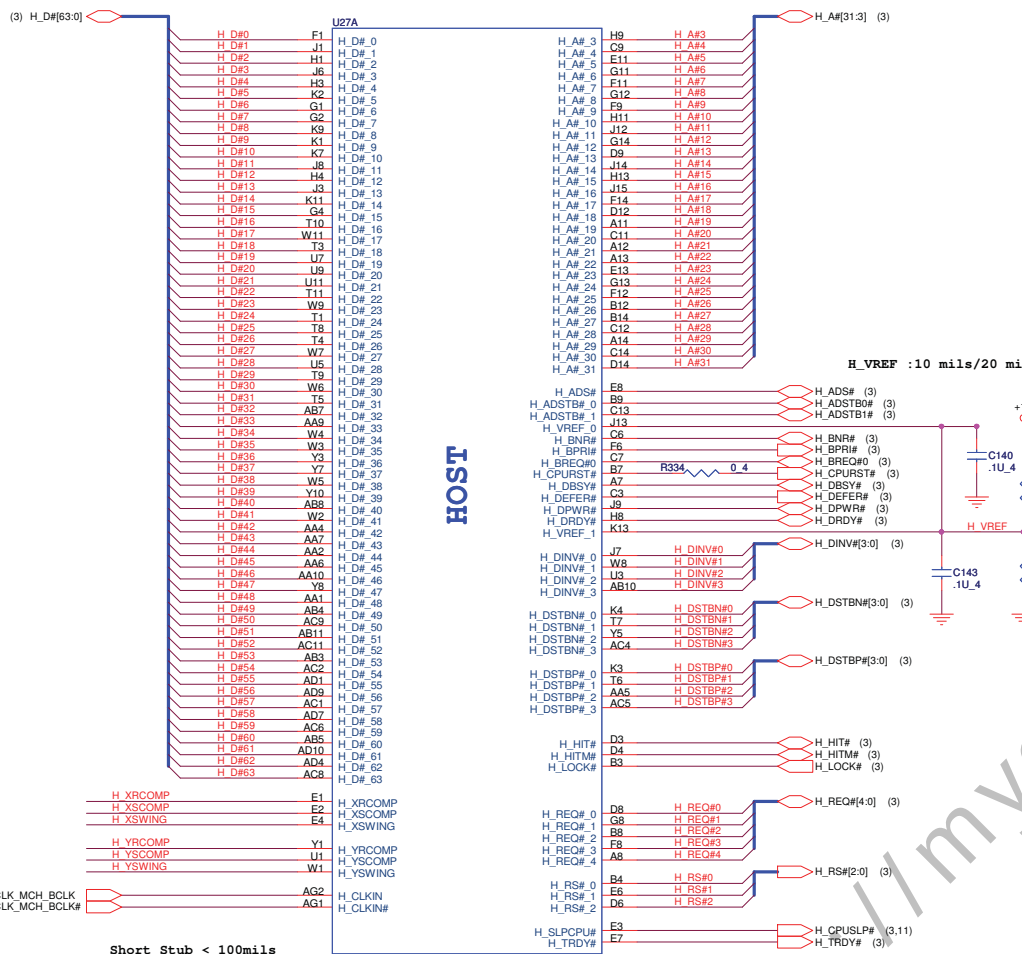
VCC_CORE CAP.



PROJECT : ZU2

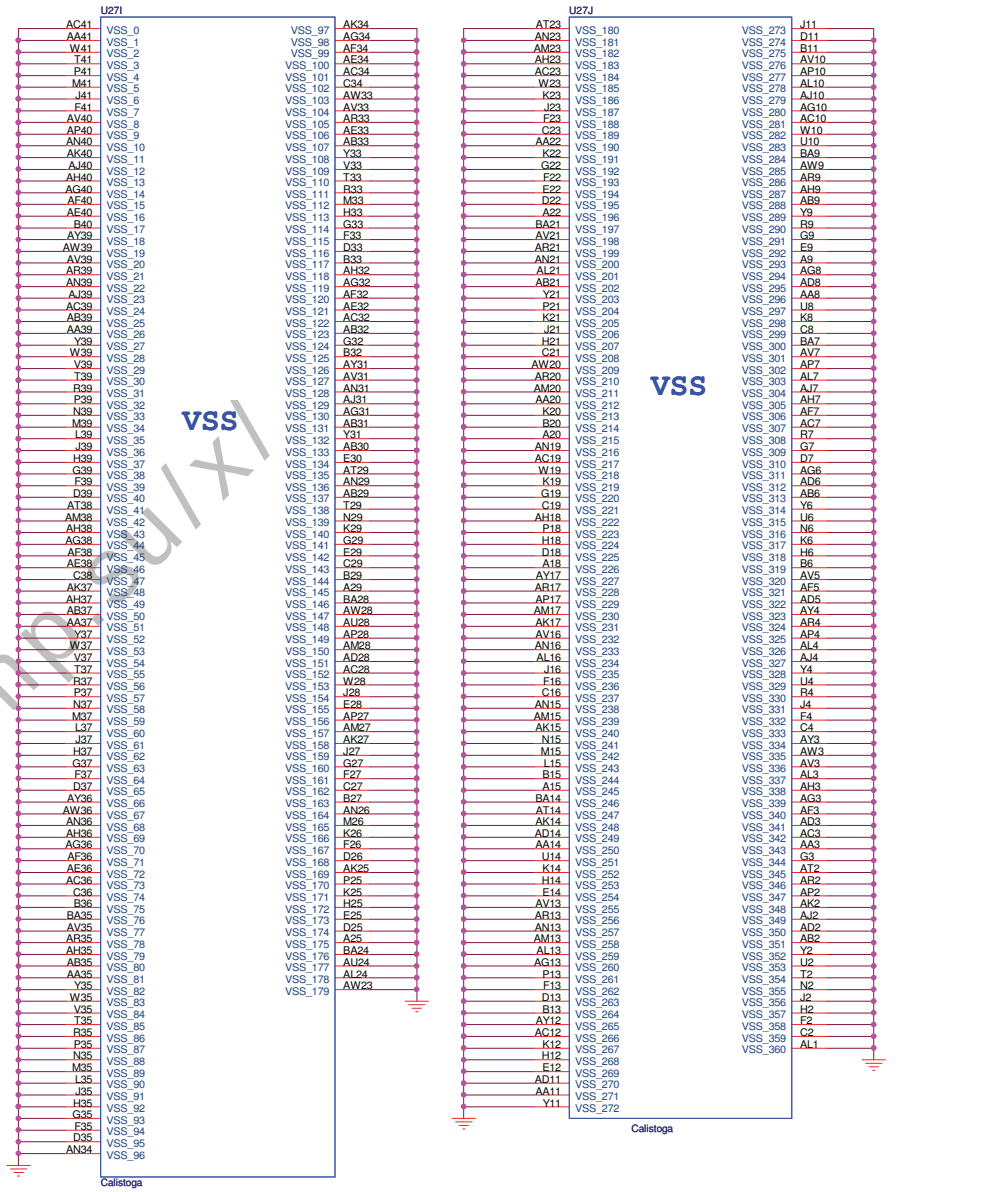
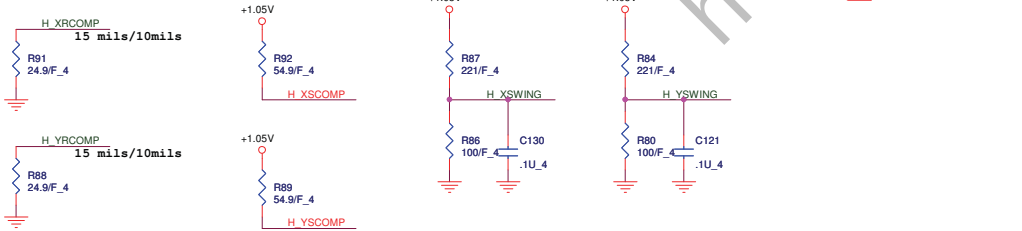
Quanta Computer Inc.

Size	Document Number	Rev
	Yonah/Merom CPU(POWER/GND)-2	1A
Date:	Thursday, March 22, 2007	Sheet 4 of 39



Short Stub < 100mils
extract from same point

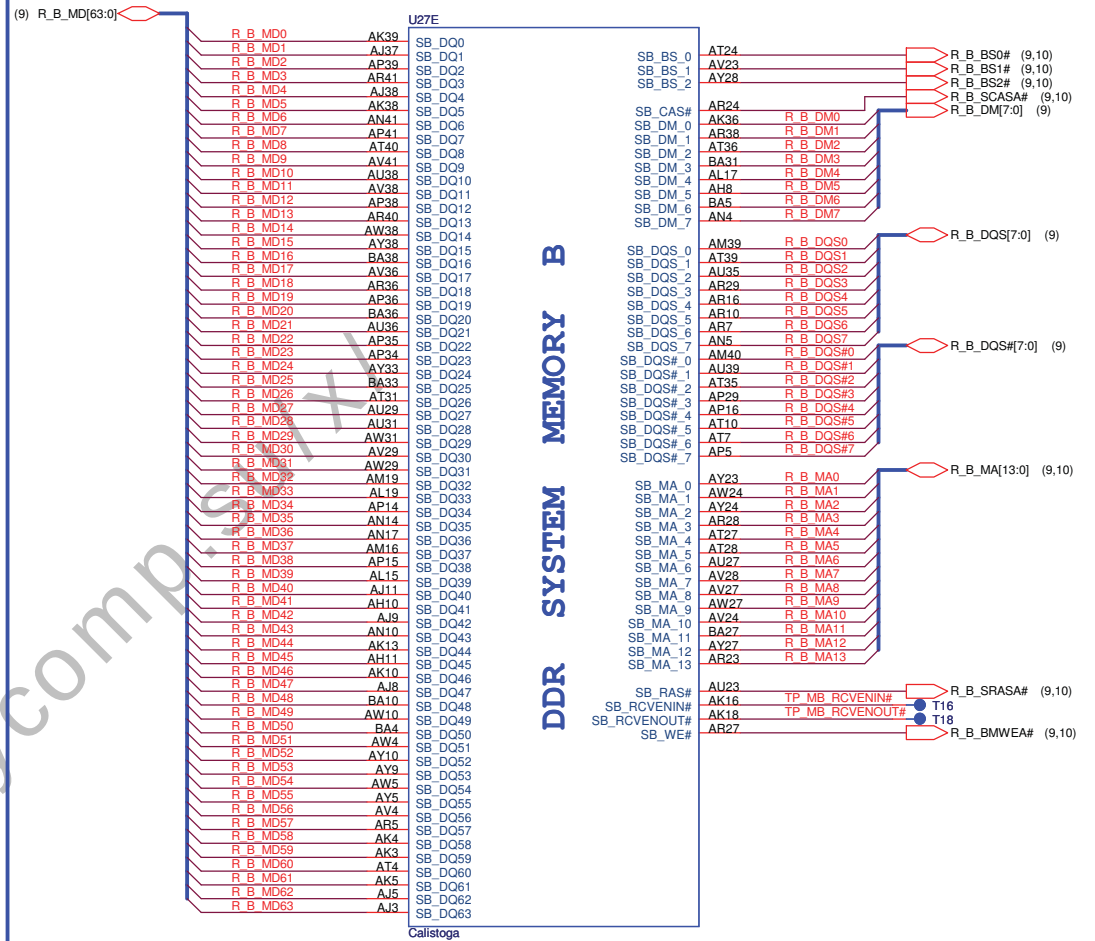
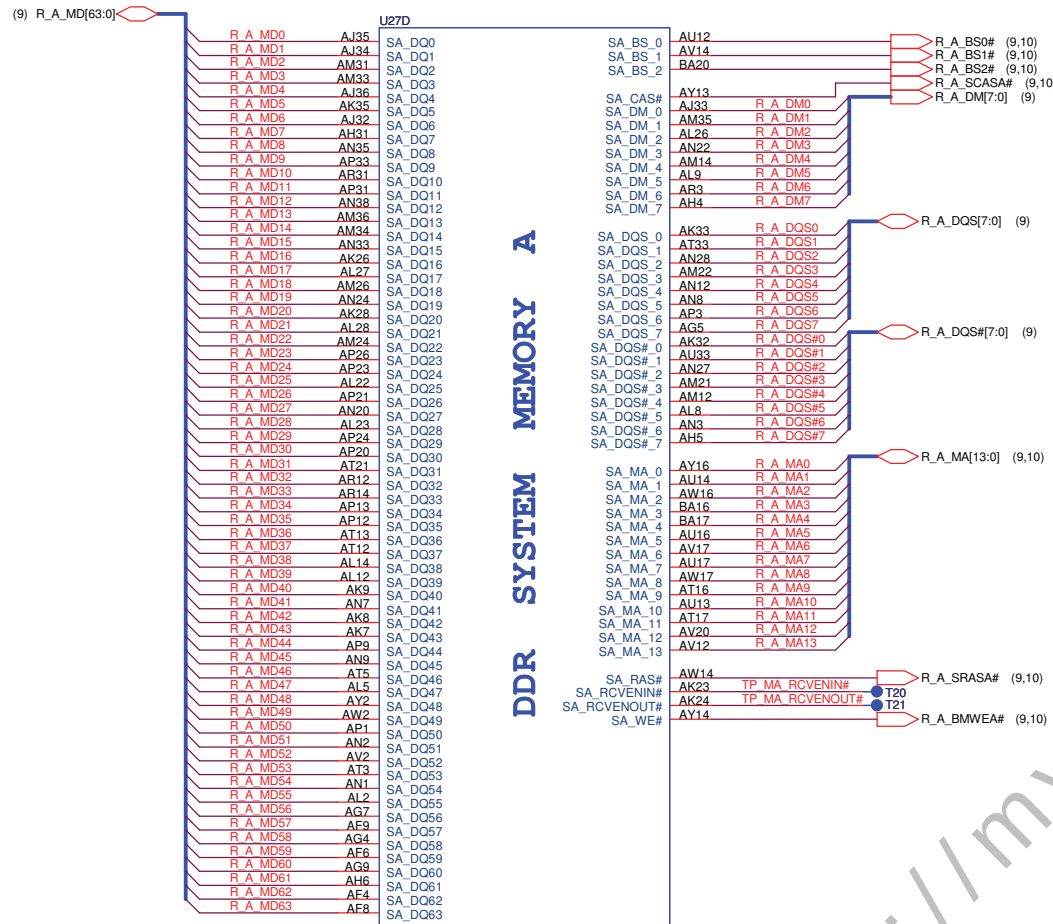
Slew/IO Buffer COMP.



COMPONENTS	P/N
945GM	AJSL8Z20T25
ICH7-M	AJSL8YB0T21

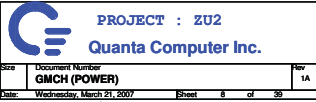
**PROJECT : ZU2**
Quanta Computer Inc.

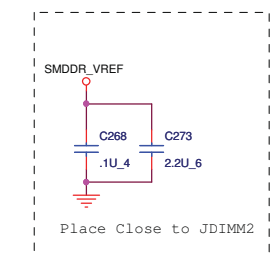
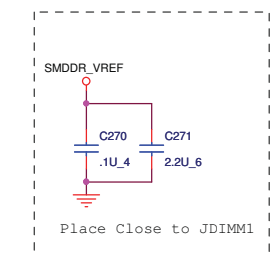
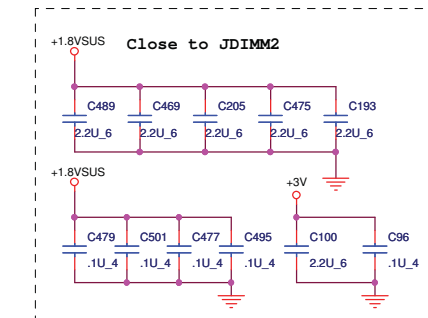
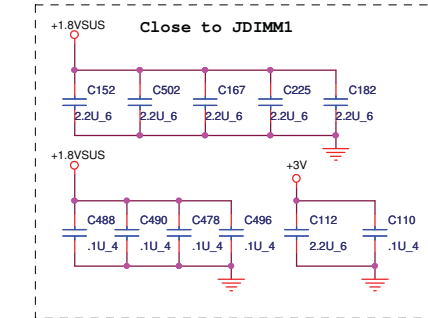
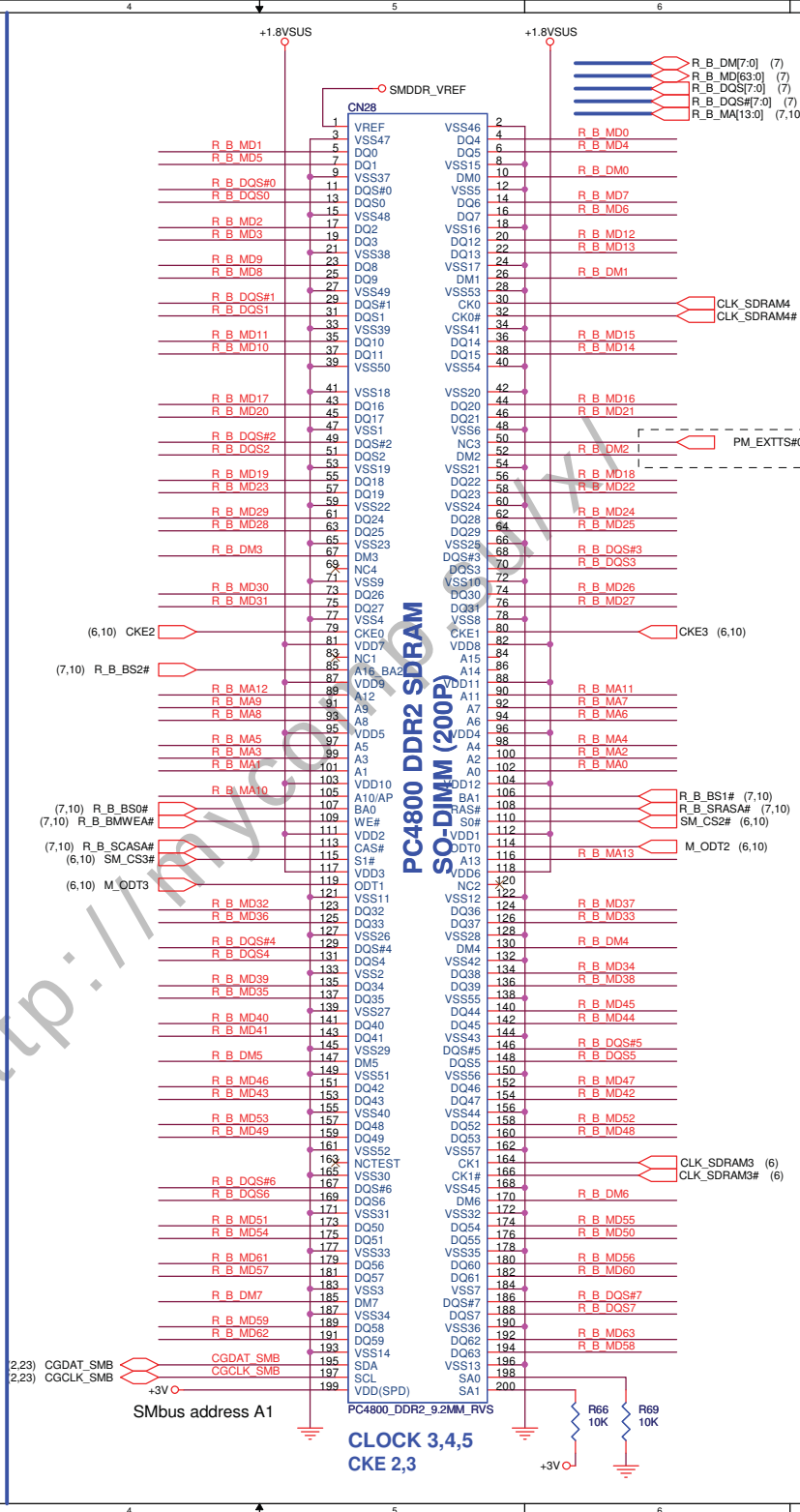
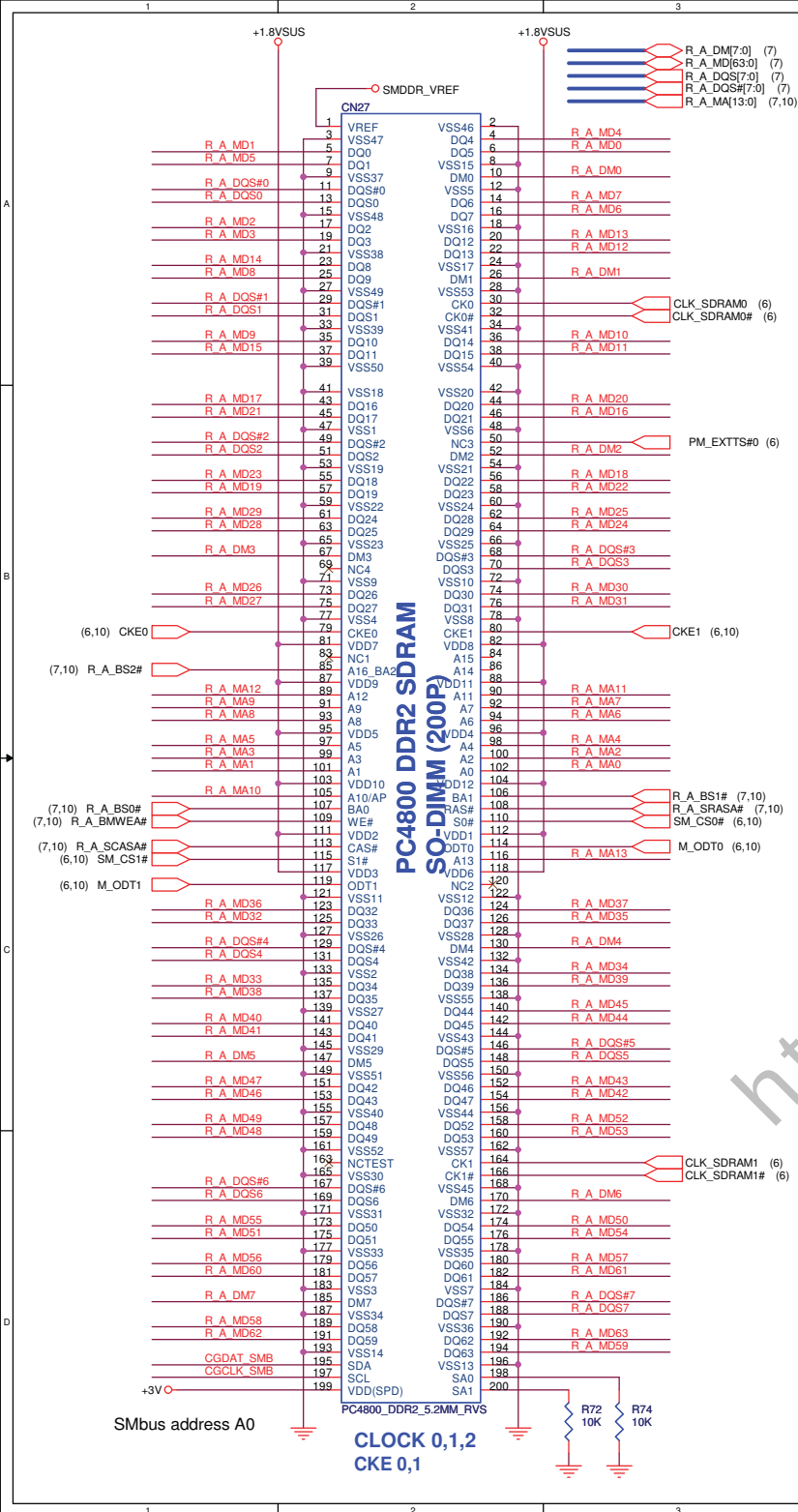
Size	Document Number	Rev
	GMCH (HOST/GND)	1A
Date:	Thursday, March 22, 2007	Sheet 5 of 39



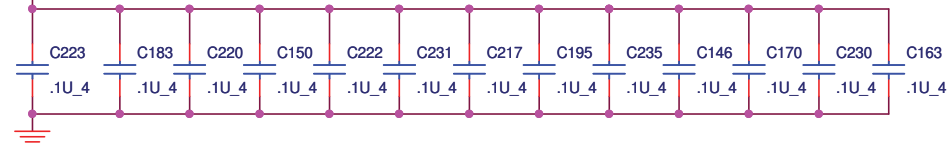
PROJECT : ZU2
Quanta Computer Inc.

Size	Document Number	Rev
	GMCH (DDR2)	1A
Date:	Thursday, March 22, 2007	Sheet 7 of 39



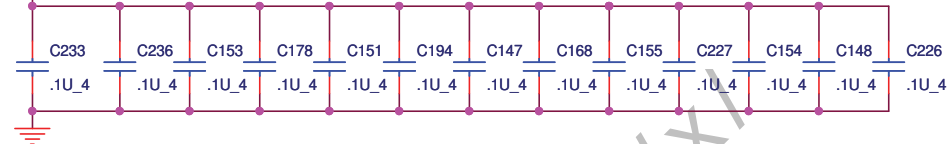


SMDDR_VTERM



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

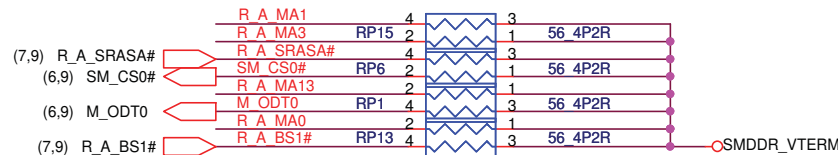
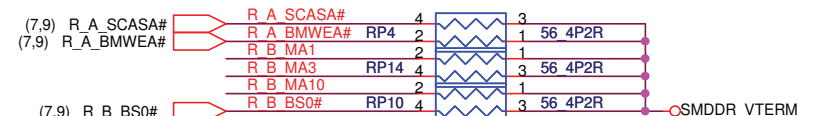
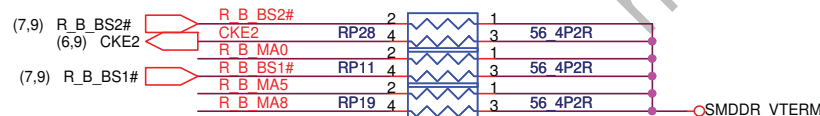
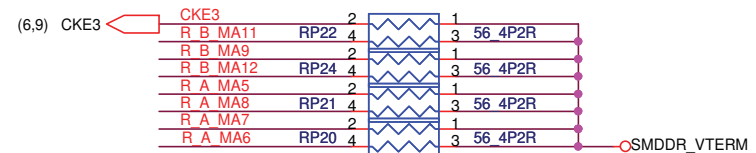
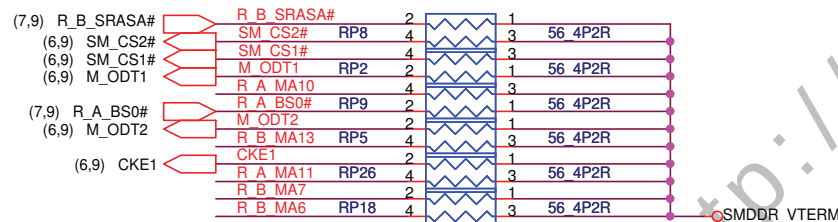
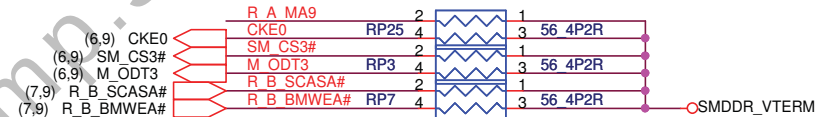
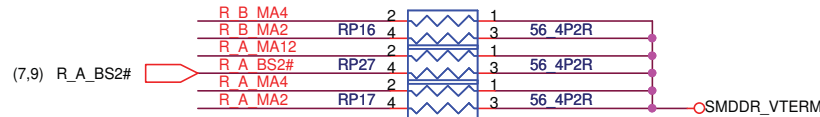
SMDDR_VTERM

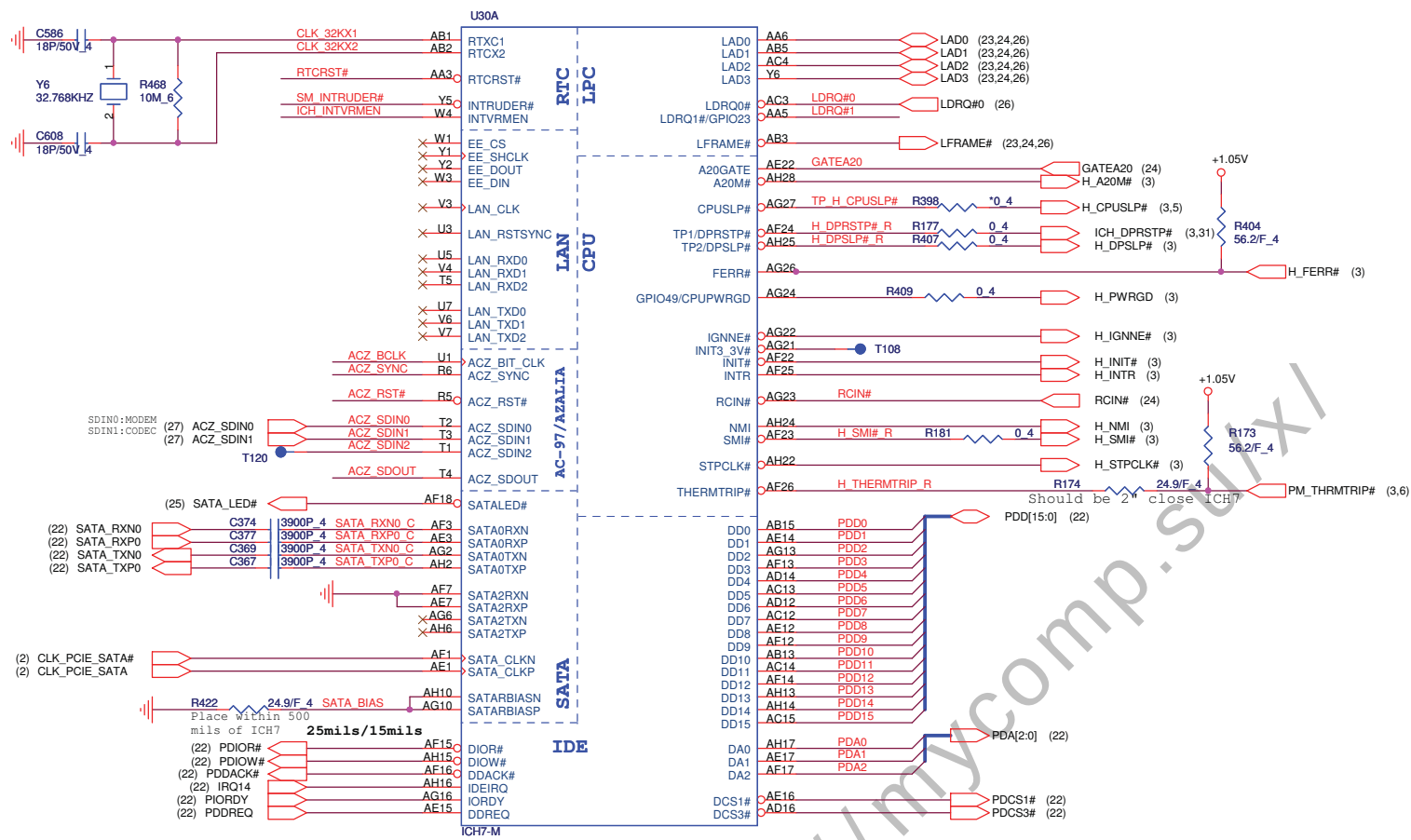


Layout note: Place one cap close to every 2 pullup resistors terminated to SMDDR_VTERM

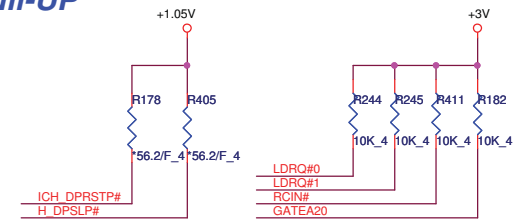
R_A_MA[0..13] (7,9)

R_B_MA[0..13] (7,9)

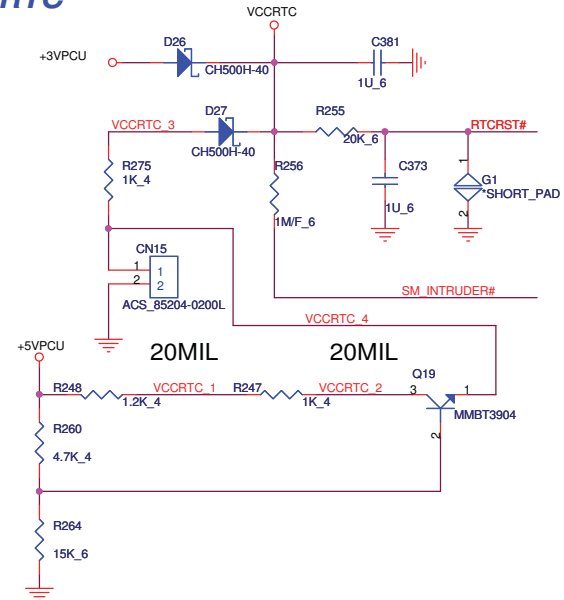




Pull-UP

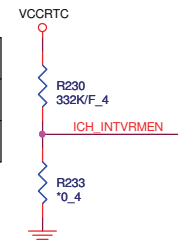


RTC



ICH7 internal VR enable strap

	INTVRMEN
Enable (default)	1
Disable	0

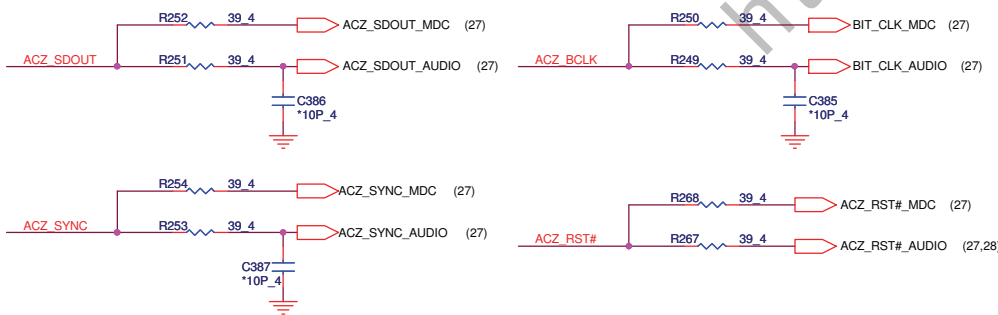


PROJECT : ZU2
Quanta Computer Inc.

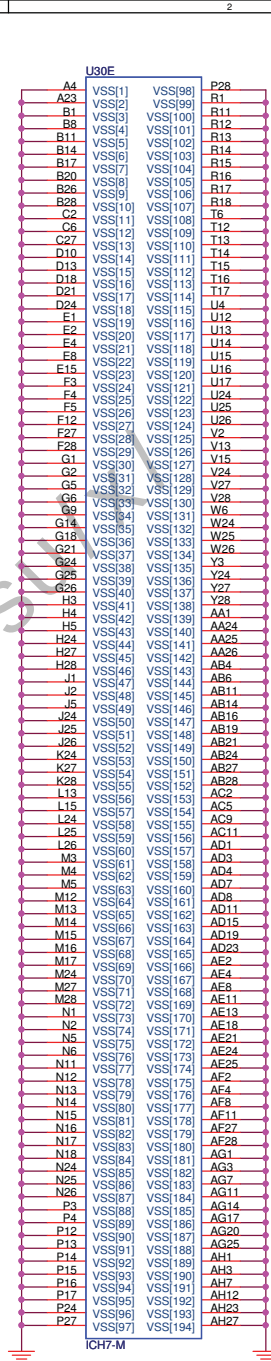
Size	Document Number	Rev
	ICH7-M (CPU, SATA, IDE,LPC)	1A

Date: Thursday, March 22, 2007 Sheet 11 of 39

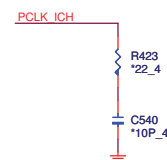
HDA interface



COMPONENTS	P/N
945GM	AJSL8Z20T25
ICH7-M	AJSL8YB0T21

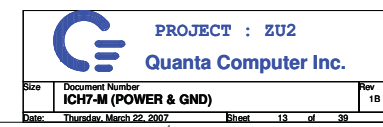


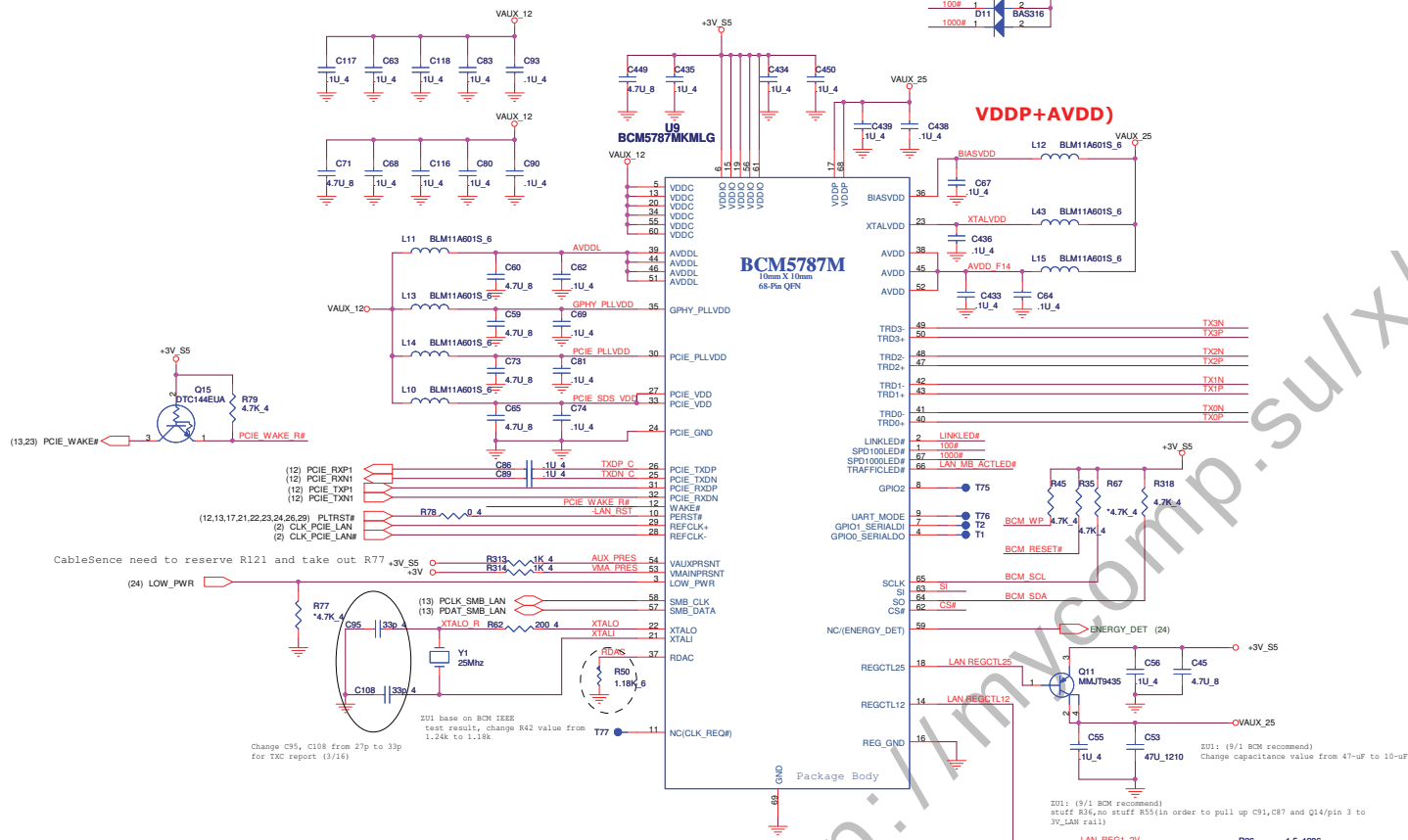
CKL use 10Kohm



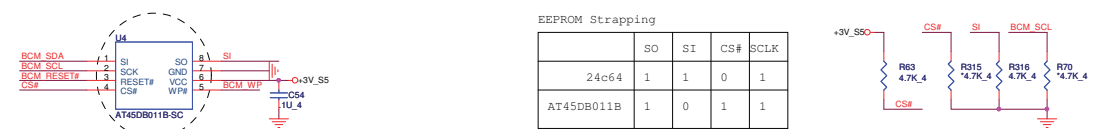
(3.6.31) DELAY_VR_PWRGOOD
(24) PWROK_EC

MB_ID2 MB_ID1 MB_ID0 MB_TYPE

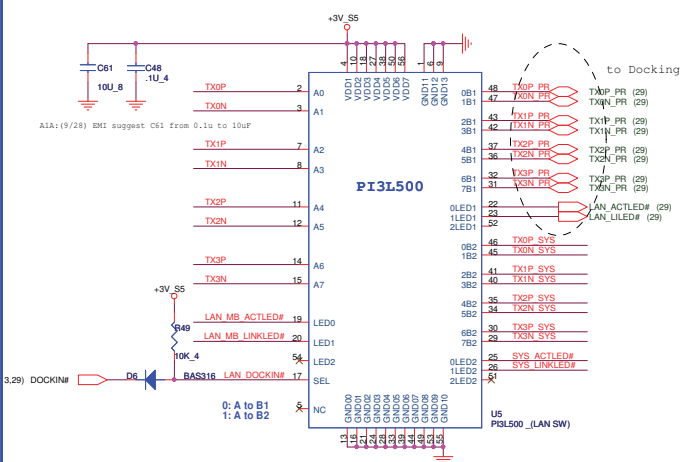
[illegible]



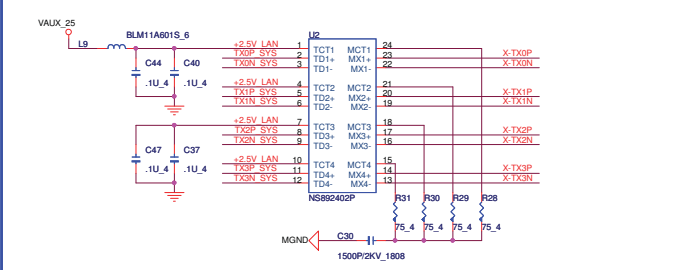
Flash ROM/EEPROM



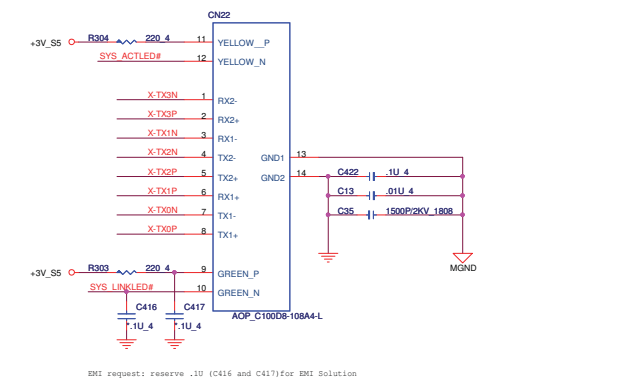
LAN Switch



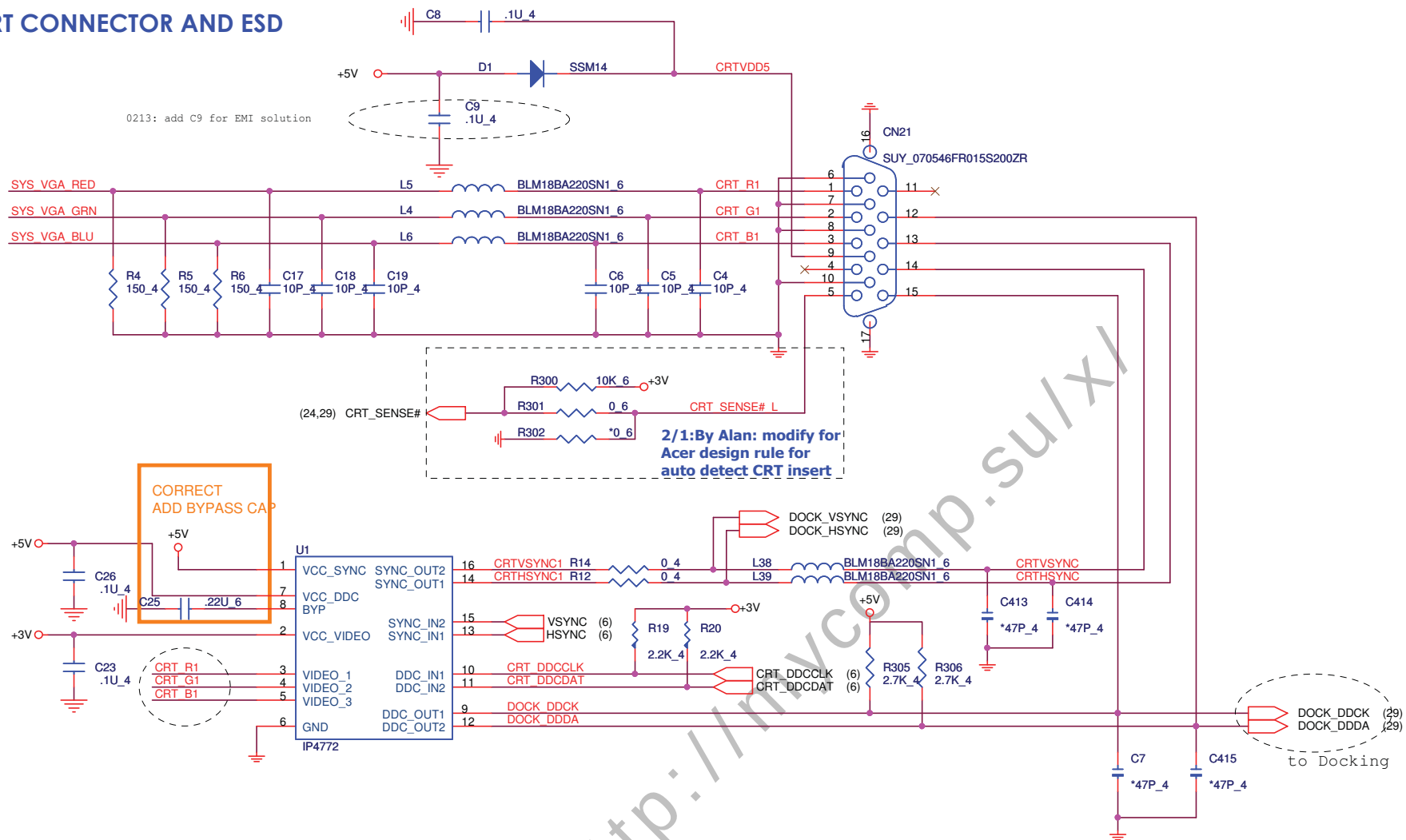
LAN Transformer



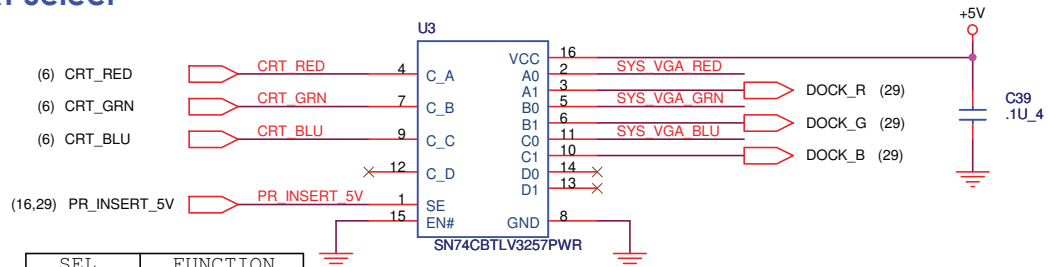
RJ45



CRT CONNECTOR AND ESD



CRT Select

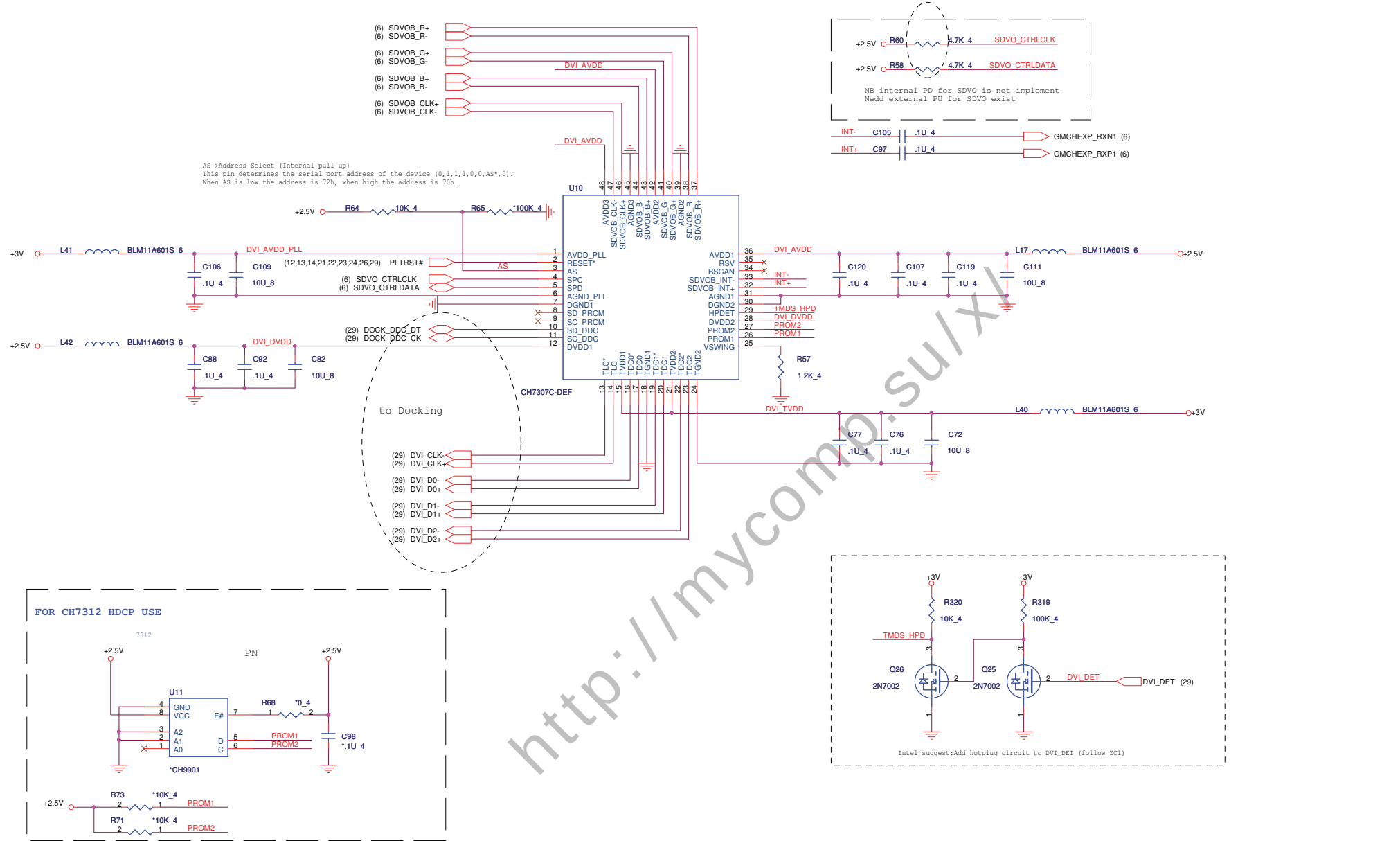


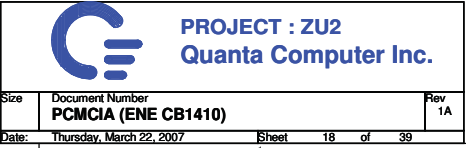
SEL	FUNCTION
LOW	IN_0
HIGH	IN_1



PROJECT : ZU2
Quanta Computer Inc.

Size	Document Number CRT	Rev 1A
Date:	Thursday, March 22, 2007	Sheet 15 of 39



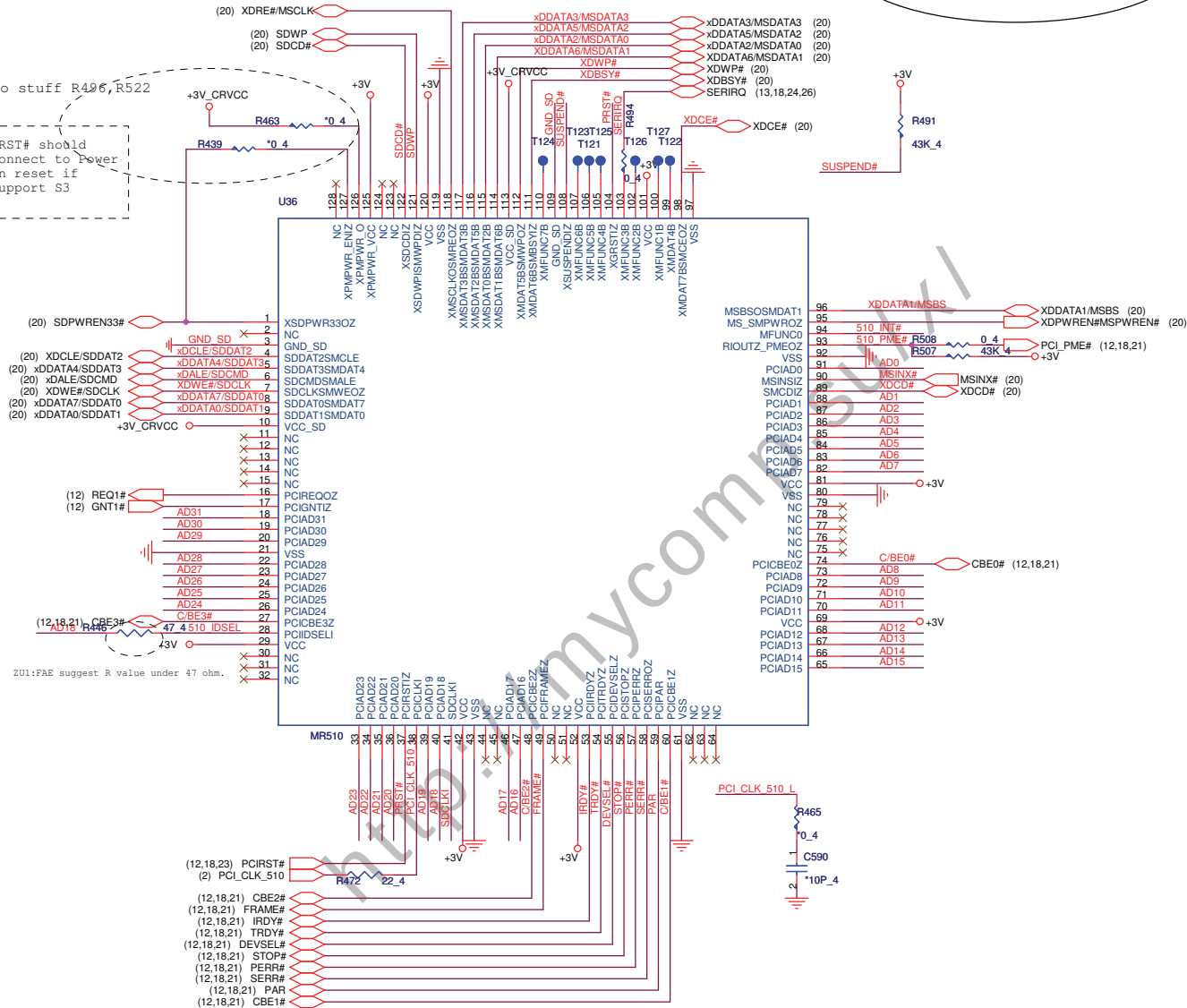


ID Select : AD18
 Interrupt Pin : INTG#
 Request Indicate : REQ1#
 Grant Indicate : GNT1#

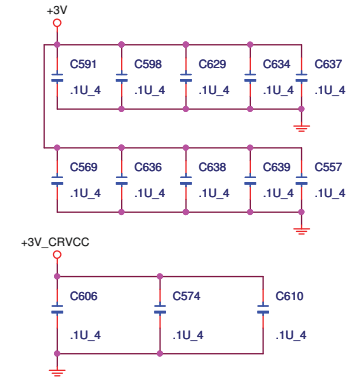
ZU1: no stuff R496, R522

GRST# should connect to Power
 On reset if support S3

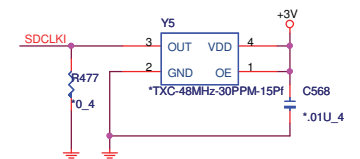
(12,18,21) AD[31..0]



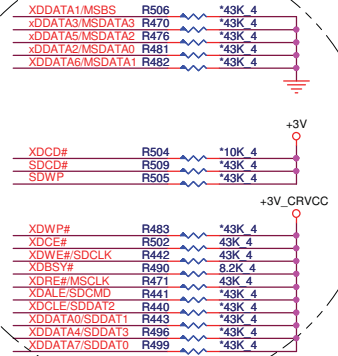
Decoupling CAP.



48MHz CLK



PU/PD



0213: follow ZU1 for cost down issue with FAE

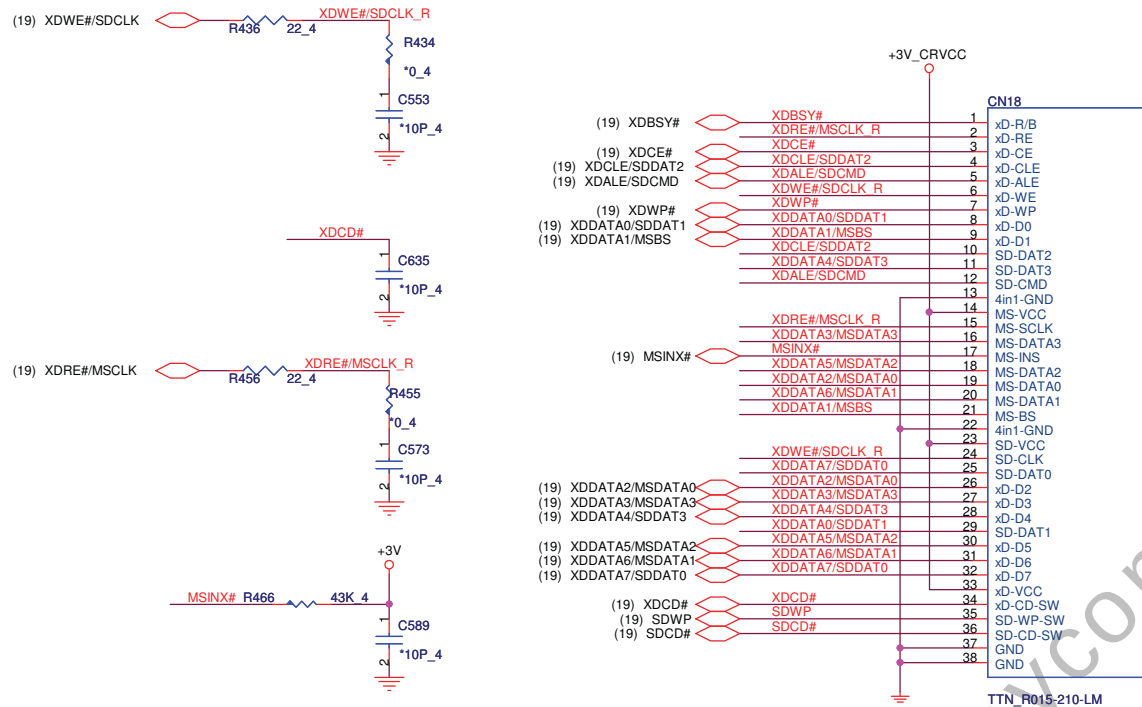


PROJECT : ZU2
 Quanta Computer Inc.

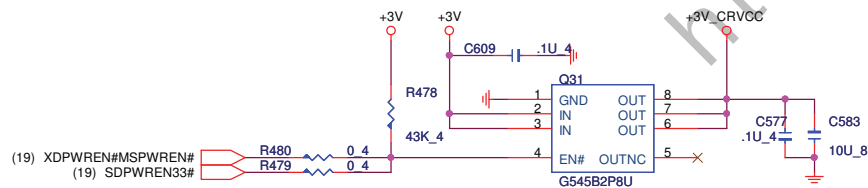
Size	Document Number	Rev
	Card Reader (MR510)	1B

Date: Wednesday, March 28, 2007 Sheet 19 of 39

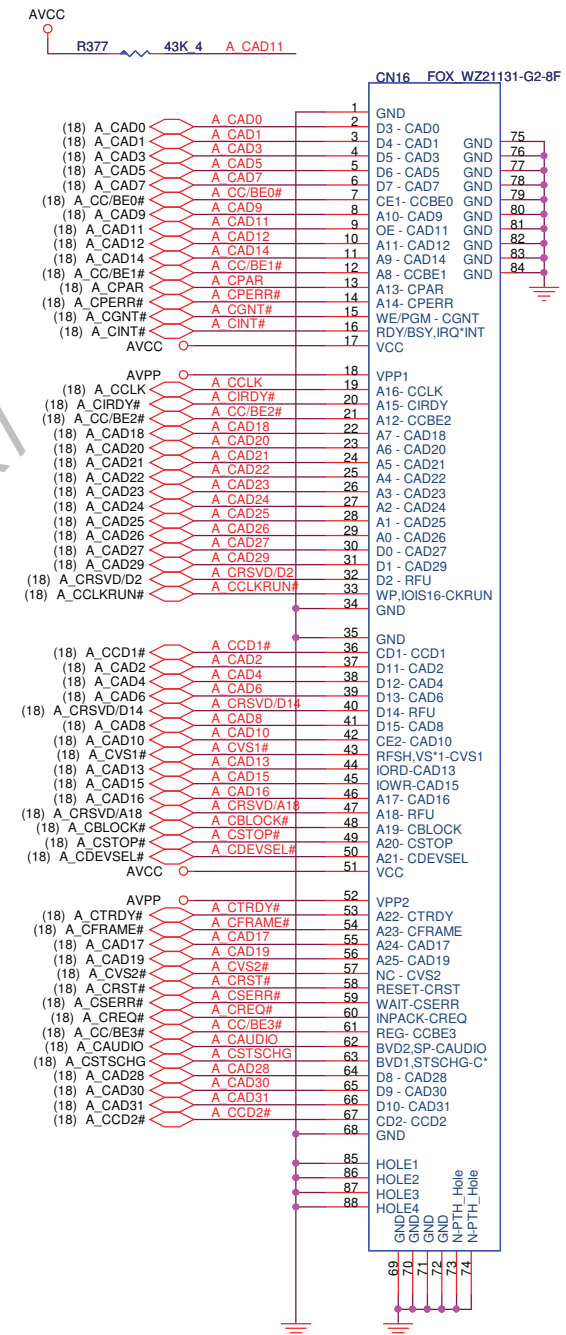
CardReader



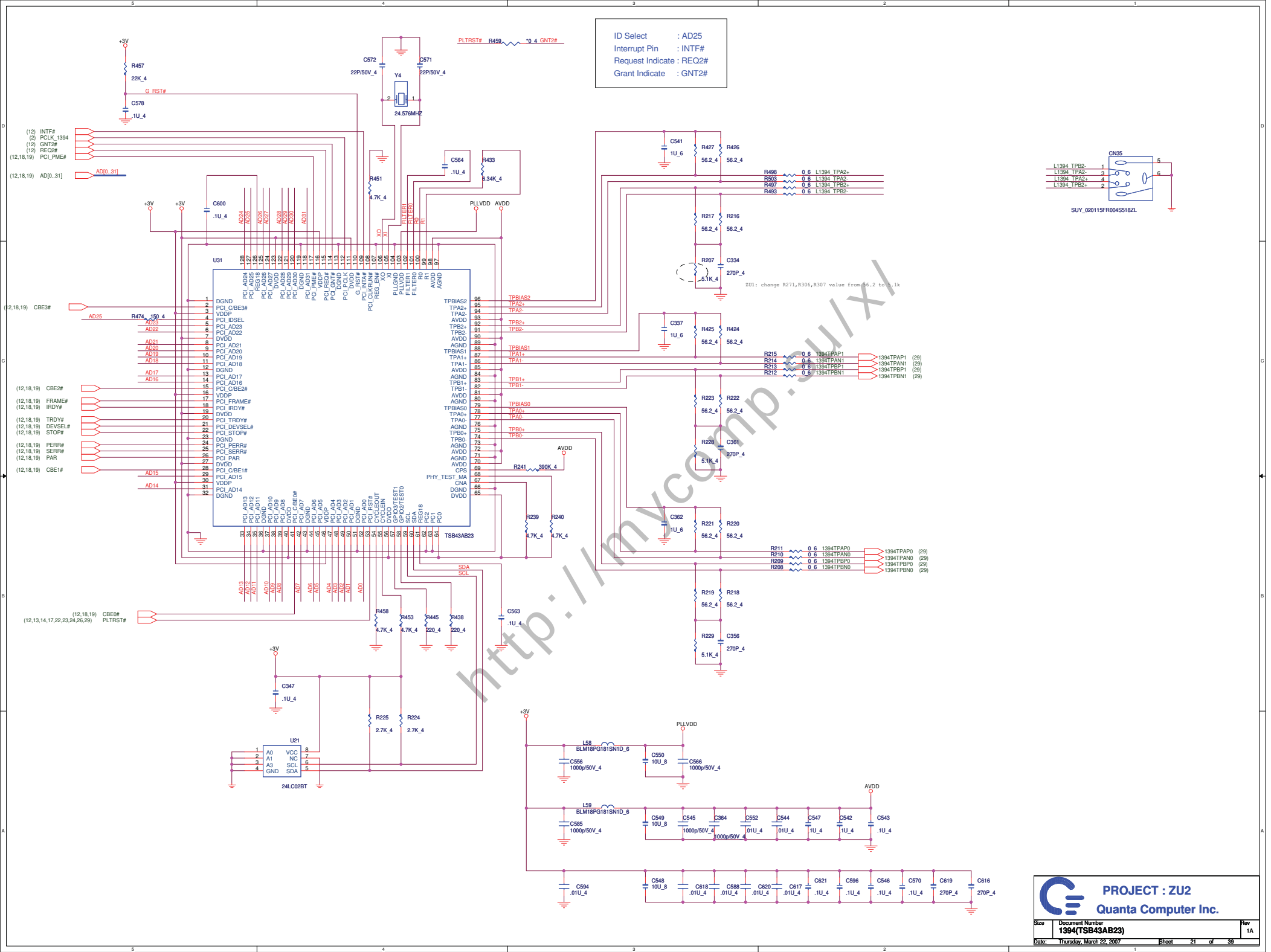
CardReader Power switch



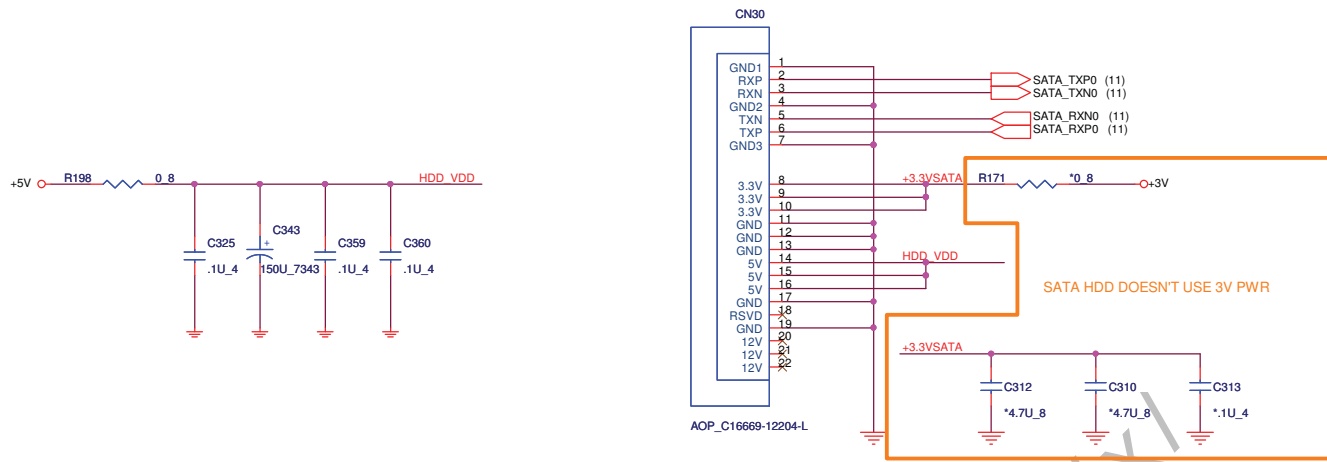
PCMCIA



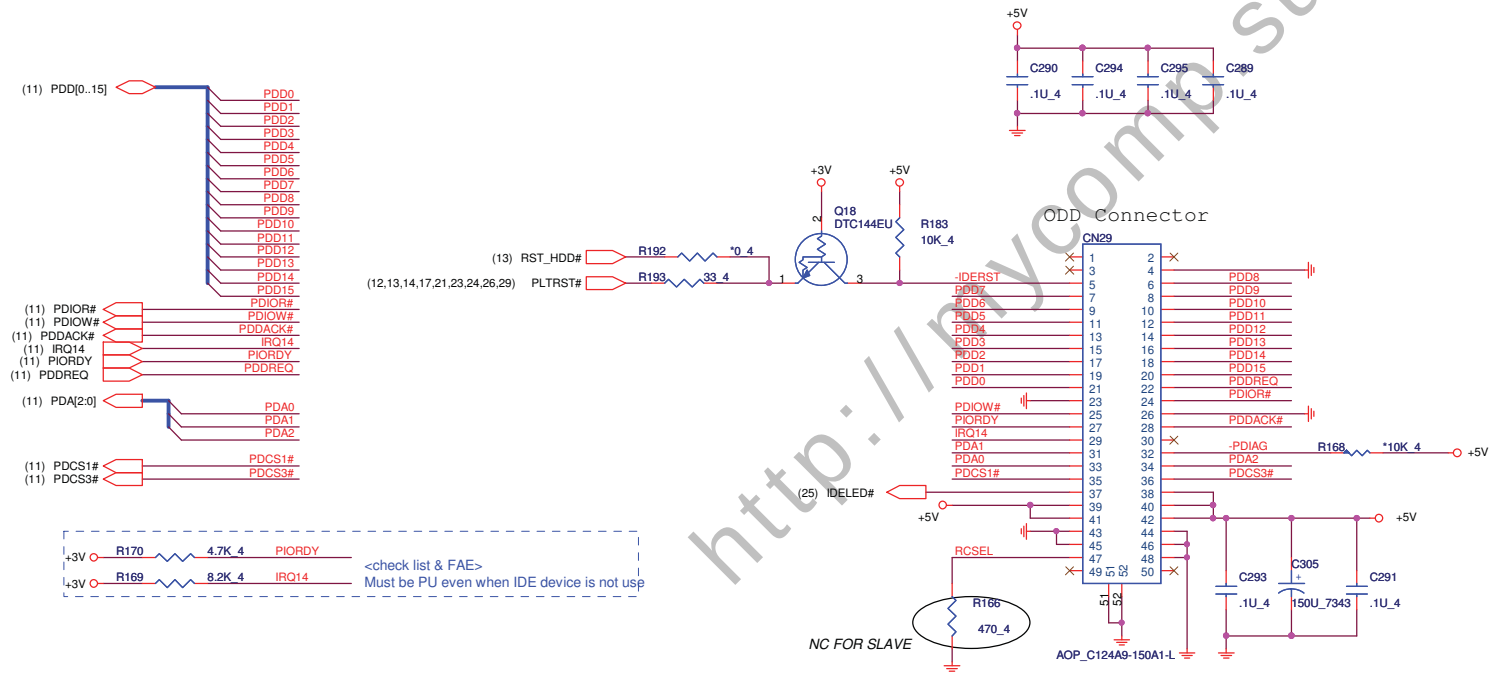
PROJECT : ZU2
Quanta Computer Inc.



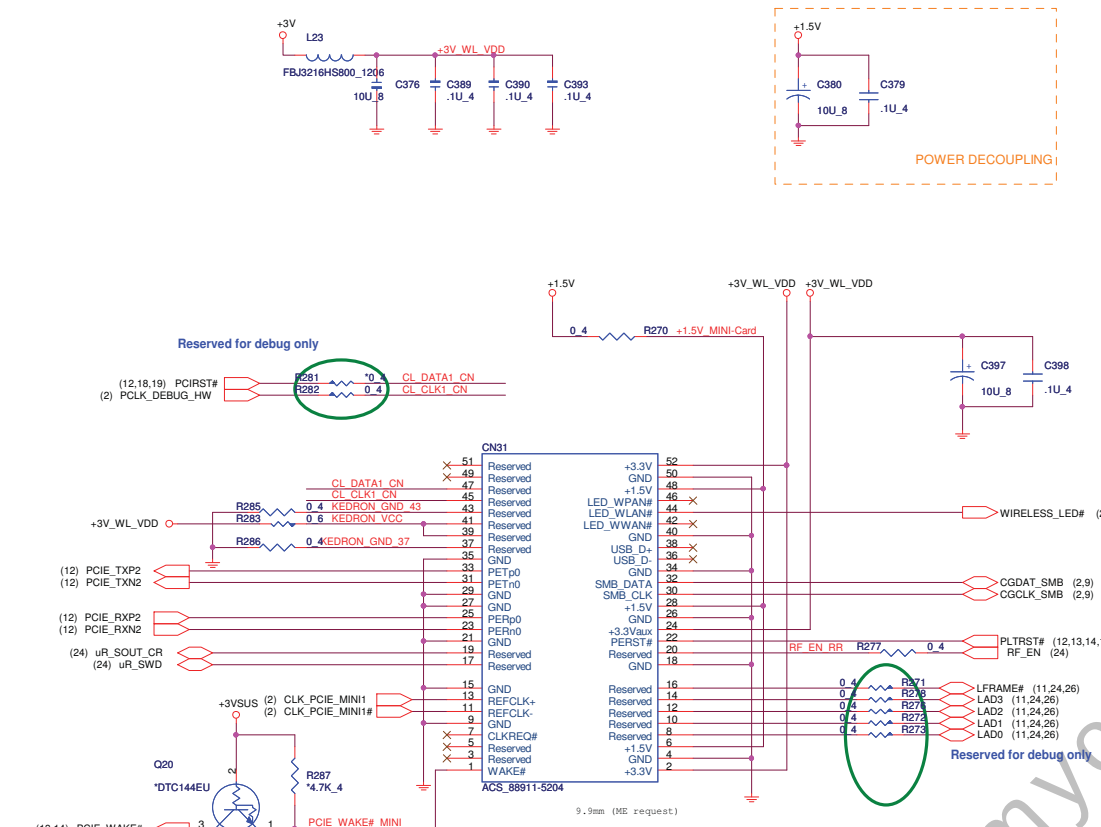
SATA HDD



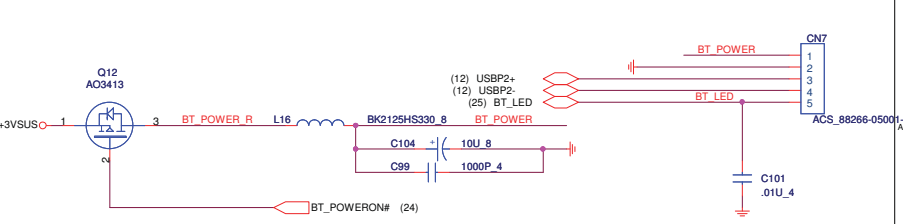
PATA ODD



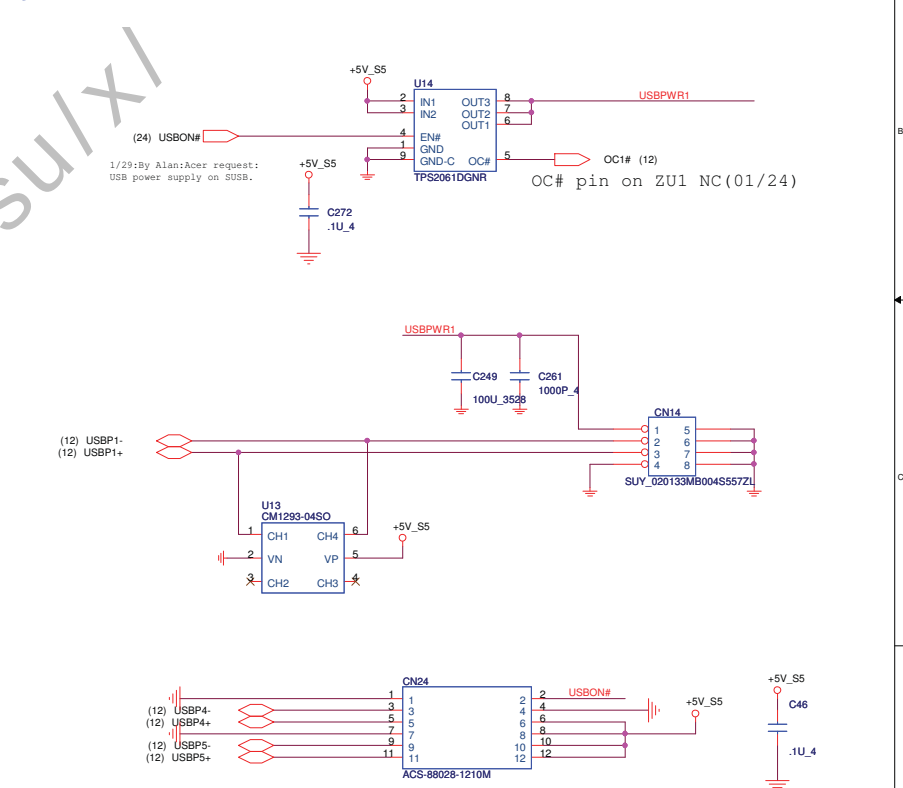
MINI-Card



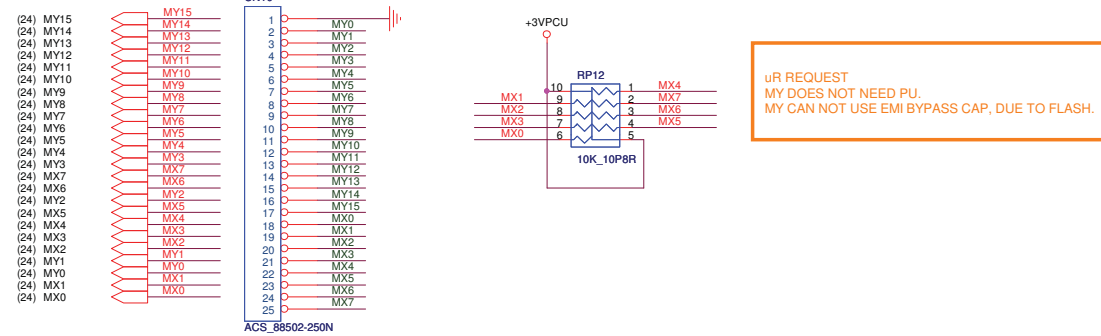
BLUETOOTH MODULE CONNECTOR



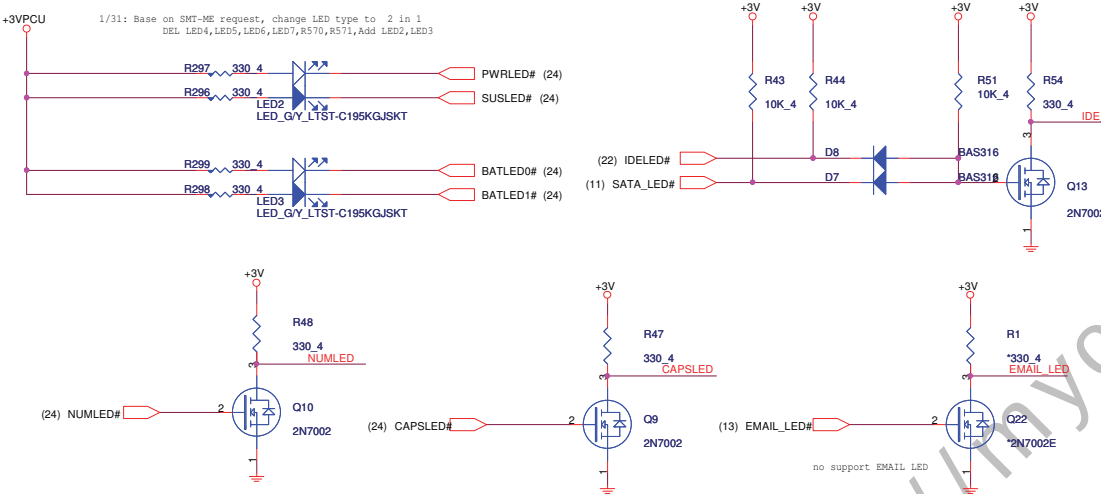
System USB



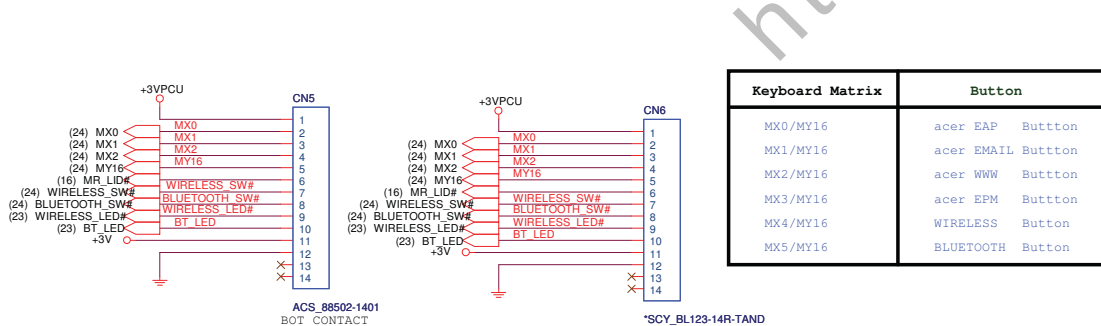
INT K/B



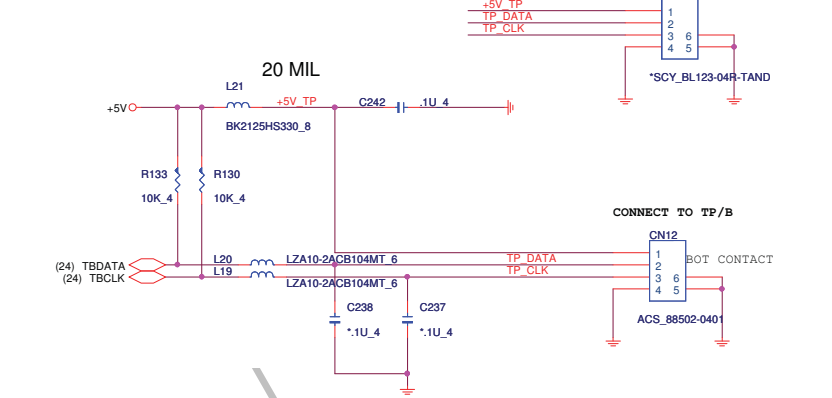
LED



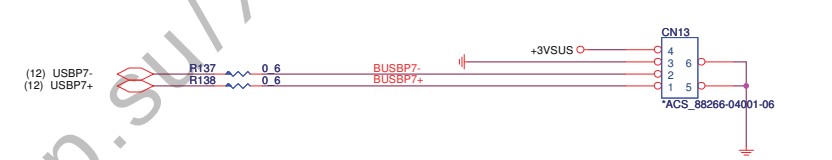
Function Board



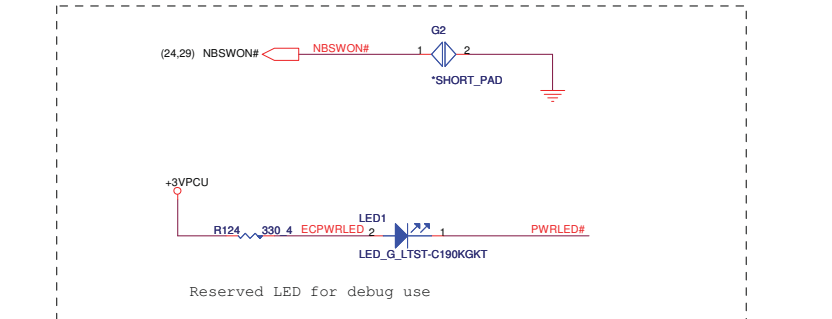
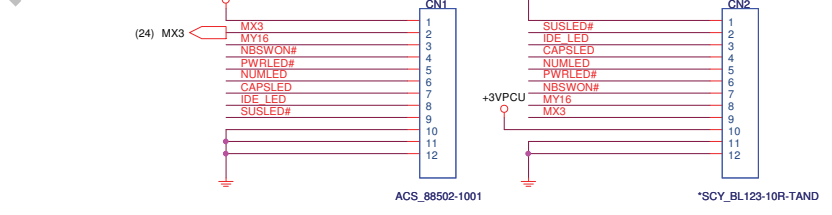
TOUCH PAD

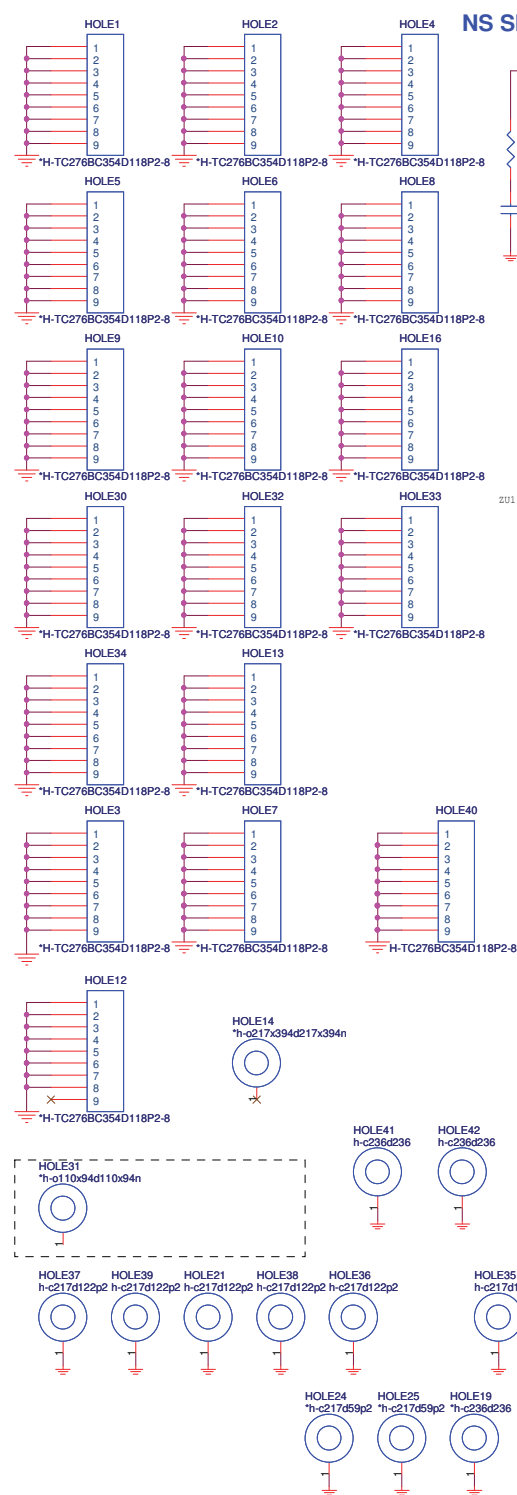


Finger Printer

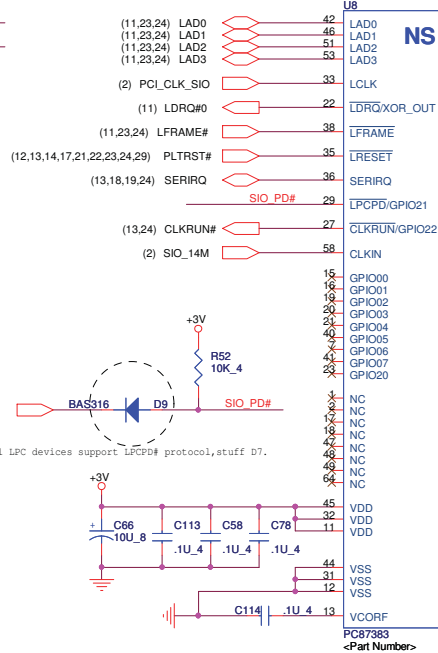
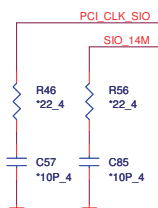


LED Board

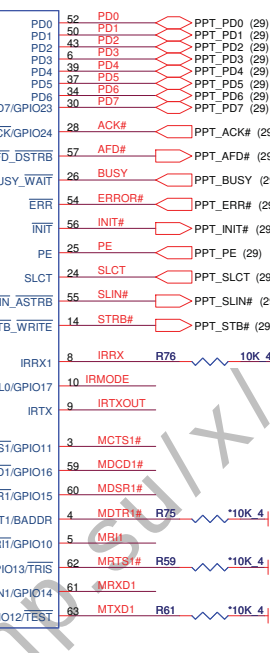




NS SIO PC87383



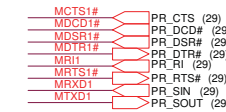
NS PC87383



OPEN : 164Eh~164Fh
LOW : 2Eh~2Fh

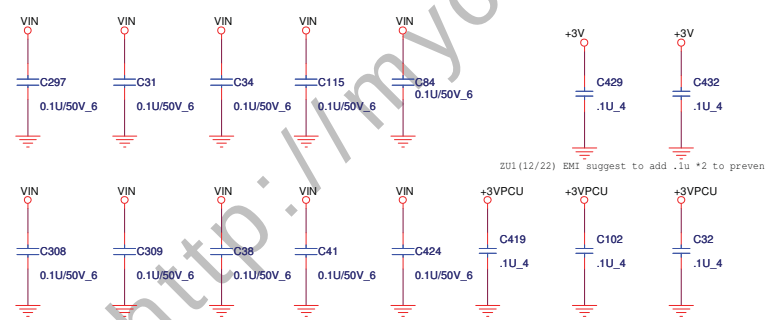
OPEN : normal pin operation
LOW : float device pin

OPEN : normal Device operation
LOW : XOR pin tree



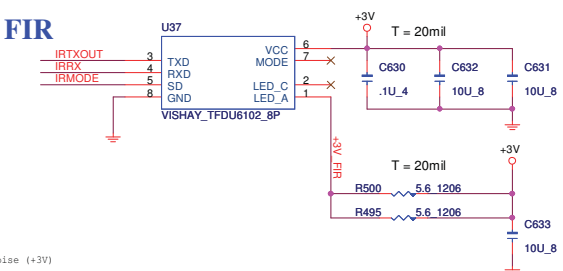
EMI Cap

EMI suggest :Add the VIN power shape bypass cap 0.1uF x 10pcs
Add the +3VPCU power traces bypass cap 0.1uF x 3pcs

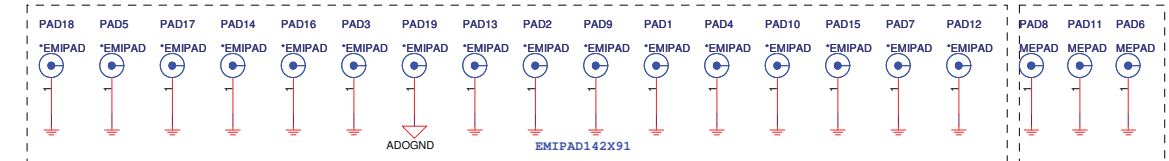


ZUI(12/22) EMI suggest to add .1u *2 to prevent noise (+3V)

FIR



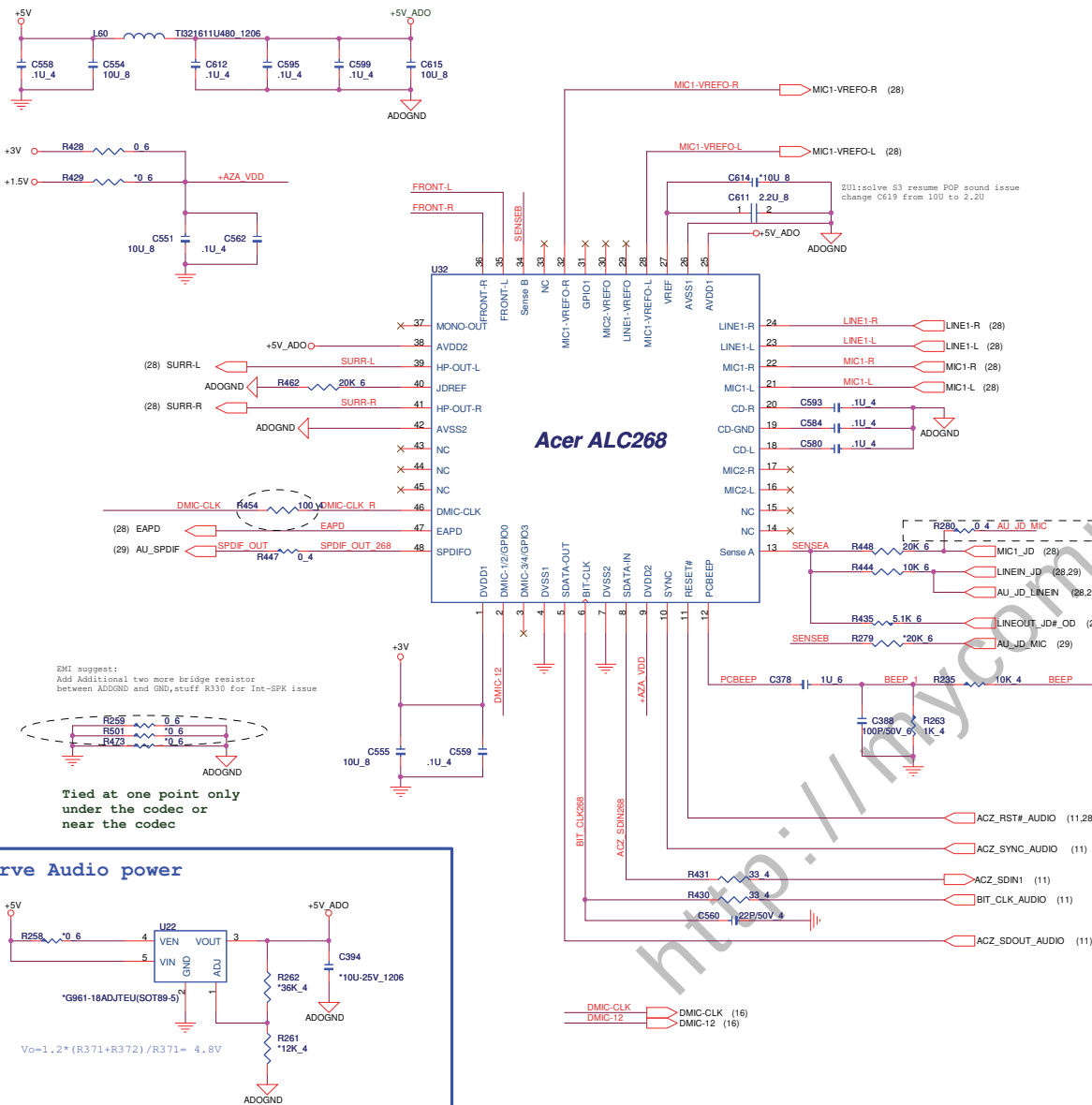
ESDPad



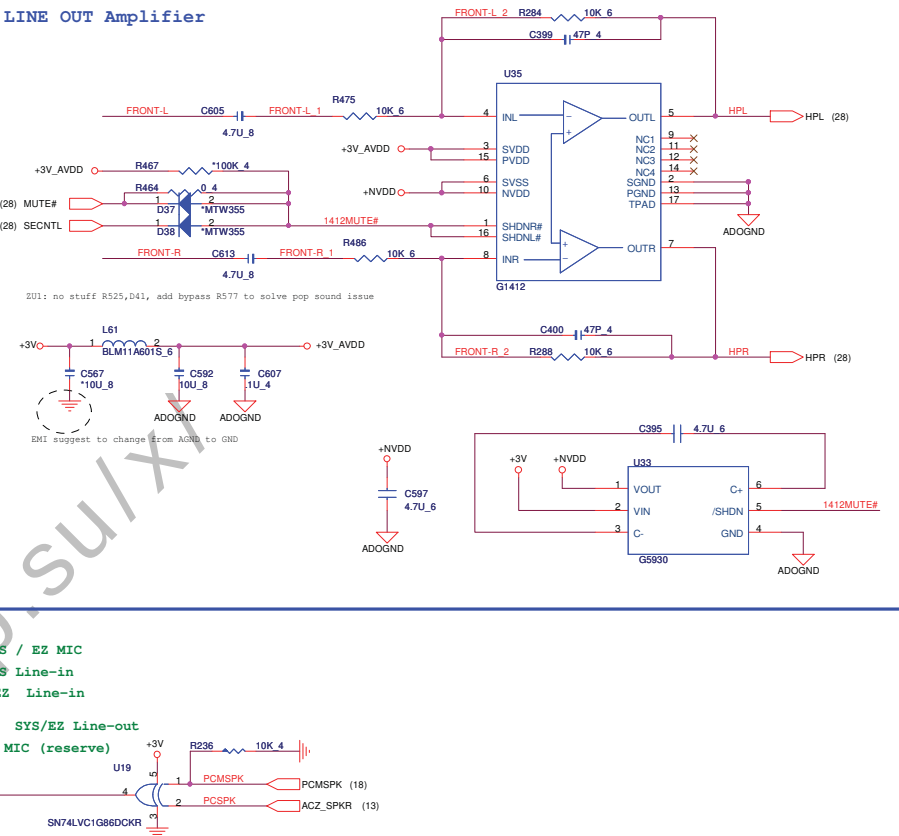
C2A: (12/22) EMI suggest add three clip to contact with CPU cooler's fins (PAD23, 24, 25)

C2A: (12/22) Add three PAD per ME request (fix wire)

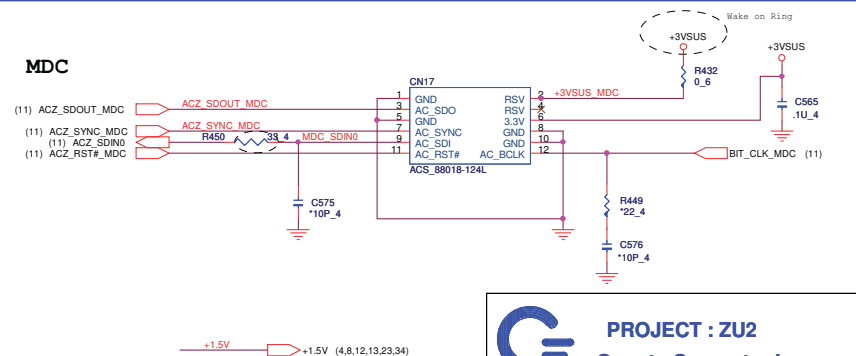
CODEC (ALC268)



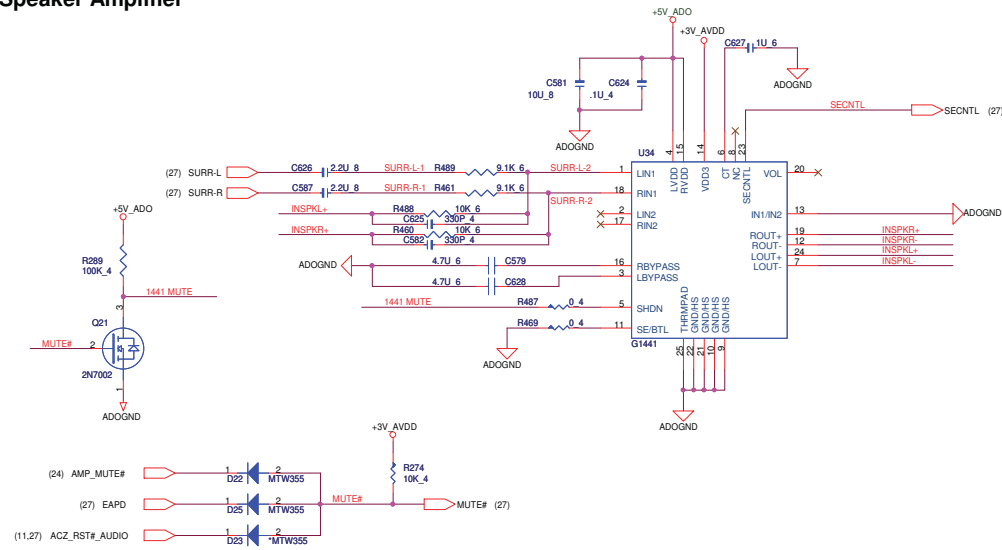
LINE OUT Amplifier



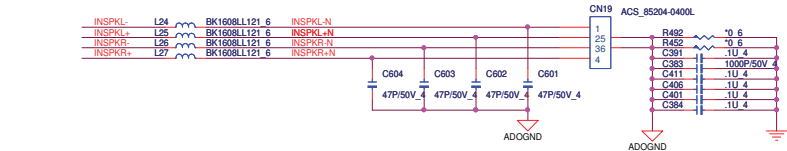
MDC



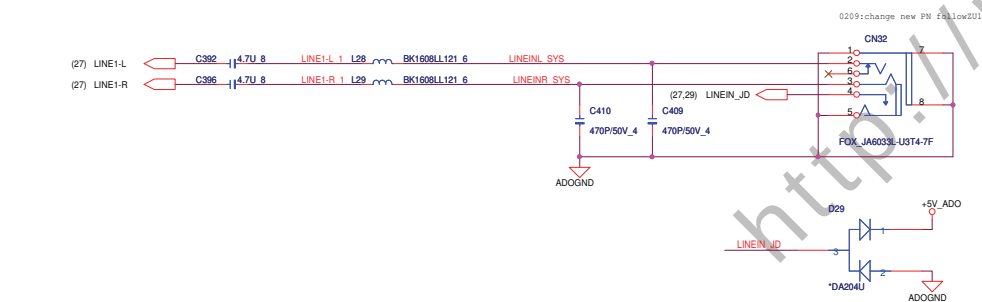
Speaker Amplifier



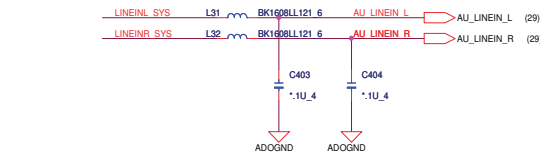
SPEAKER



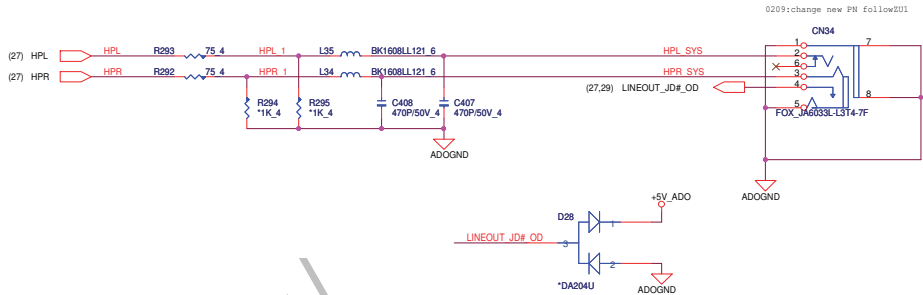
SYSTEM LINE IN



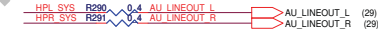
Docking LINE IN



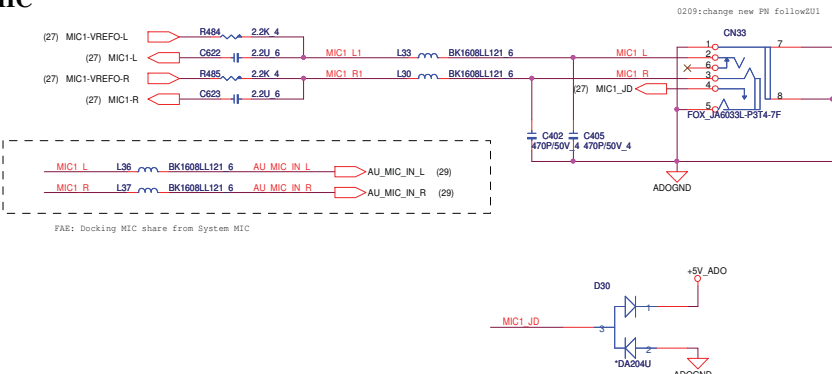
SYSTEM LINE OUT

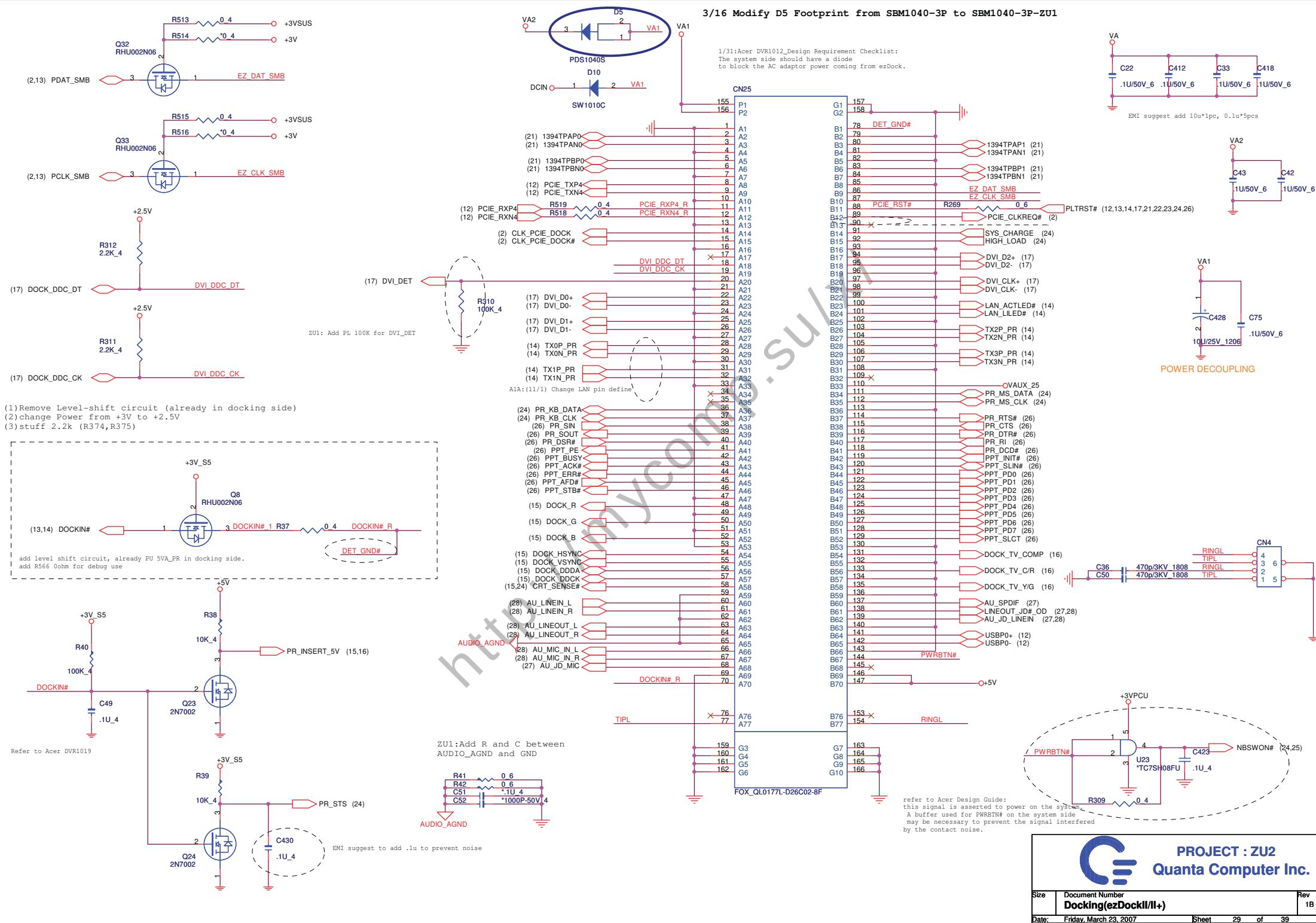


Docking LINE OUT/SPDIF



SYSTEM MIC





3/16 Modify D5 Footprint from SBM1040-3P to SBM1040-3P-ZU1

1/31:Acer DVR1012_Design Requirement Checklist:
The system side should have a diode to block the AC adaptor power coming from ezDock.

EMI suggest add 10u*1pc, 0.1u*5pcs

POWER DECOUPLING

refer to Acer Design Guide:
this signal is asserted to power on the system.
A buffer used for PWRBTN# on the system side
may be necessary to prevent the signal interfered
by the contact noise.

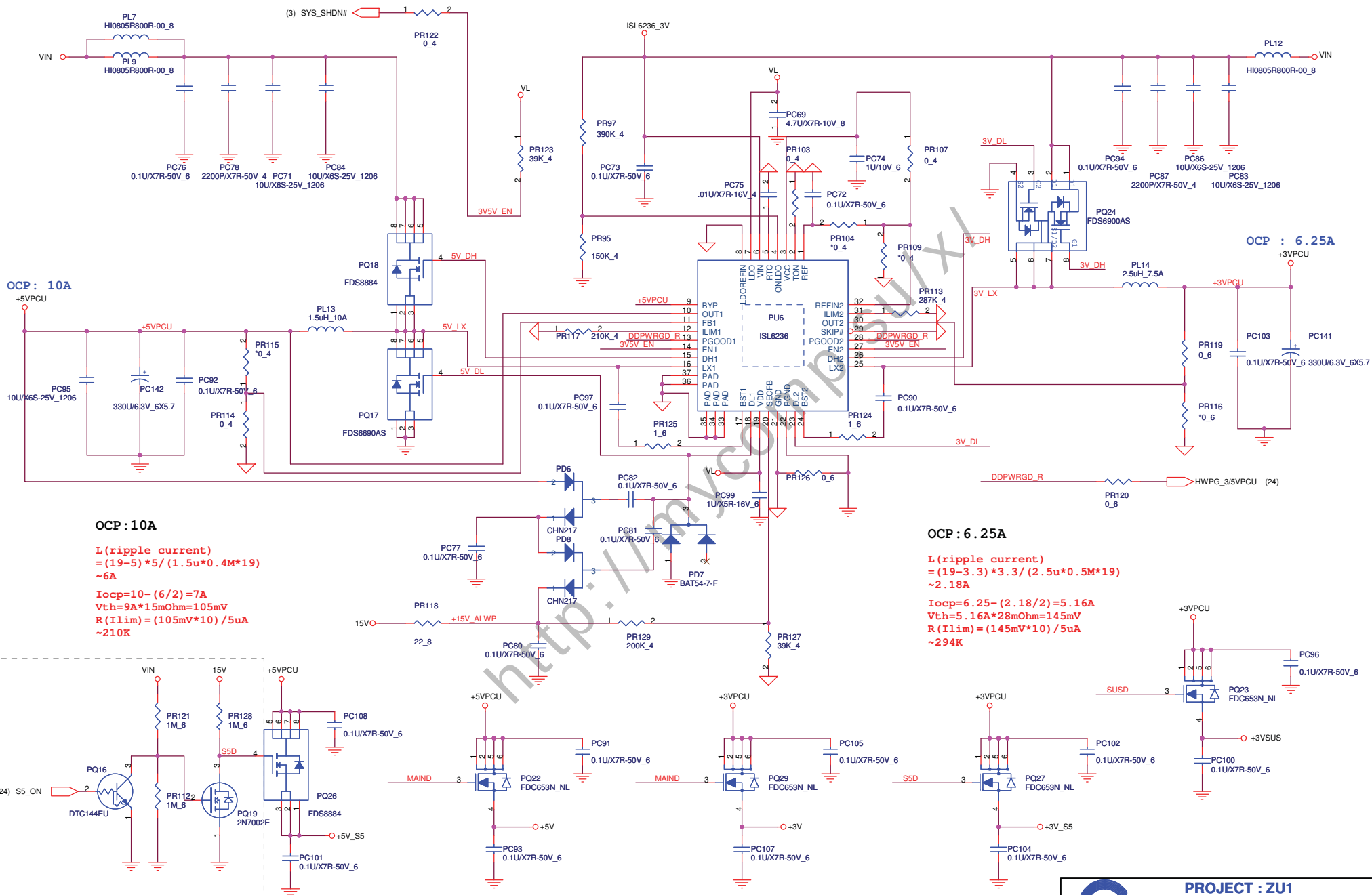


PROJECT : ZU2
Quanta Computer Inc.

Size	Document Number	Rev
	Docking(ezDockII/II+)	1B
Date:	Friday, March 23, 2007	Sheet 29 of 39

MAIND (34)

SUSD (34)



OCP : 10A

OCP : 10A

$L(\text{ripple current}) = (19-5) * 5 / (1.5u * 0.4M * 19)$
~6A

$I_{ocp} = 10 - (6/2) = 7A$
 $V_{th} = 9A * 15m\Omega = 105mV$
 $R(I_{lim}) = (105mV * 10) / 5uA$
~210K

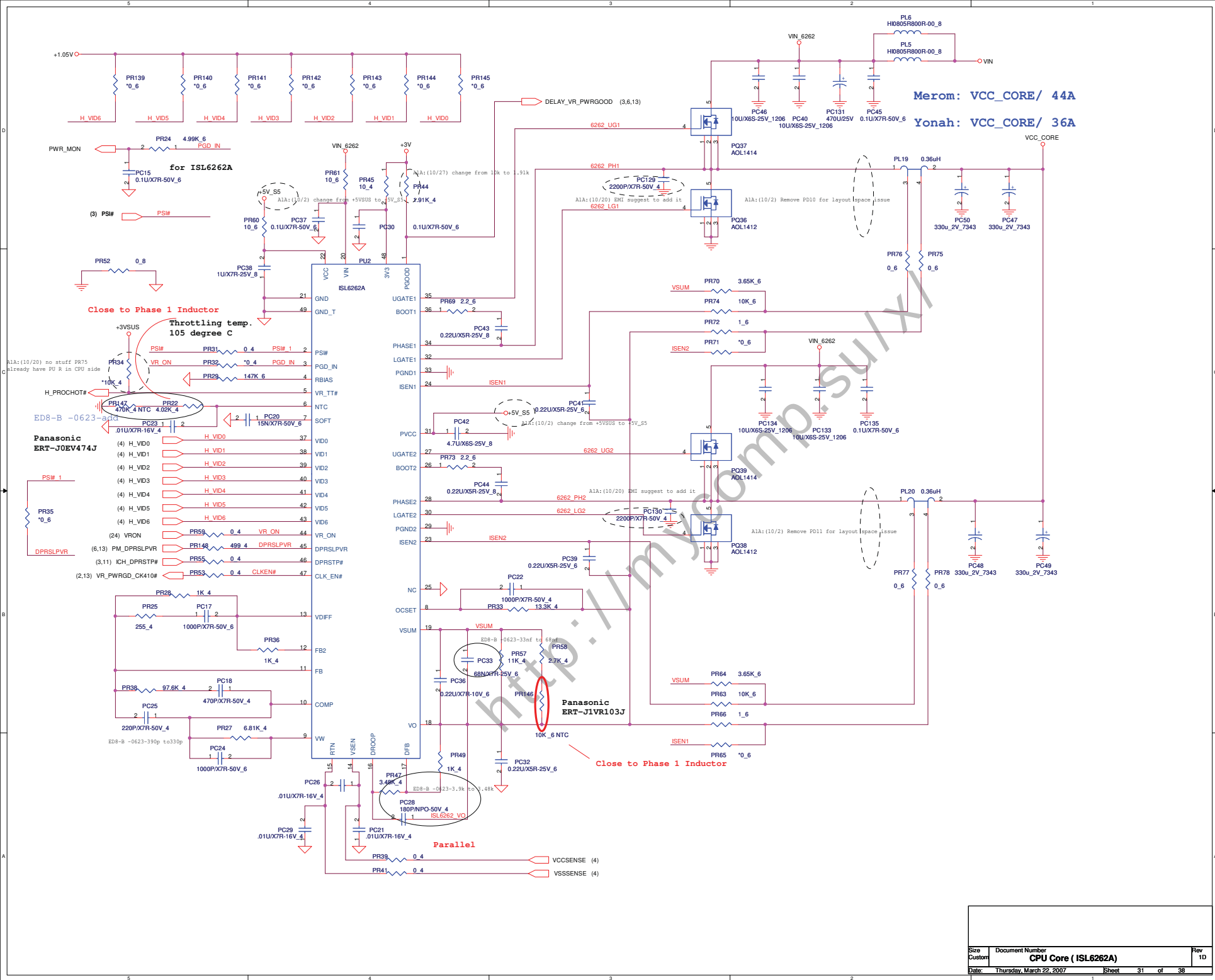
OCP : 6.25A

$L(\text{ripple current}) = (19-3.3) * 3.3 / (2.5u * 0.5M * 19)$
~2.18A

$I_{ocp} = 6.25 - (2.18/2) = 5.16A$
 $V_{th} = 5.16A * 28m\Omega = 145mV$
 $R(I_{lim}) = (145mV * 10) / 5uA$
~294K

C2A: (12/10) change S5_ON control circuit

B1C: (11/29) Change PQ26 from FDS6690AS (BAM66900022) to FDS8884 (BAM88840006)

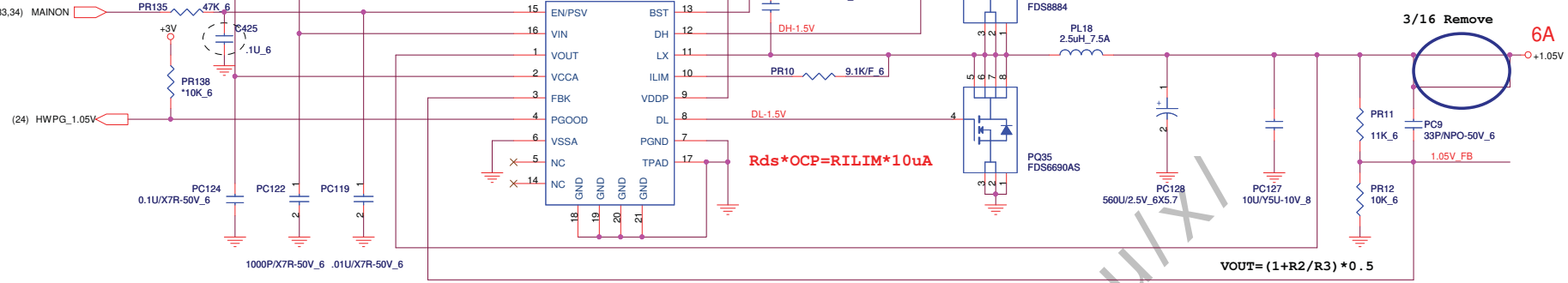


B1C:(11/30) T211 Power sequence issue
(1)change PR134 from 0 ohm to 47k ohm.
(2)stuff C448 0.1uF

A1A:(10/18) Reserve .1uF

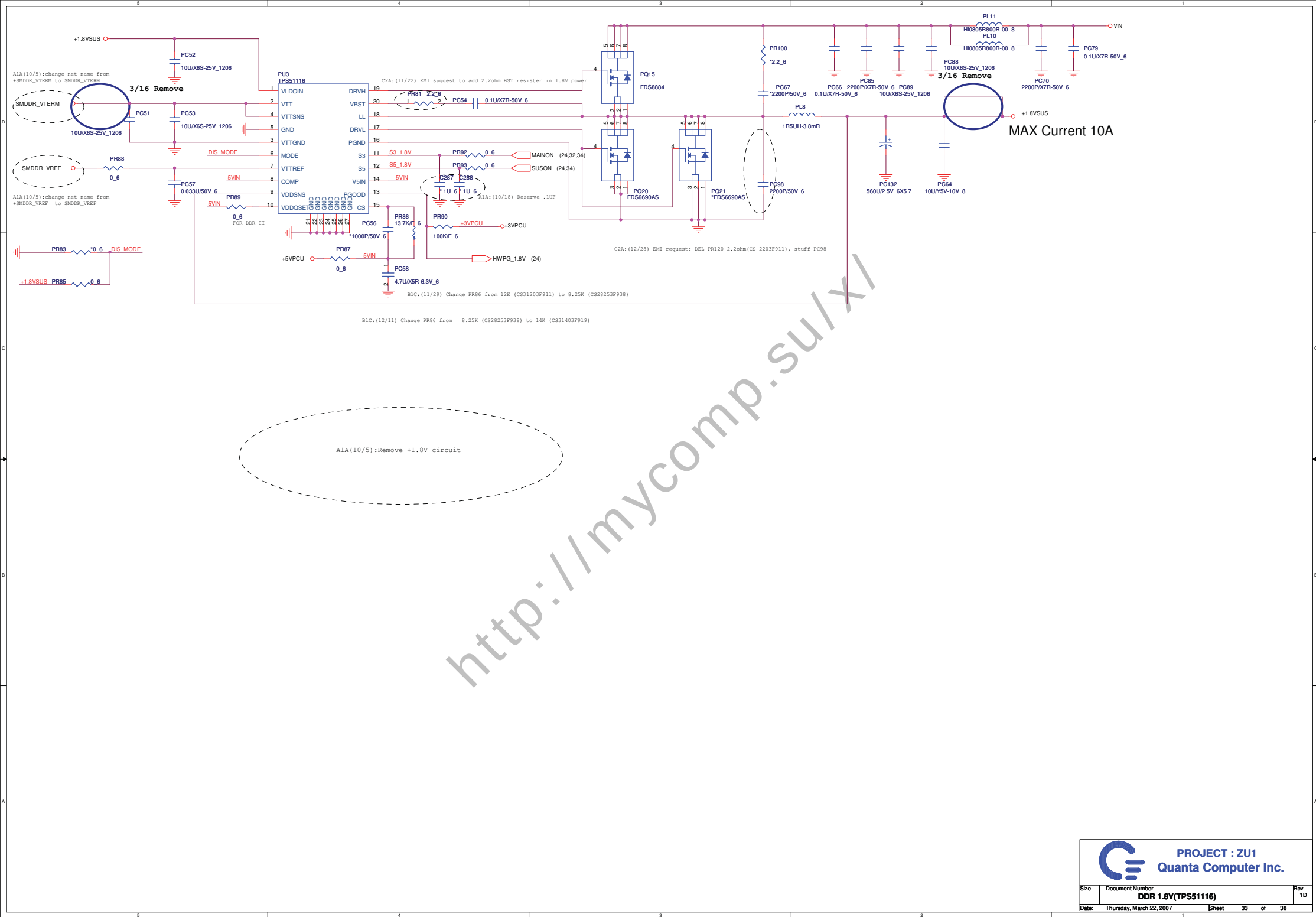
A1A:(10/2) change from +5VSUS to +5V_S5

B1C:(11/29) Change PR8 from 20K(CS32003P933) to 6.65K ohm (CS26653P911)



PROJECT : ZU1
Quanta Computer Inc.

Size	Document Number	Rev
	VTT 1.05V (SC411)	1D
Date:	Thursday, March 22, 2007	Sheet 32 of 38



3/16 Add fuse

