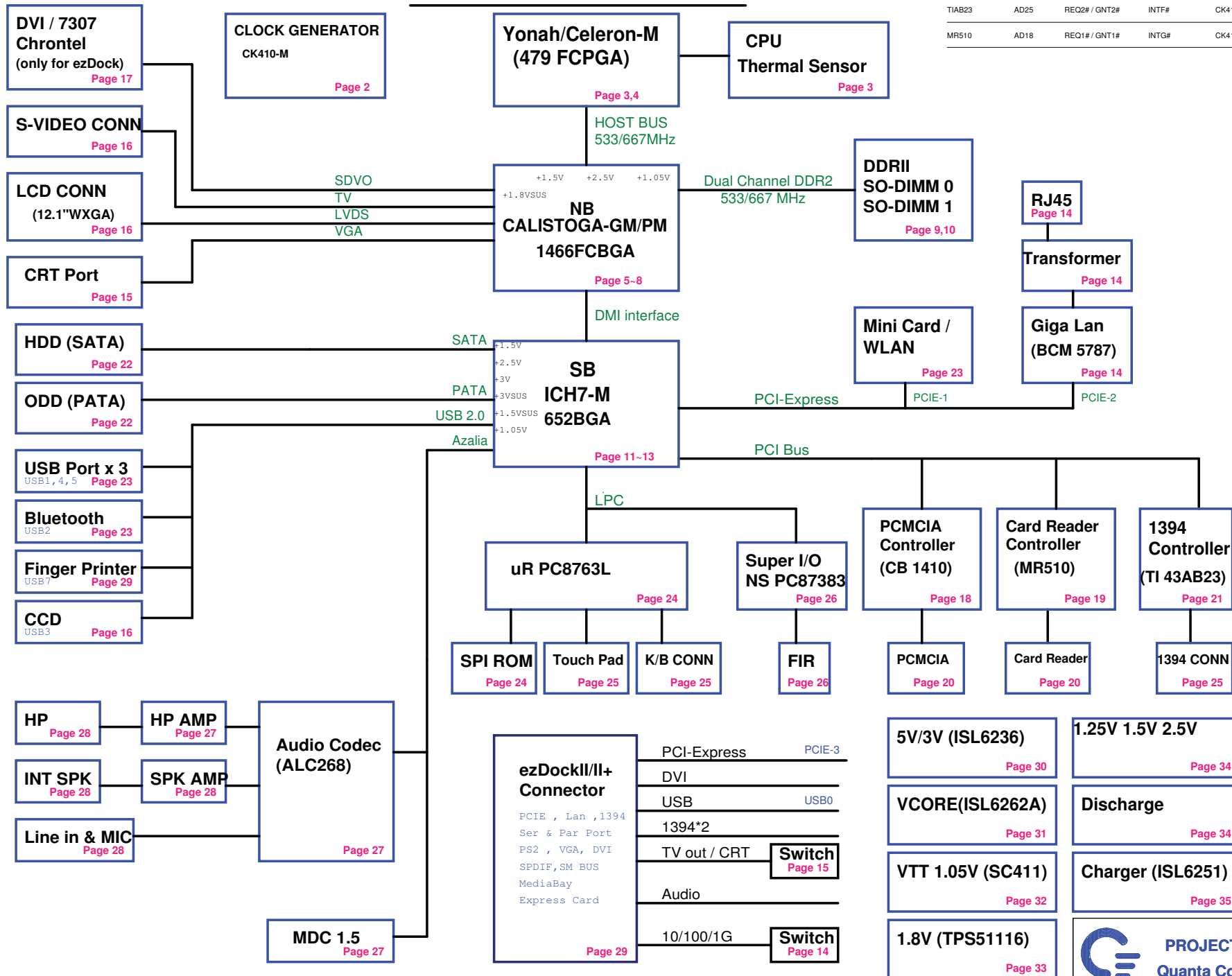
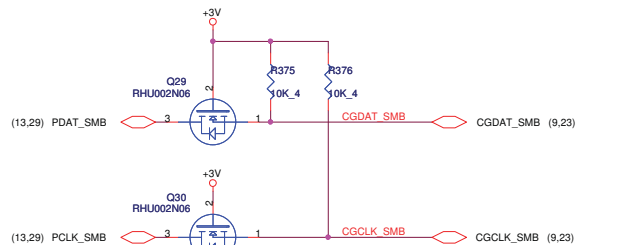
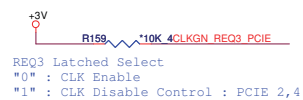
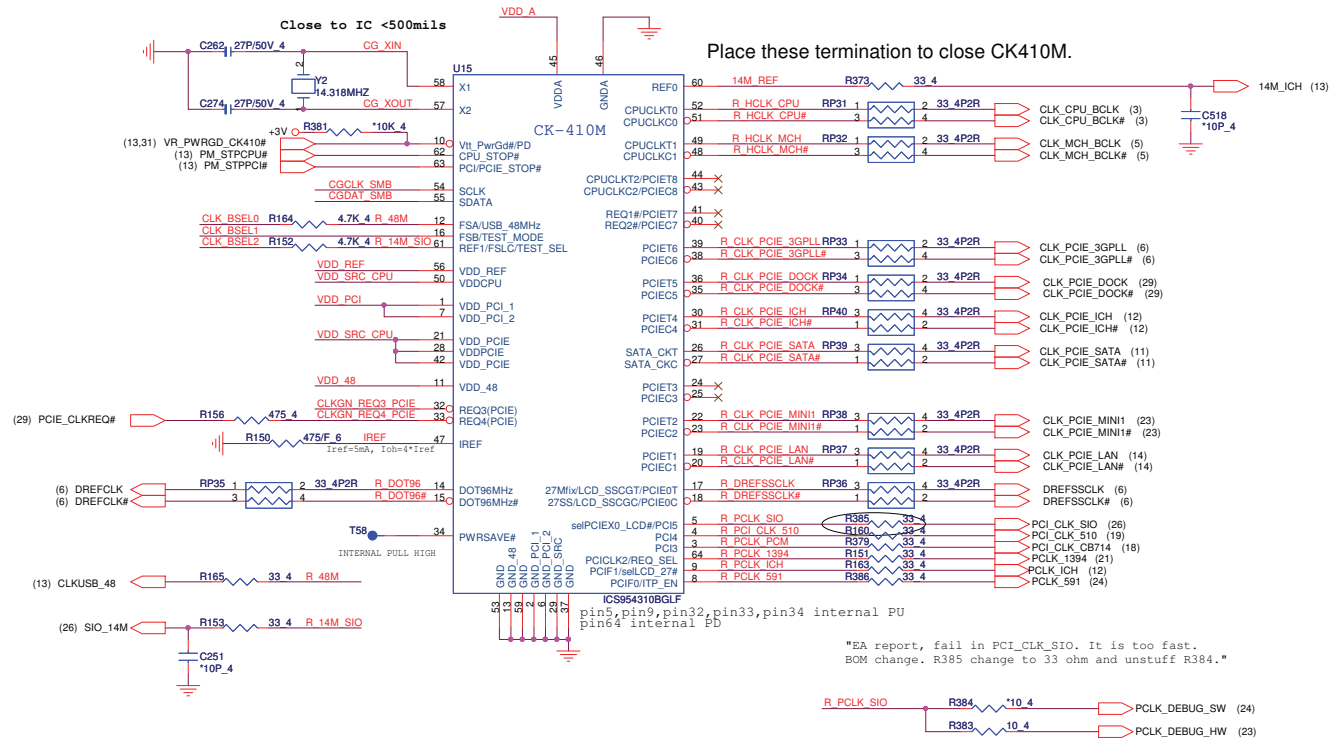
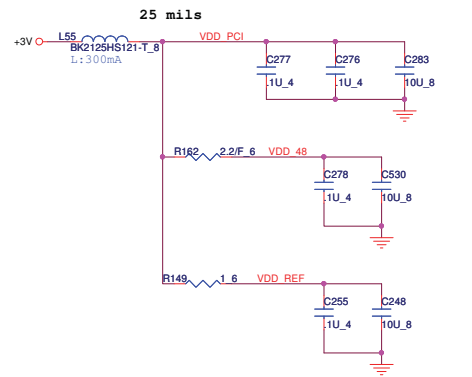


ZU2 SYSTEM BLOCK DIAGRAM

PCI DEVICE	IDSEL#	REQ# / GNT#	Interrupts	CLOCK
CB1410	AD17	REQ0# / GNT0#	INTE#	CK410/PC13
TIAB23	AD25	REQ2# / GNT2#	INTF#	CK410/PC18
MR510	AD18	REQ1# / GNT1#	INTG#	CK410/PC14

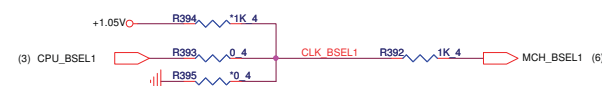




SEL2 SEL1 SEL0

FSC	FSB	FSA	CPU	SRC	PCI
1	0	1	100	100	33
0	0	1	133	100	33
0	1	1	166	400	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
(Intel915GM - Calistoga Interposer)
(if Calistoga is designed for 667MHz board).



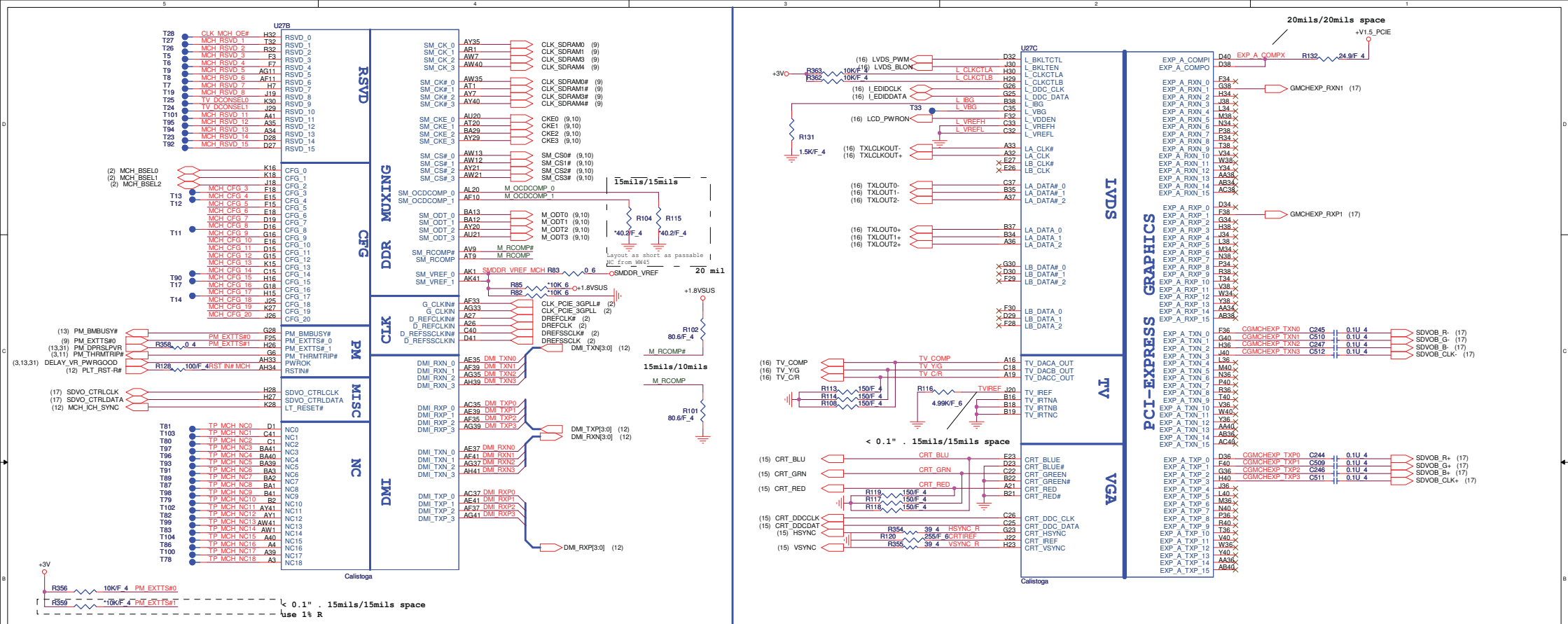
<http://hobi-elektronika.net>

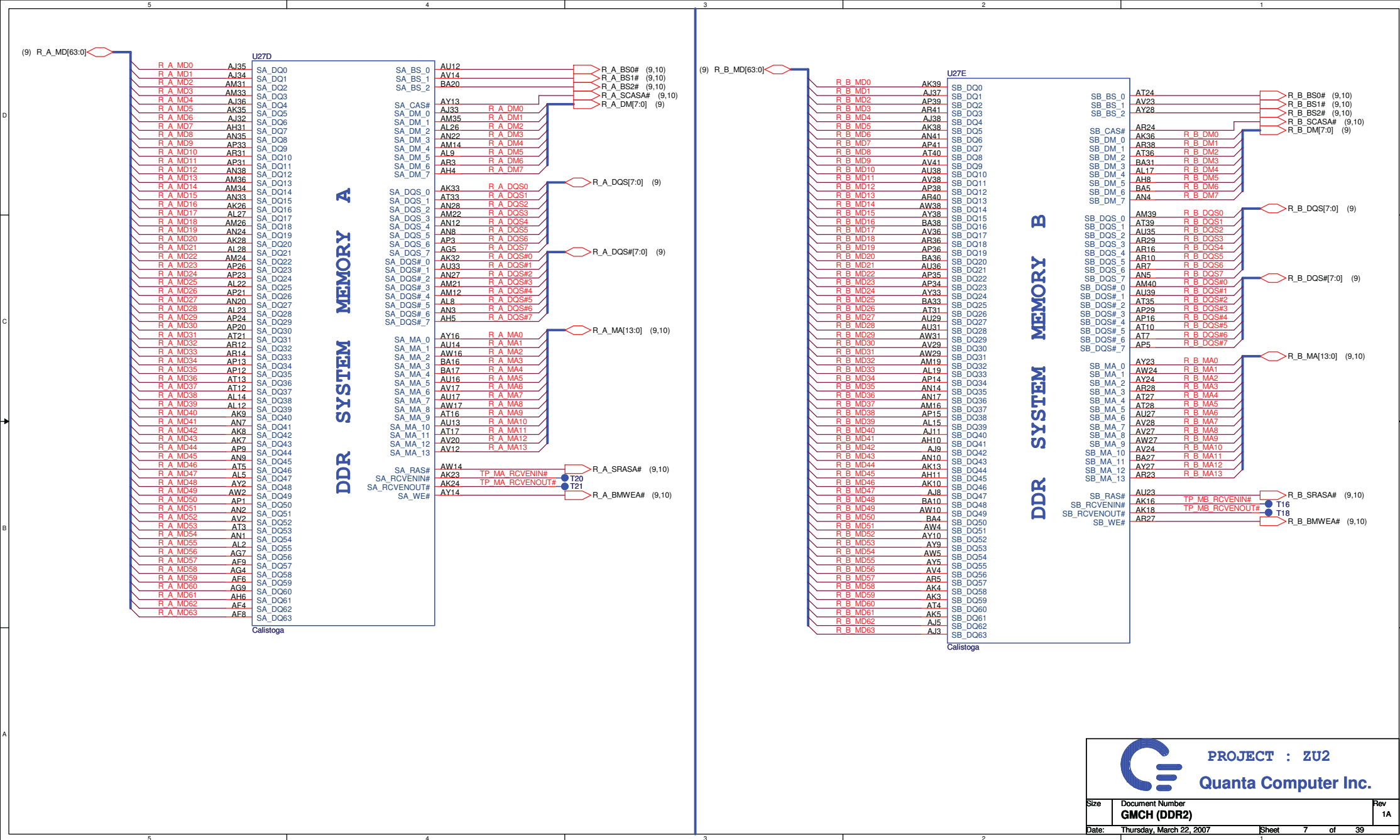
CLK CPU BCLK#	RP29	3	4	49.9	4P2R
CLK CPU BCLK		1	2		
CLK MCH BCLK#	RP30	3	4	49.9	4P2R
CLK MCH BCLK		1	2		
CLK PCIE SATA	RP41	3	4	49.9	4P2R
CLK PCIE SATA#		1	2		
CLK PCIE LAN	RP49	3	4	49.9	4P2R
CLK PCIE LAN#		1	2		
CLK PCIE 3GPIU	RP47	3	4	49.9	4P2R
CLK PCIE 3GPIU#		1	2		
CLK PCIE MINI1	RP50	3	4	49.9	4P2R
CLK PCIE MINI1#		1	2		
CLK PCIE ICH	RP42	3	4	49.9	4P2R
CLK PCIE ICH#		1	2		
DREFSSCLK#	RP51	3	4	49.9	4P2R
DREFSSCLK		1	2		
DREFCLK#	RP52	3	4	49.9	4P2R
DREFCLK		1	2		
CLK PCIE DOCK	RP48	3	4	49.9	4P2R
CLK PCIE DOCK#		1	2		

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



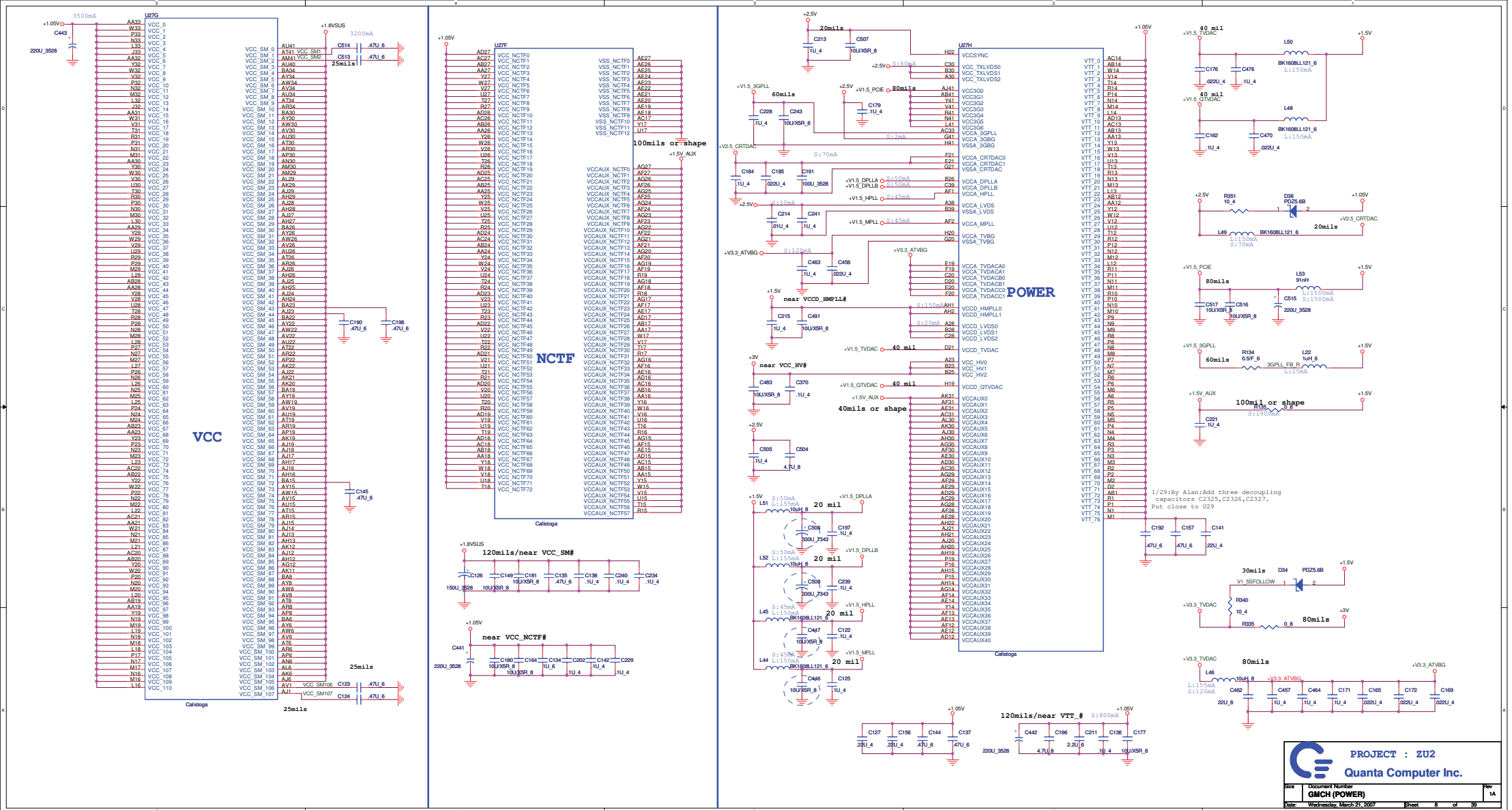
PROJECT : ZU2
Quanta Computer Inc.



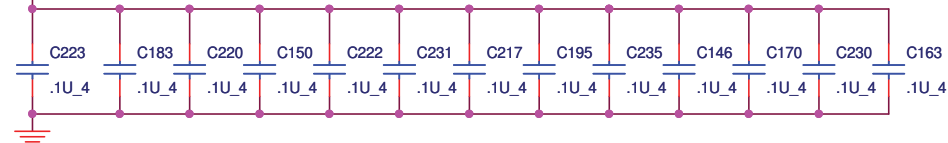


PROJECT : ZU2
Quanta Computer Inc.

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

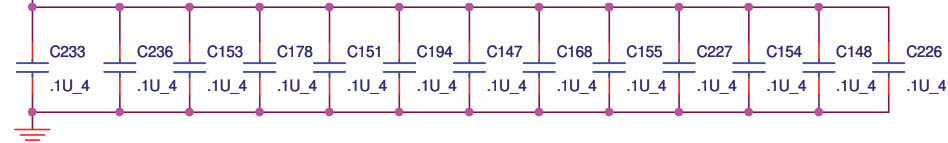


SMDDR_VTERM



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

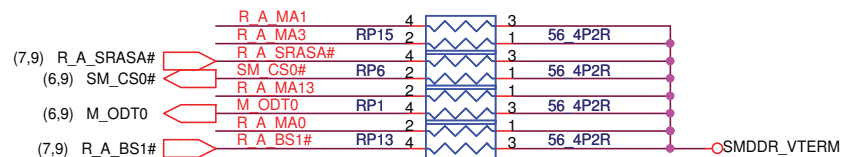
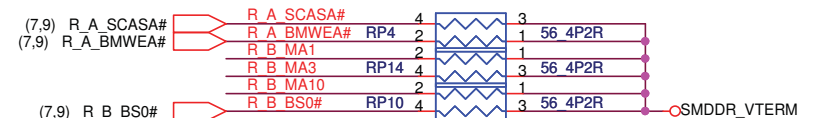
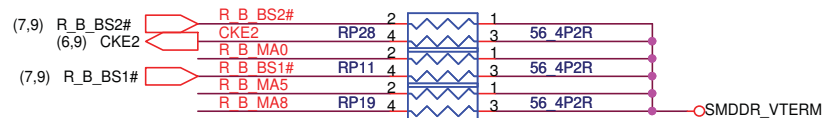
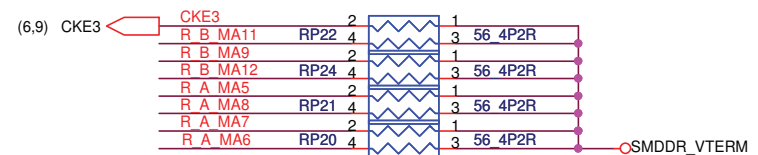
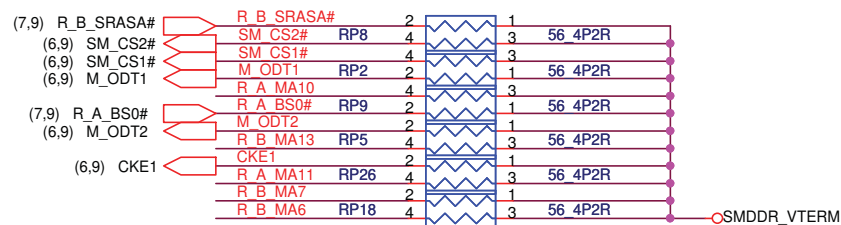
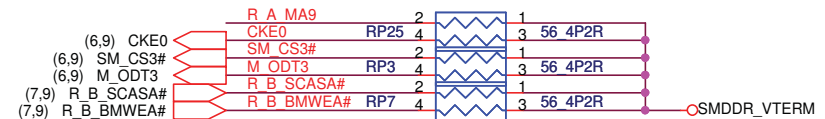
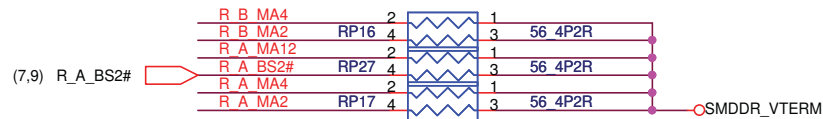
SMDDR_VTERM



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

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

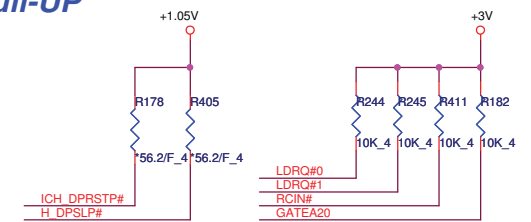
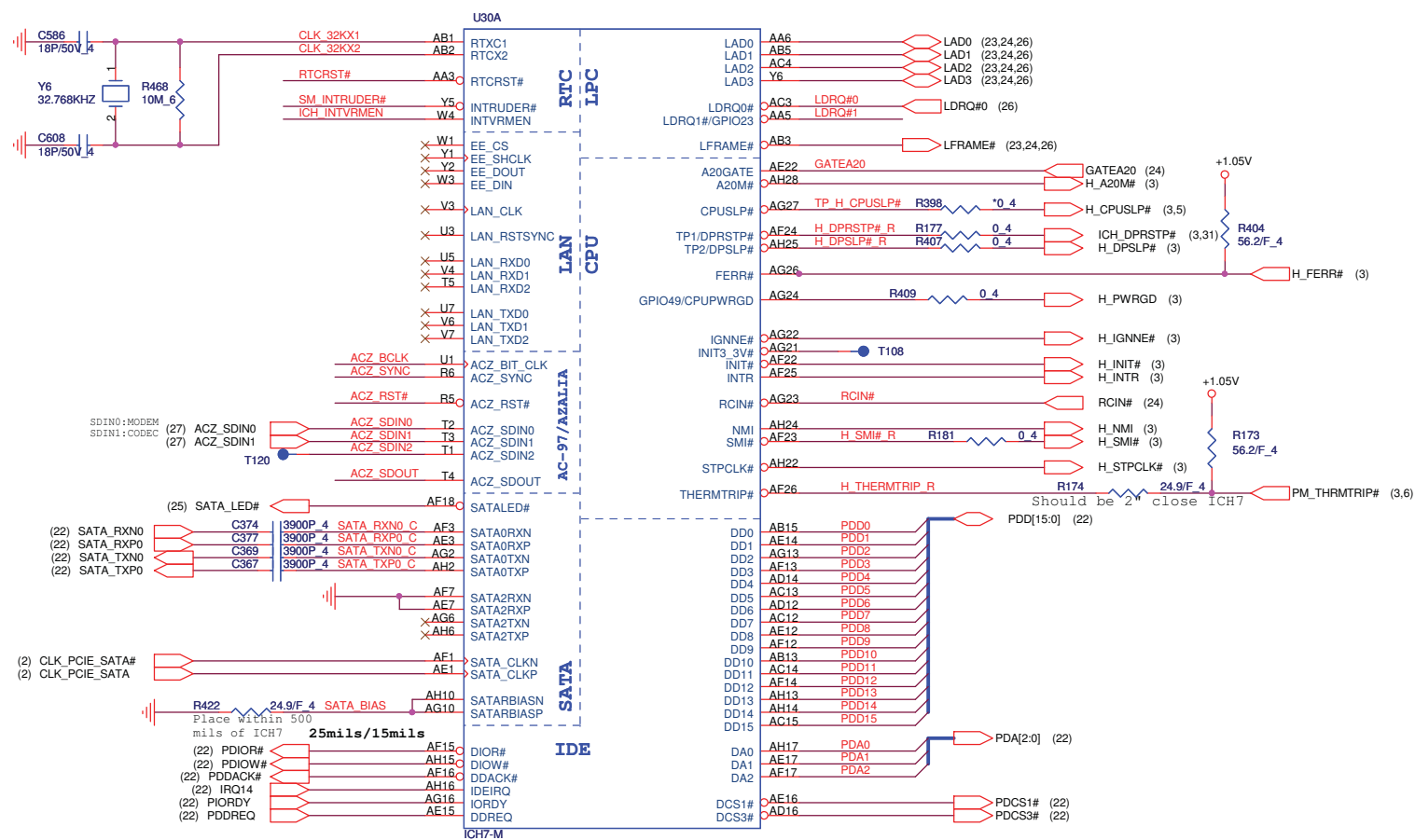
R_B_MA[0..13] (7,9)



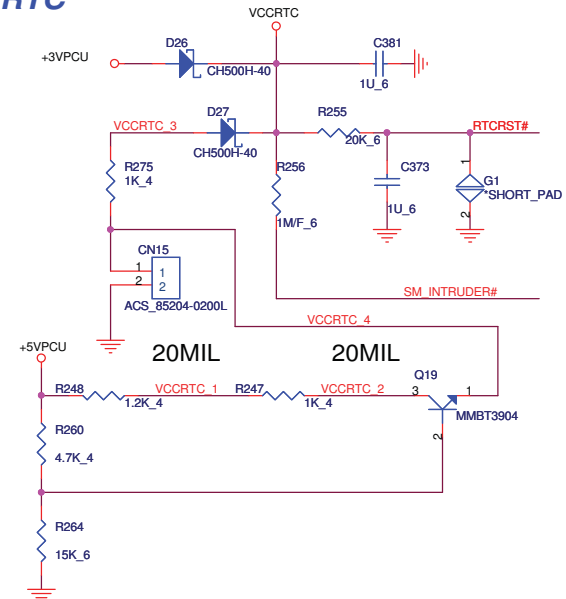
PROJECT : ZU2

Quanta Computer Inc.

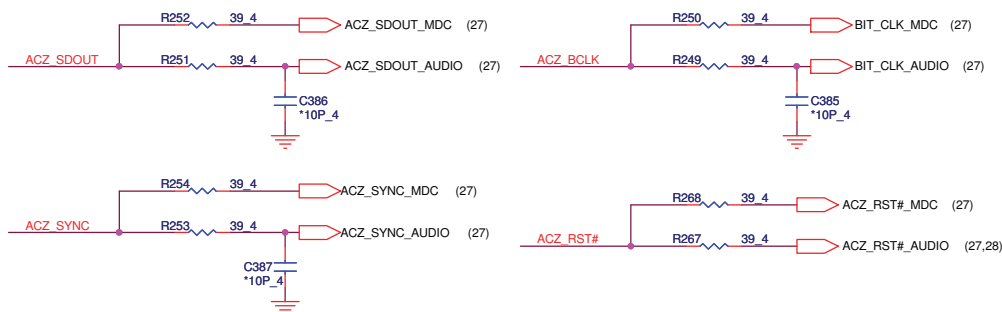
Size	Document Number	Rev
	DDR2 RES. ARRAY	1A
Date:	Friday, March 23, 2007	Sheet 10 of 39



RTC



HDA interface



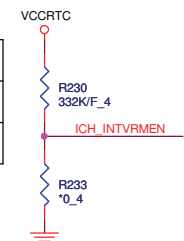
COMPONENTS	P/N
945GM	AJSL8Z20T25
ICH7-M	AJSL8YB0T21

ICH7-M

AJS�8YB0T21

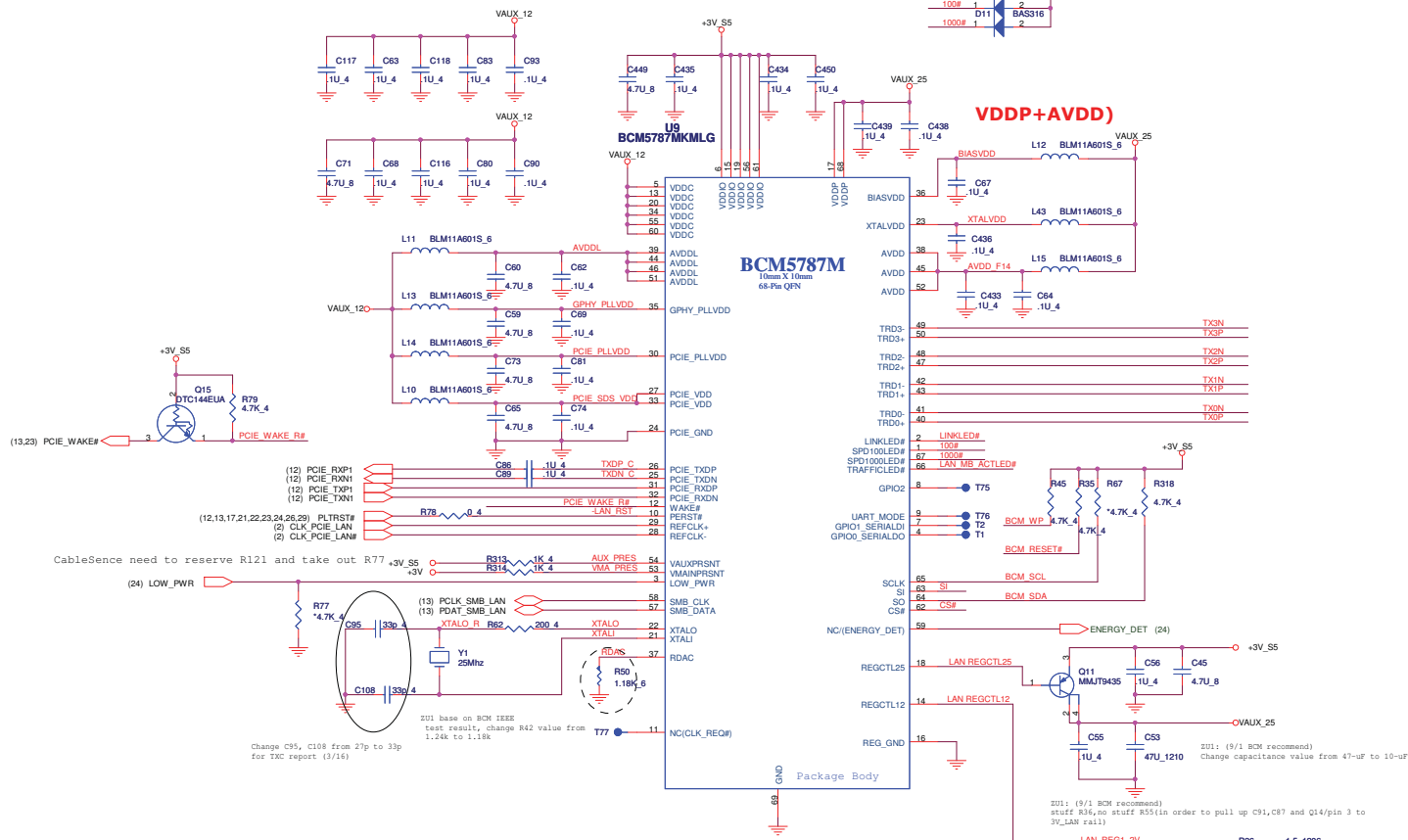
ICH7 internal VR
enable strap

	INTVRME
Enable (default)	1
Disable	0

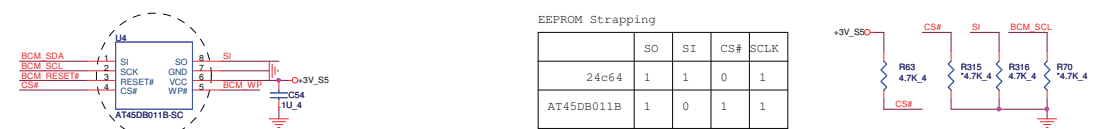


PROJECT : ZU2
Quanta Computer Inc.

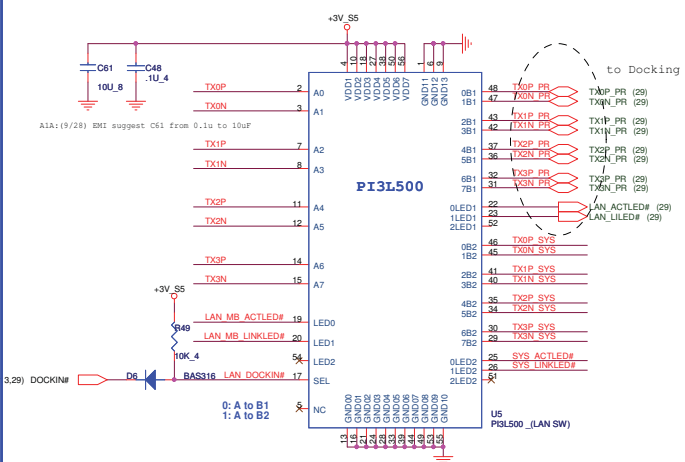
Size	Document Number ICH7-M (CPU, SATA, IDE,LPC)	Re
Date:	Thursday, March 22, 2007	Sheet 11 of 39



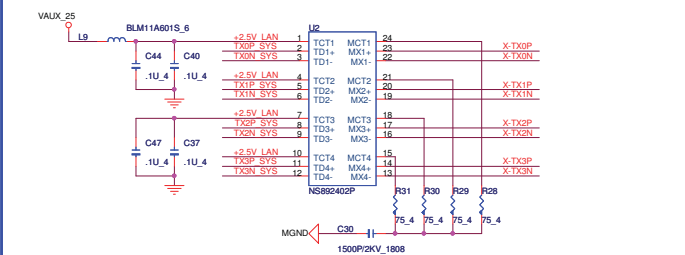
Flash ROM/EEPROM



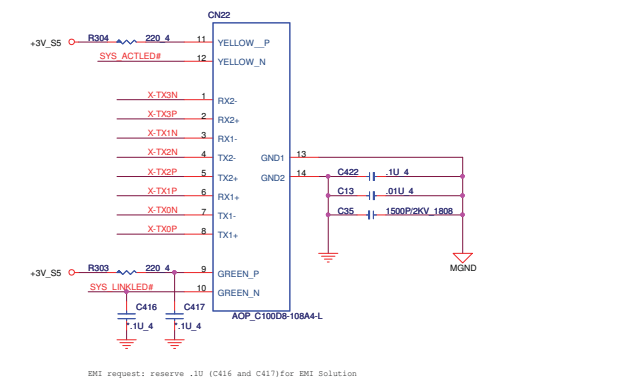
LAN Switch



LAN Transformer



RJ45



The diagram shows the internal circuitry for auto-detecting the CRT type. It includes a +5V input, a diode D1 (SSM14), and a network of capacitors (C8, C9, C18, C19, C4, C5, C6) and inductors (L4, L5, L6). The circuit is connected to a 16-pin connector CN21 (SUY_070546FR015S2002R) which provides signals for CRT R1, G1, and B1. A sense line, CRT_SENSE# L, is connected to a divider network of resistors R300, R301, and R302, which is also connected to a +3V supply. A note at the bottom right states: "2/1:By Alan: modify for Acer design rule for auto detect CRT insert".

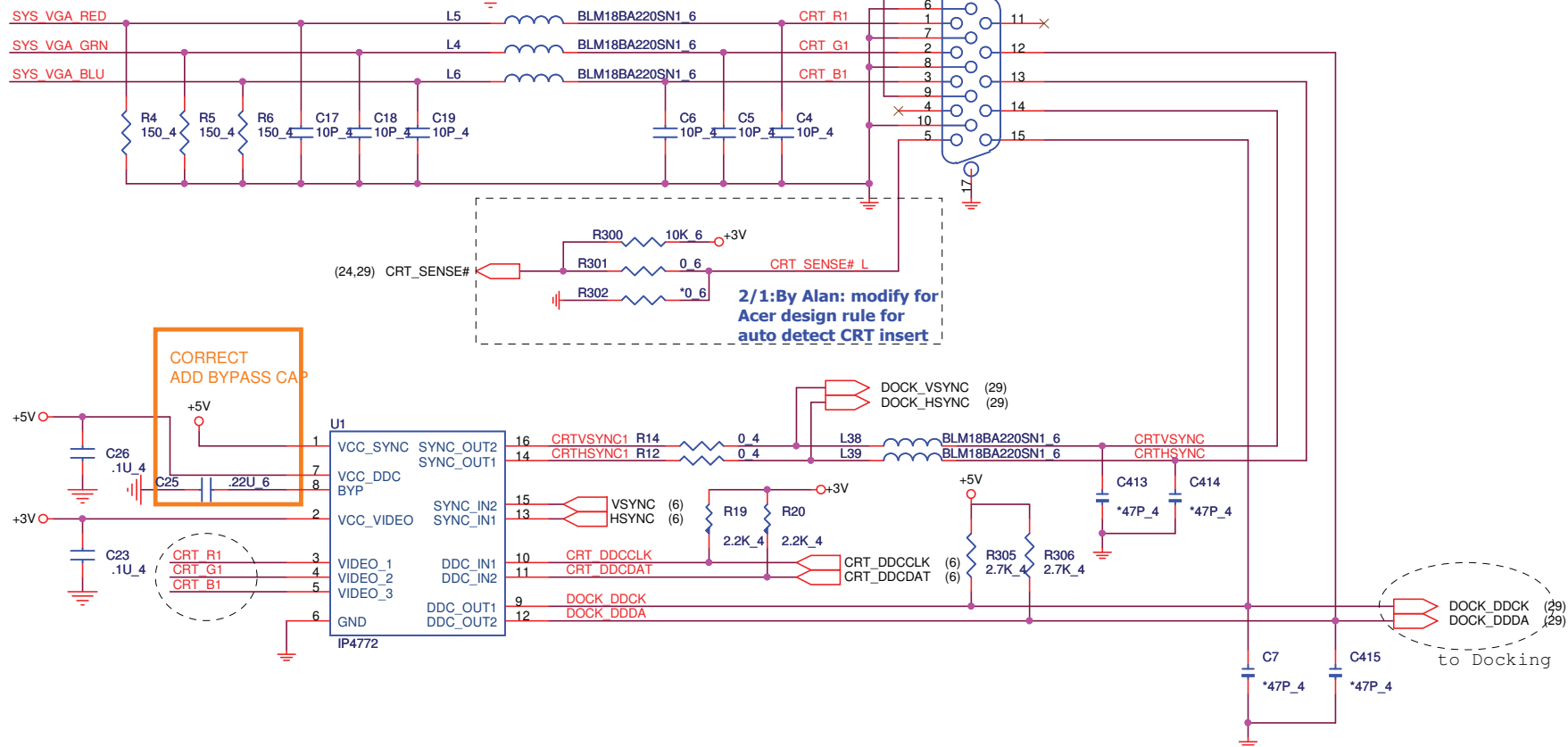


Diagram showing the connection of the SN74CBTLV3257PWR (U3) to the CRT signals and the PR_INSERT_5V signal.

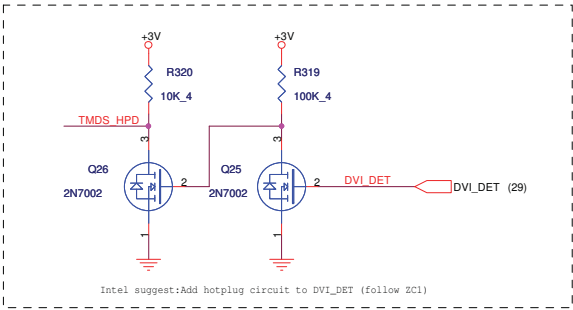
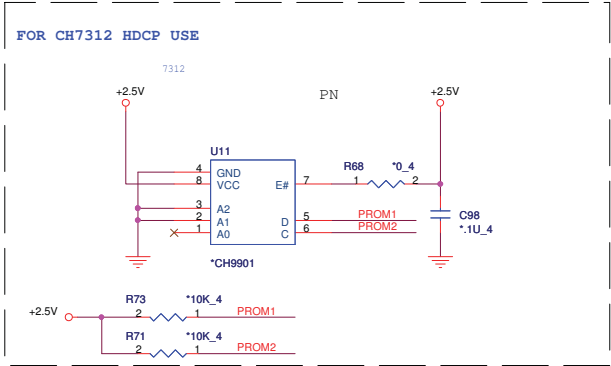
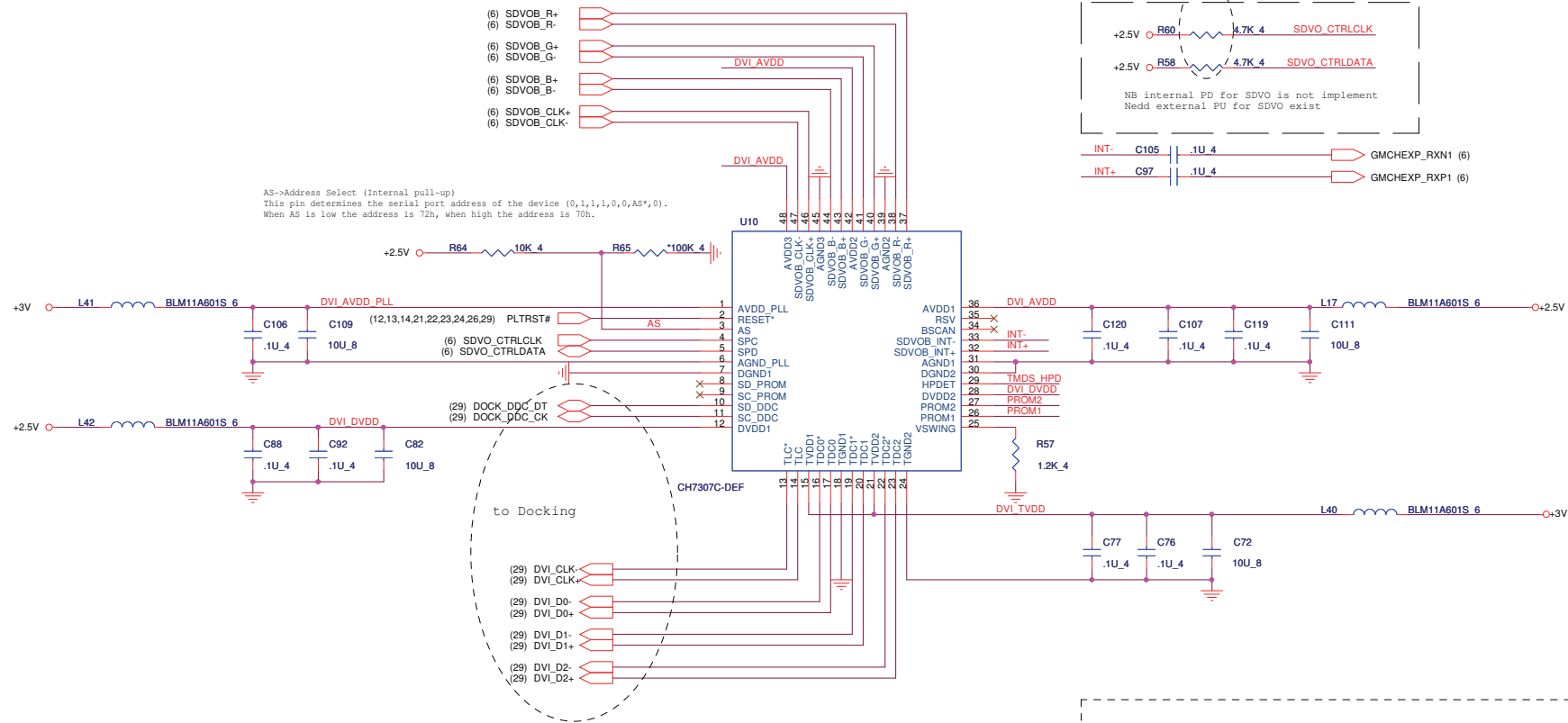
Connections for U3:

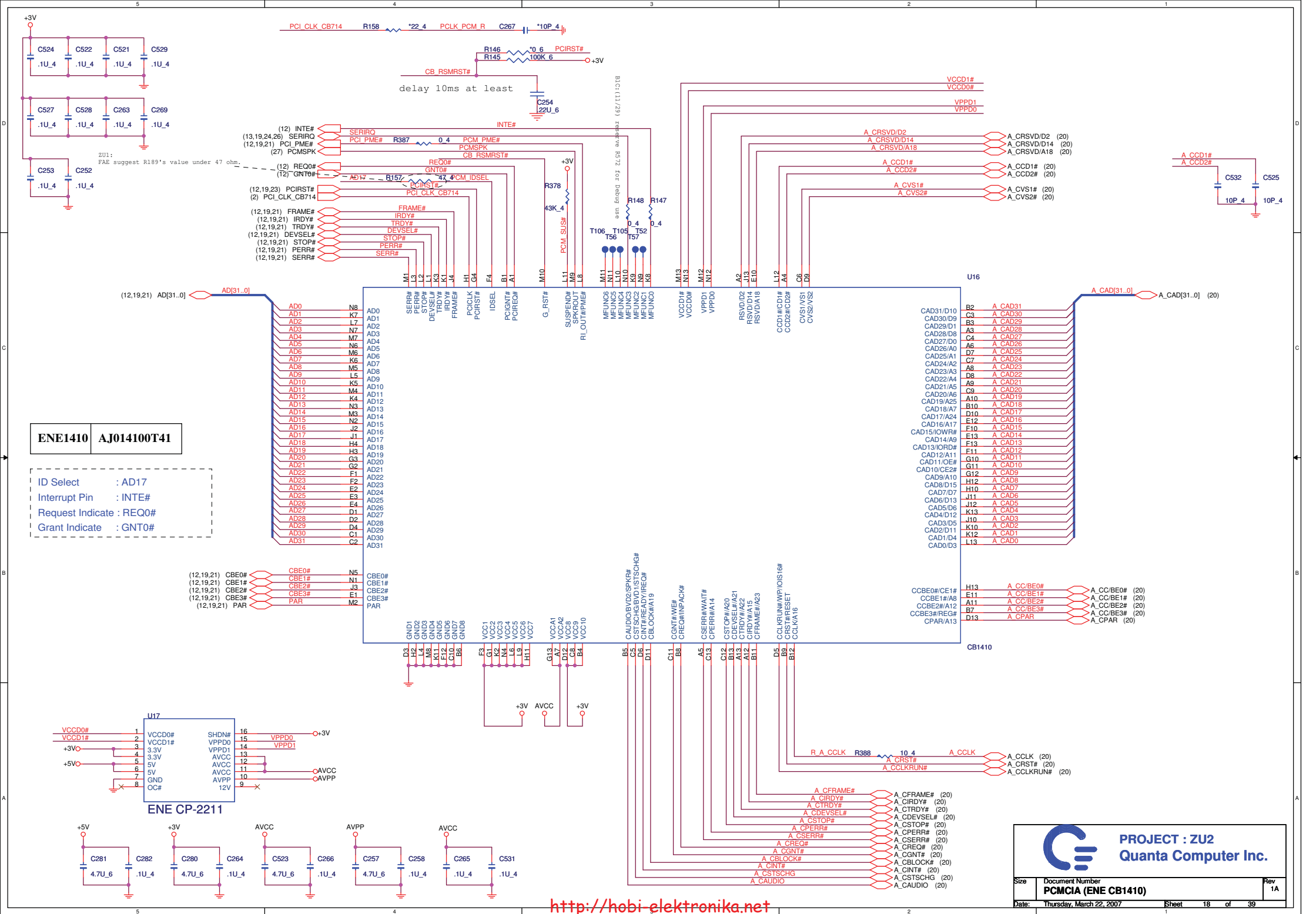
- VCC (16) to +5V
- A0 (2) to SYS_VGA_RED
- B0 (5) to SYS_VGA_GRN
- C0 (11) to SYS_VGA_BLU
- D0 (14) to DOCK_R (29)
- D1 (13) to DOCK_G (29)
- D2 (10) to DOCK_B (29)
- SE (1) to PR_INSERT_5V
- EN# (15) to GND
- GND (8) to GND

Legend:

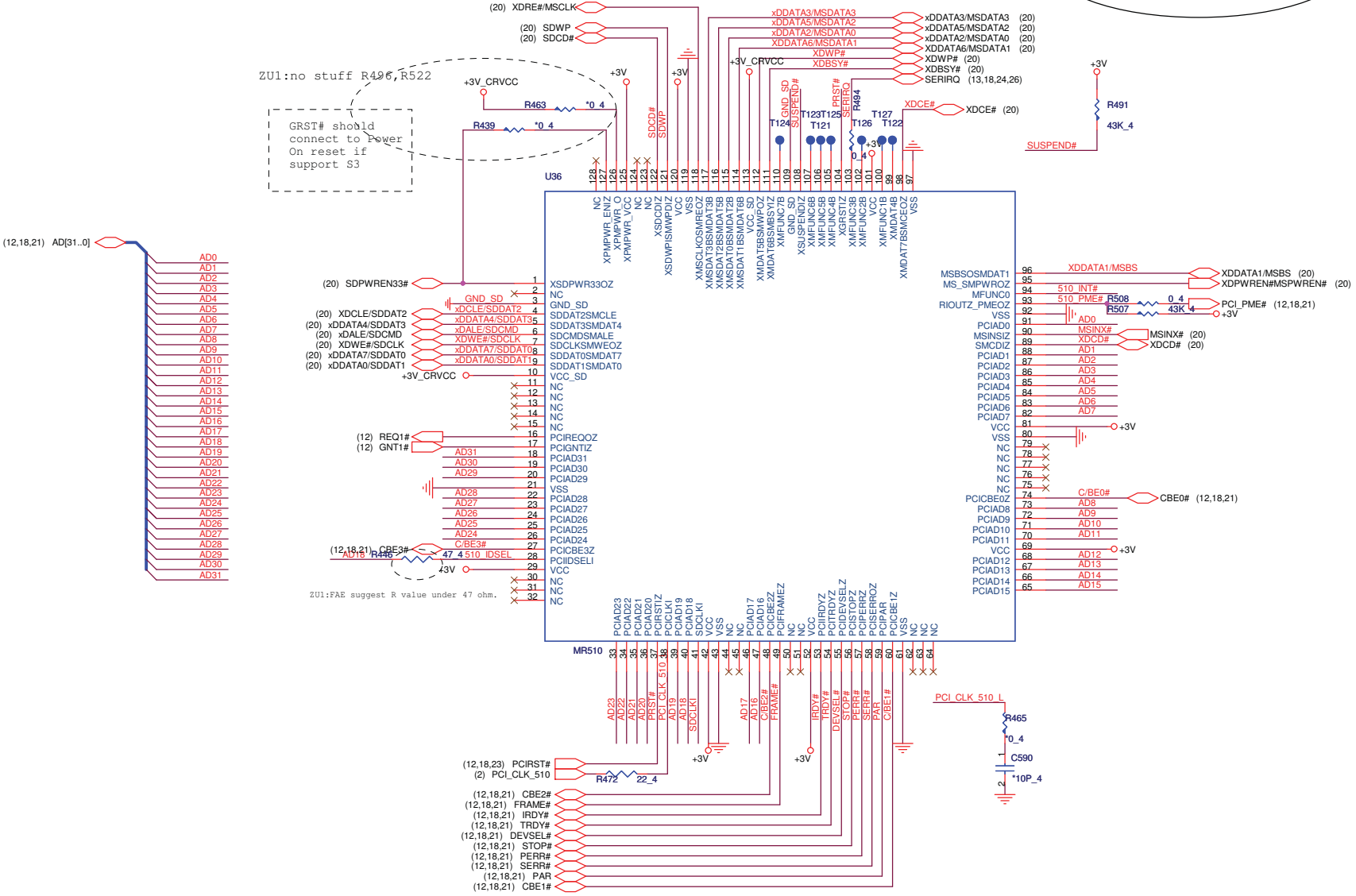
SEI	FUNCTION
(6) CRT_RED	CRT RED
(6) CRT_GRN	CRT GRN
(6) CRT_BLU	CRT BLU
(16,29) PR_INSERT_5V	PR INSERT 5V

SEL	FUNCTION
LOW	IN_0
HIGH	IN_1

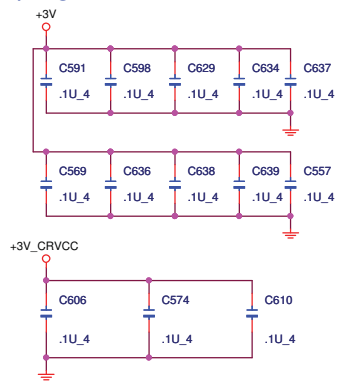




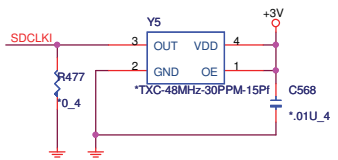

```
ID Select      : AD18
Interrupt Pin   : INTG#
Request Indicate : REQ1#
Grant Indicate  : GNT1#
```



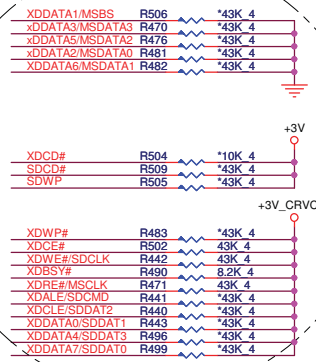
Decoupling CAP.



48MHz CLK



PU/PD



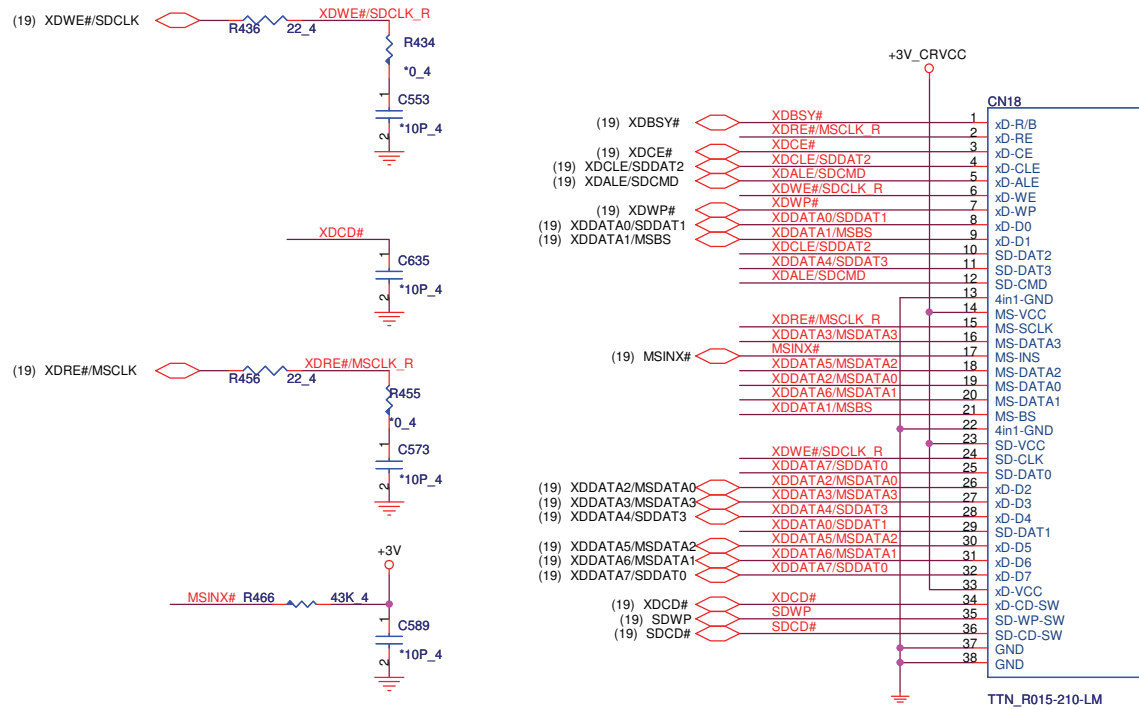
0213: follow ZU1 for cost down issue with FAE



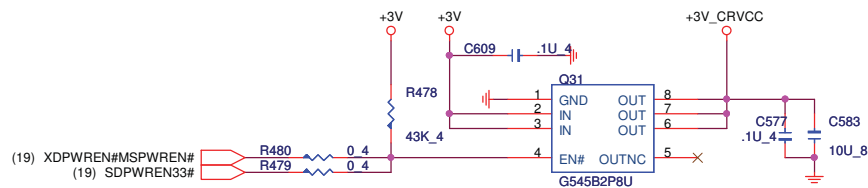
PROJECT : ZU2
Quanta Computer Inc.

Size	Document Number Card Reader (MR510)	Rev 1B
Date	Wednesday, March 28, 2007	Sheet 19 of 39

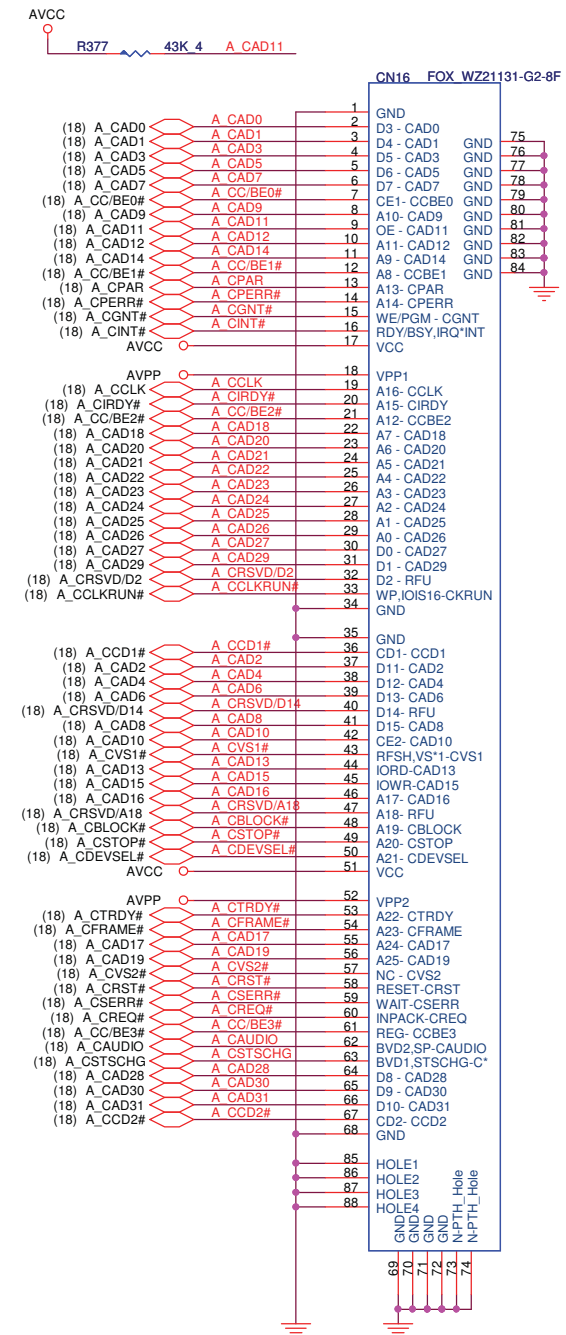
CardReader



CardReader Power switch



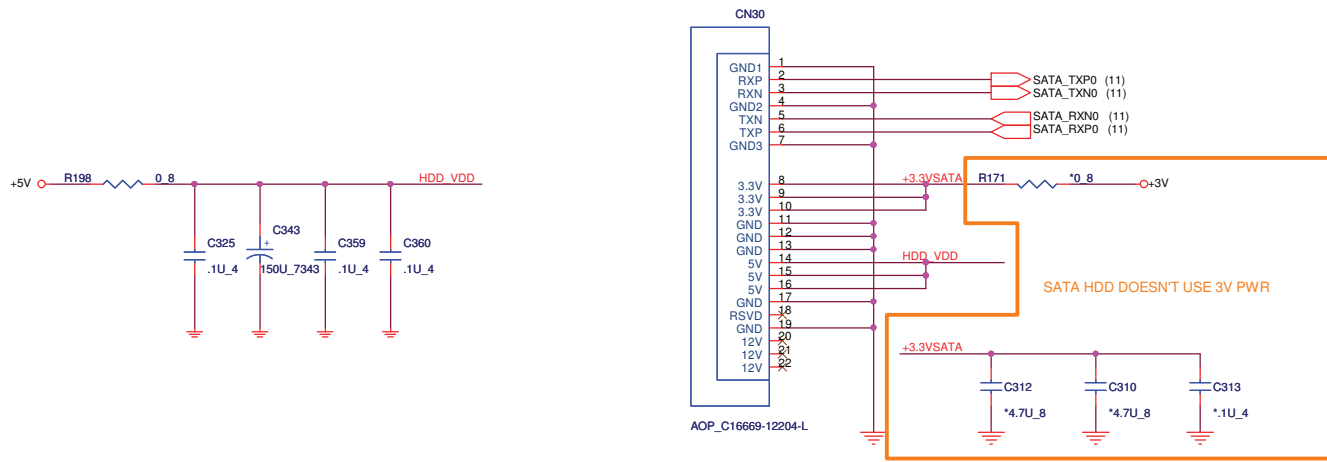
PCMCIA



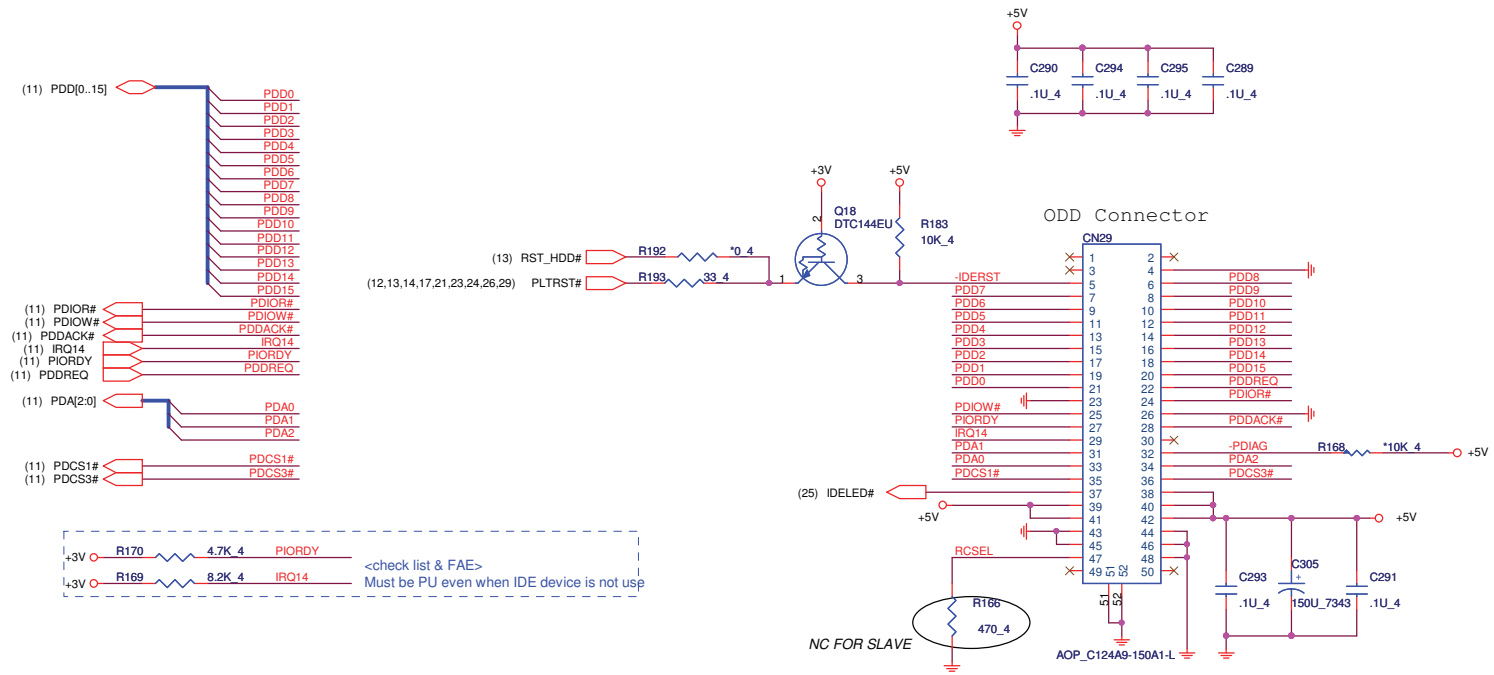
PROJECT : ZU2
Quanta Computer Inc.

Size	Document Number	Rev
	CARD Reader & PCMCIA SLOT	1A
Date:	Thursday, March 22, 2007	Sheet 20 of 39

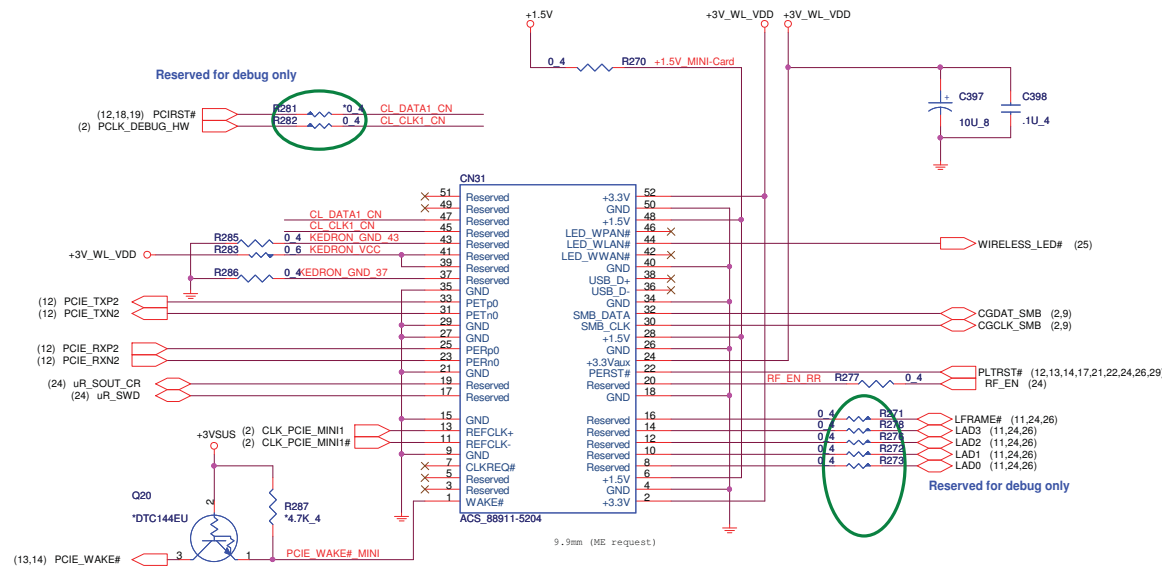
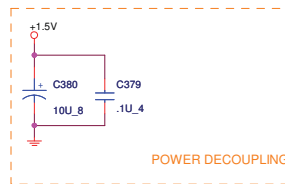
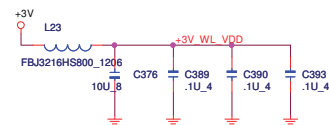
SATA HDD



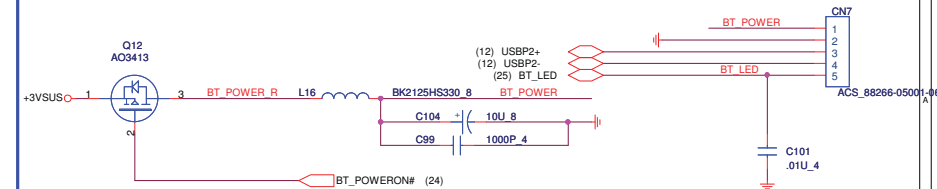
PATA ODD



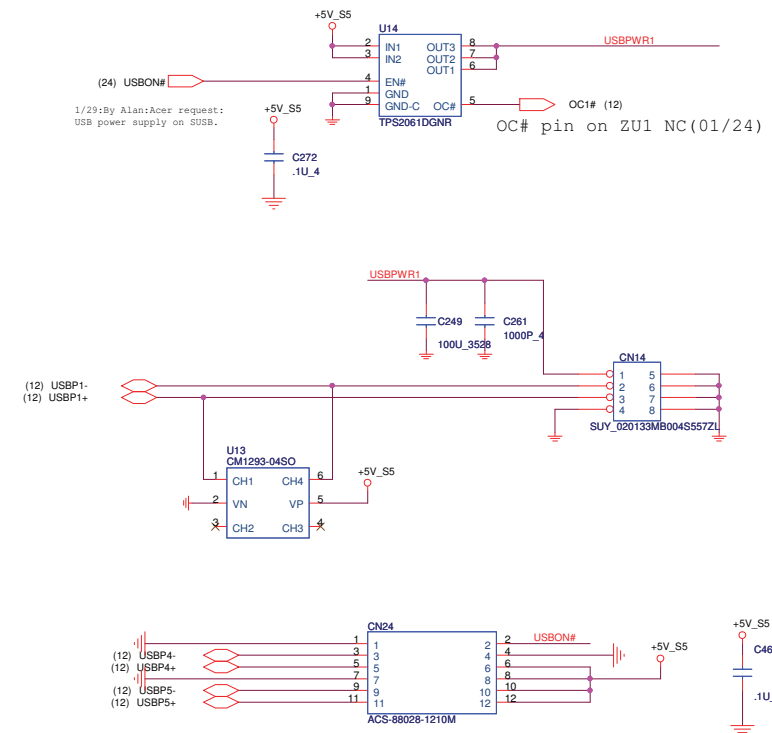
MINI-Card



BLUETOOTH MODULE CONNECTOR



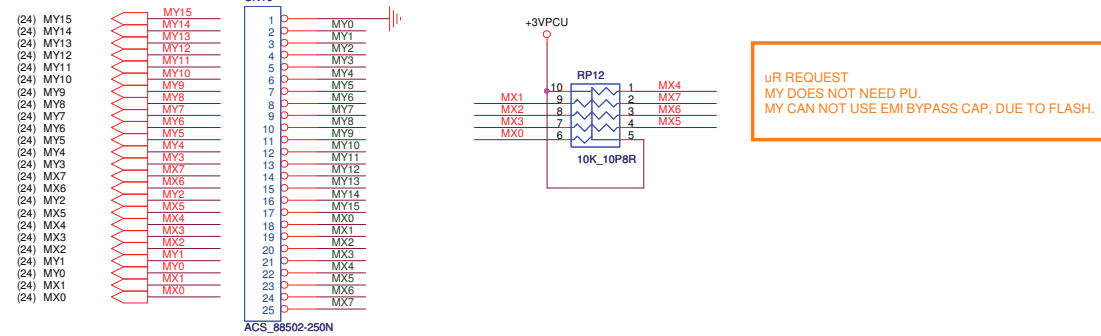
System USB



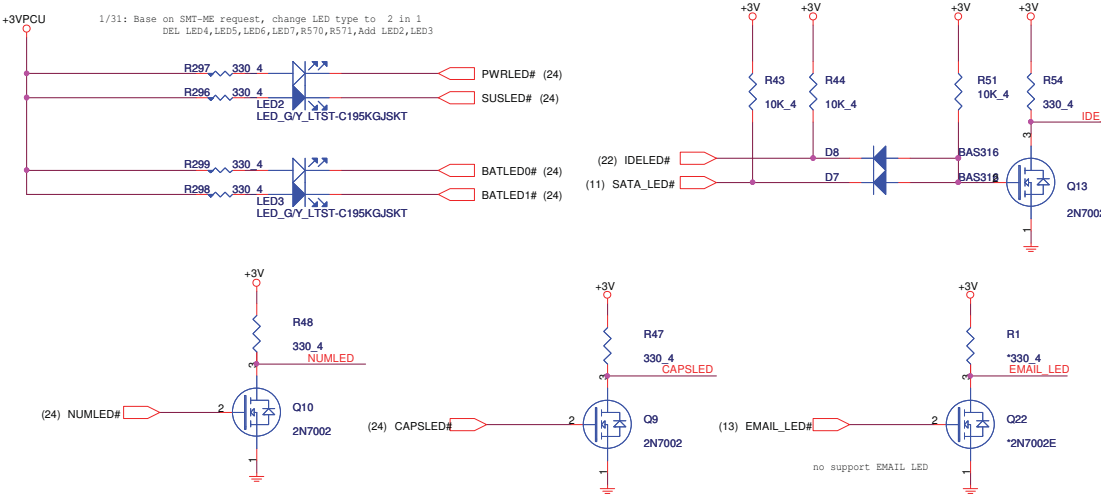
PROJECT : ZU2
Quanta Computer Inc.

Size	Document Number Mini card/USB/Bluetooth	Rev 1B
Date:	Wednesday, March 28, 2007	Sheet 23 of 39

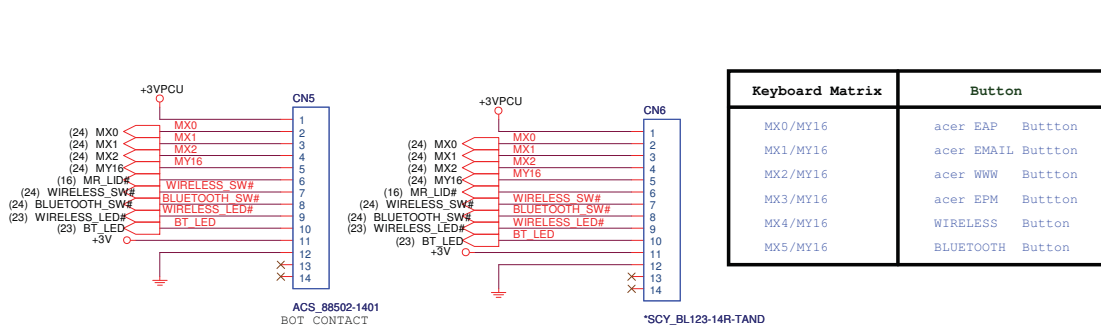
INT K/B



LED

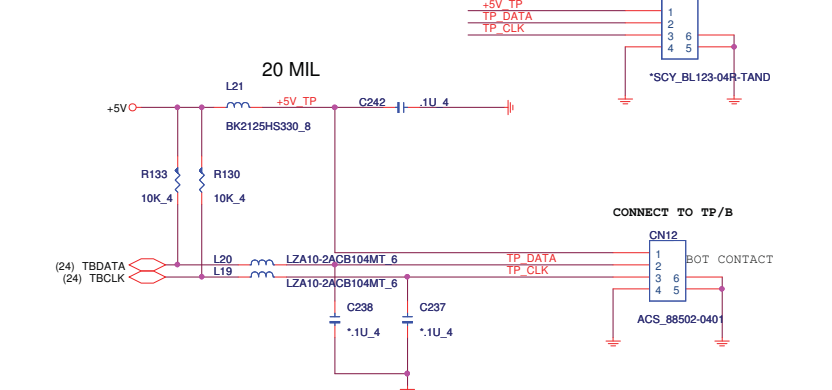


Function Board

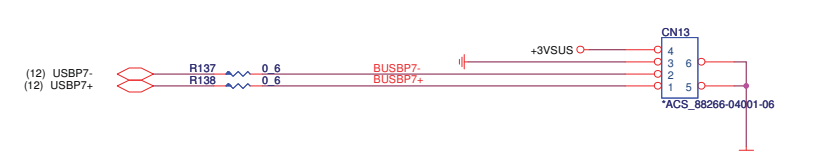


Keyboard Matrix	Button
MX0/MY16	acer EAP Button
MX1/MY16	acer EMAIL Button
MX2/MY16	acer WW Button
MX3/MY16	acer EPM Button
MX4/MY16	WIRELESS Button
MX5/MY16	BLUETOOTH Button

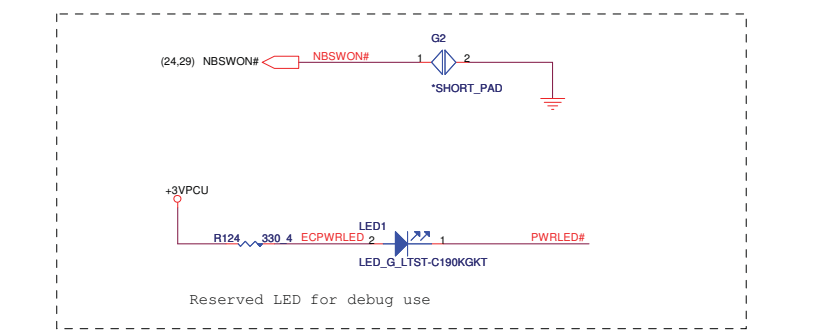
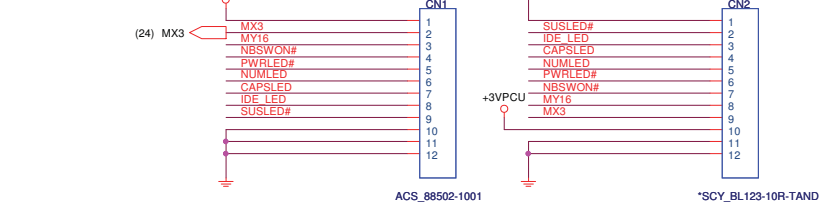
TOUCH PAD

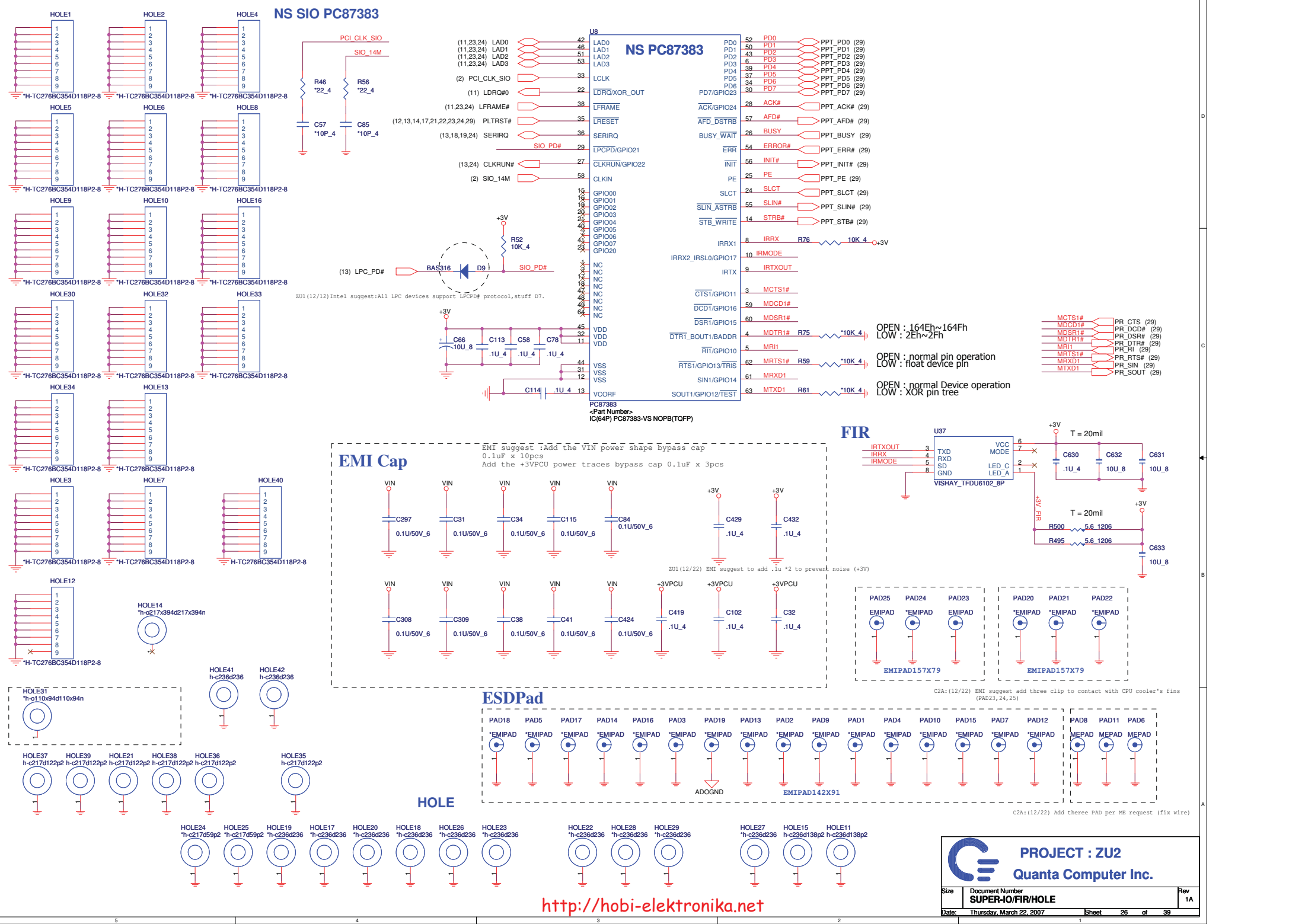


Finger Printer

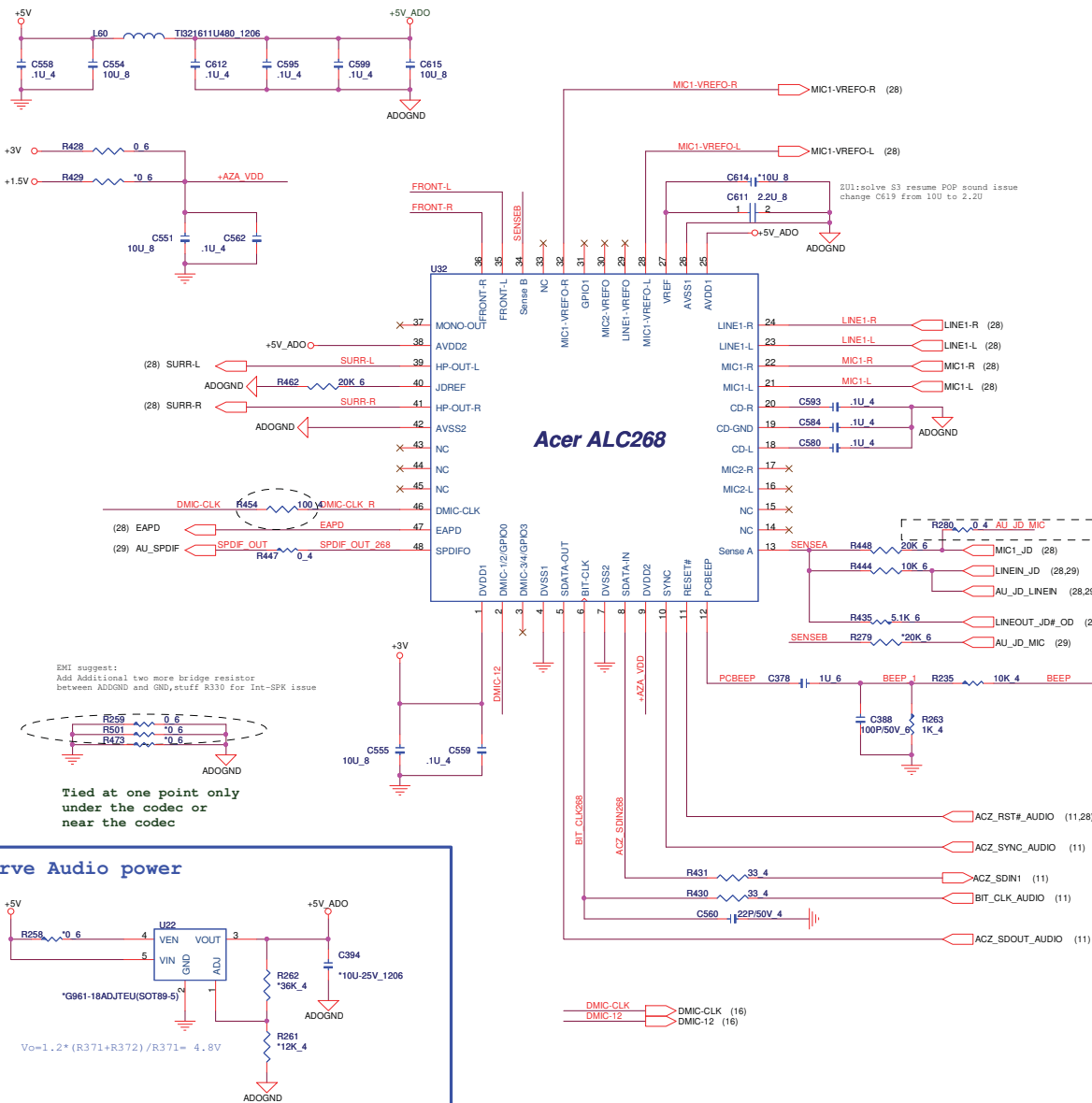


LED Board

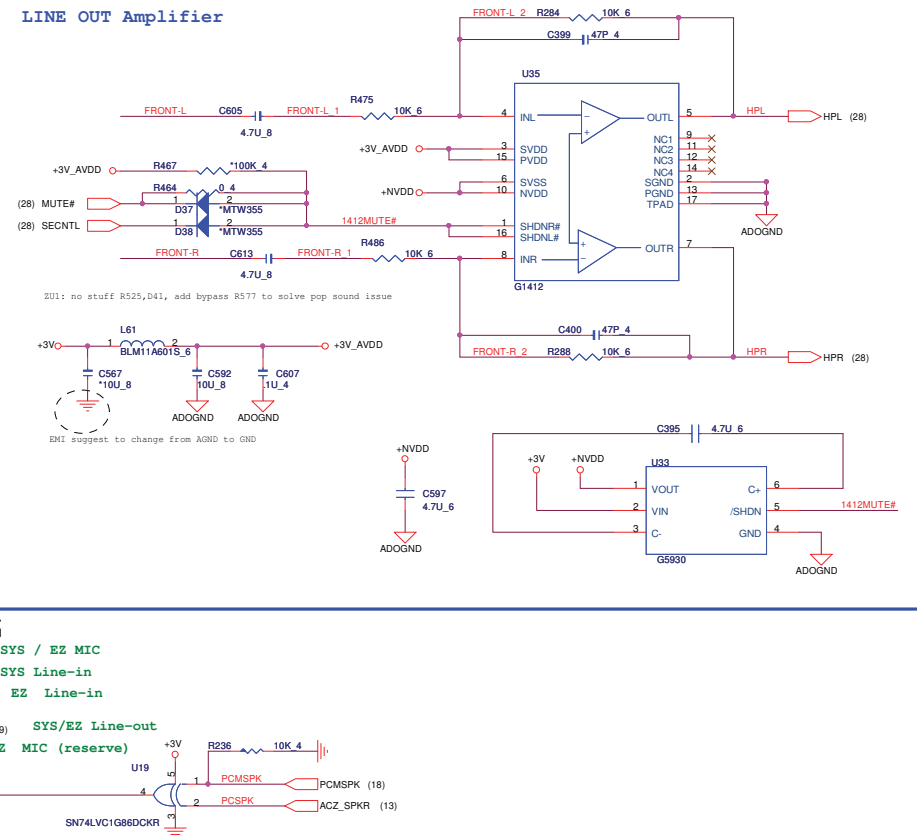




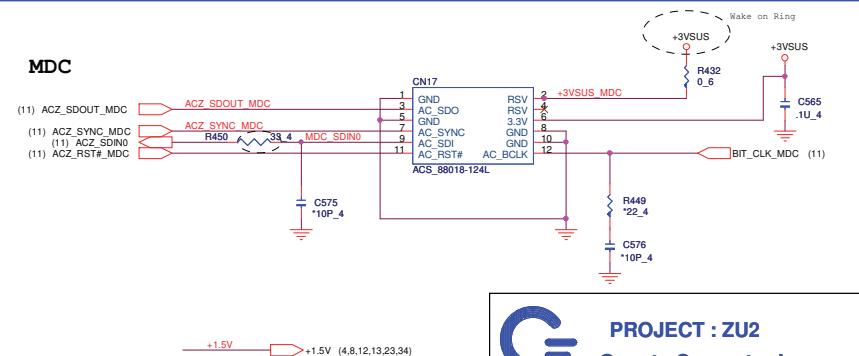
CODEC (ALC268)



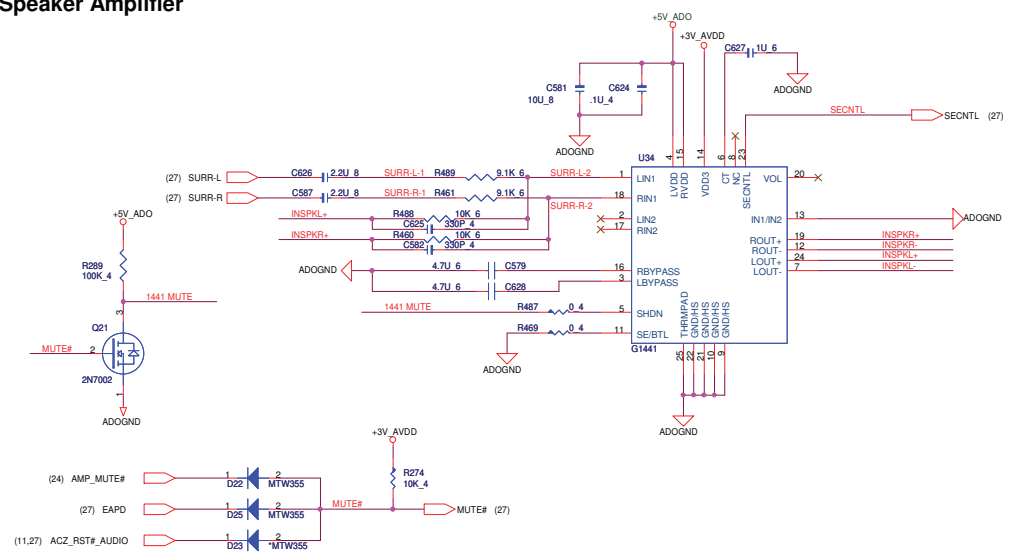
LINE OUT Amplifier



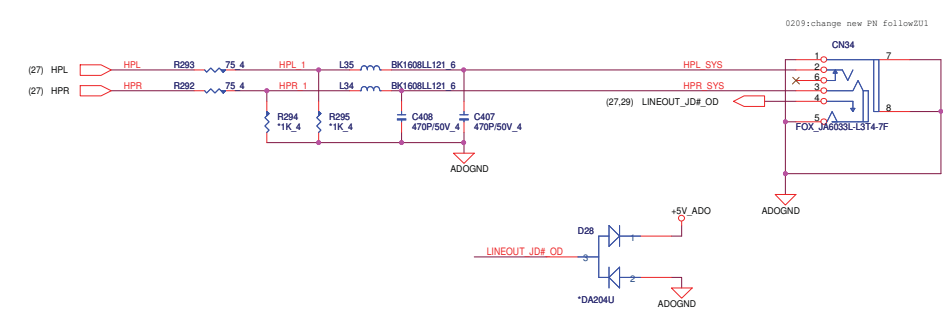
MDC



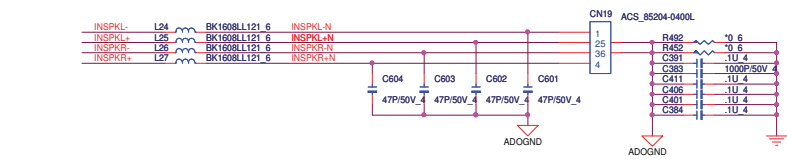
Speaker Amplifier



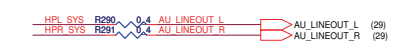
SYSTEM LINE OUT



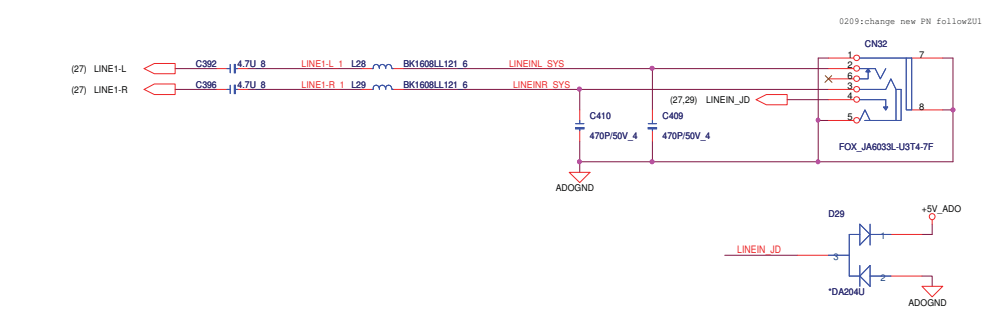
SPEAKER



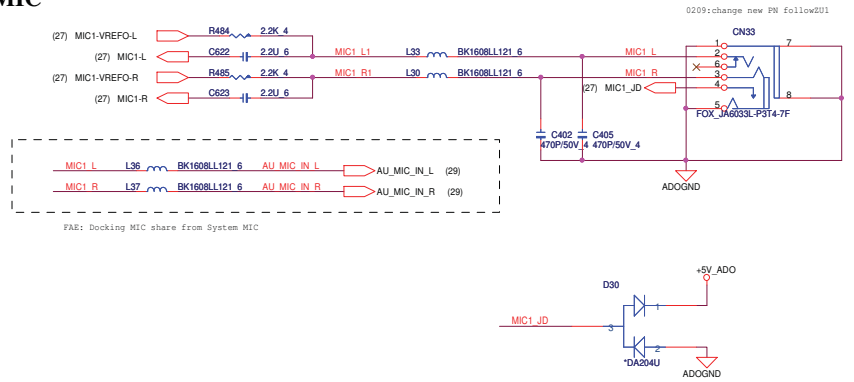
Docking LINE OUT/SPDIF



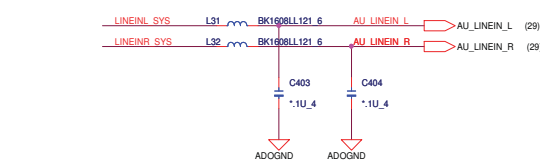
SYSTEM LINE IN

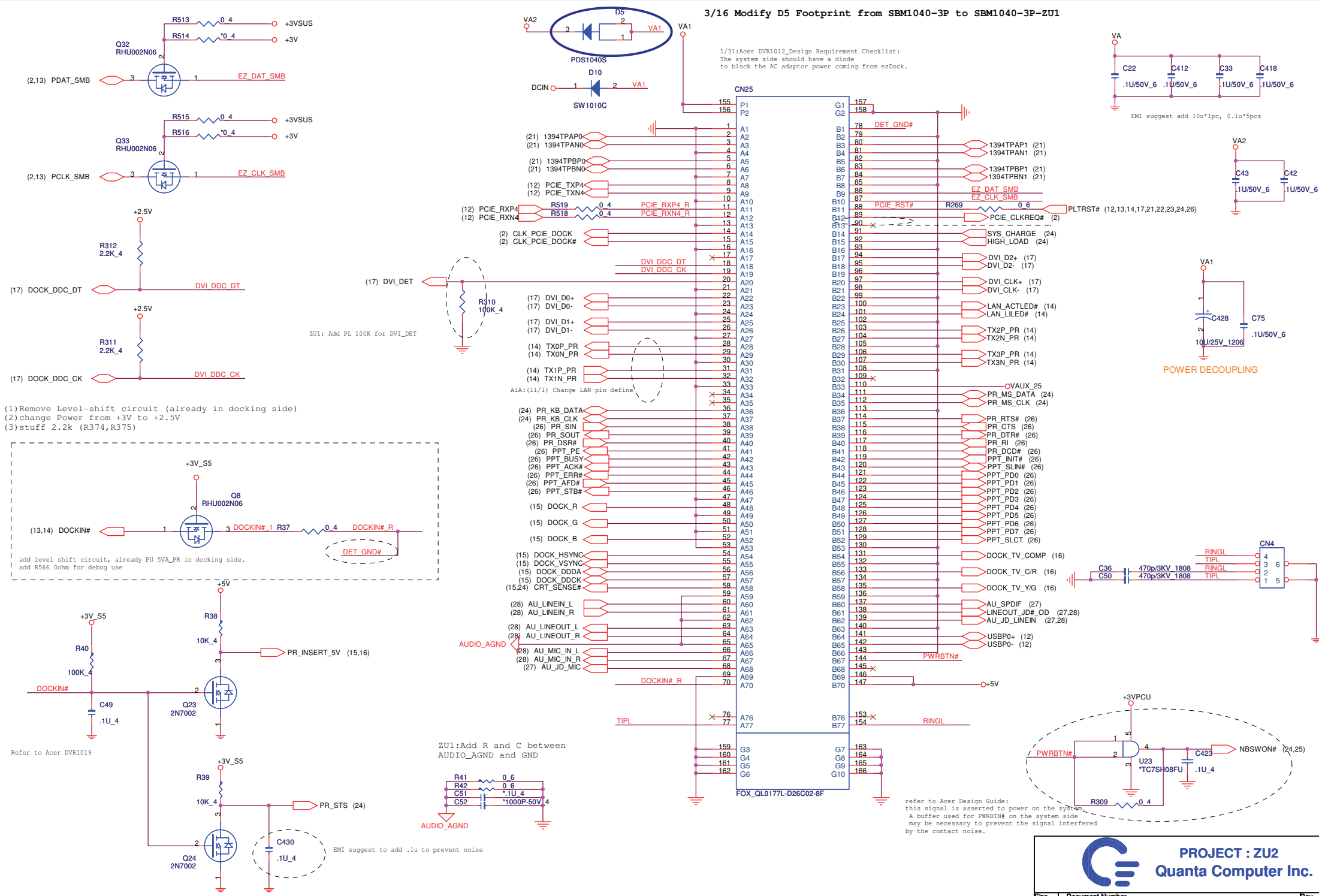


SYSTEM MIC



Docking LINE IN





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

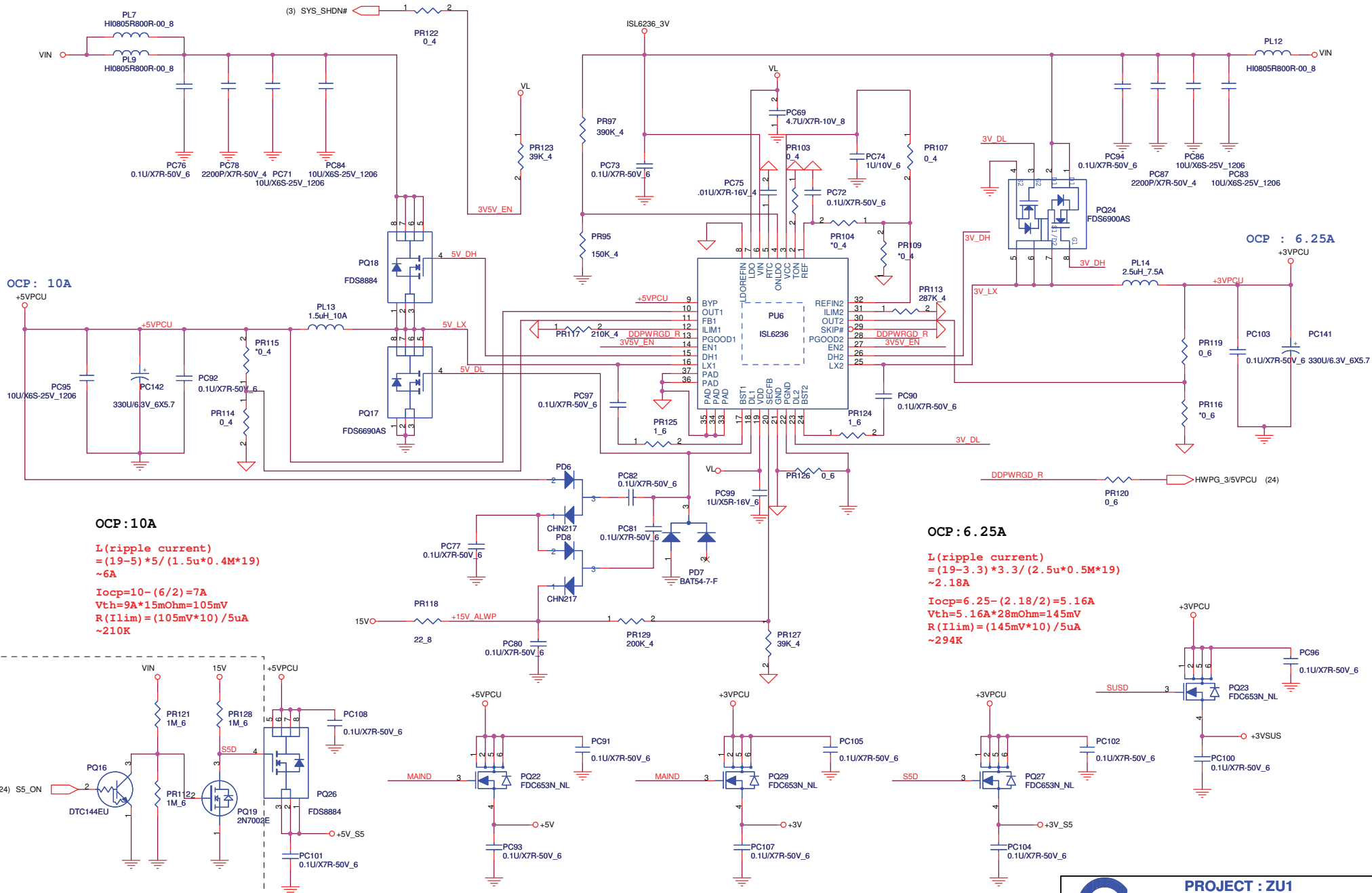
1/31:Acer DVR1012_Design Requirement Checklist:
The system side should have a diode
to block the AC adaptor power coming from ezDock.

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

POWER DECOUPLING

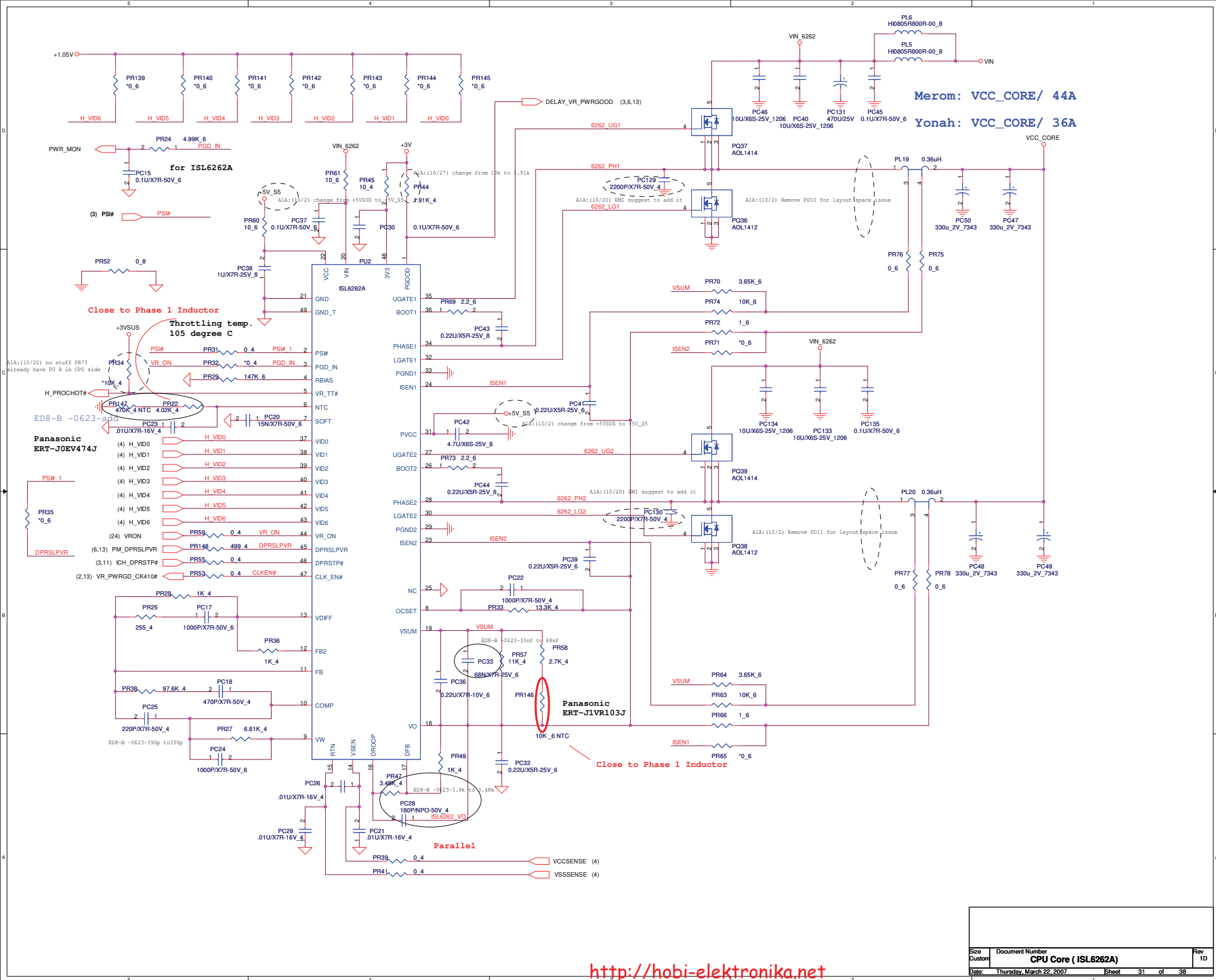
refer to Acer Design Guide:
this signal is asserted to power on the system
A buffer used for PWRBTN# on the system side
may be necessary to prevent the signal interfered
by the contact noise.





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(CS32003F933) to 6.65K ohm (CS26653F911)

<http://hobi-elektronika.net>

