

ZI6 BLOCK DIAGRAM

CENTRINO

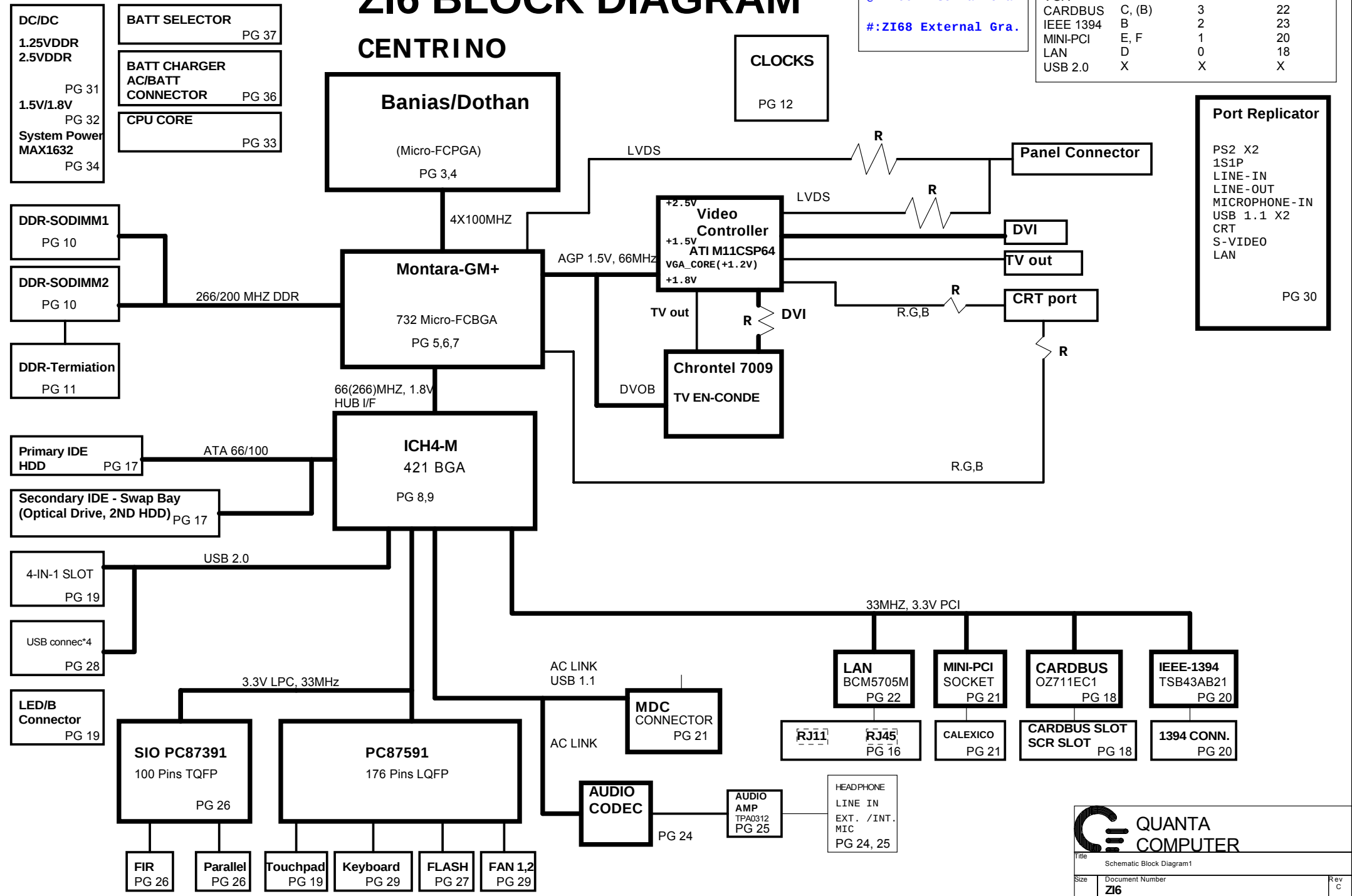
@:ZI66 Internal Gra.
#:ZI68 External Gra.

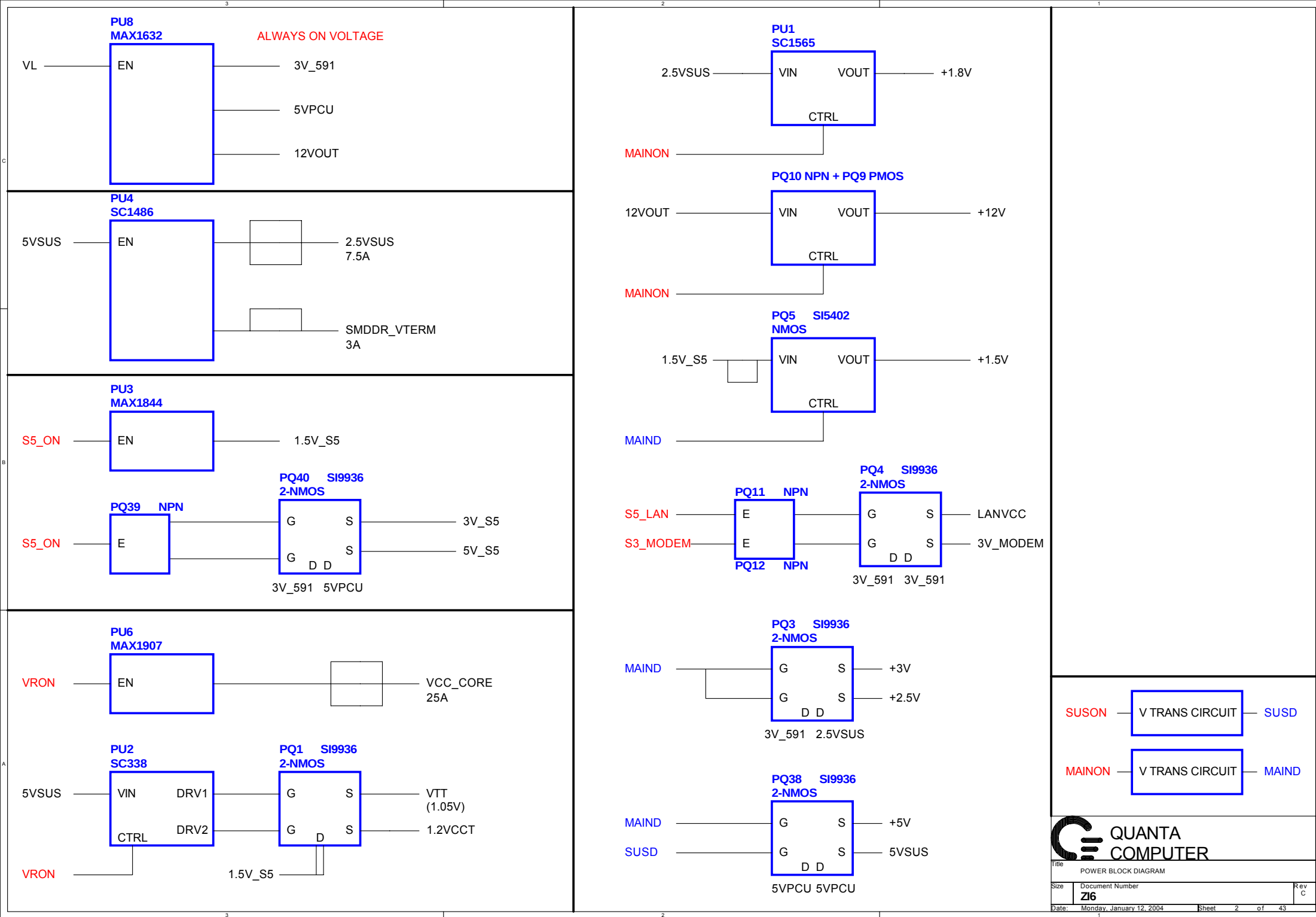
	PIRQ#	REQ#/GNT#	IDSEL
VGA	X	X	X
CARDBUS	C, (B)	3	22
IEEE 1394	B	2	23
MINI-PCI	E, F	1	20
LAN	D	0	18
USB 2.0	X	X	X

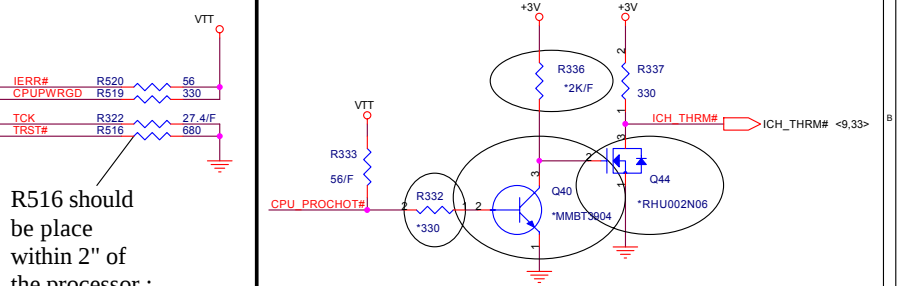
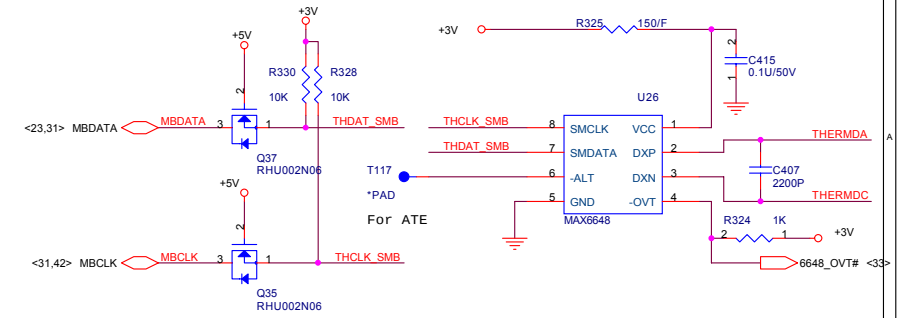
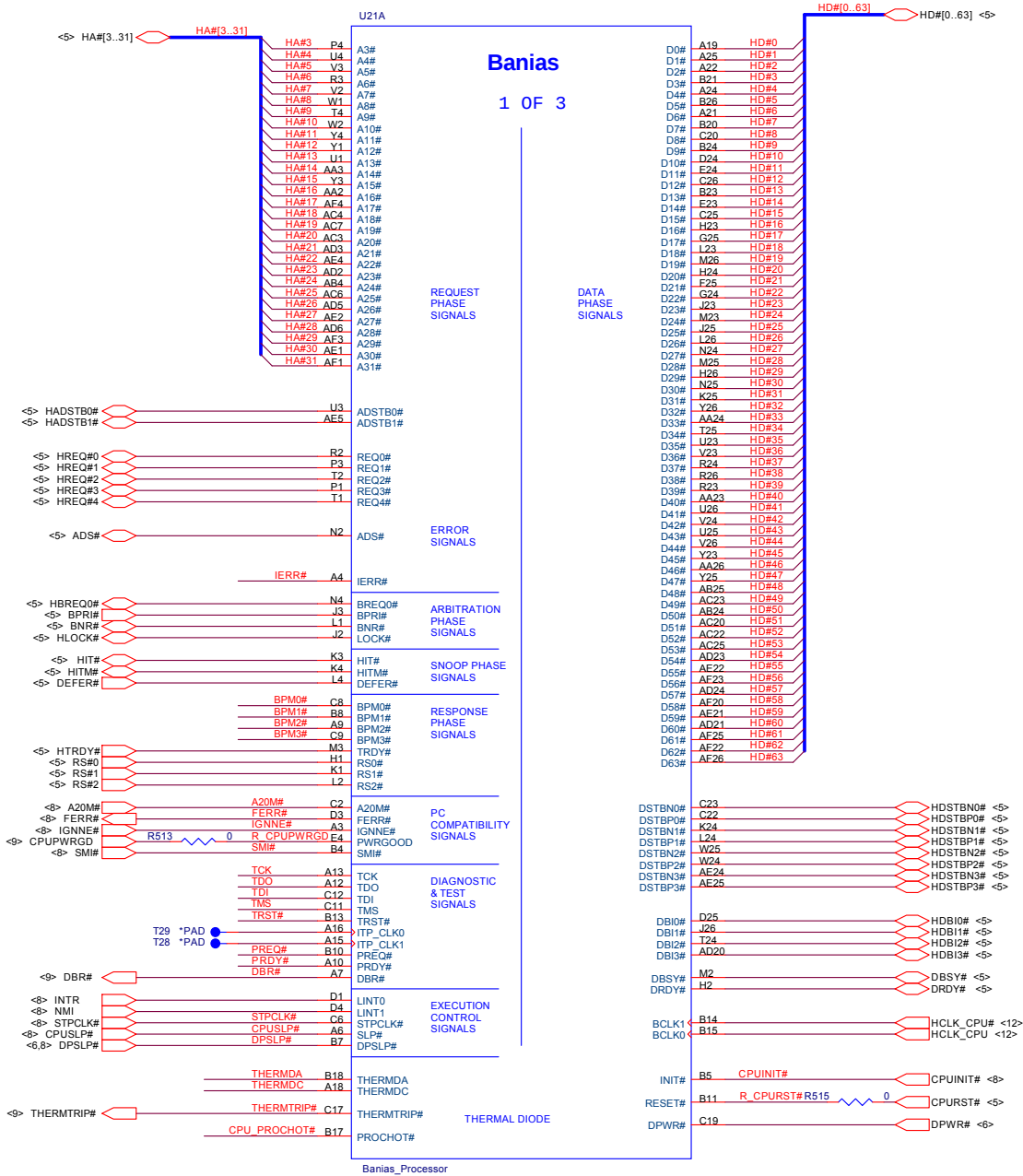
Port Replicator

- PS2 X2
- 1S1P
- LINE-IN
- LINE-OUT
- MICROPHONE-IN
- USB 1.1 X2
- CRT
- S-VIDEO
- LAN

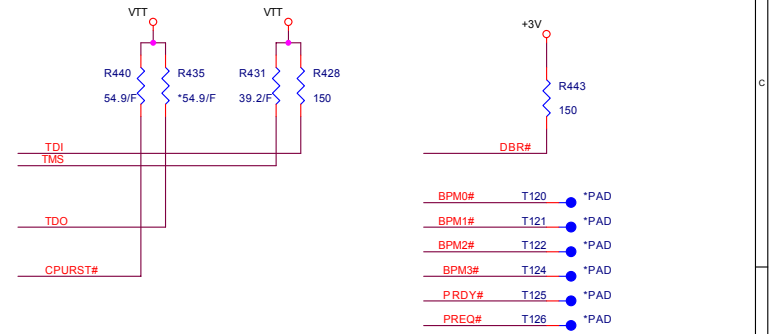
PG 30





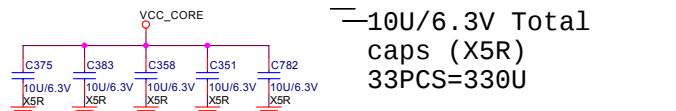
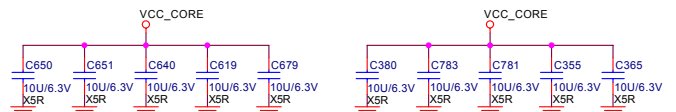
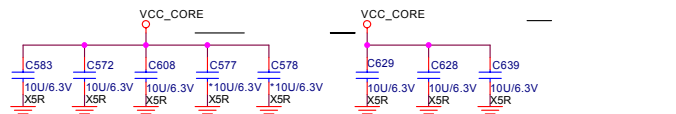
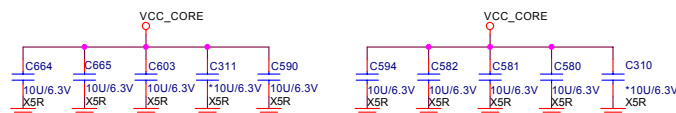
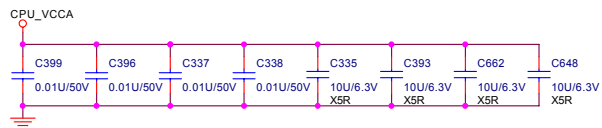
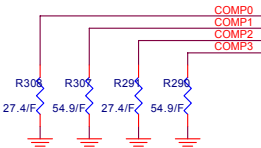


R516 should be place within 2" of the processor ; others place near ITP



De1 ITP700
De1 R434, R439, C542, R442

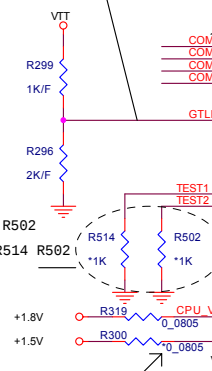
These 4 Resistors need to place with 0.5" of CPU.
Comp0,2 trace need to be zo=27.4 ohm,
comp1,3 traces need to be zo=55 ohm.



—10U/6.3V Total
caps (X5R)
33PCS=330U

GTLREF: 2/3 VCCP+-2%
T<0.5" 25 mils space

25 MILS (>50 MILS PREFERRED) SPACE
T < 0.5"



A0 CPU install R514 R502

A1 CPU not install R514 R502

1.5V option is not used.
It is ok to leave in there.

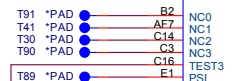
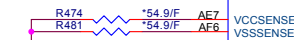
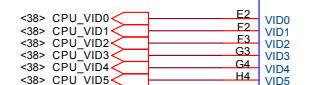
Banias
2 OF 3

POWER, GROUND, RESERVED
SIGNALS

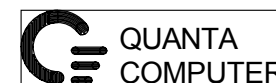
Banias
3 OF 3

POWER, GROUND AND NC

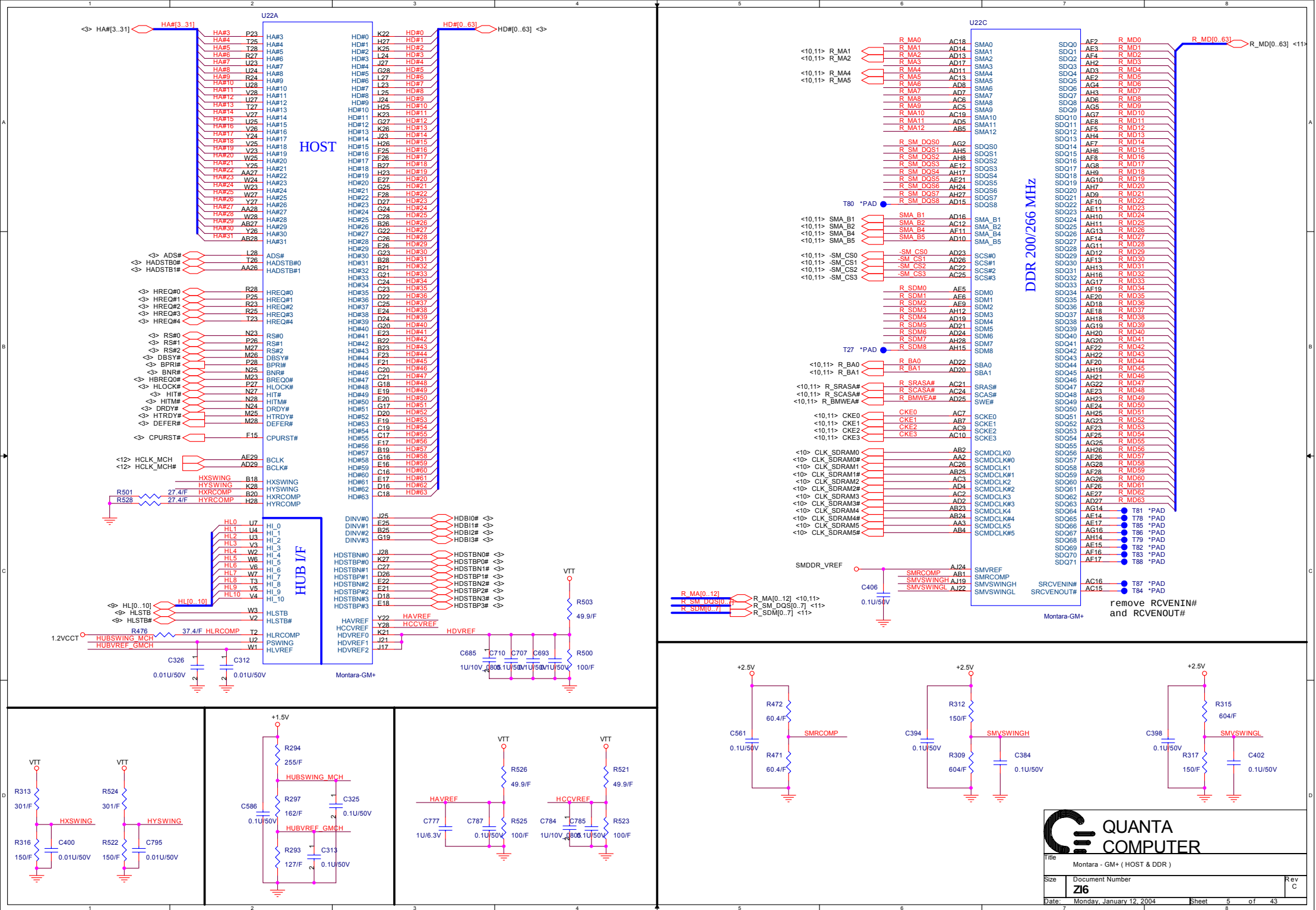
VID

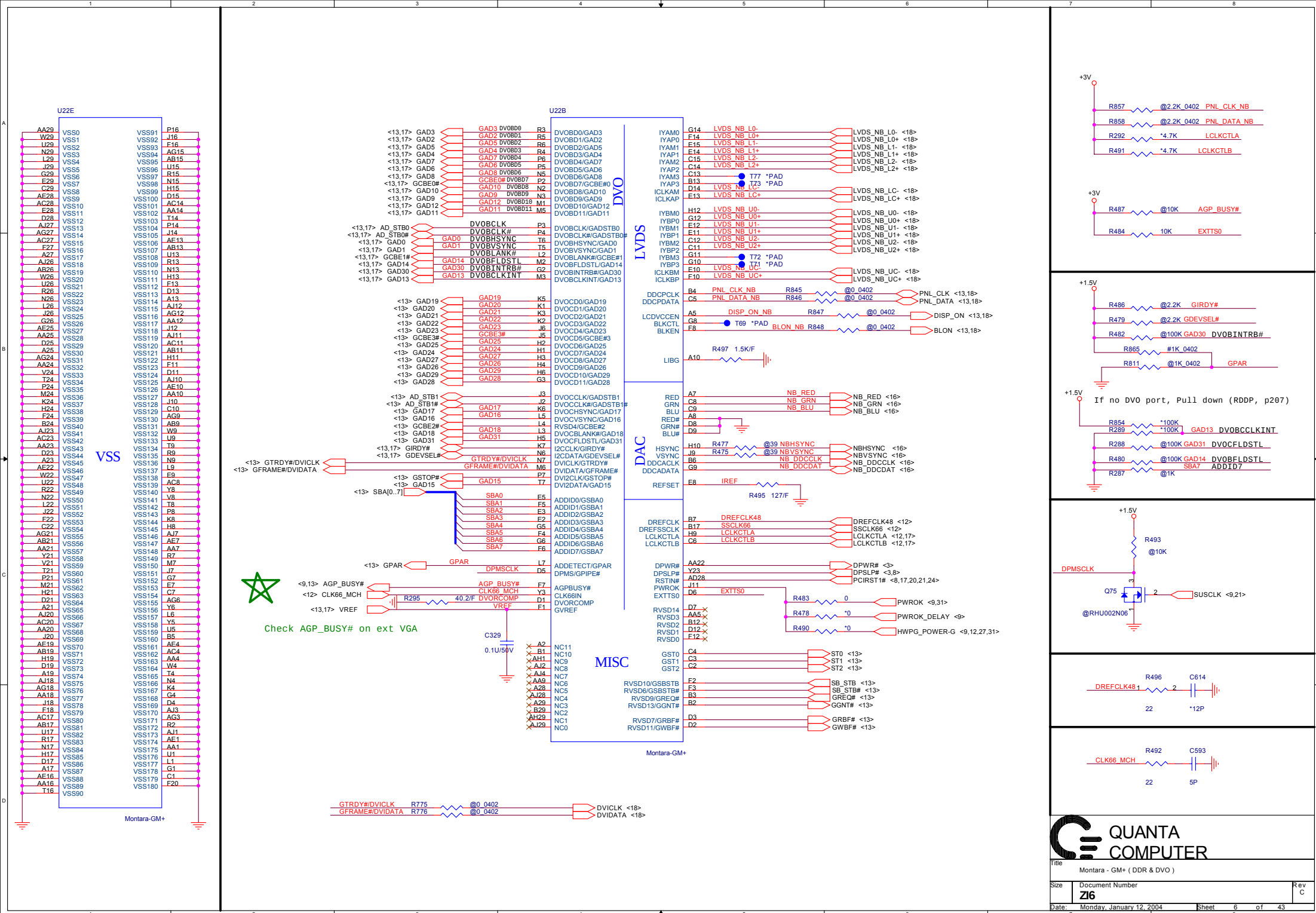


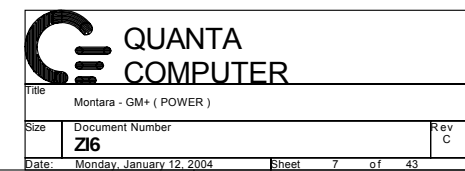
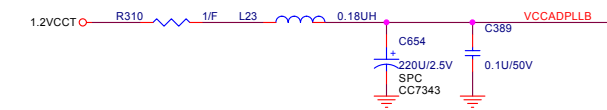
* VCC, B00T 1.2V
VCC_CORE 1.468V
(DEEPER SLEEP) 0.956V
VTT 1.05V
VCCA 1.8V

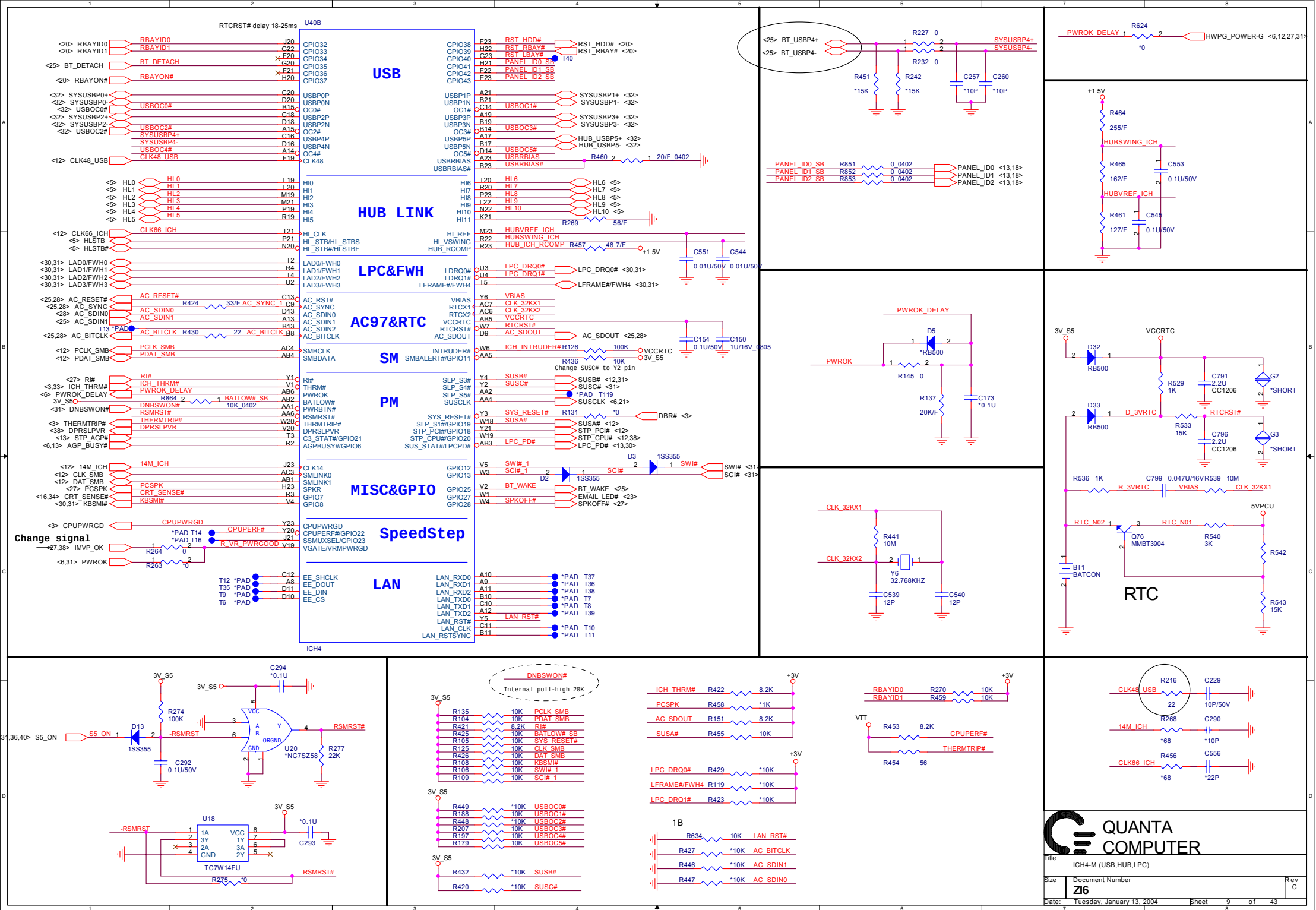


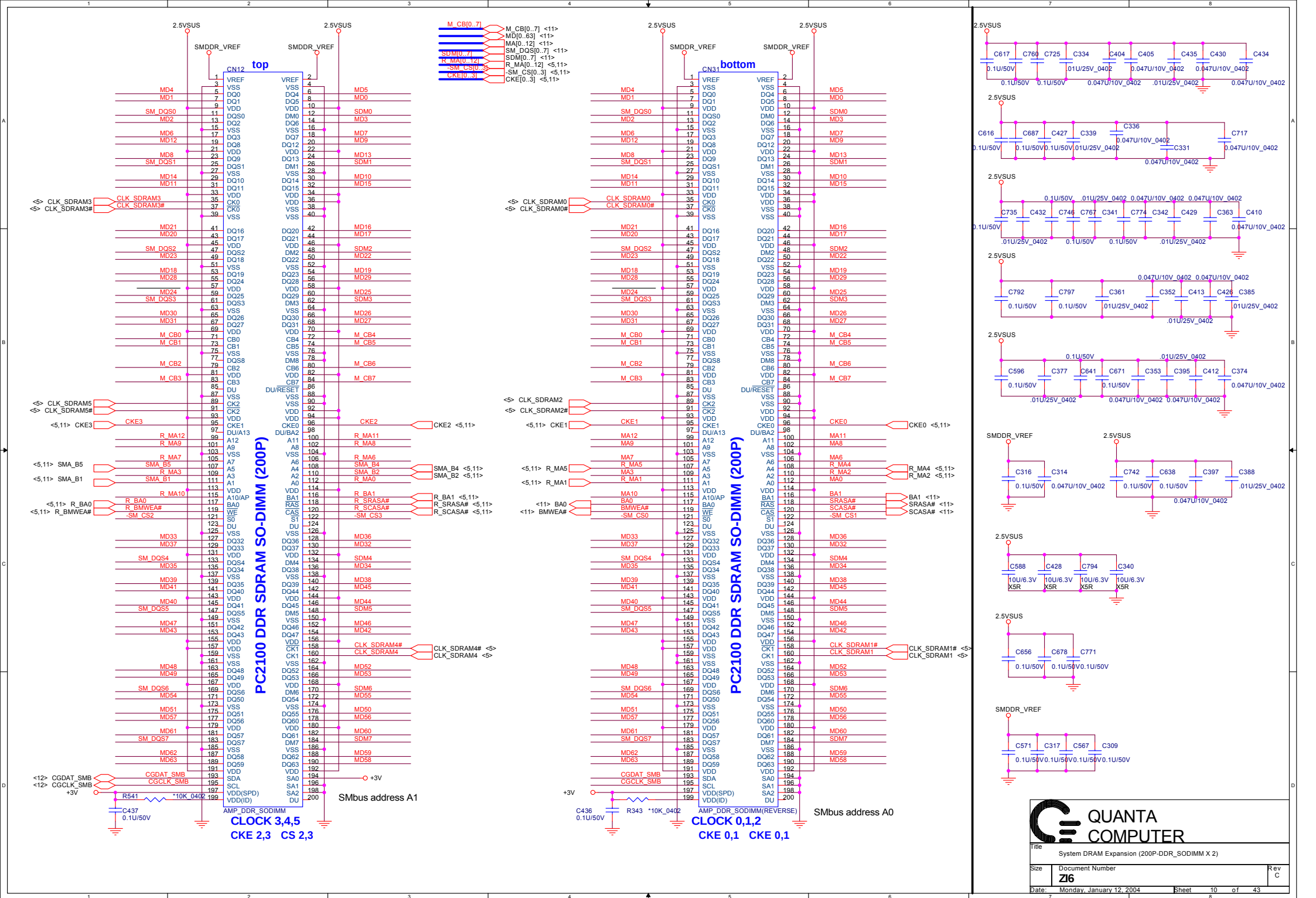
Title Banias Processor (POWER)		
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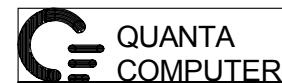
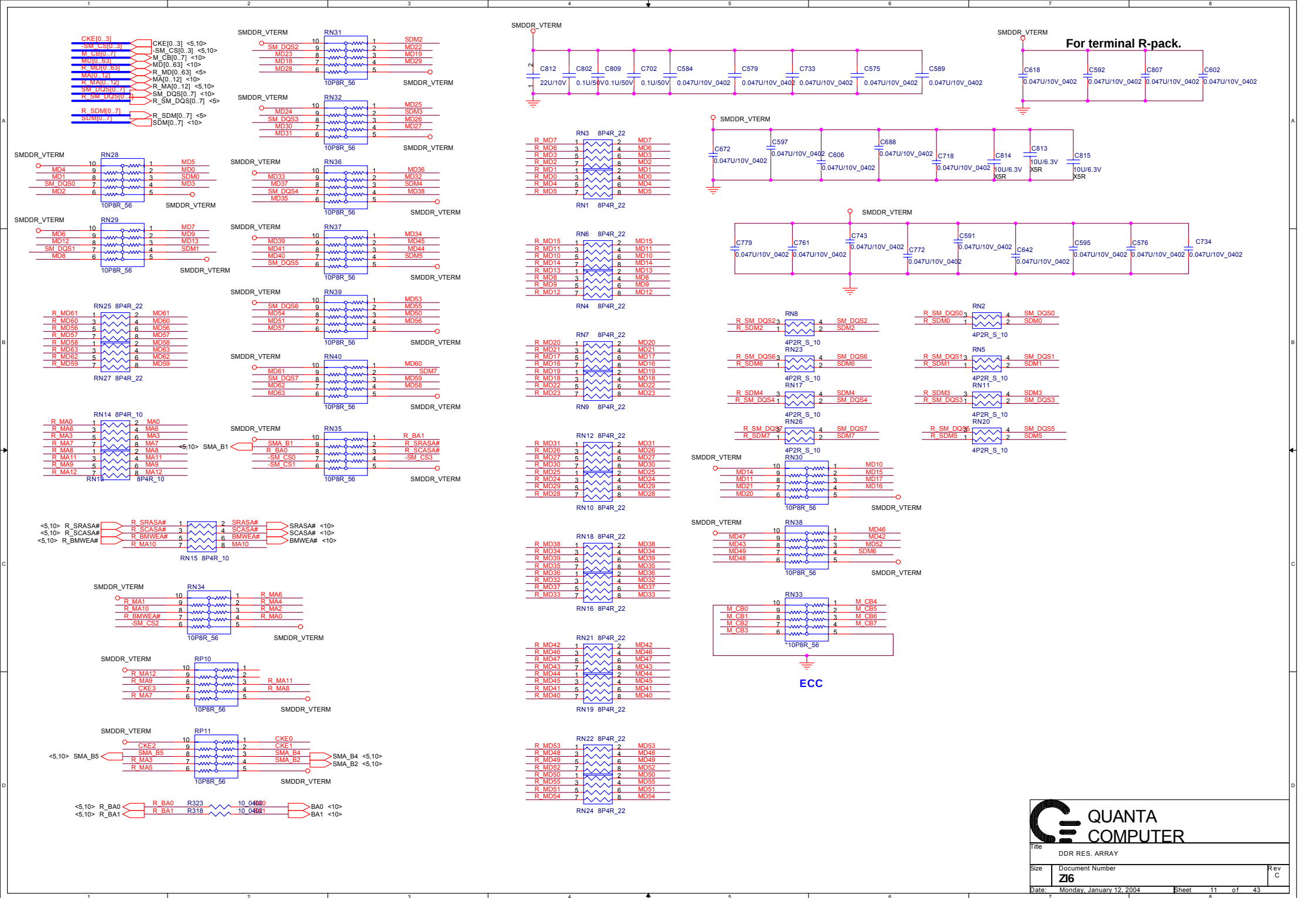




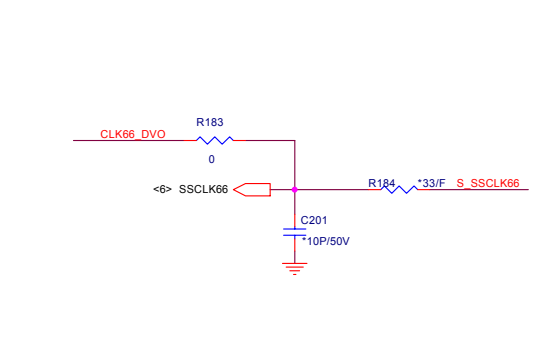
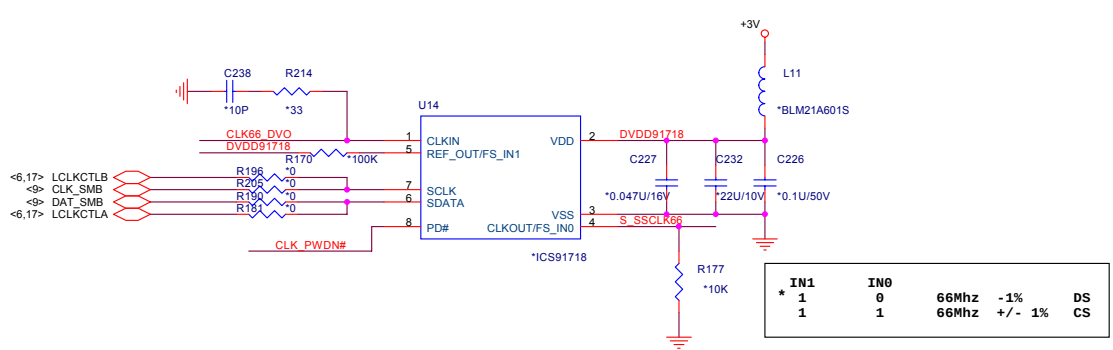
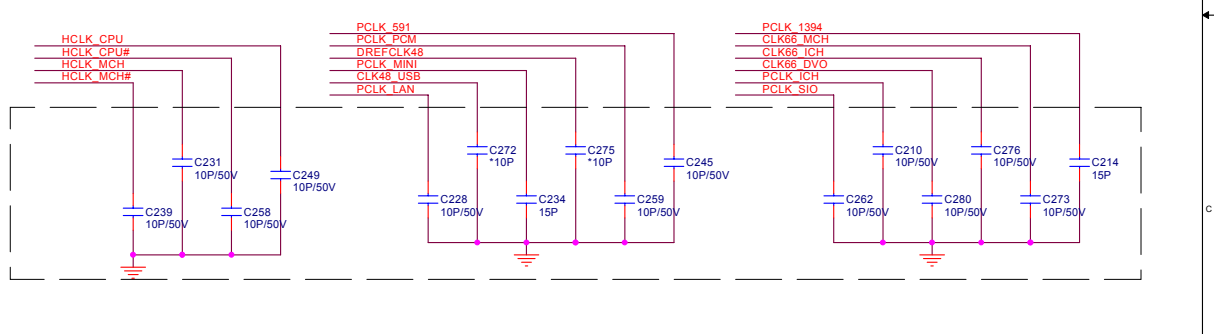
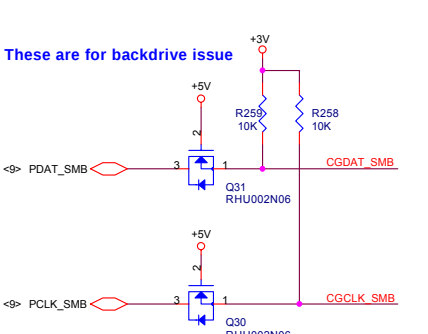
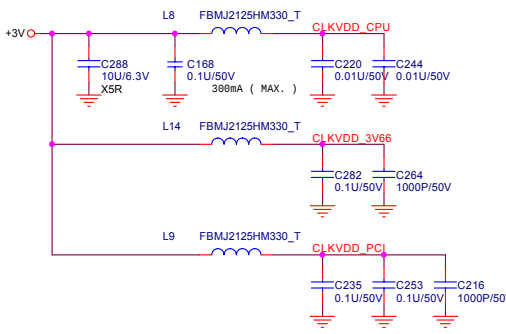
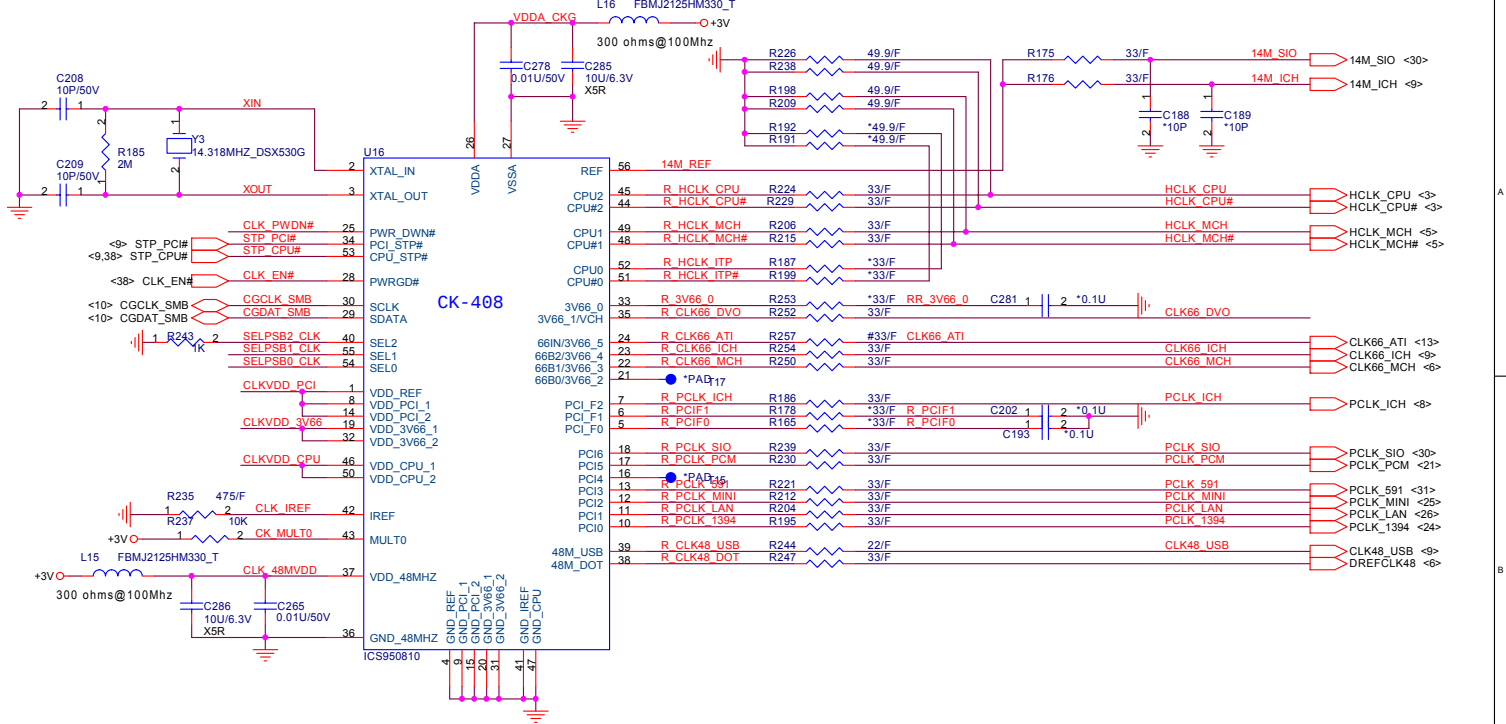
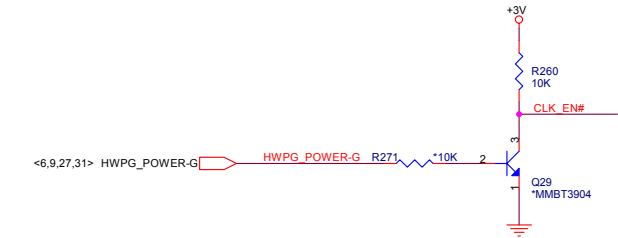
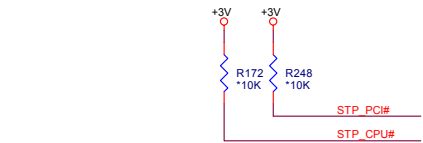
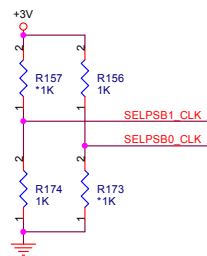








S2	S1	S0	CPU	3V66[0..4]	3V66_5/66IN
1	0	0	66	66IN	66 Input
1	0	1	100	66IN	66 Input
1	1	0	200	66IN	66 Input
1	1	1	133	66IN	66 Input
0	0	0	66	66	66 Input
0	0	1	100	66	66 Input
0	1	0	200	66	66 Input
0	1	1	133	66	66 Input

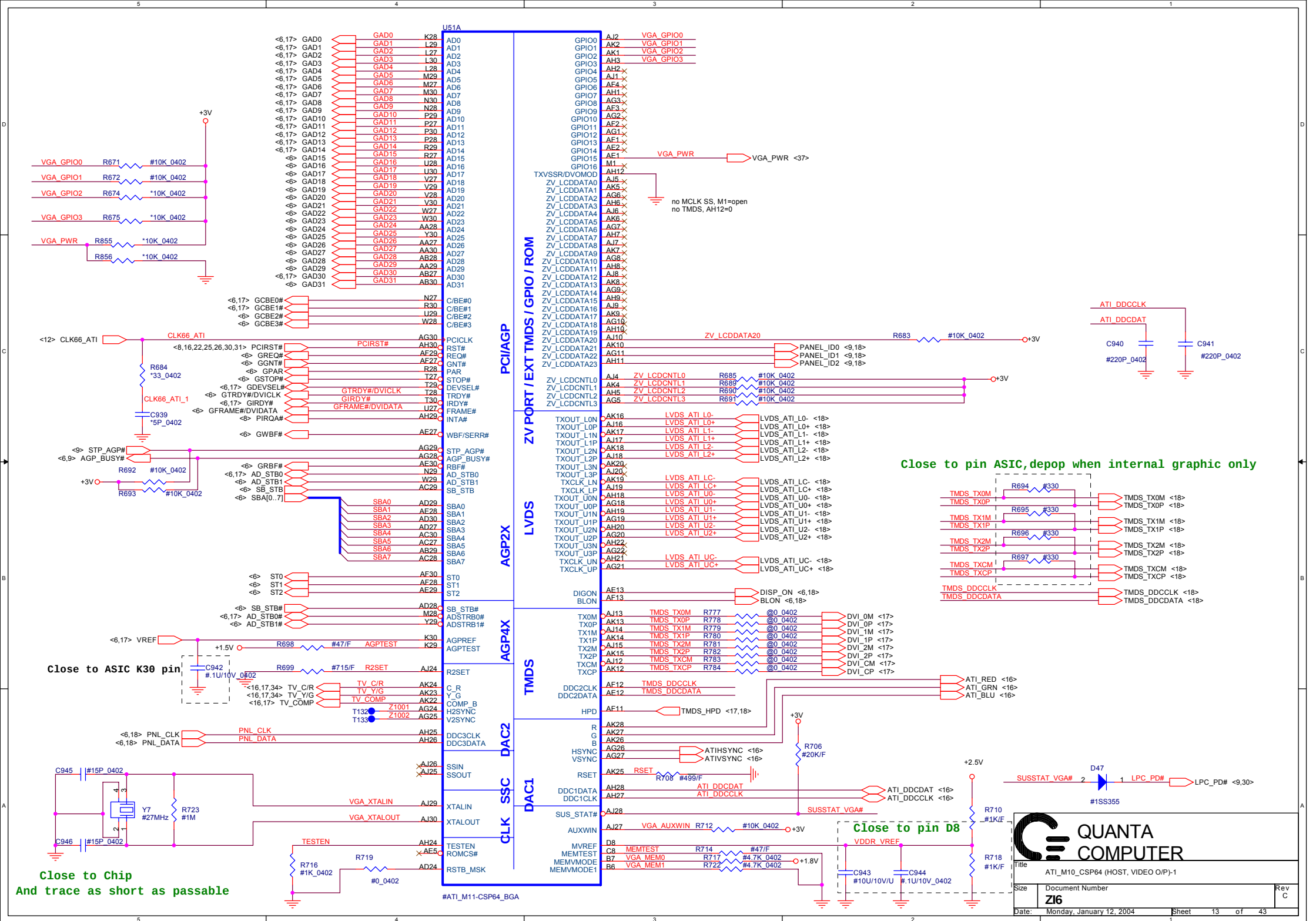


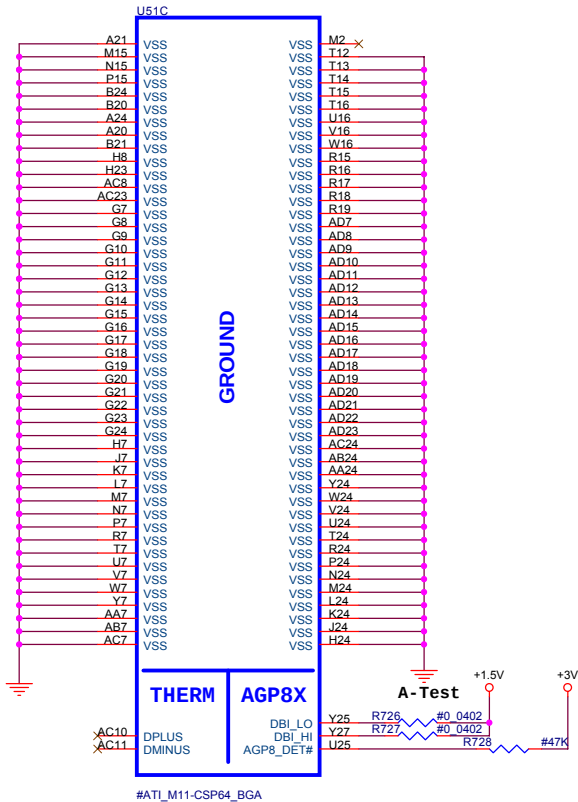
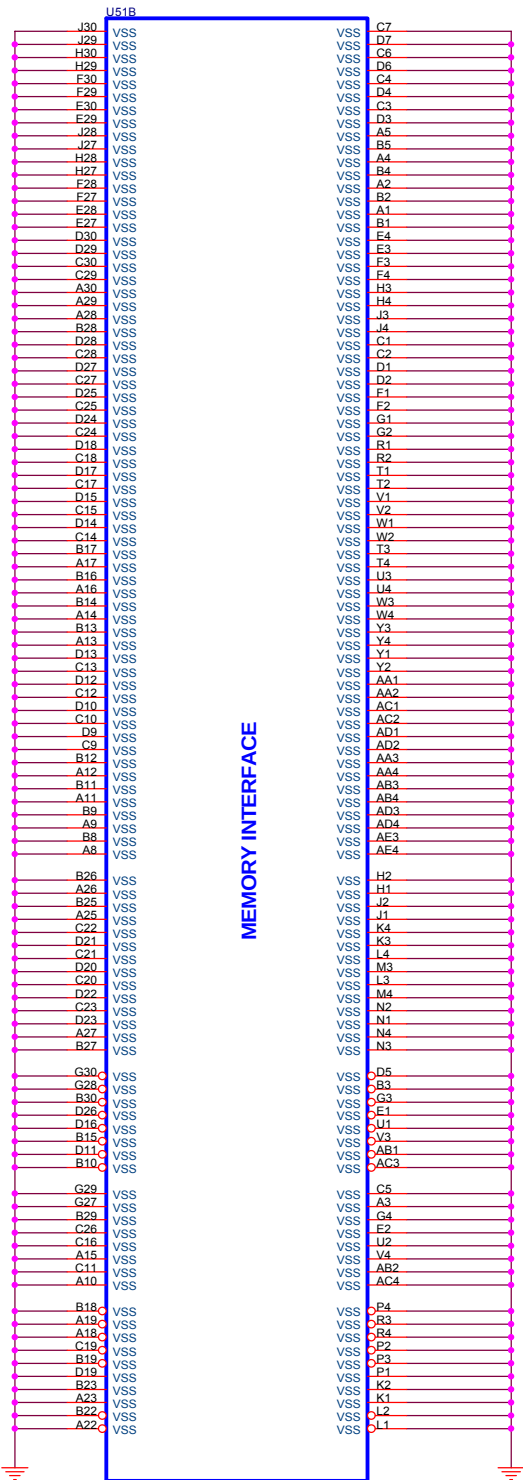
QUANTA
COMPUTER

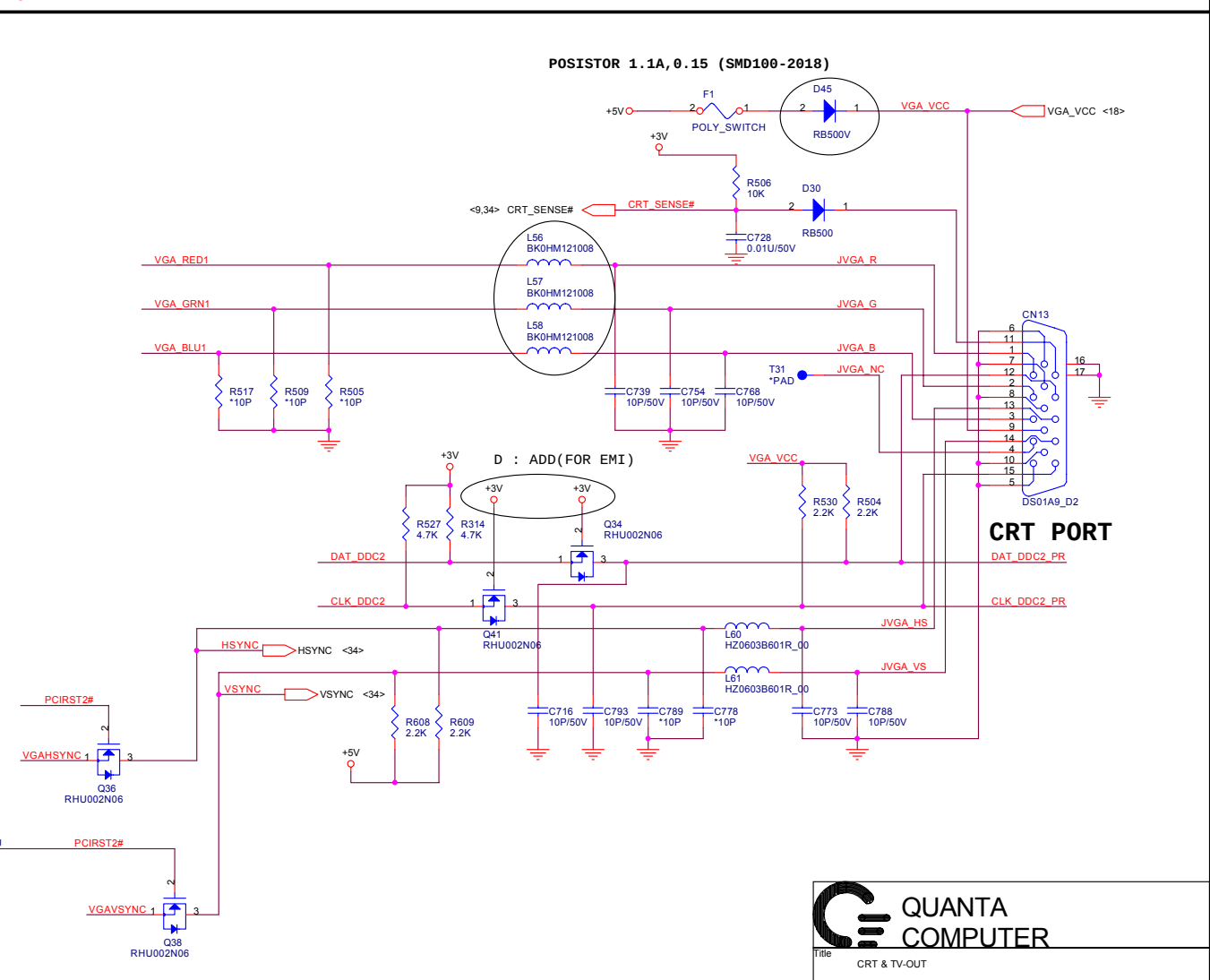
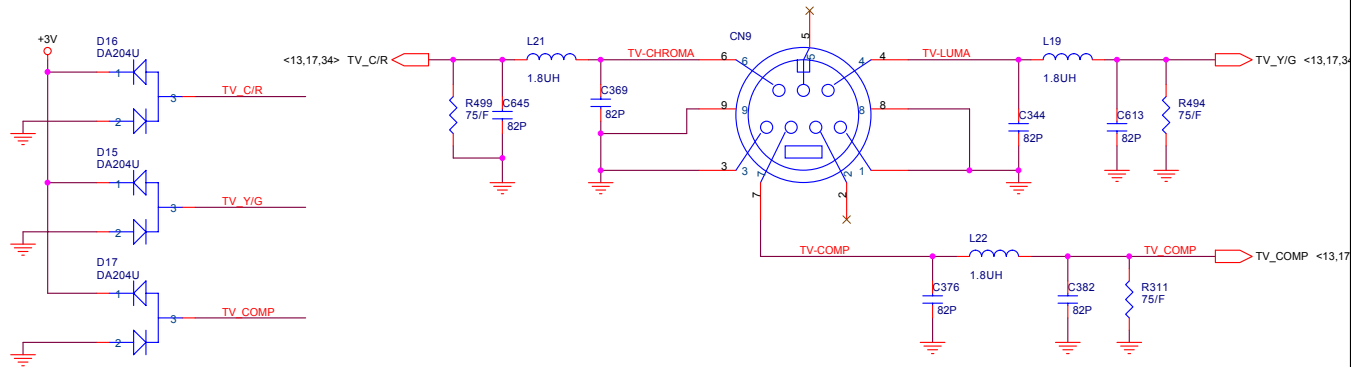
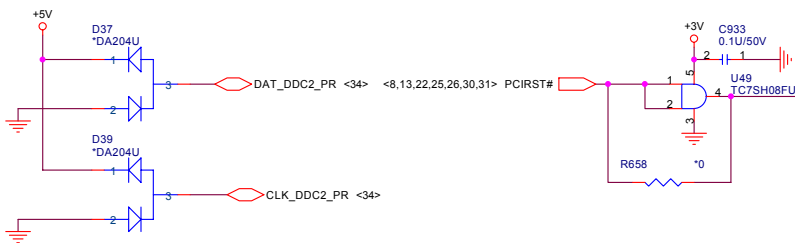
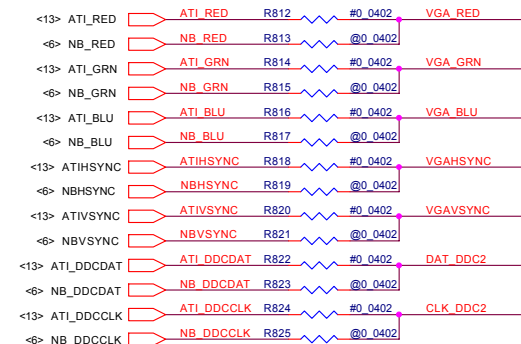
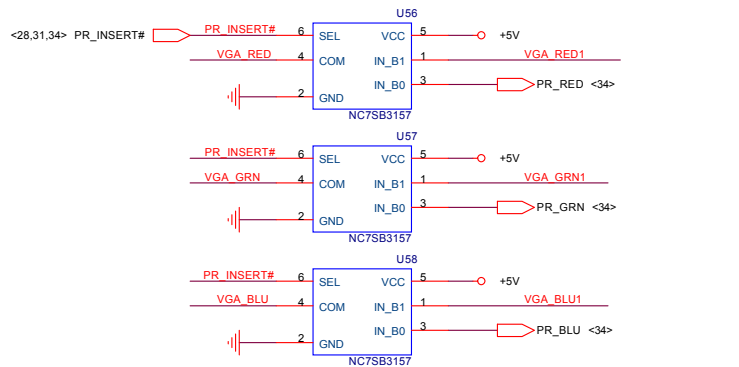
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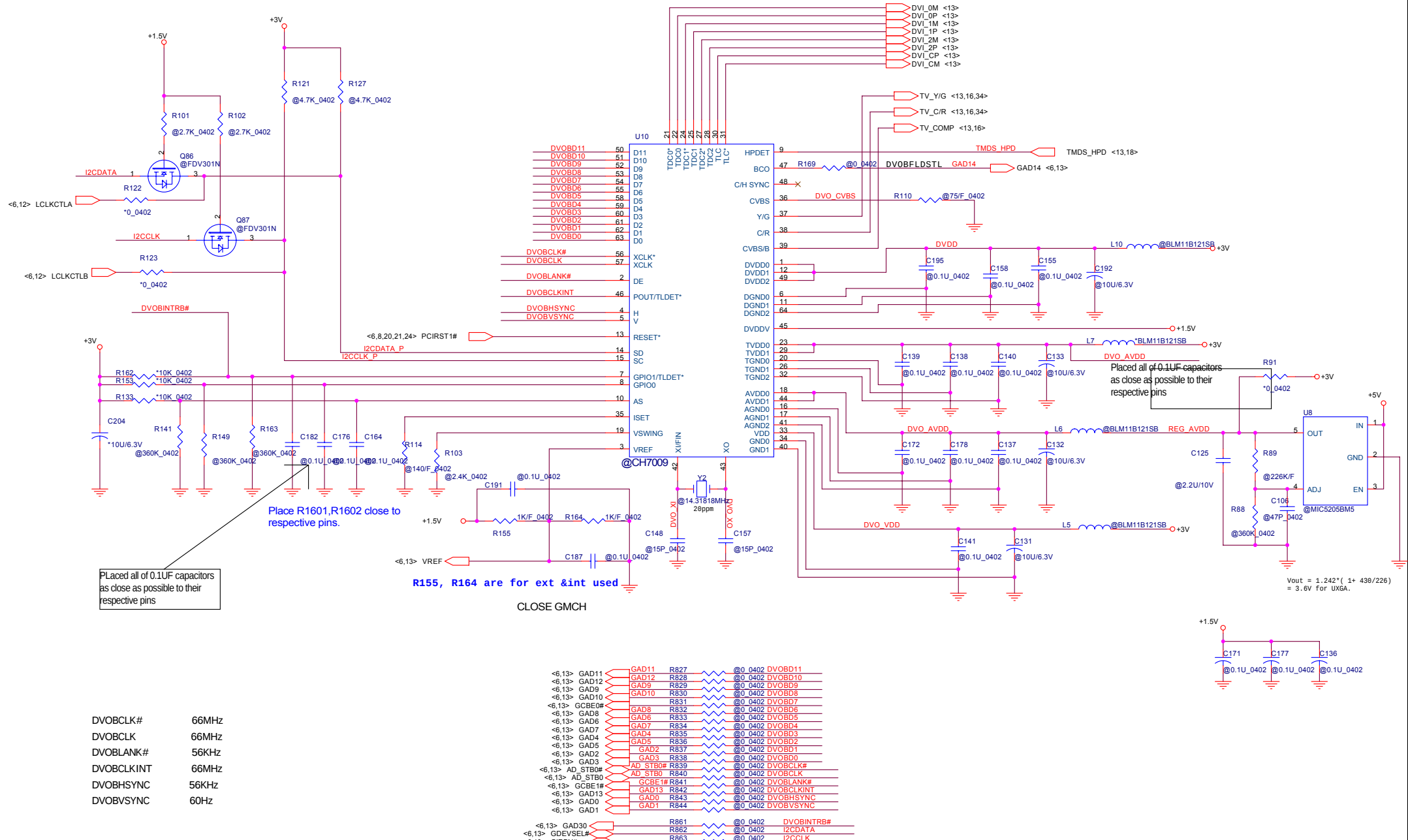
Size: Document Number
Z16

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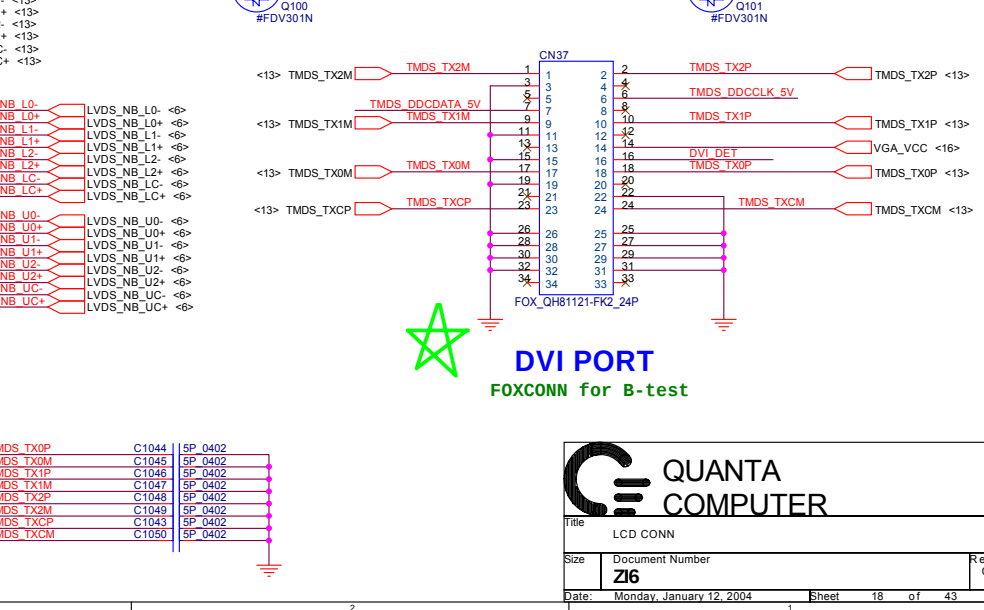
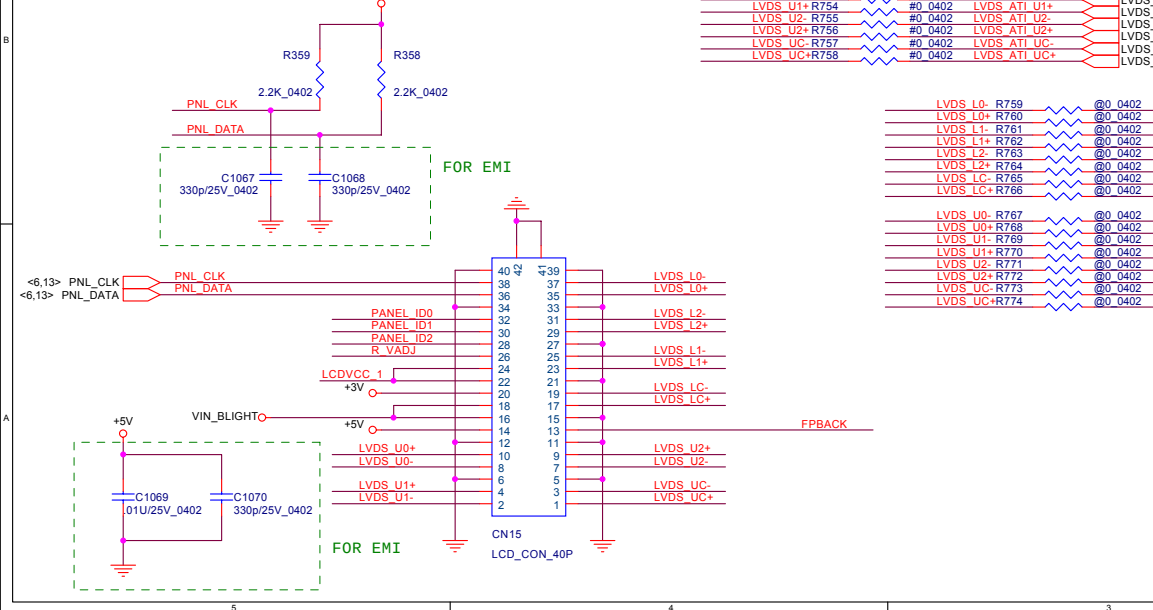
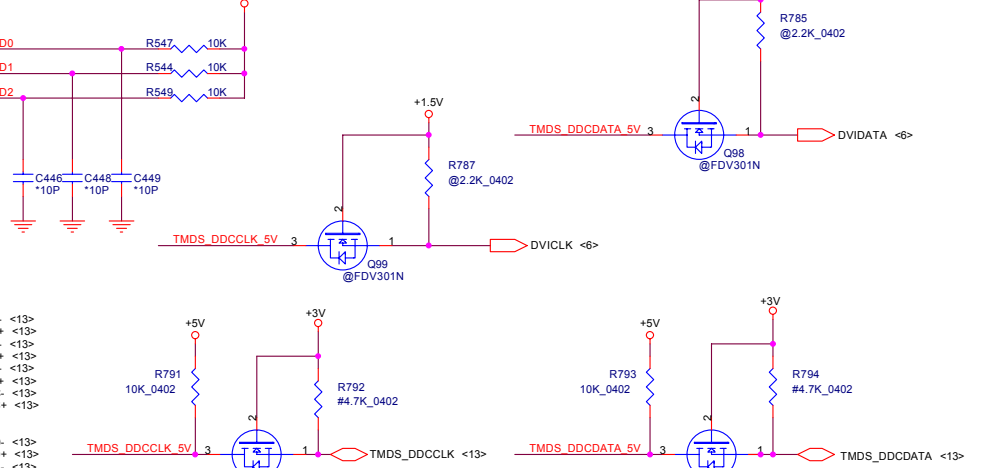
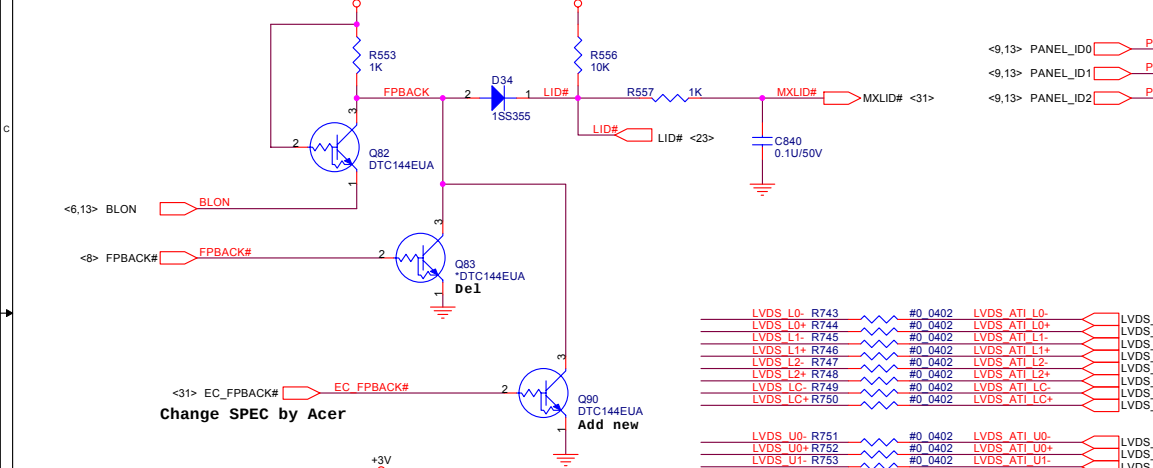
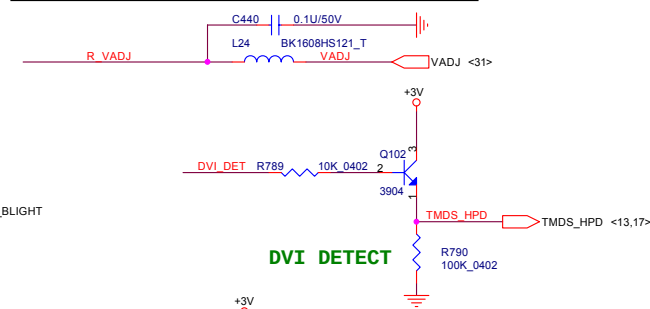
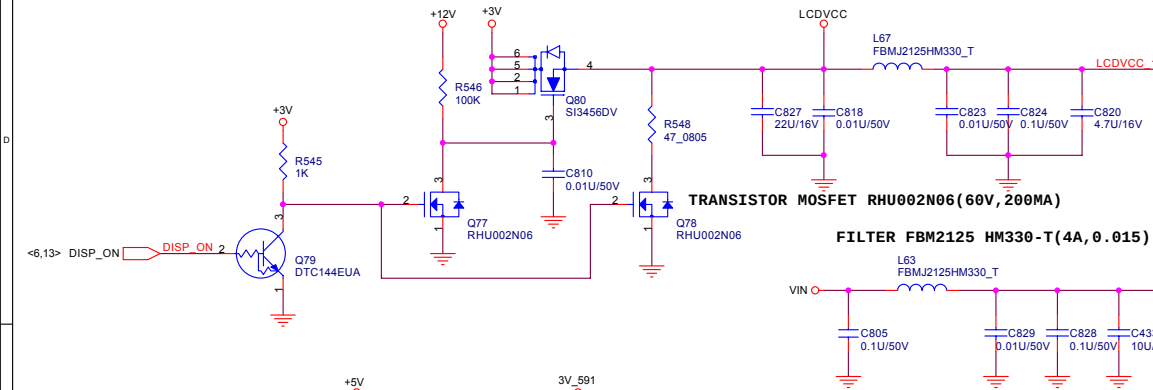




FILTER FBM2125 HM330-T(4A,0.015)

PANEL ID:

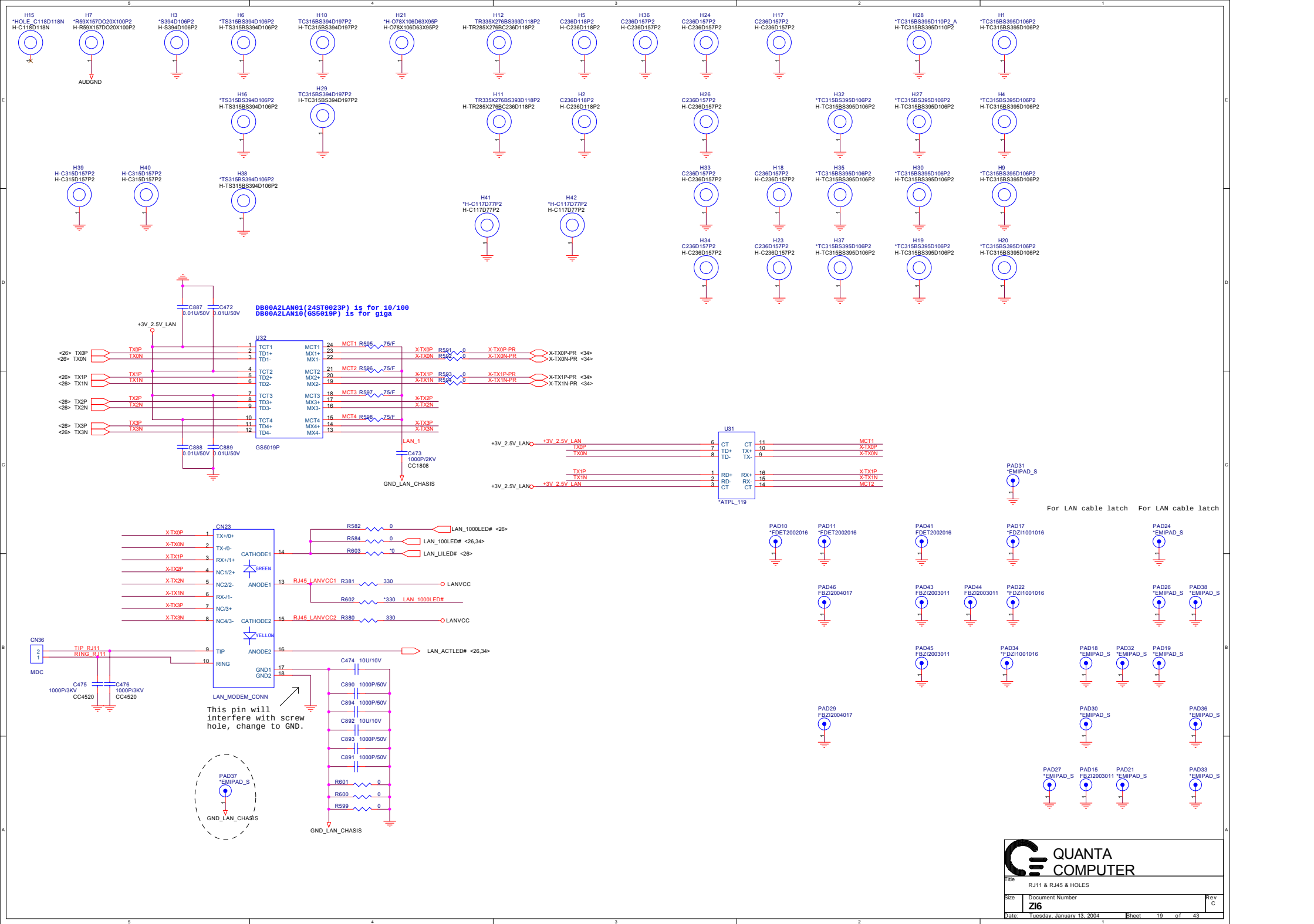
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D3	XGA	0	1	1
D4	UXGA	1	1	0
D5	SXGA+	1	0	1
D6	SXGA	1	1	0
D7	NC	1	1	1



DVI PORT
FOXCONN for B-test

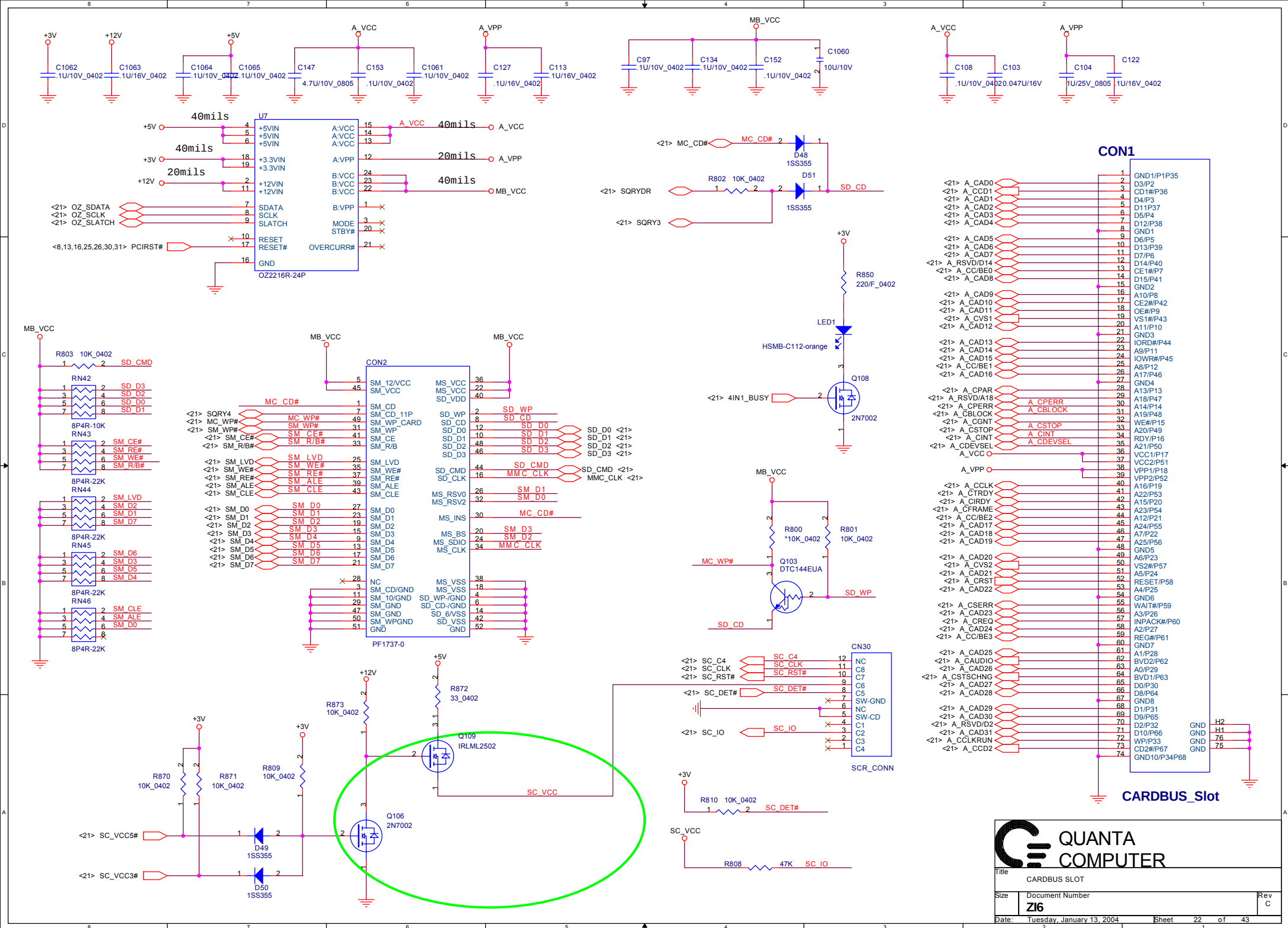
QUANTA
COMPUTER

Title	LCD CONN	Rev	C
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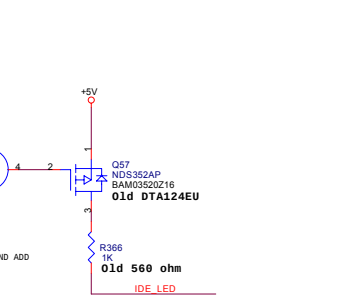
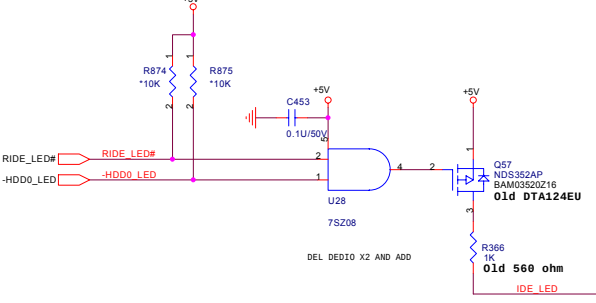
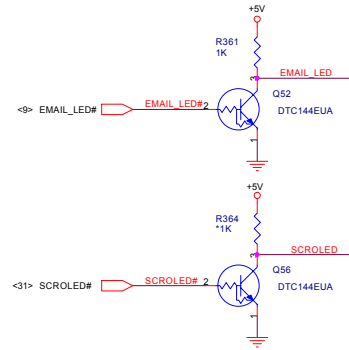
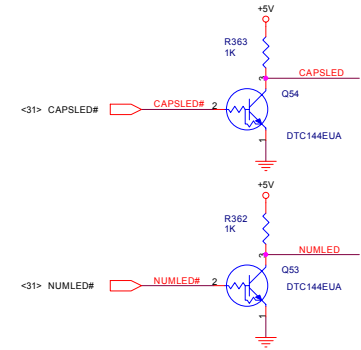
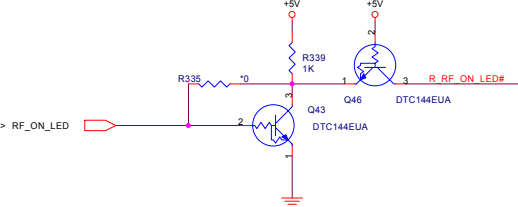
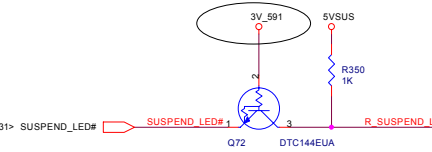
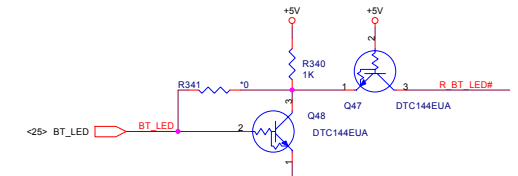
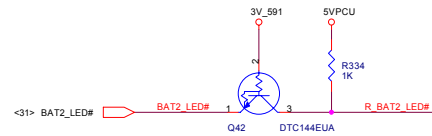
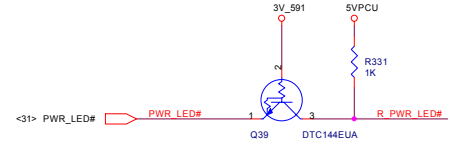
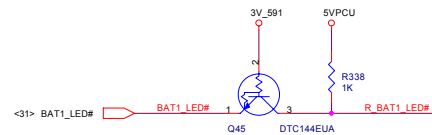
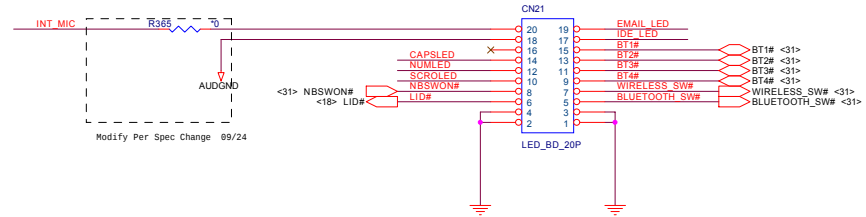
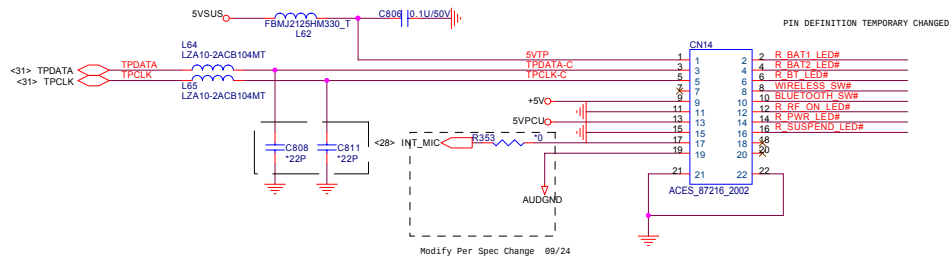




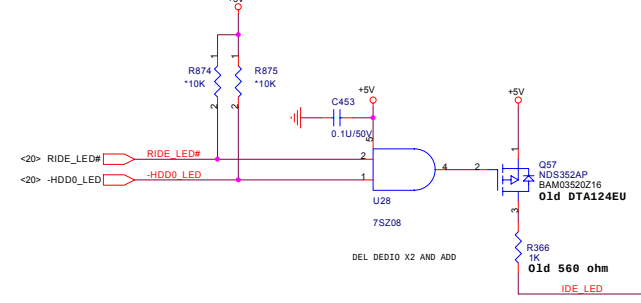
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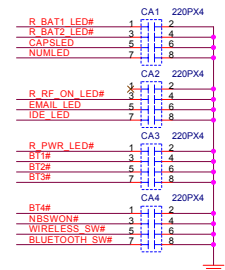
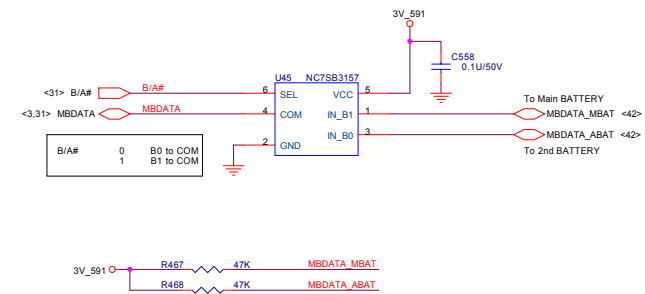
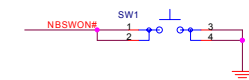
12 MIL



IDE LED CONTROL LOGIC



Del SW2



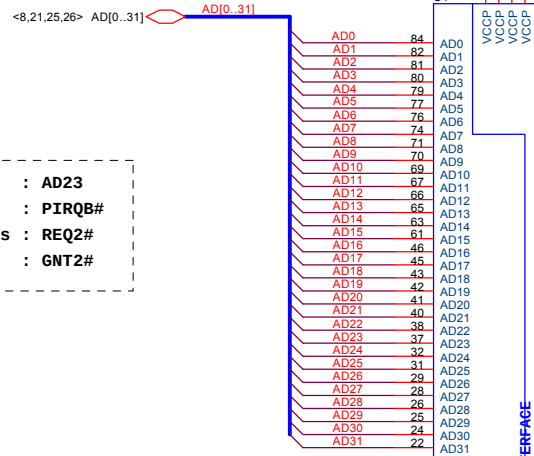
IEEE-1394

Used for vccp
(Pin20, 35, 48, 62, 78)

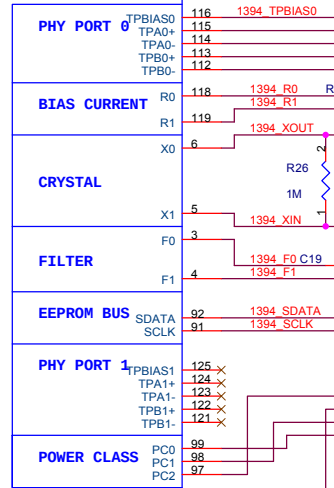
Used for vcc3
(Pin15, 27, 39, 51, 59, 72, 88, 100)

Used for AVCC
(Pin1, 2, 107, 108, 120)

ID Select : AD23
Interrupt Pin : PIRQB#
Request indicates : REQ2#
Grant indicates : GNT2#



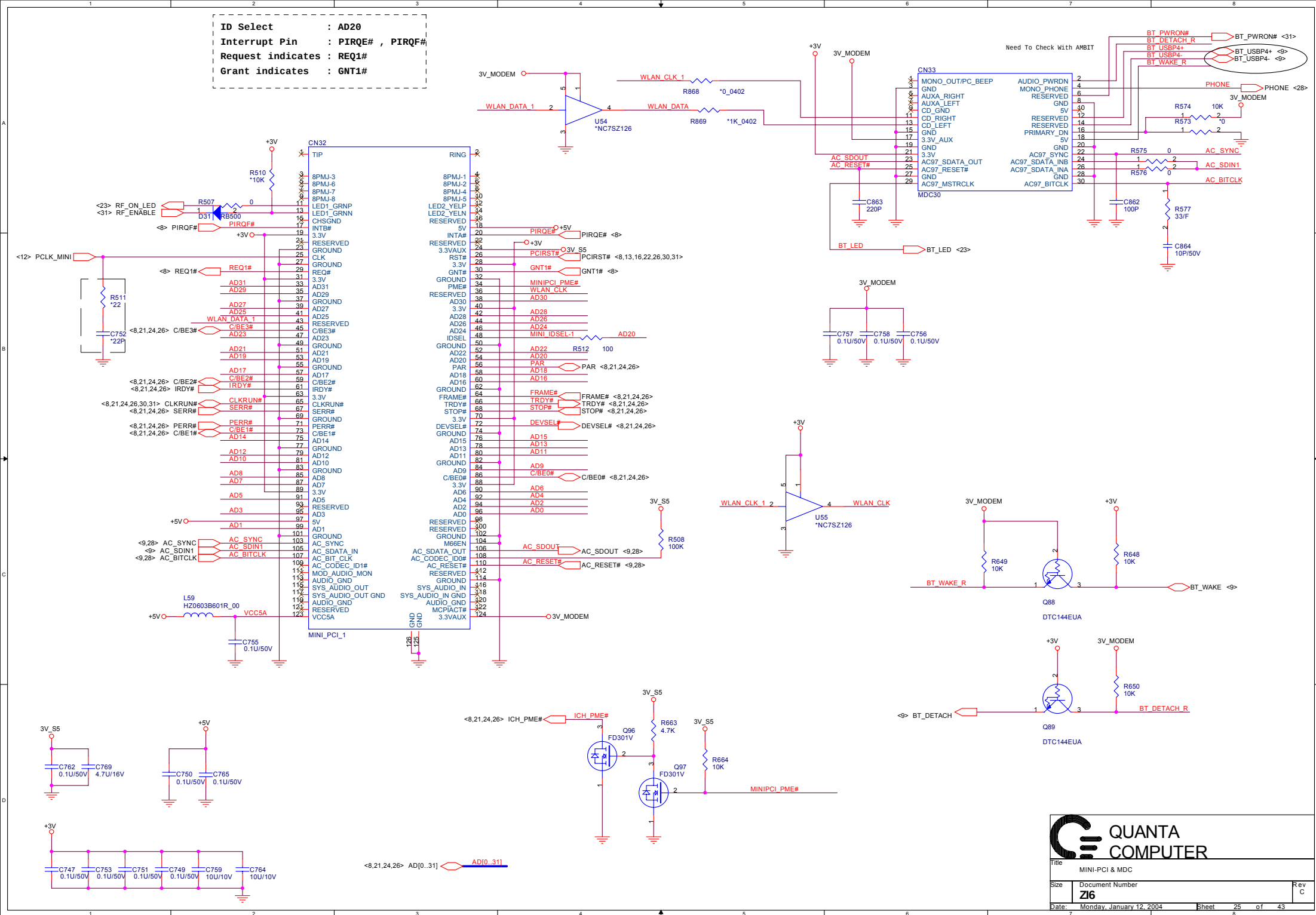
PCI INTERFACE

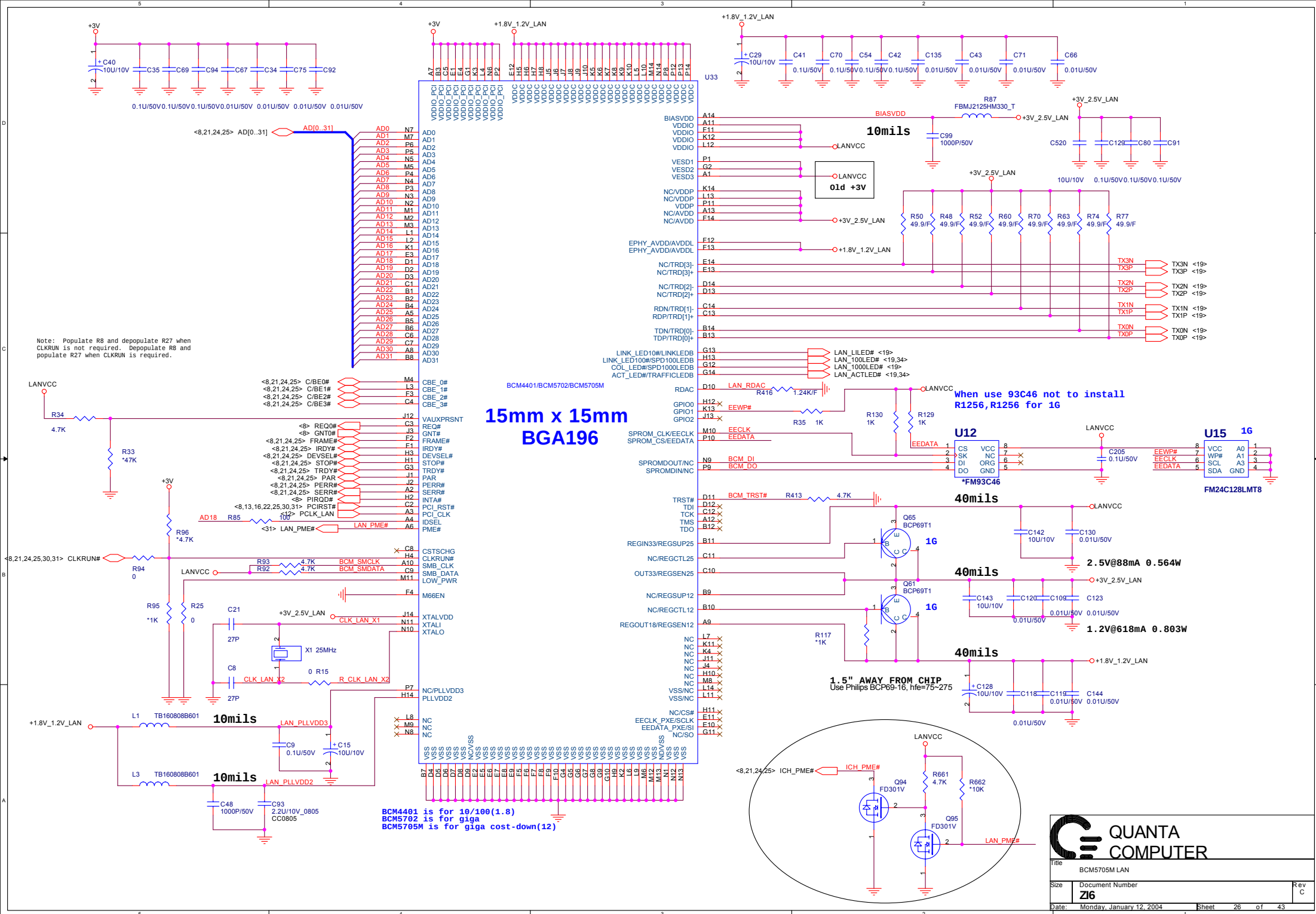


For ATE

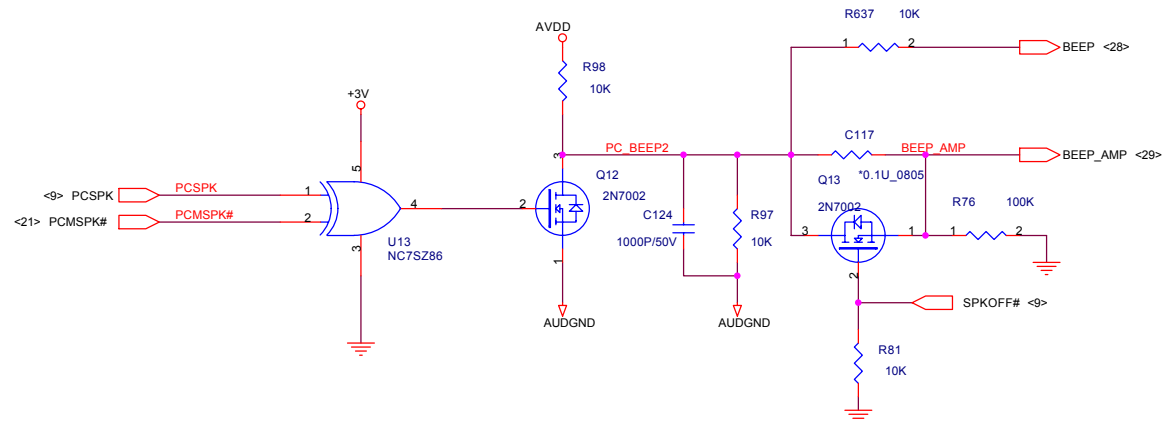
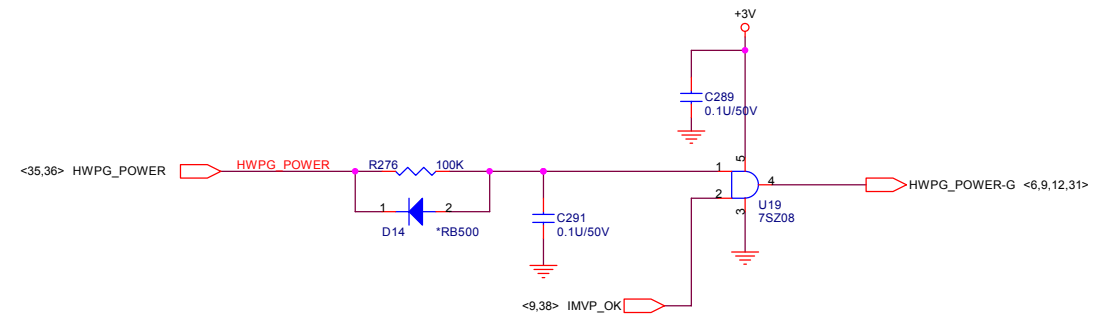
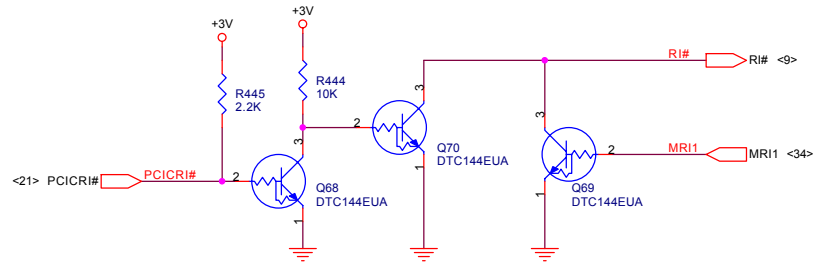
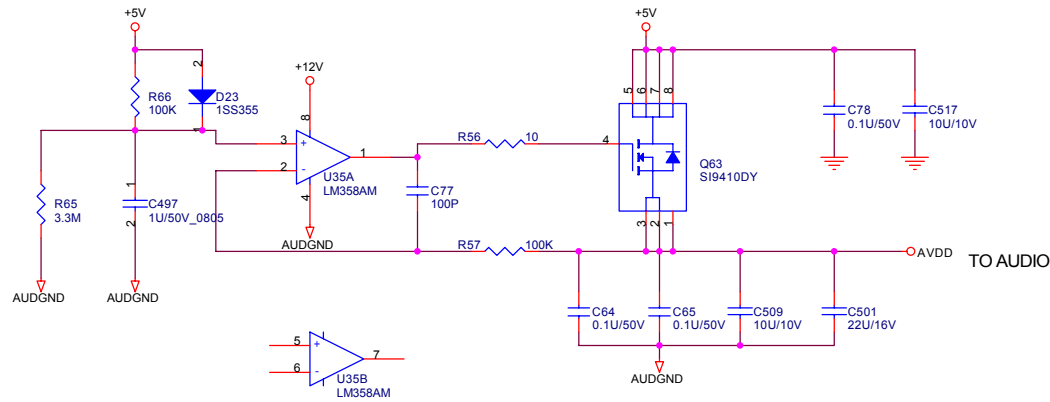
For EMI Request; PAD size is not determined yet.

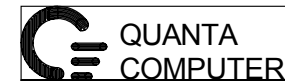






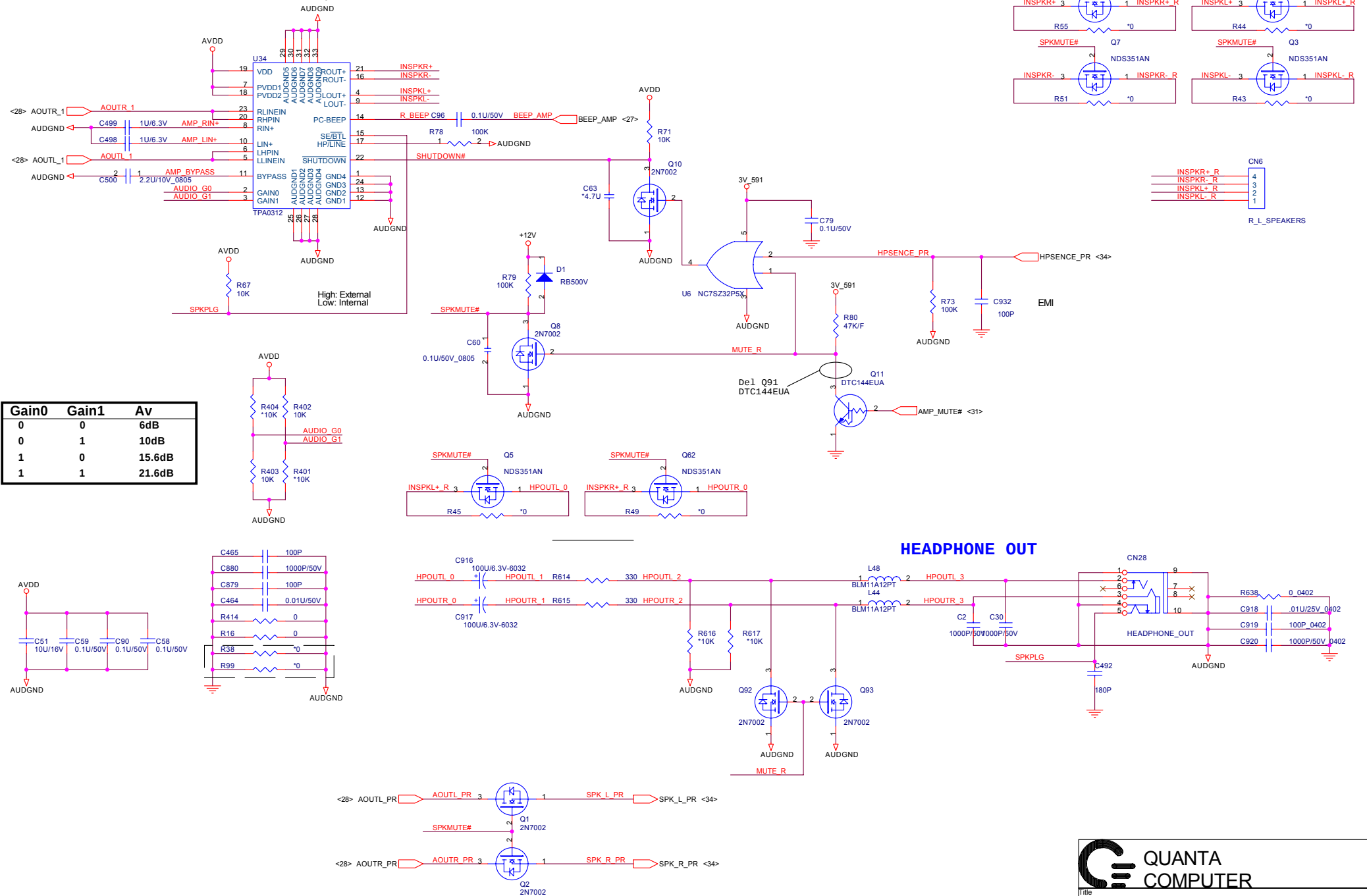
AUDIO POWER





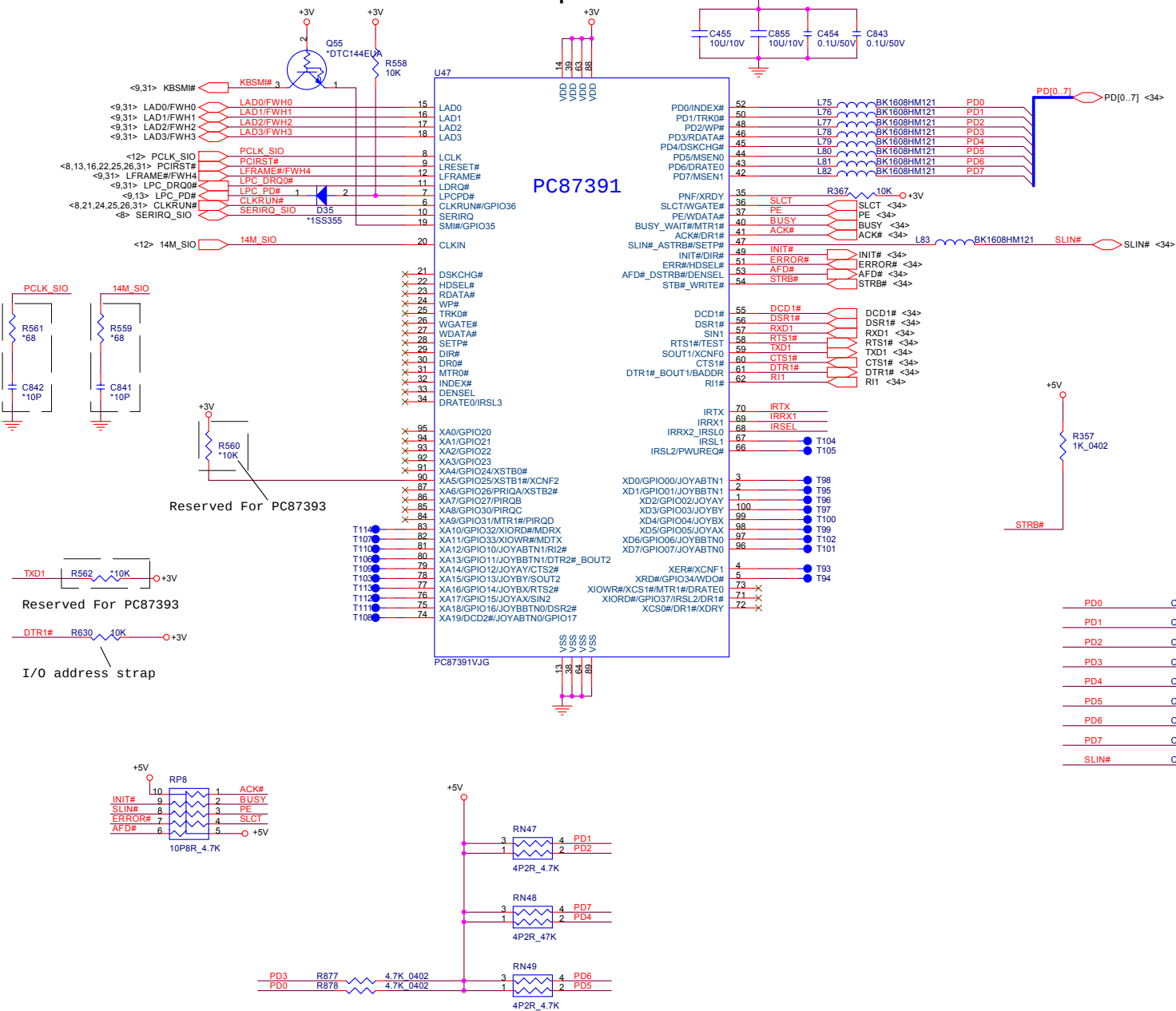
Title		ACP7 CODEC	
Size	Document Number	Rev	
	Z16	C	
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Audio Amplifier

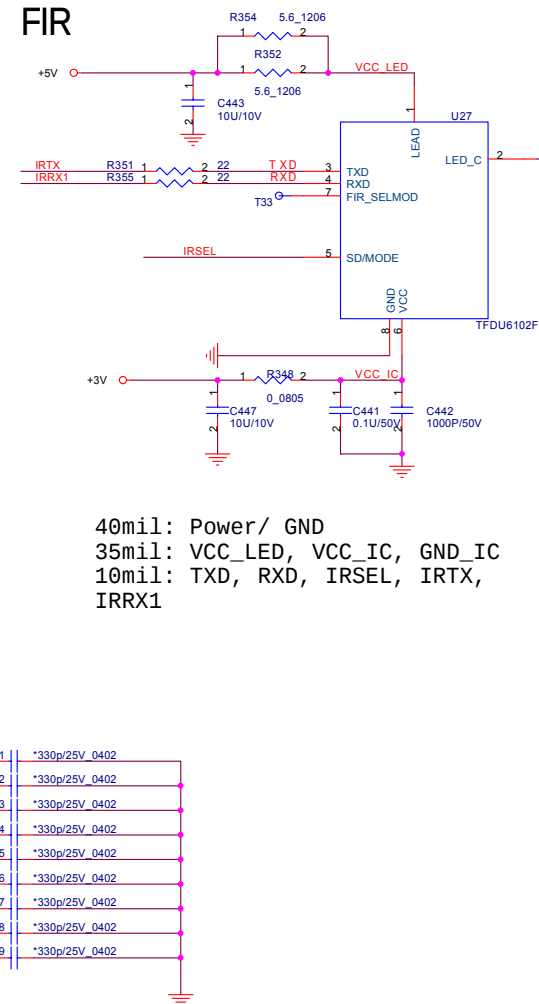


Super I/O

PC87391

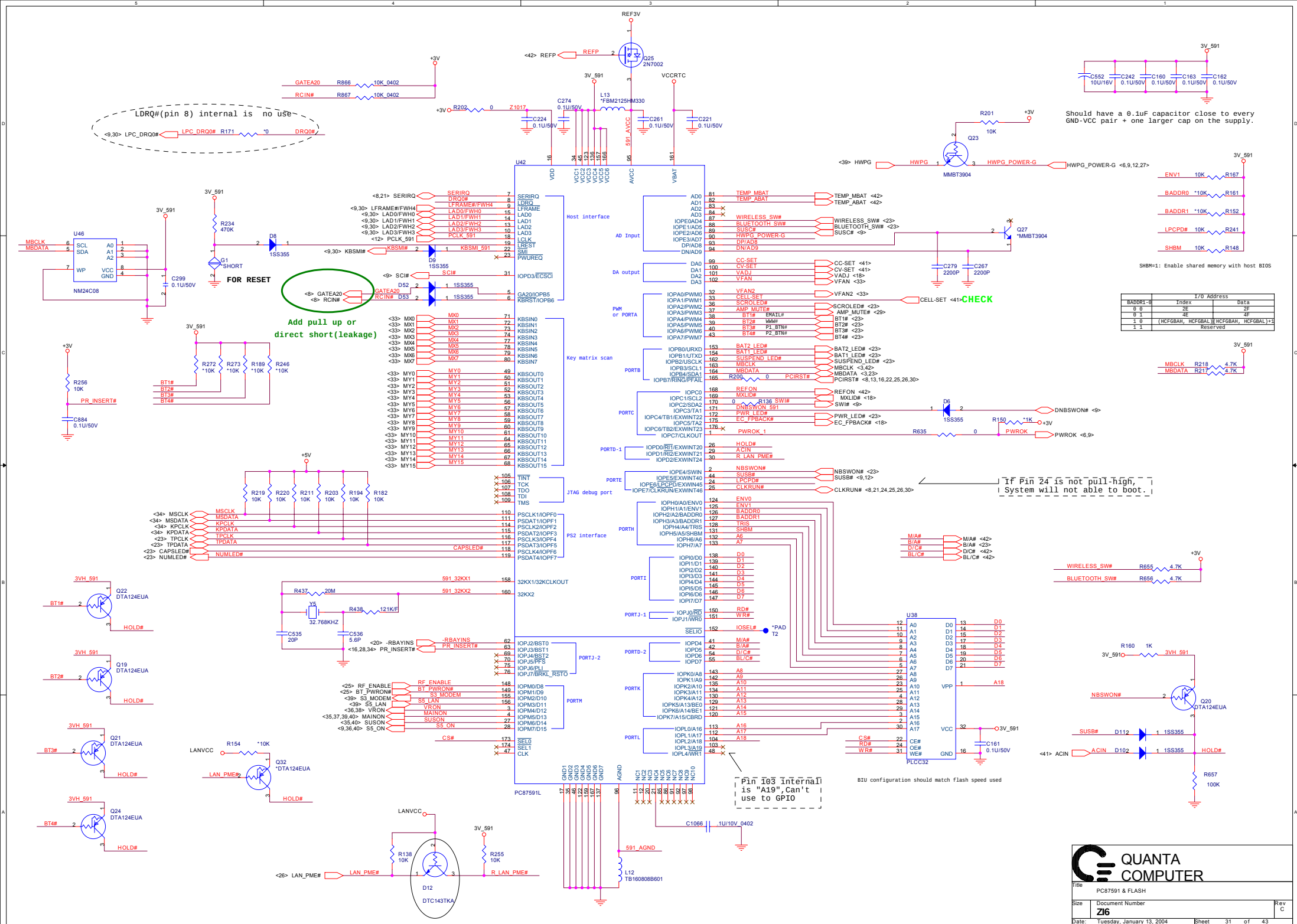


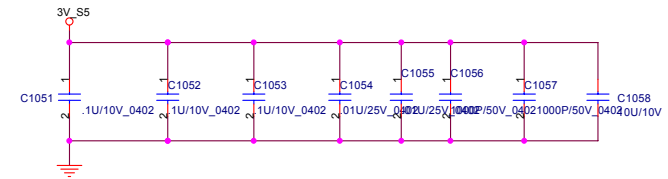
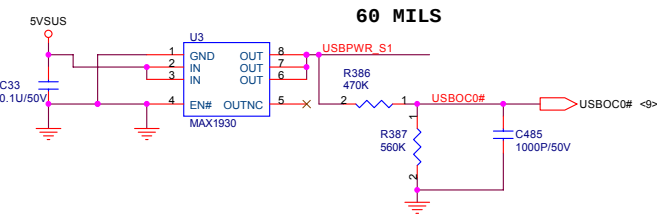
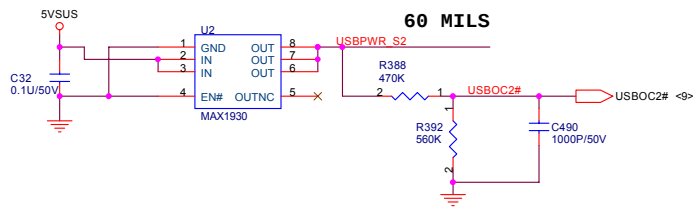
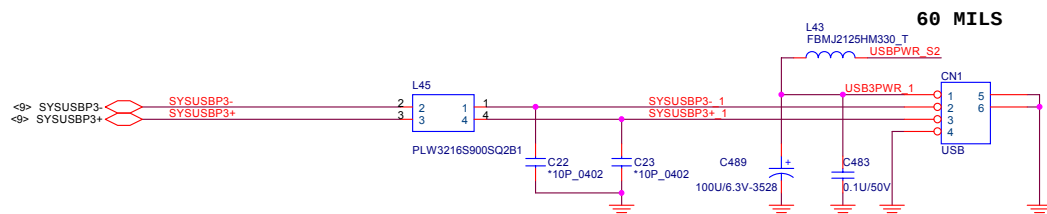
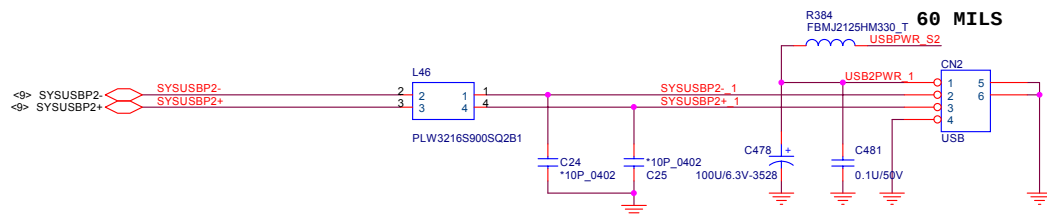
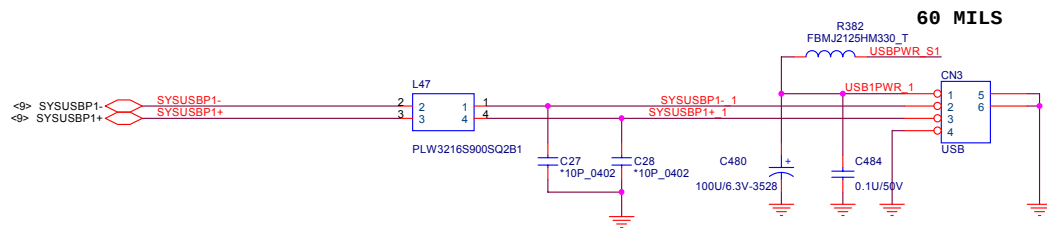
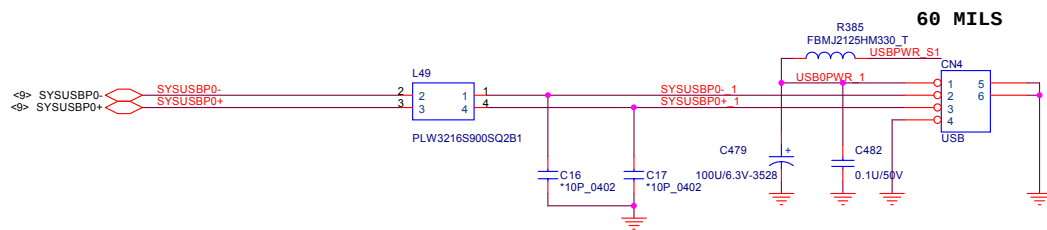
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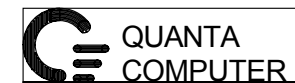
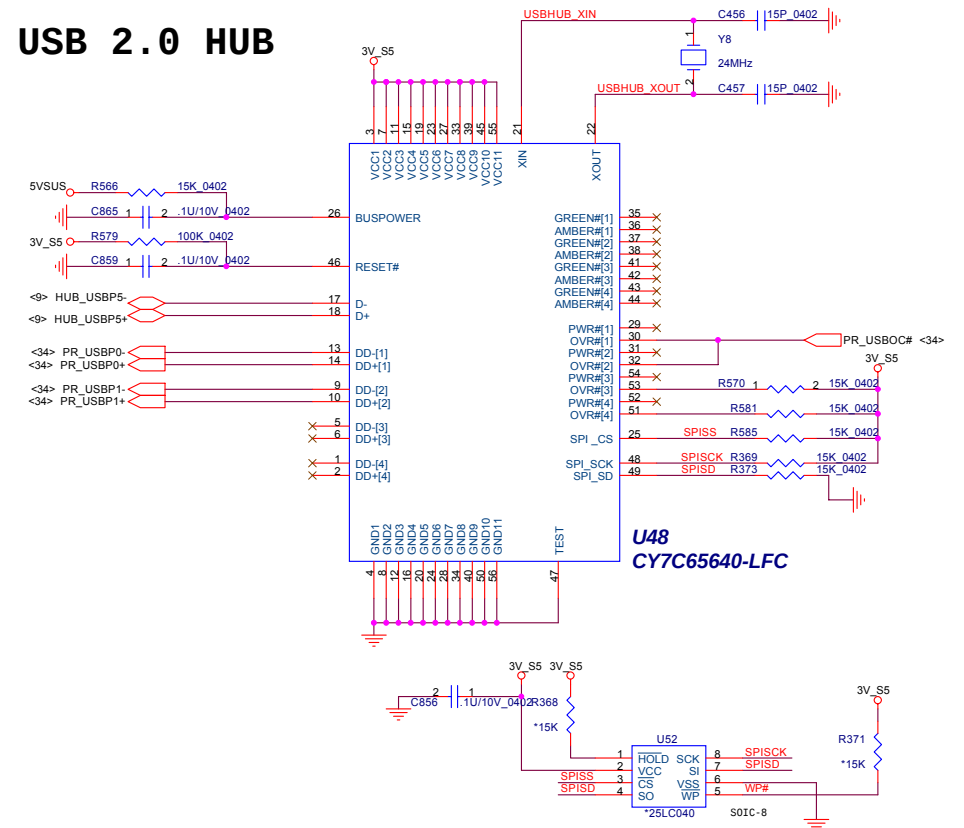
40mil: Power/ GND
35mil: VCC_LED, VCC_IC, GND_IC
10mil: TXD, RXD, IRSEL, IRTX, IRRX1

PD0	C1071	*330p/25V_0402
PD1	C1072	*330p/25V_0402
PD2	C1073	*330p/25V_0402
PD3	C1074	*330p/25V_0402
PD4	C1075	*330p/25V_0402
PD5	C1076	*330p/25V_0402
PD6	C1077	*330p/25V_0402
PD7	C1078	*330p/25V_0402
SLIN#	C1079	*330p/25V_0402

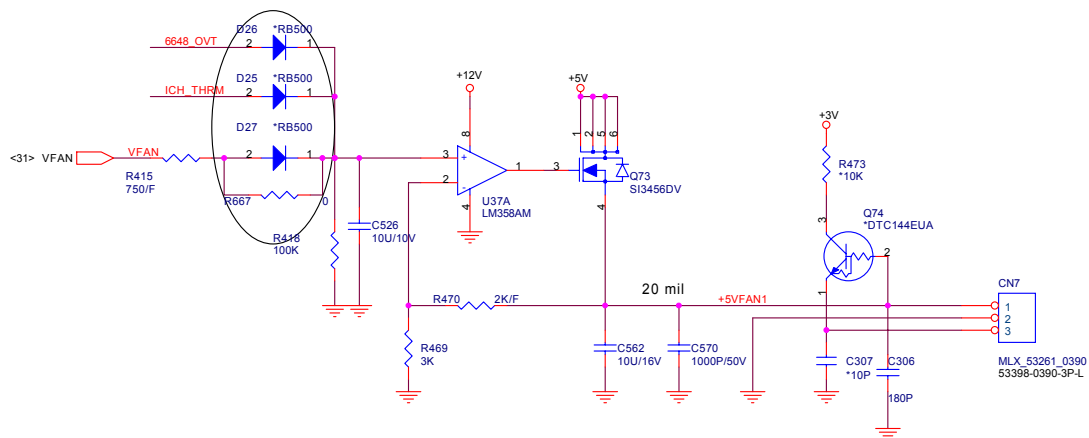




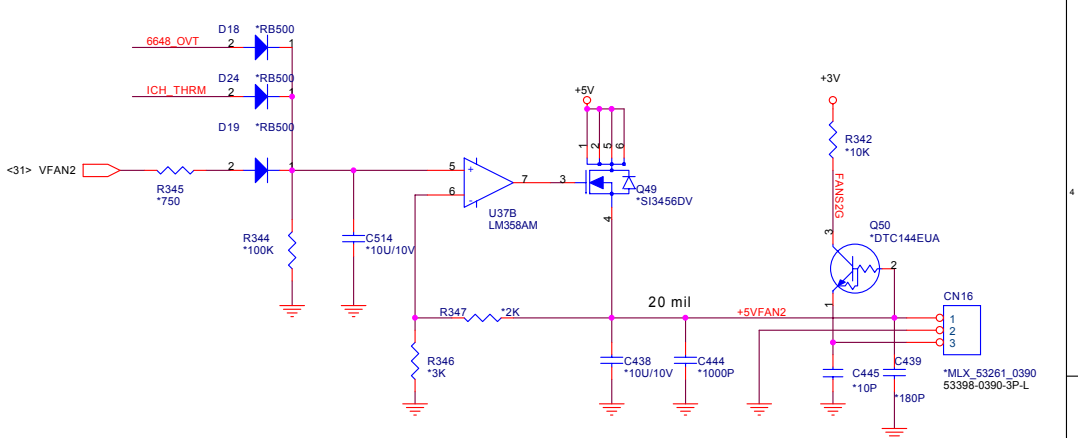
USB 2.0 HUB



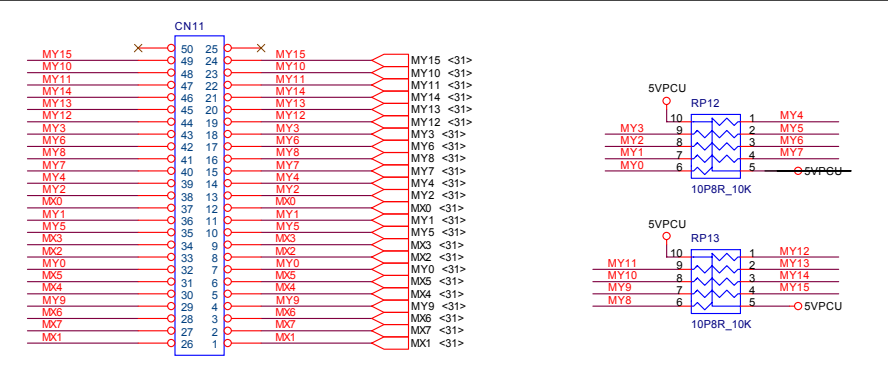
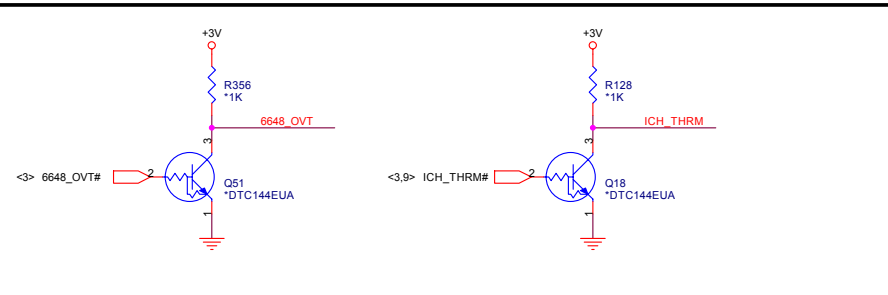
Title			USB CONN.
Size	Document Number	Rev C	
	Z16		
Date	Monday, January 12, 2004	Sheet	32 of 43



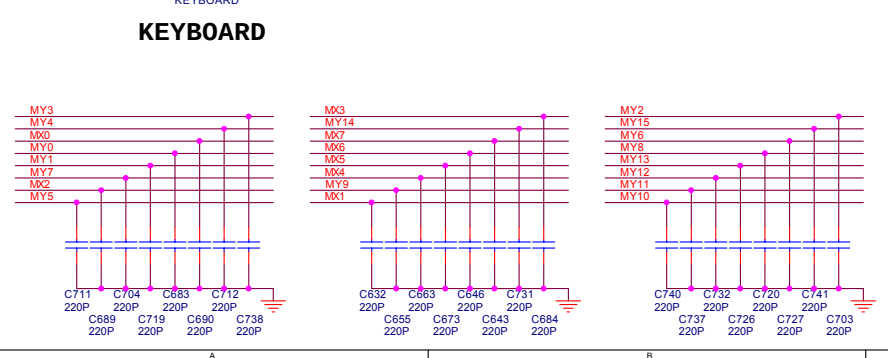
1st FAN OUT CONNECTOR

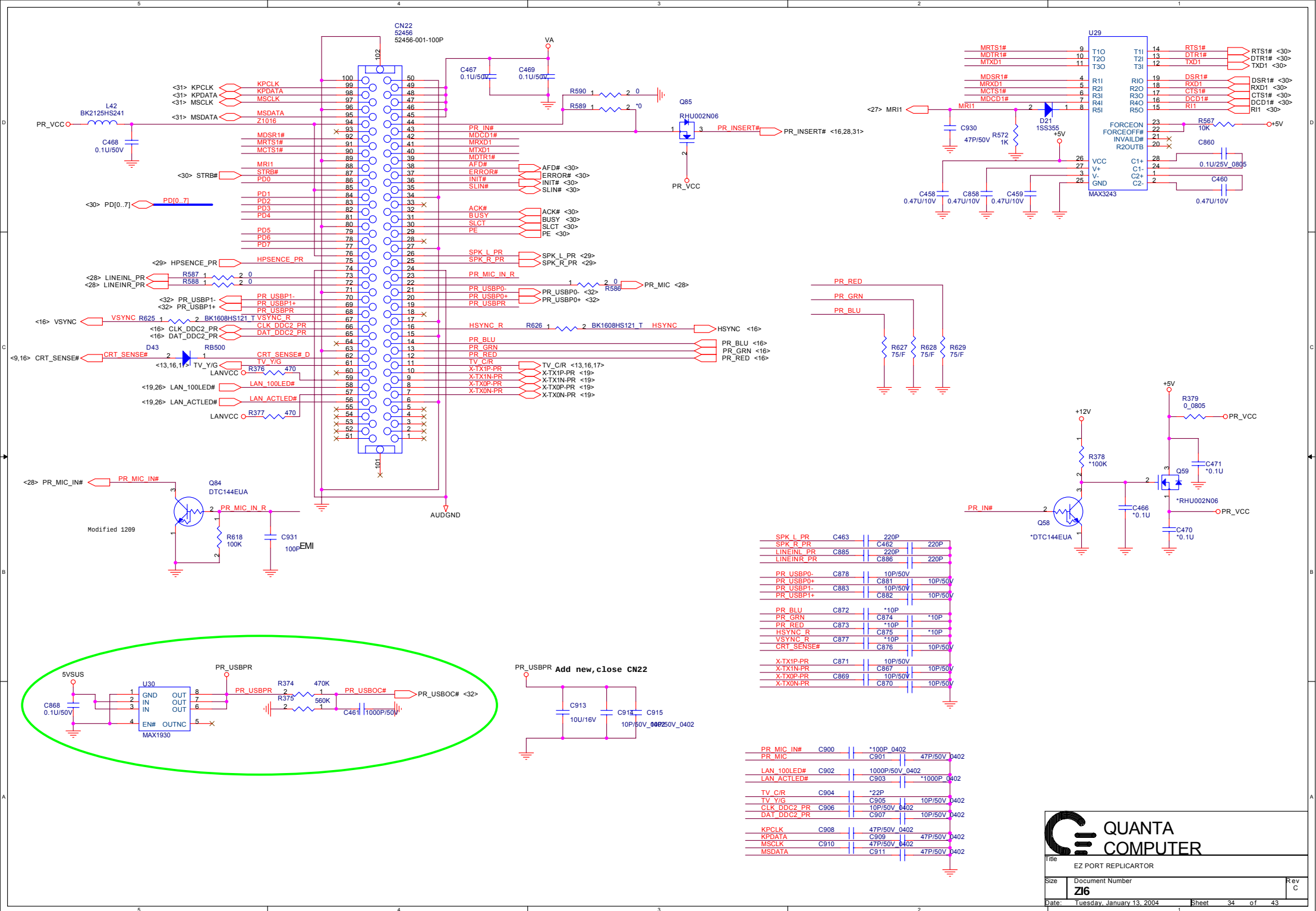


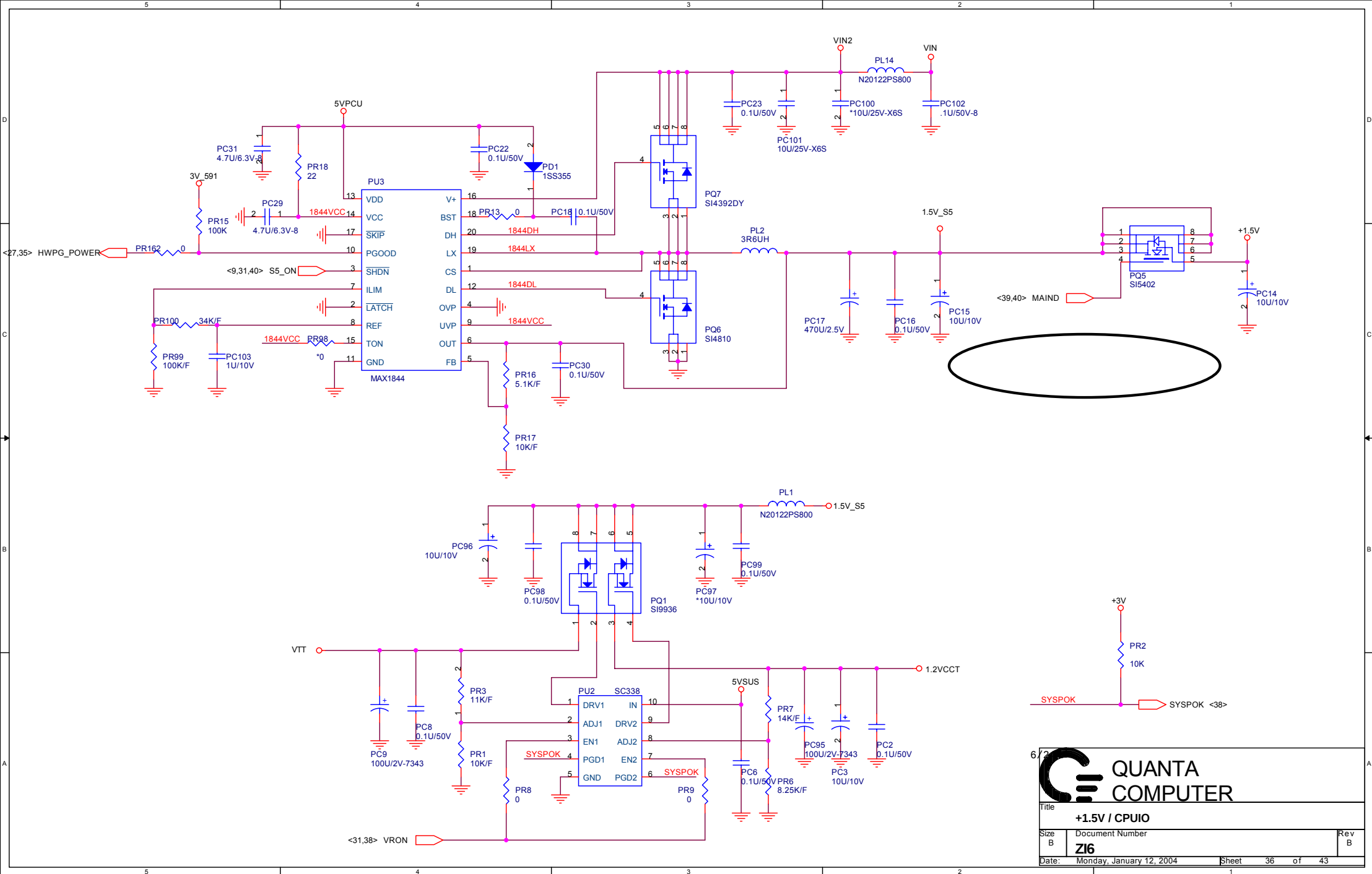
2nd FAN OUT CONNECTOR

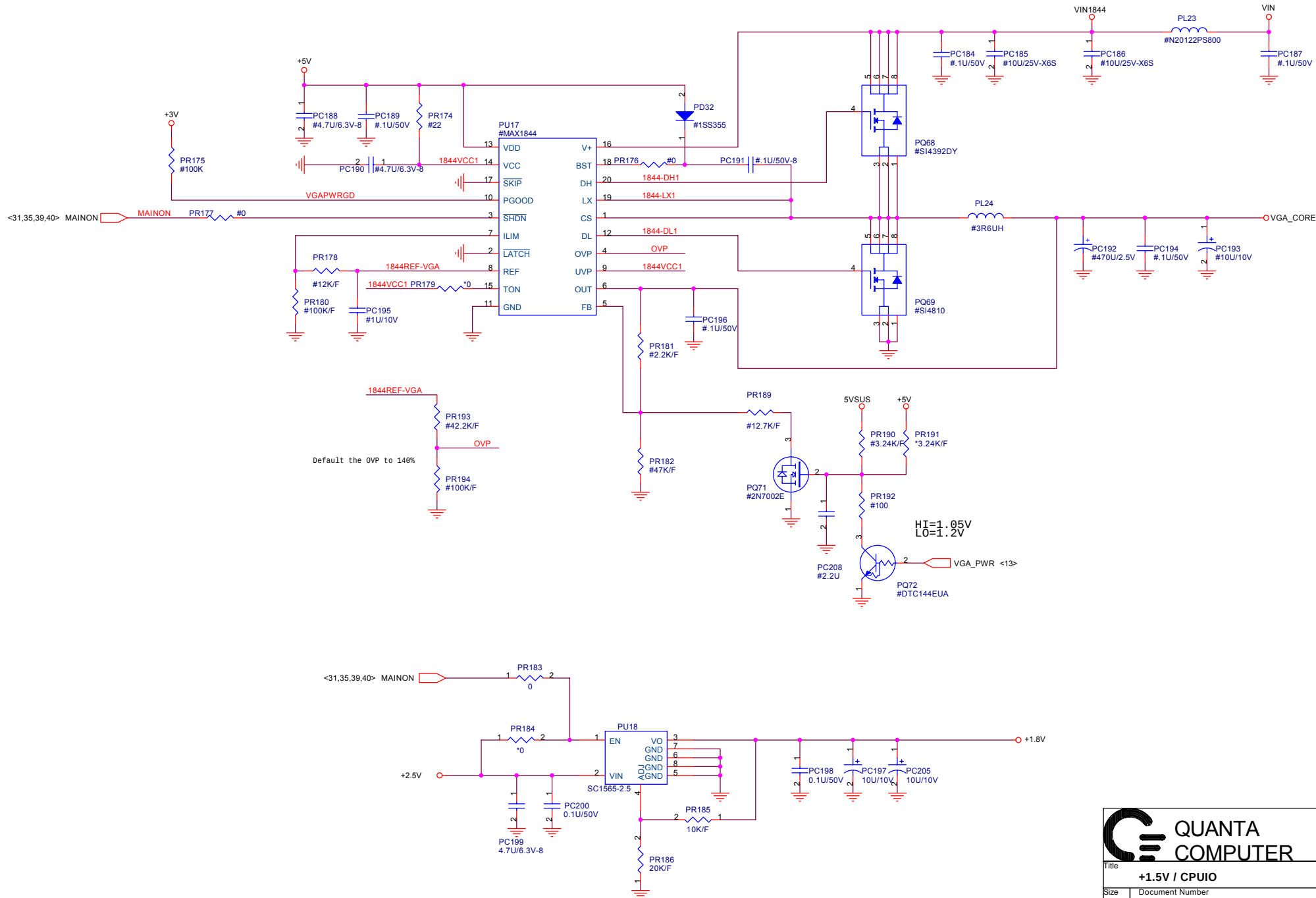


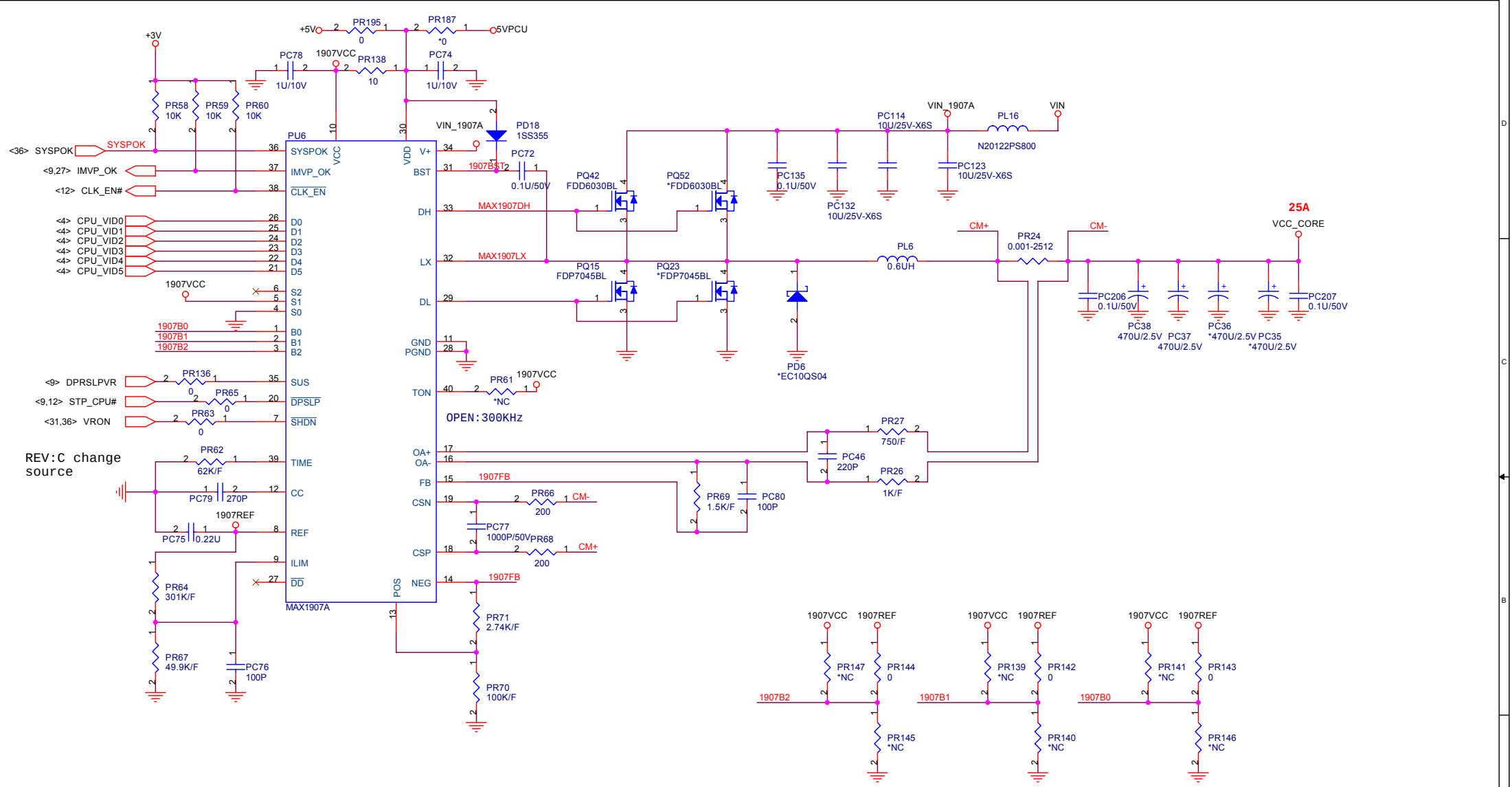
KEYBOARD

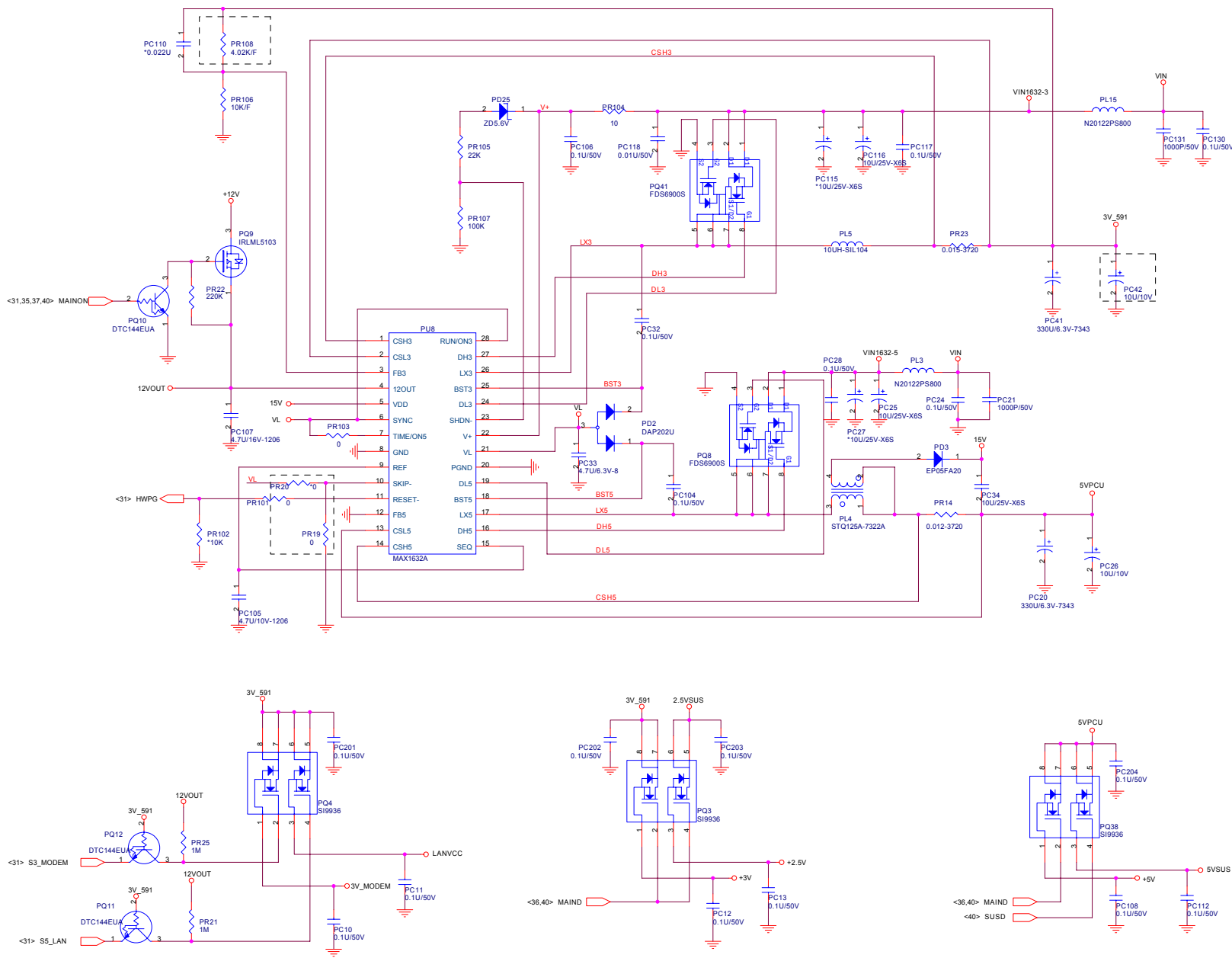


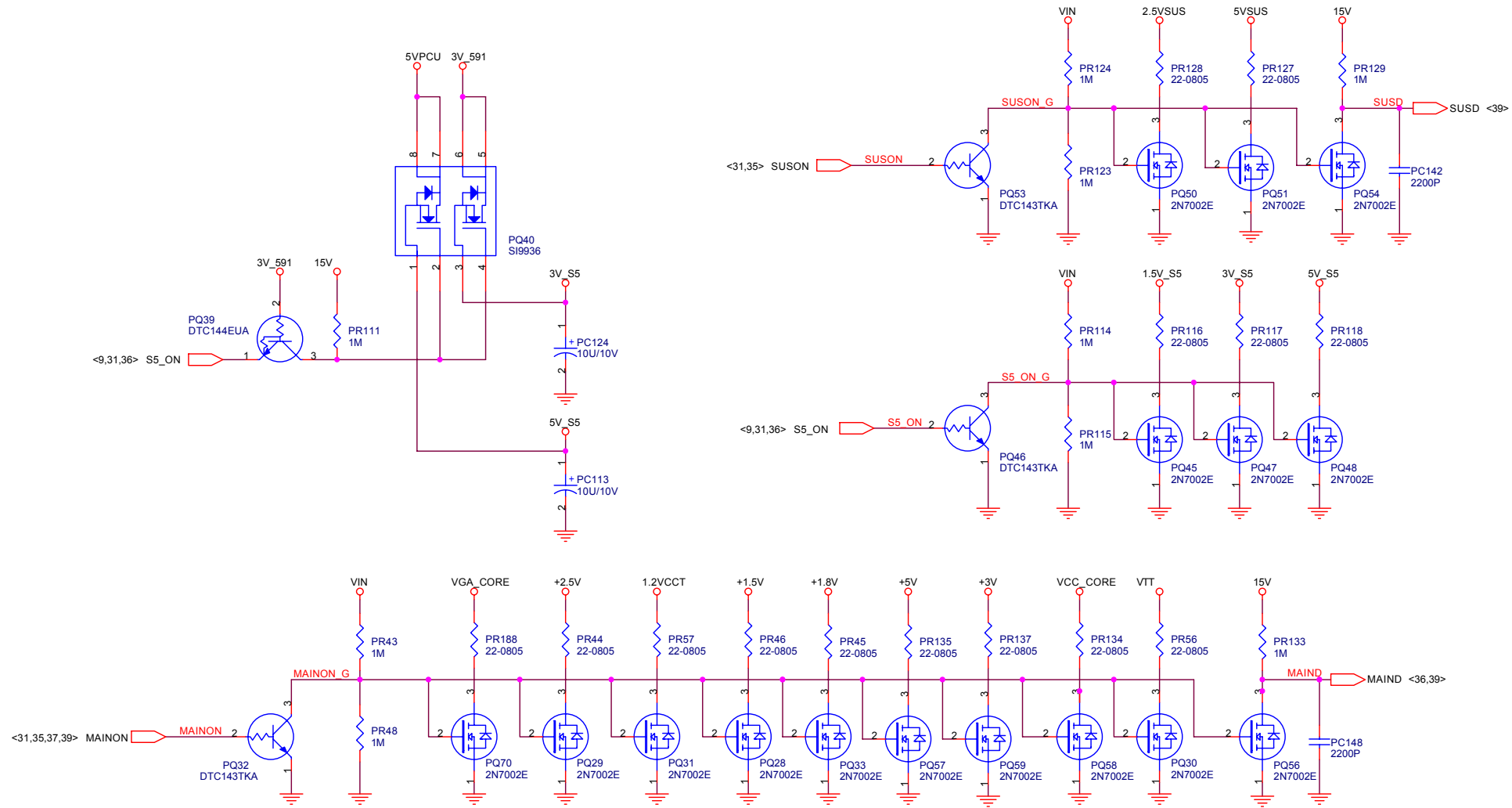














QUANTA
COMPUTER

Title

Discharge Circuit

Size

Document Number

Date:

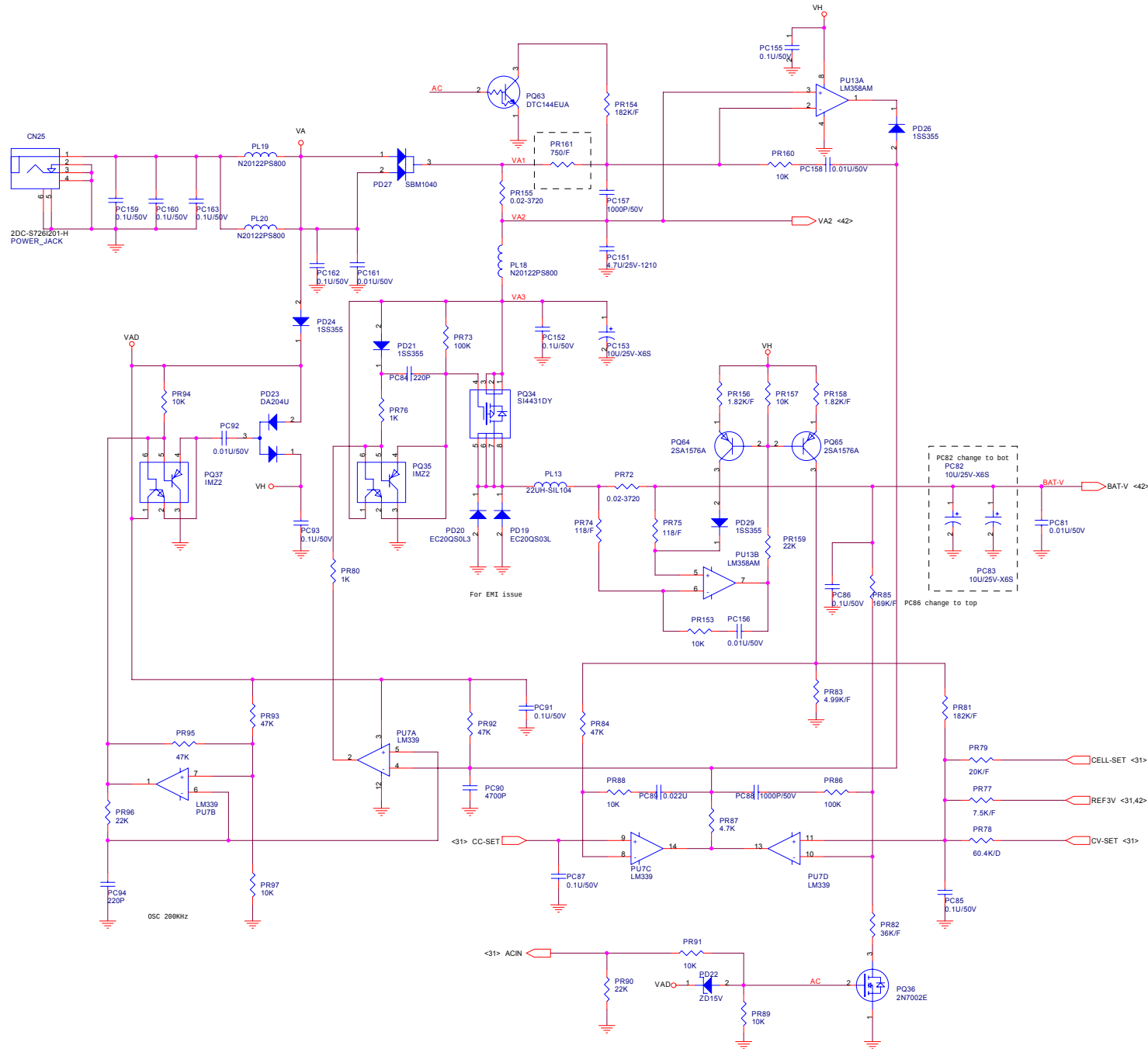
Monday, January 12, 2004

Sheet

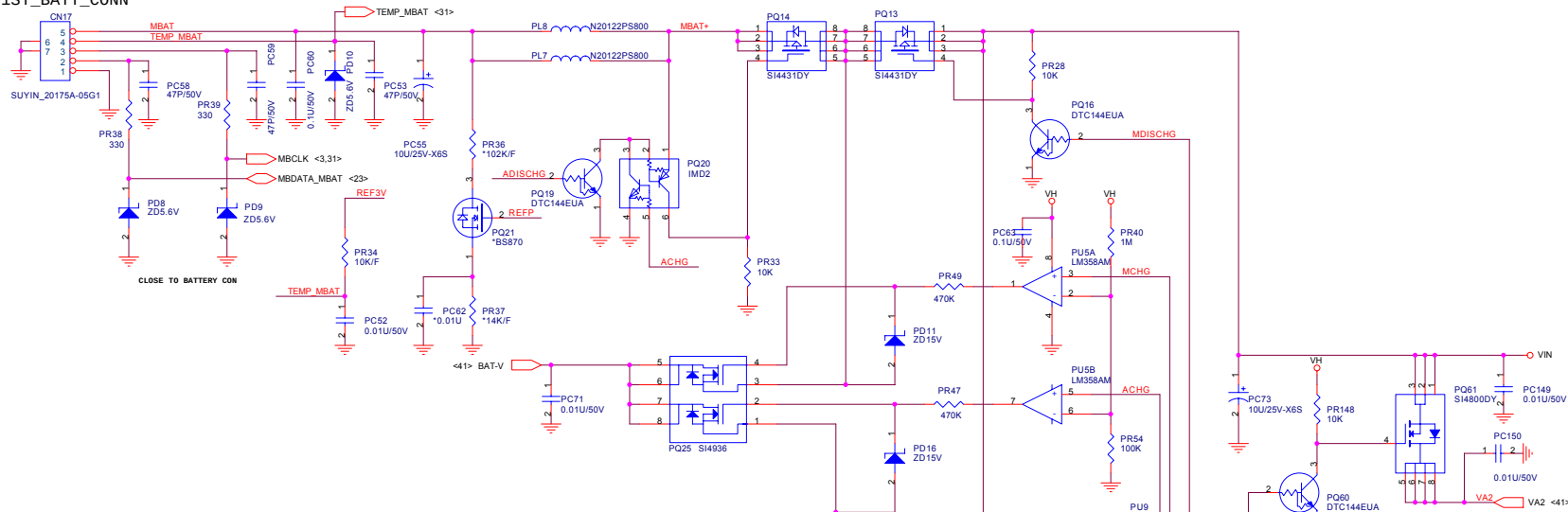
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Rev

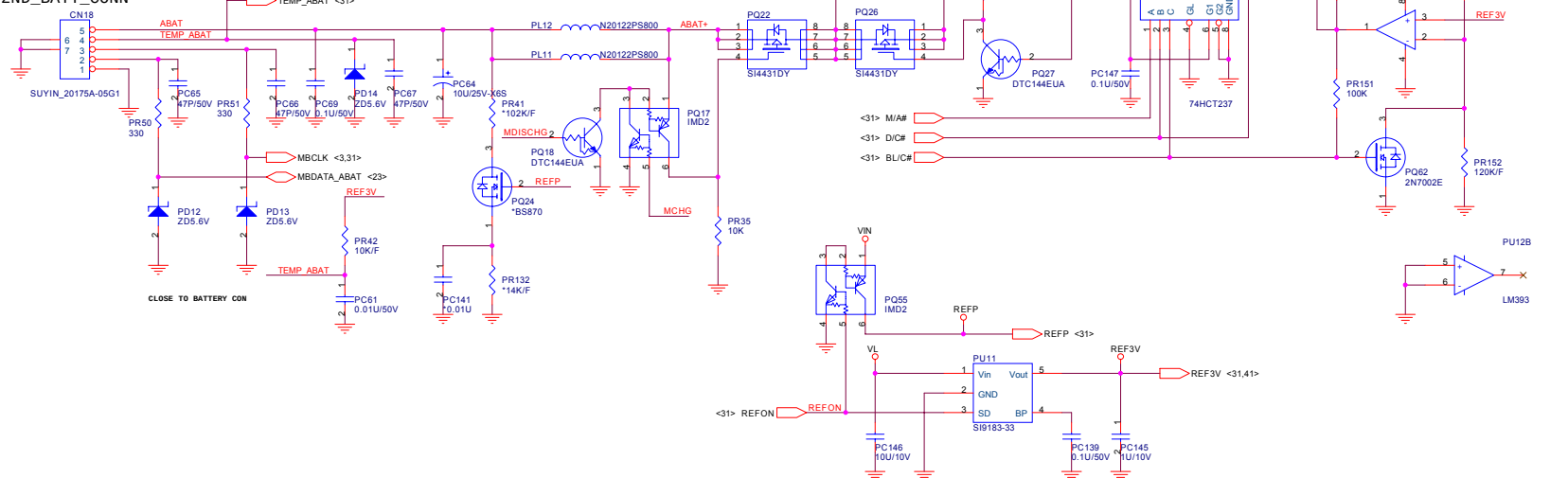
B



1ST_BATT_CONN



2ND_BATT_CONN



Change list

Item	Fixed Issue	Reason for change	Rev.	PG#	Modify List	B.Ver #
1	ZI68 can't detect AGP device	855GME GPAR pin has internal 8.2k pull up, but still need 1k external pull up to +1.5V	A	6	Add R865 pull up res. to +1.5V	Rev B
2	Always power fail	Power net VL short to GND via PR19	A	39	Delete PR19	Rev B
3	2.5VSUS unstable	2.5VSUS may be unstable	A	35	Delete PC170	Rev B
4	None	Intel recommend	A	5	Change R476 from 27.4 ohm 1% to 37.4 ohm 1%	Rev B
5	ZI66 DVI fail	RHU002N06 slew rate is too bad, cause system can't detect DVI device.	A	18	Change Q98-Q101 from RHU002N06 to FDV301N	Rev B
6	Smart card power	Smart card power will always turn on	A	22	Change PMOS switch to NMOS avoid SC power always turn on.	Rev B
7	None	Improve CRT signal quality	A	16	Delete R531, R532, R534, R535, R537, R538	Rev B
8	None	Reserve Res for remove IDE device LED always light.	B	23	Add R874, R875 (10K ohm_0603) pull up to +5V	Rev C
9	None	Codec vendor recommend	B	28	Add R876(4.7K_0603) pull up to MICREF	Rev C
10	None	Save cost	B	22	Del. U53	Rev C
11	4 in1 1 LED power on light	4in1 LED incorrect behavior	B	21	Change net: 4in1_busy connection from U9.J19 to U9.E8	Rev C
12	EMI Request	EMI Request	B	18	Add C1067 ~ C1070 for EMI request	Rev C
13	None	Acer Request	C	16	Add U56-58 for Acer request	Rev D
14	None	Save cost	C	24	Add R879,R880 to remove 1394 EEPROM	Rev D



QUANTA
COMPUTER

Title

Battery Select

Size

Document Number

Rev

Cust

ZI6

C

Date

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