

PCI IDSEL: 82559ER ----> A_D17
 Video 5050 ----> A_D24
 PIIX4 ----> A_D18
 EM6400 ----> A_D01
 Modem ----> A_D23

STB F REV 3.1 Set-top BOX With Sigma Chip and Zoran Header DVD

Apr. 6, 2000 4:48PM
 Fianl Edition

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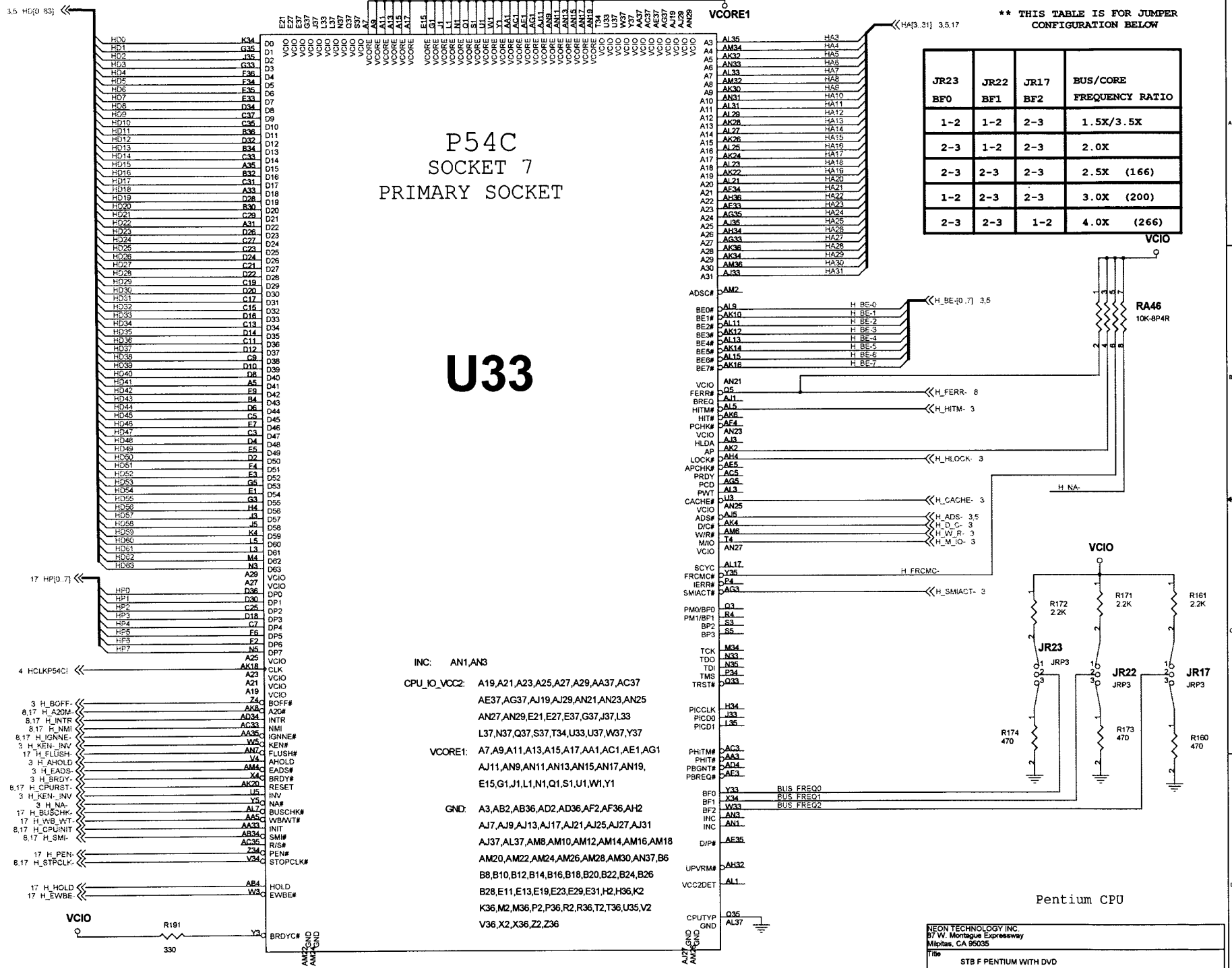
1. Title Page
2. P54C CPU
3. 82439TX
4. CPU Clock
5. Cache Memory
6. SIMM
7. DIMM
8. PIIX4E 82371EB
9. System Bios
10. IDE Connectors/PORT 80
11. USB PORTS And IR LED
12. SMC FDC37M602 ULTRA I/O
13. Keyboard, Mouse, PLL Ports
14. D Segment Flash
15. Power Connectors
16. Switching Power Controllers
17. Resister Pull Up
18. VCC/VCC3/VCORE1 Cap
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20. VGA SGRAM
21. CRT Connector And TV OUT
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29. Sound Output
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31. Socket Modem
32. Modem Output
33. Smarcard Interface

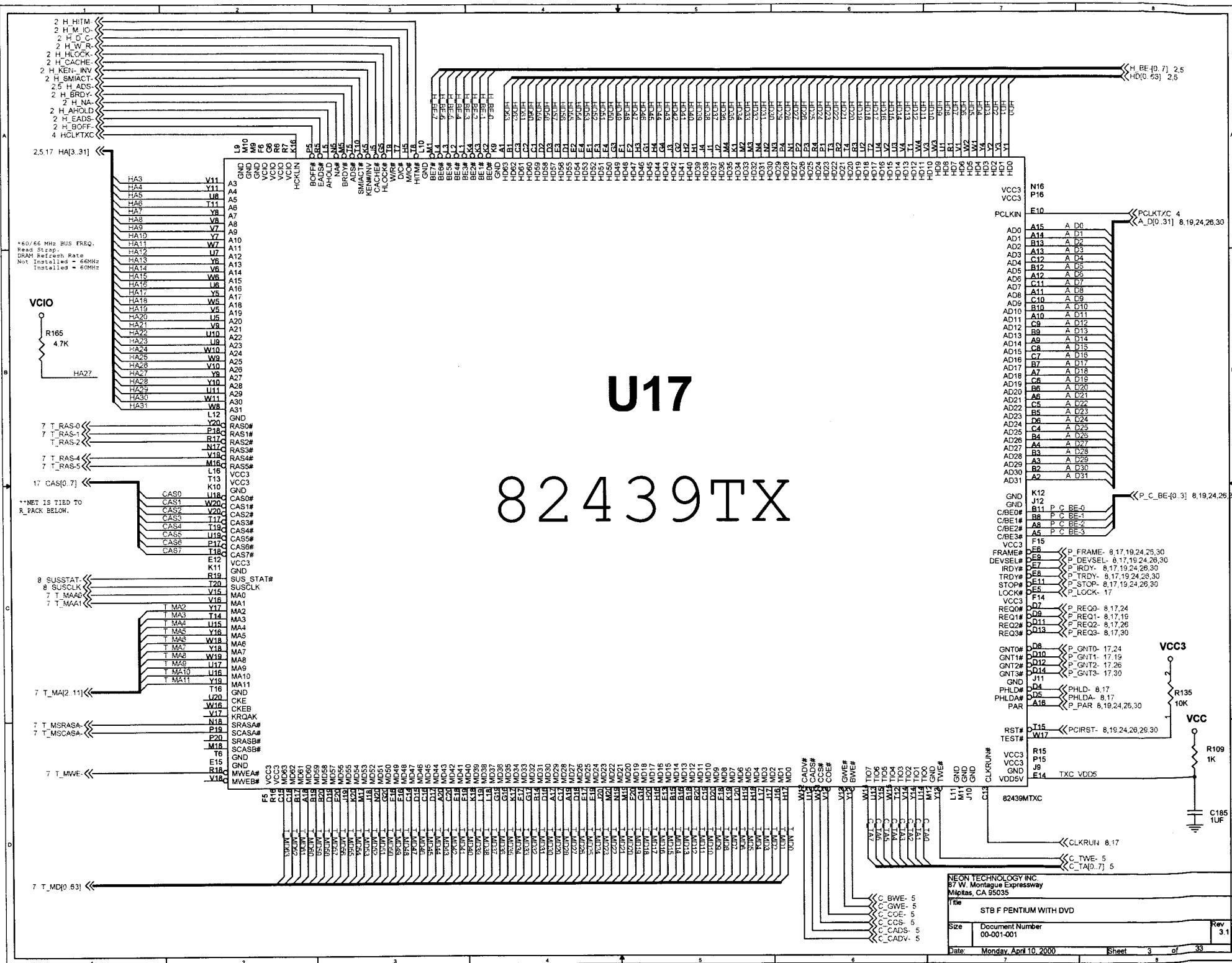
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Title STB F PENTIUM WITH DVD

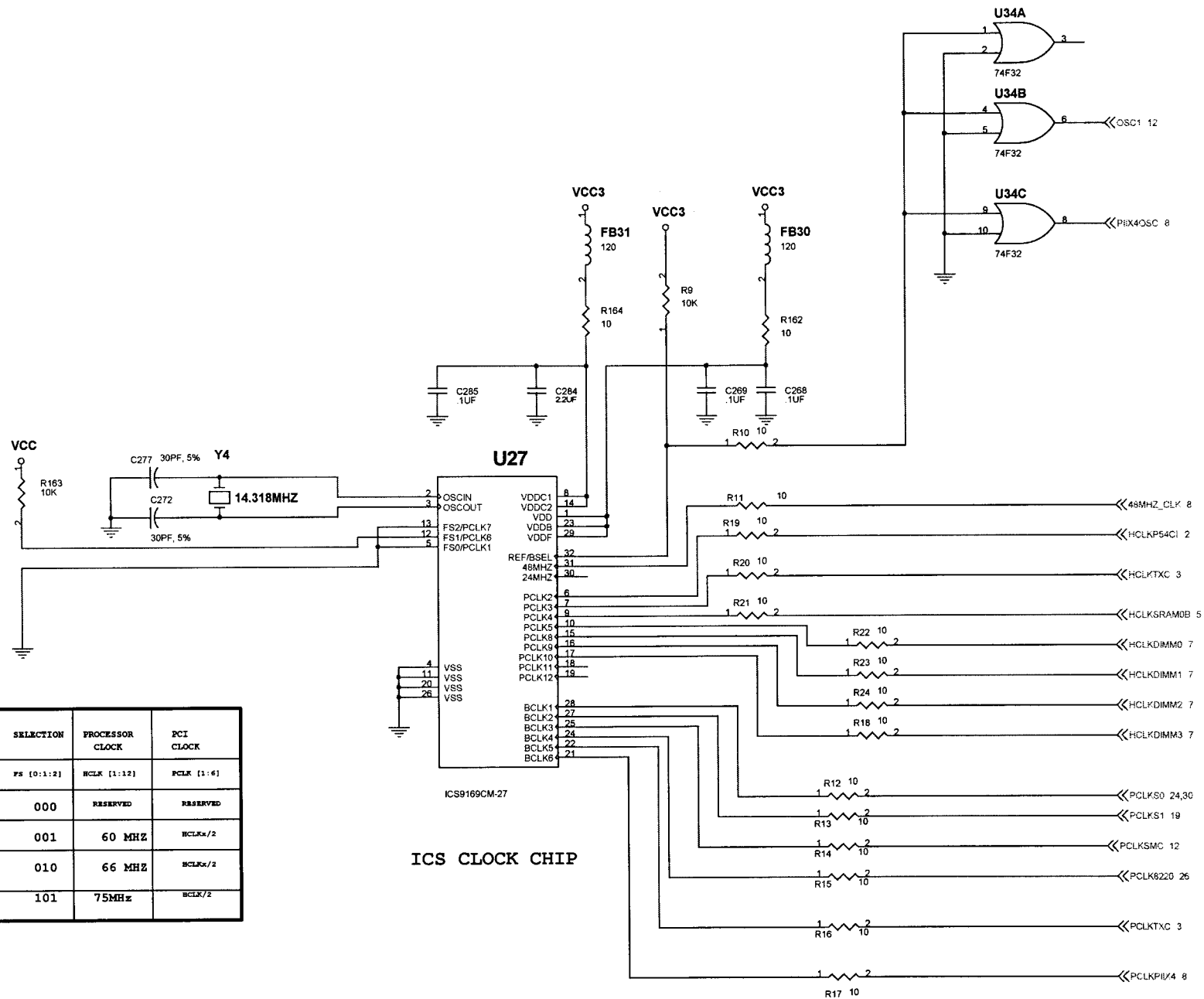
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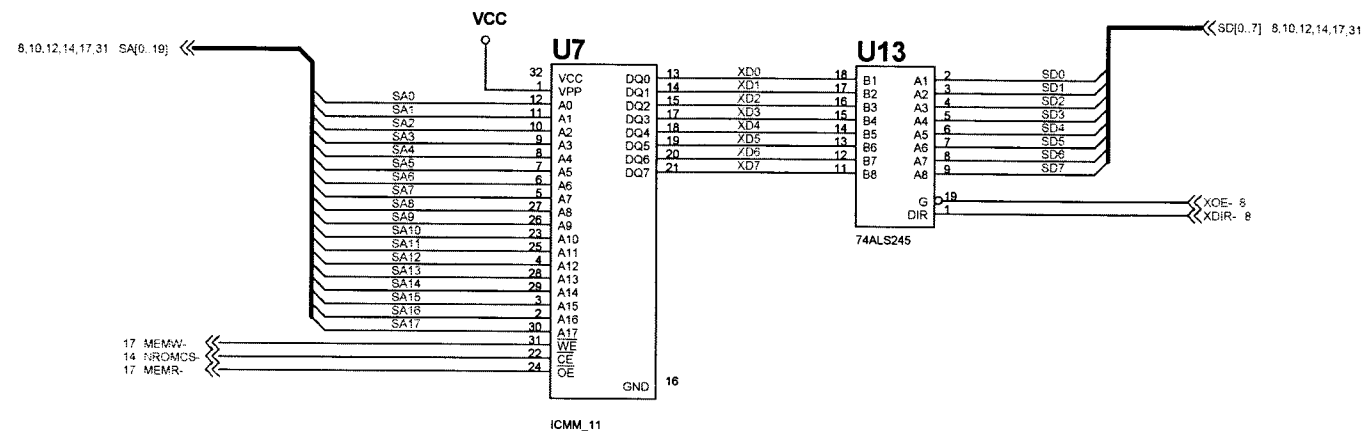
NEON NTV-2000

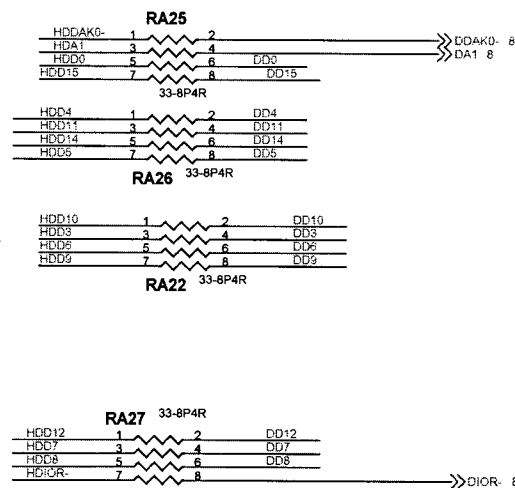




SELECTION	PROCESSOR CLOCK	PCI CLOCK
PS [0:1:2]	BCLK [1:12]	PCLK [1:6]
000	RESERVED	RESERVED
001	60 MHZ	BCLKx/2
010	66 MHZ	BCLKx/2
101	75MHZ	BCLK/2







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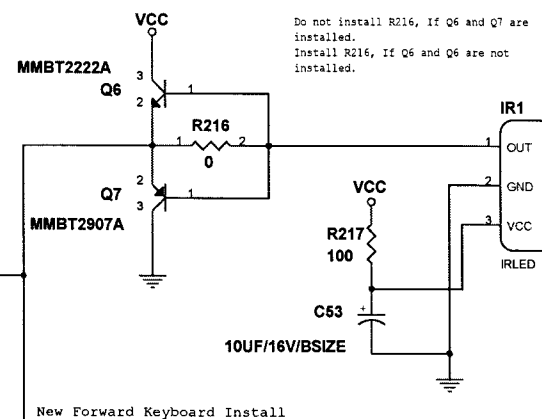
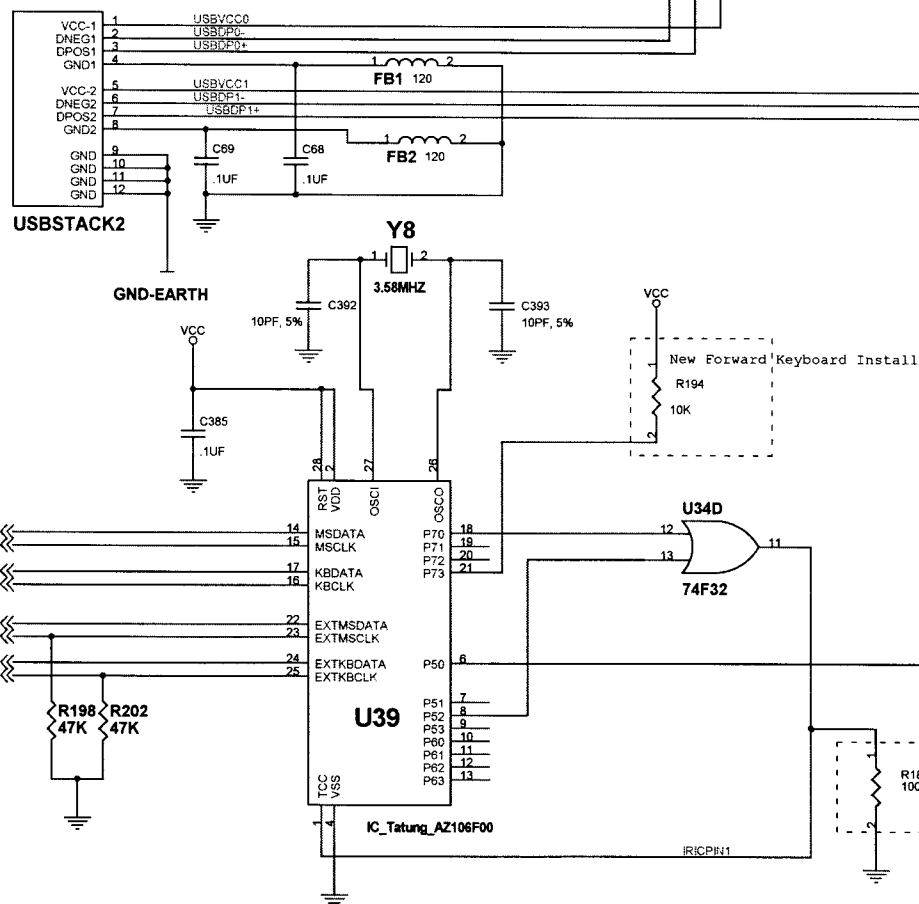
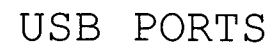
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Do not install R216, If Q6 and Q7 are installed.
Install R216, If Q6 and Q6 are not installed.

New Forward Keyboard Install

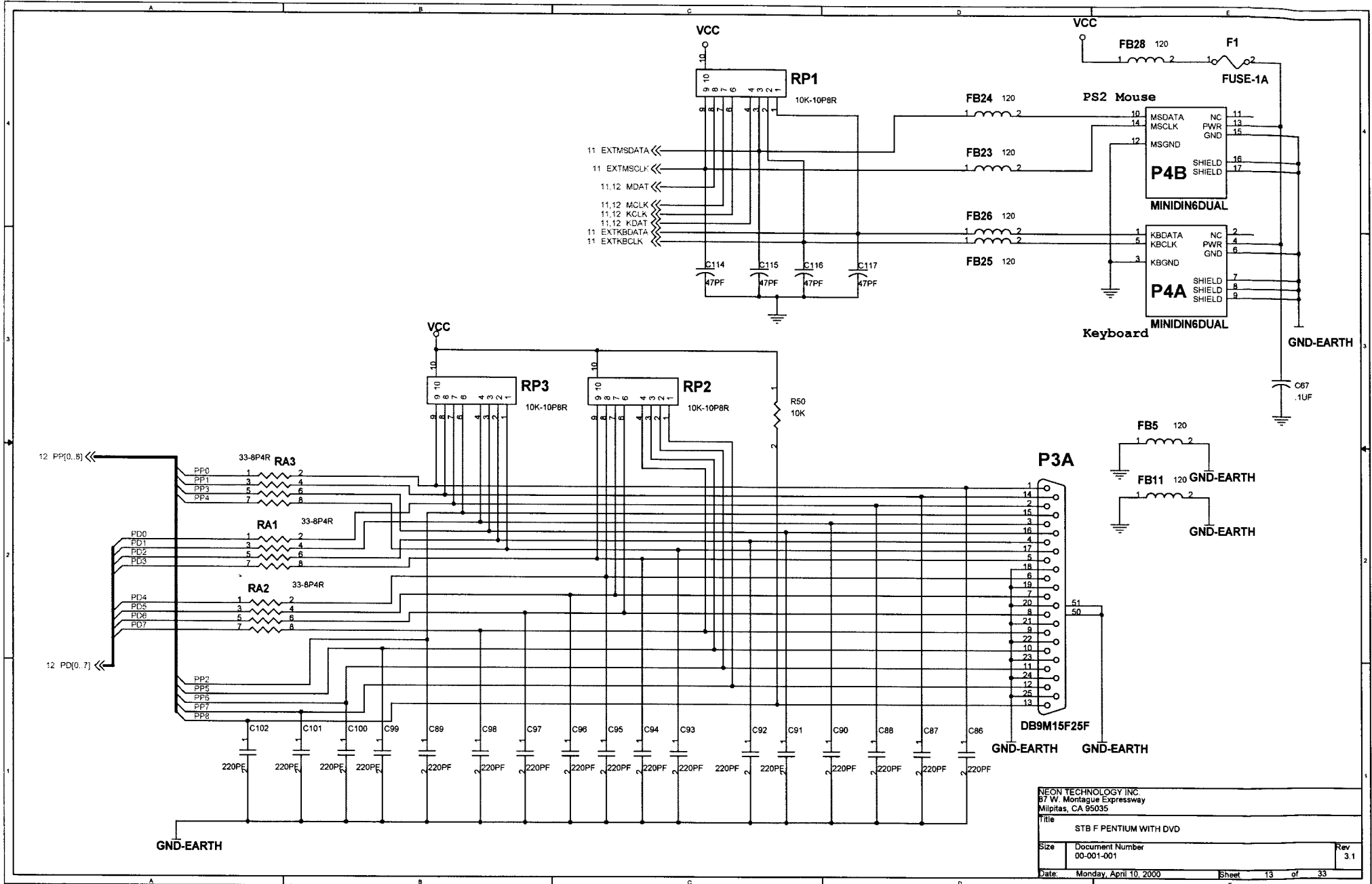
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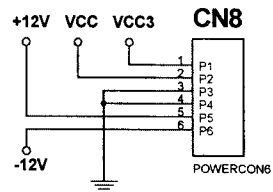
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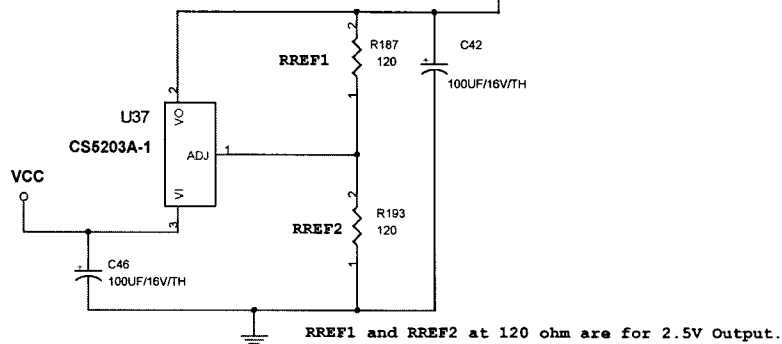
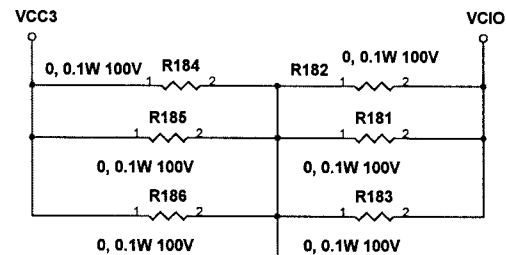
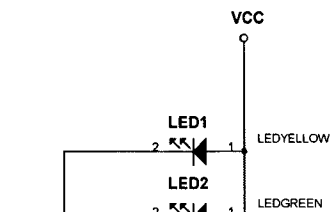
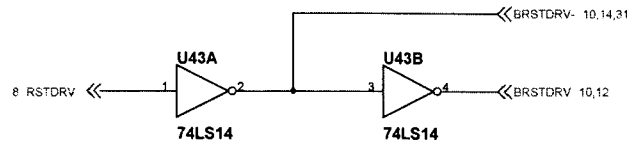
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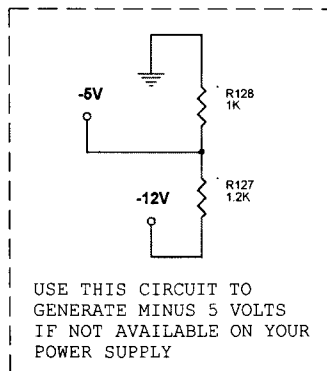




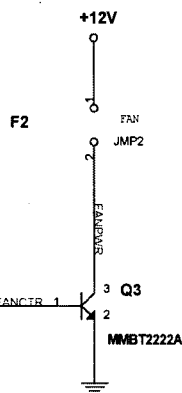
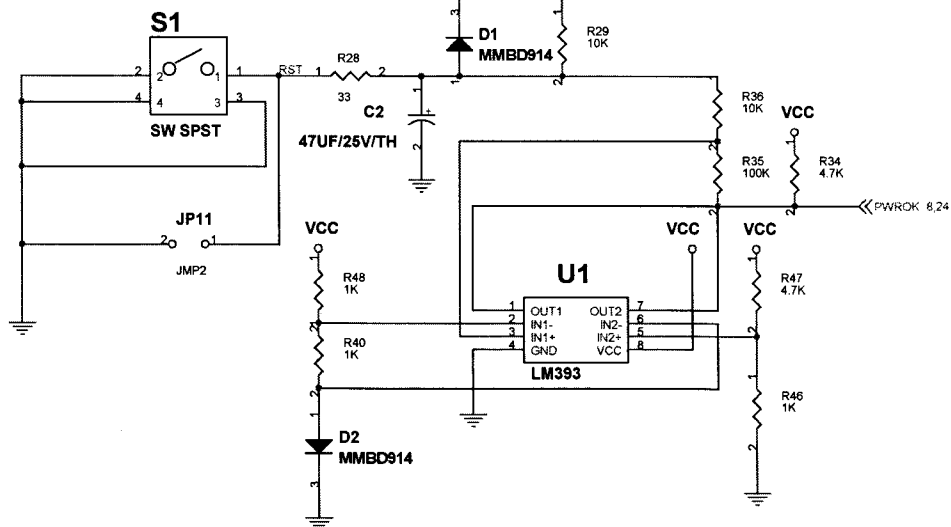
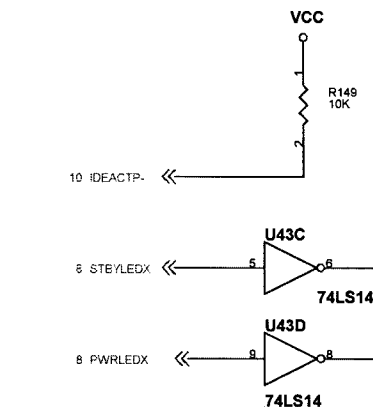
POWER
CONNECTORS

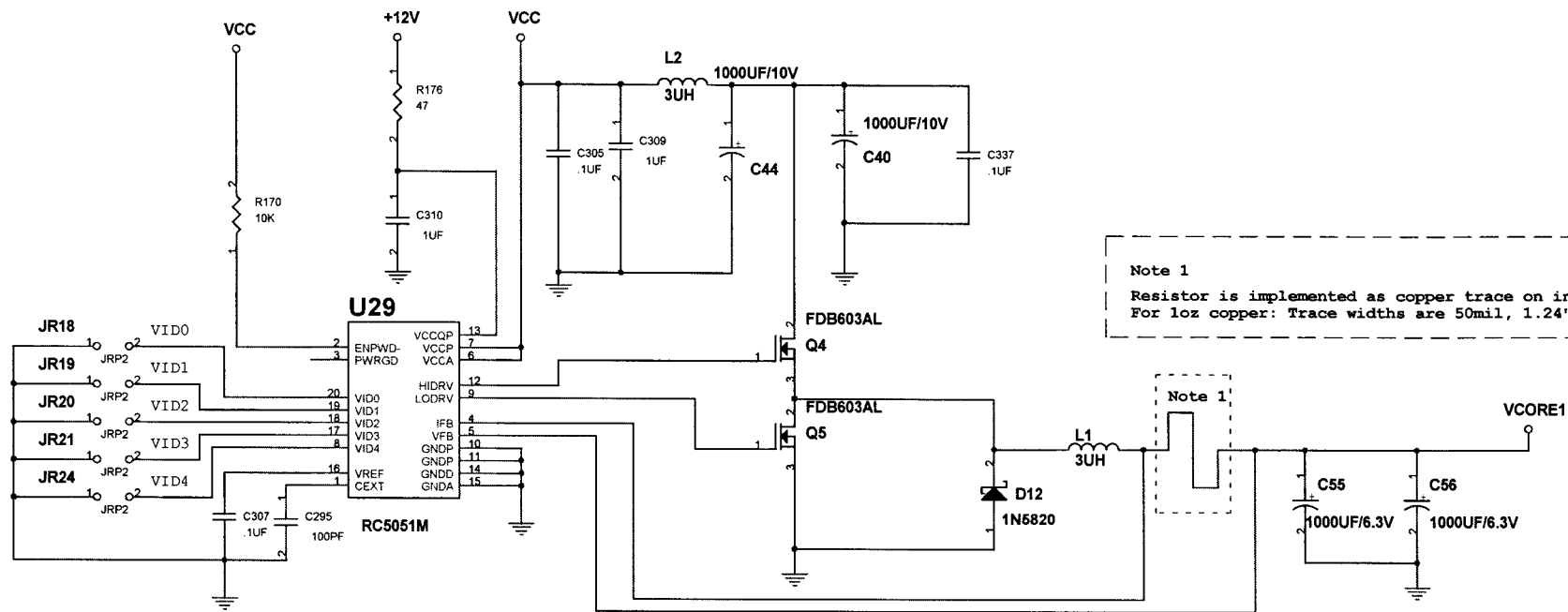


RREF1 and RREF2 at 120 ohm are for 2.5V Output.



USE THIS CIRCUIT TO
GENERATE MINUS 5 VOLTS
IF NOT AVAILABLE ON YOUR
POWER SUPPLY





Note 1
Resistor is implemented as copper trace on inter layer:
For 1oz copper: Trace widths are 50mil, 1.24" long.

Note 1

OPEN = 1, CLOSED = 0.

VID4	VID3	VID2	VID1	VID0	VCORE (V)
0	1	1	1	1	1.3
0	0	1	0	1	1.8
0	0	0	1	1	1.9
1	1	0	1	0	2.5
1	0	1	1	1	2.8
1	0	0	1	0	3.3

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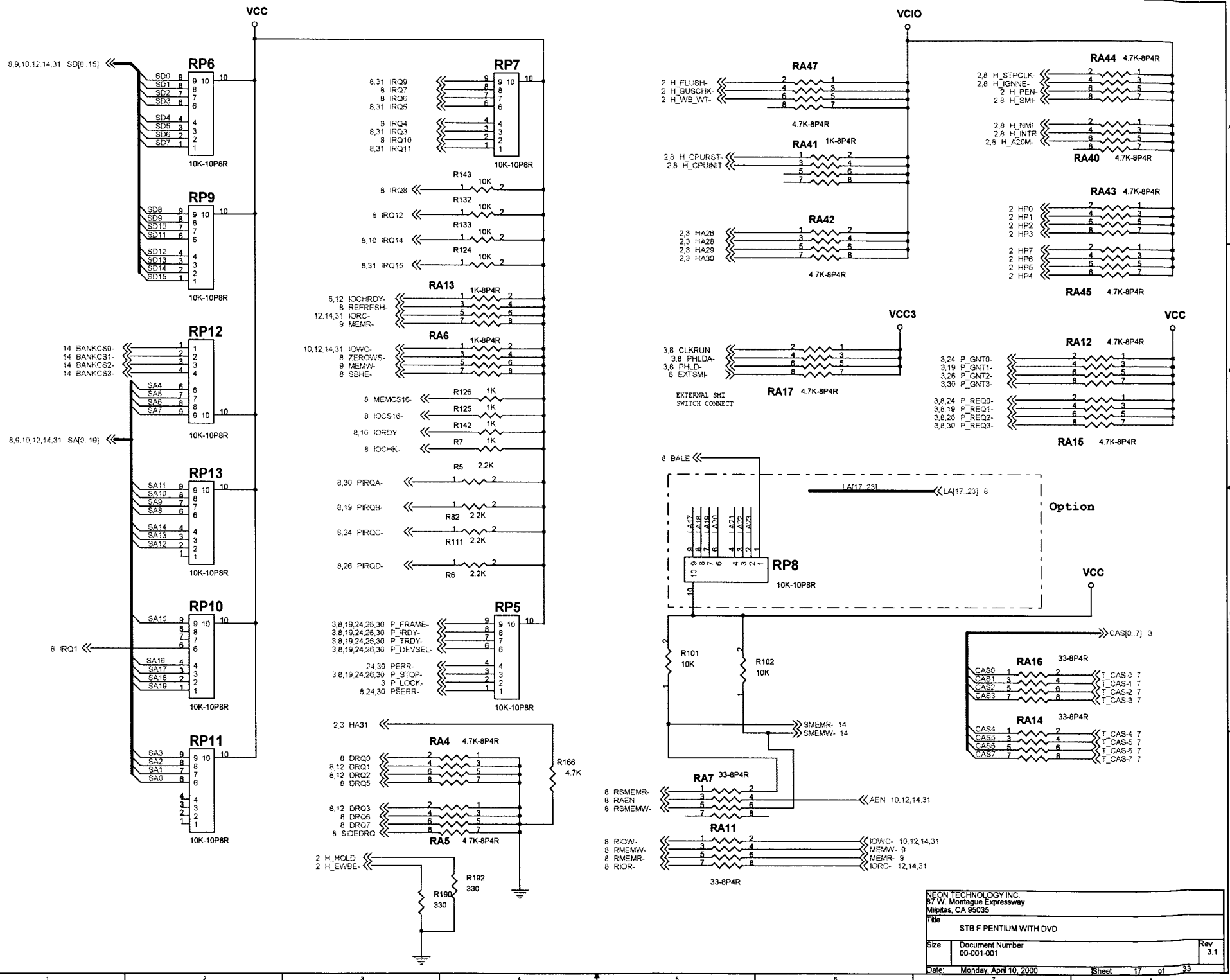
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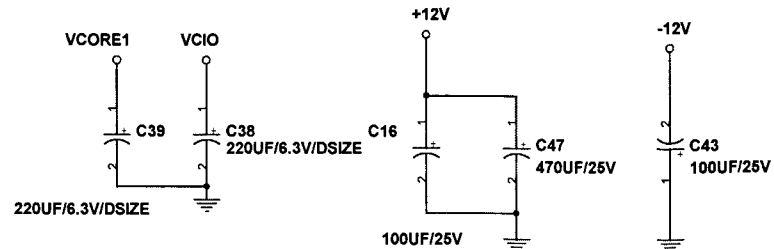
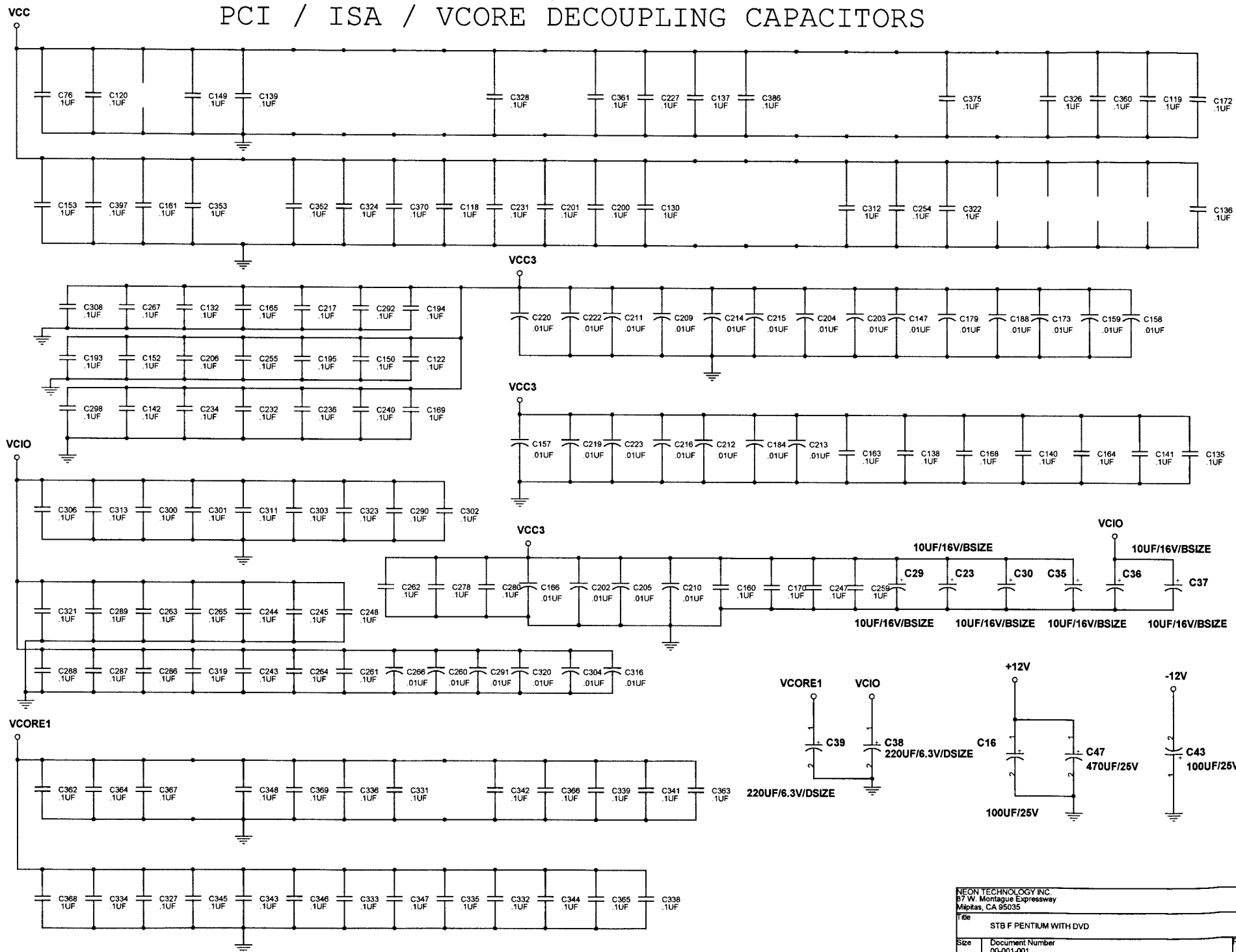
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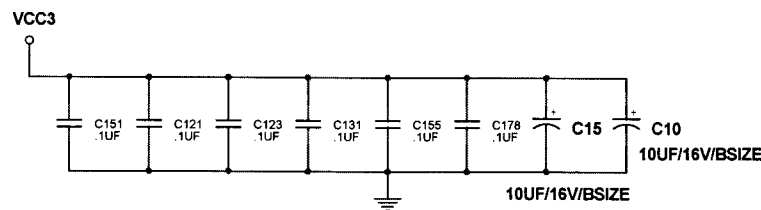
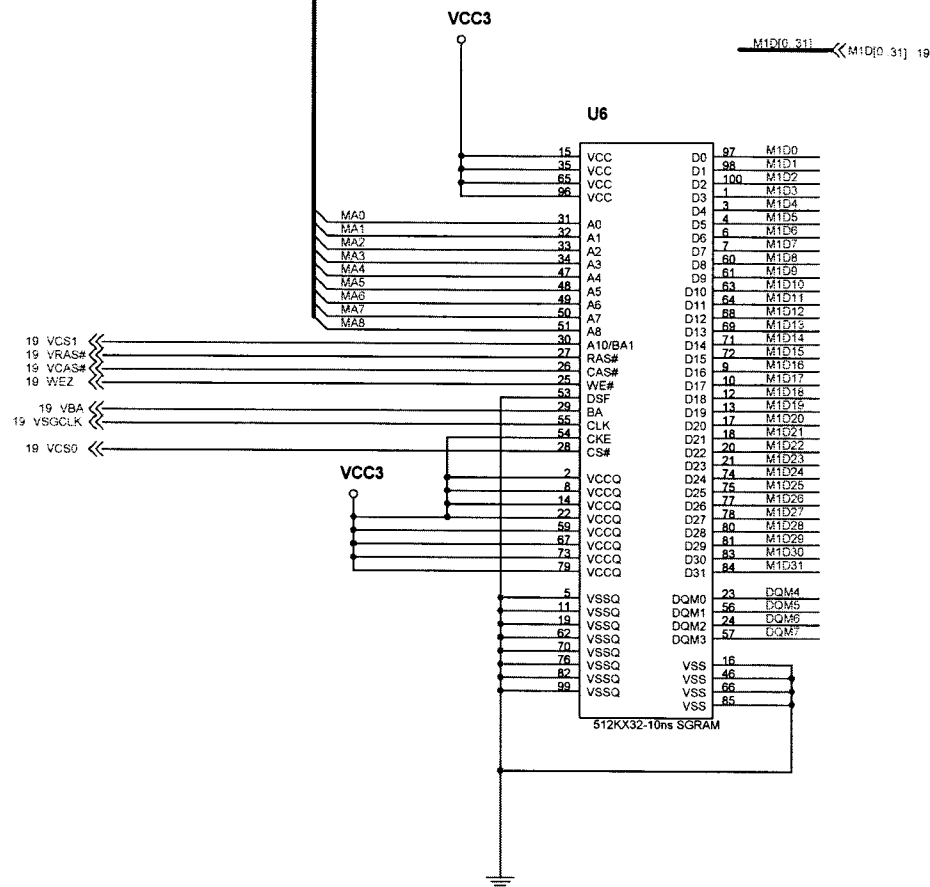
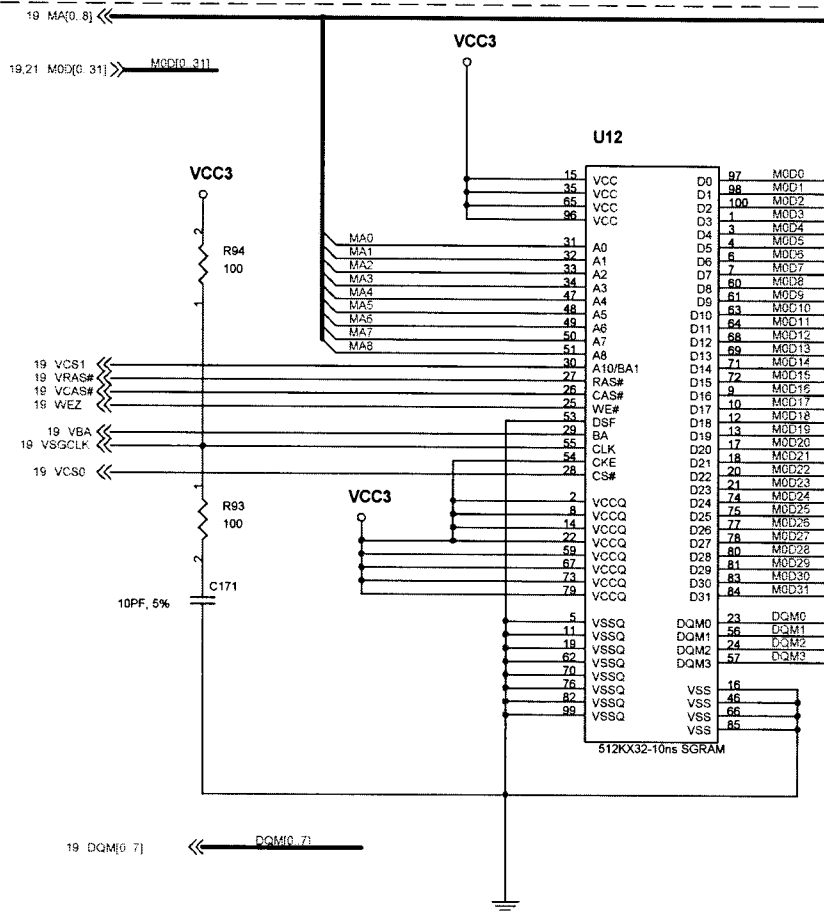


PCI / ISA / VCore DECOUPLING CAPACITORS

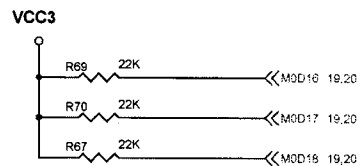


1st 1 or 2MB SGRAM

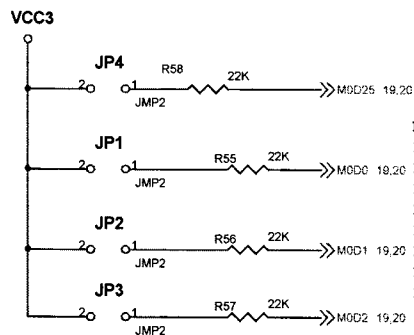
2nd 1 or 2MB SGRAM



Configuration Resistors

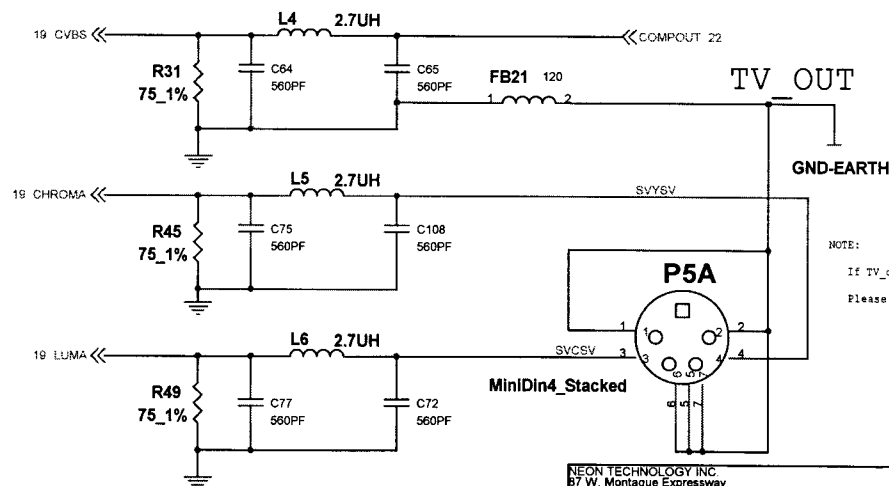
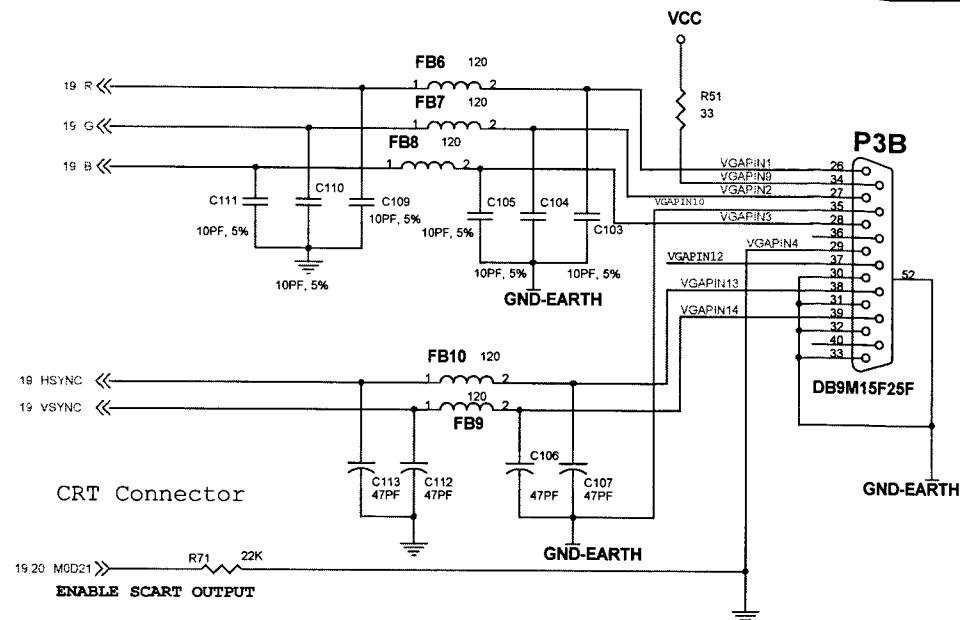


MOD18	MOD17	MOD16	SGRAM
On	Off	On	256x32
On	On	Off	512x32



MOD25	MOD0	MOD1	MOD2
O	O	O	O
C	O	O	O
O	C	O	O
C	C	O	O
C	O	C	O
C	O	O	C
C	C	O	C
C	O	C	C

NTSC
PAL (B/G)
PAL (M)
PAL (H)
PAL (I)
PAL (D/K/K1)
PAL (L)
PAL (N)
PAL (Comb. N)



NOTE:
If TV_out is not enable,
Please do not connect to TV.

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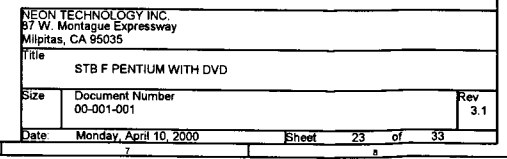
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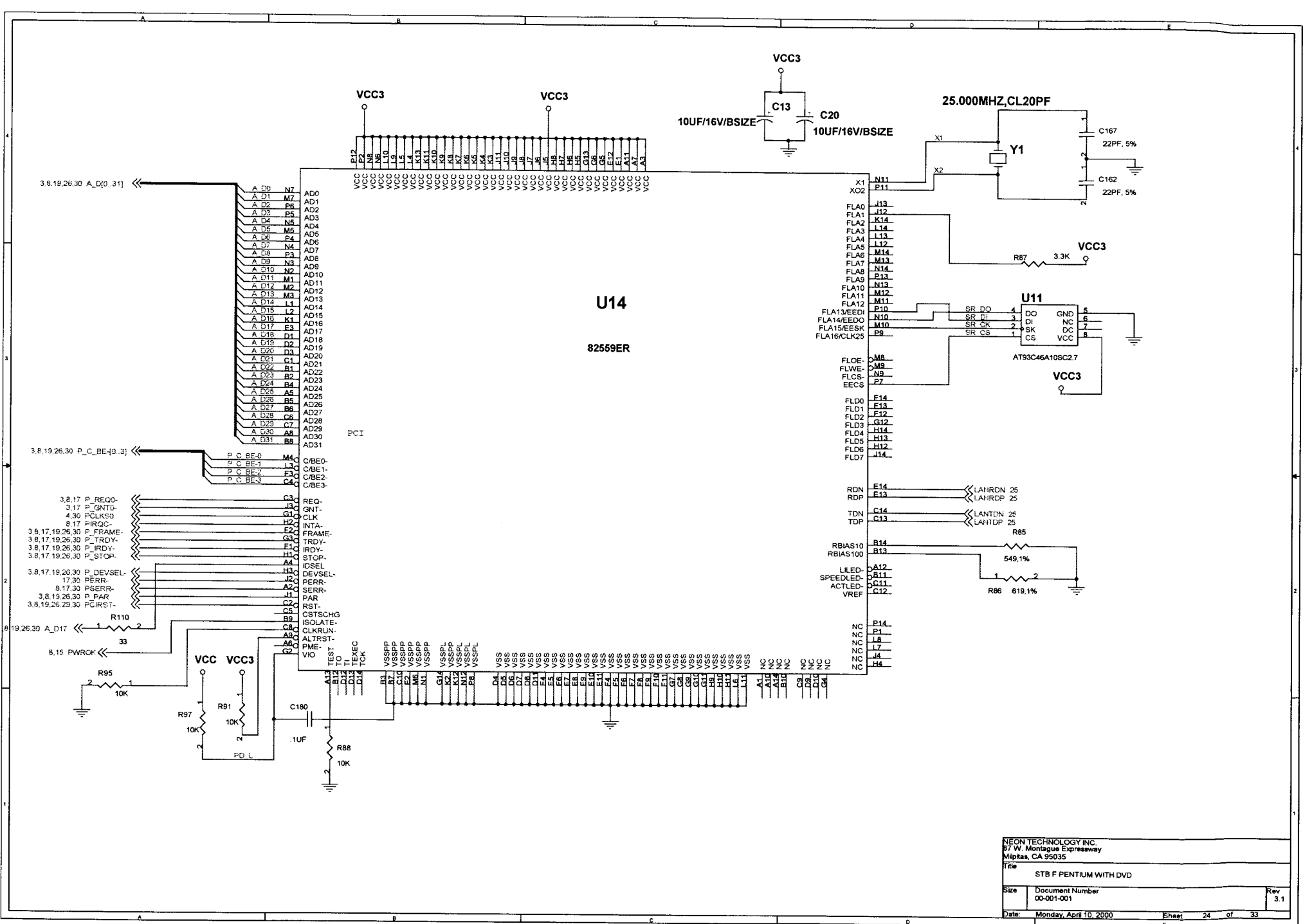
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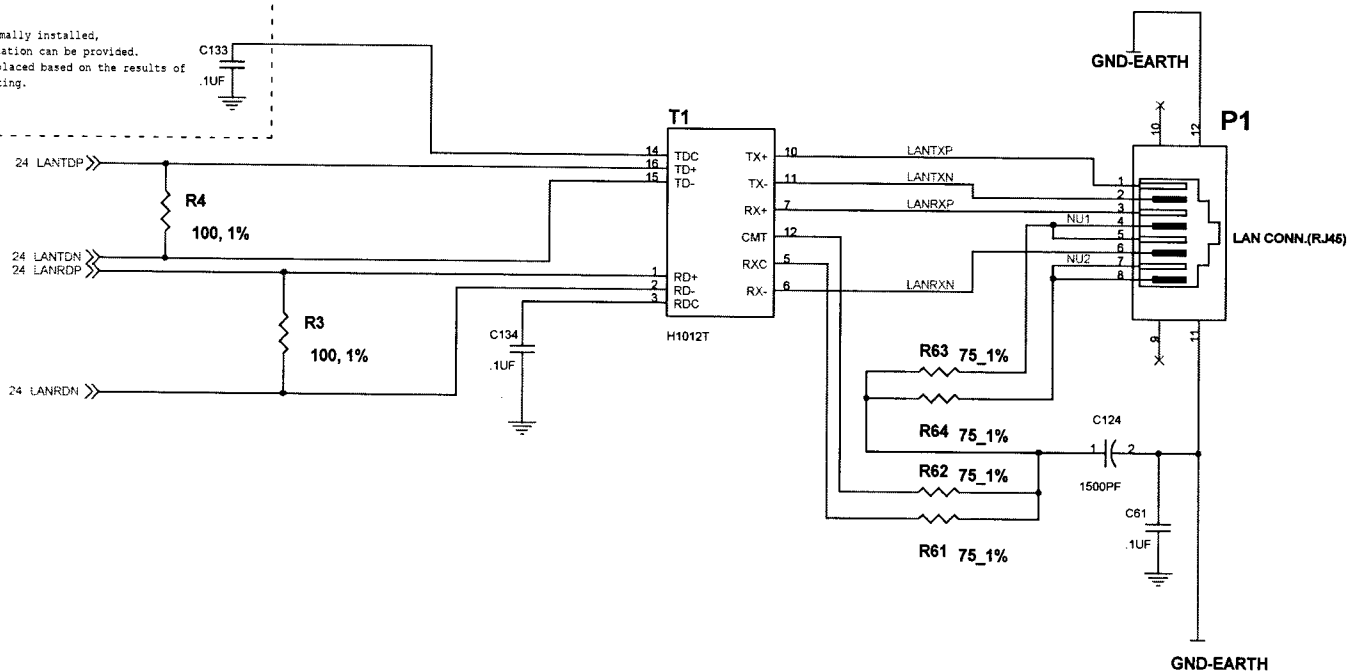
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This Cap is not normally installed,
but a placement location can be provided.
It may need to be placed based on the results of
FCC conformance testing.



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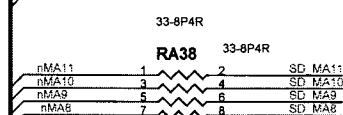
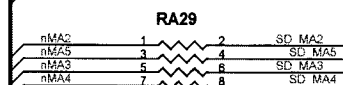
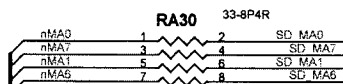
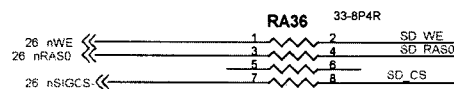
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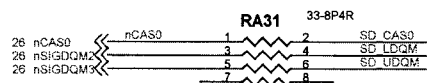
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26 SIGMD[0:31]

SIGMD[0:31]

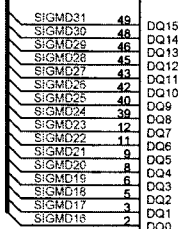


26 nMA[0:11]

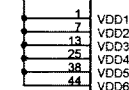


U31

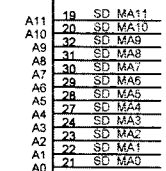
1M x 16 SDRAM



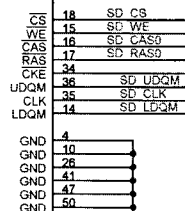
VCC3



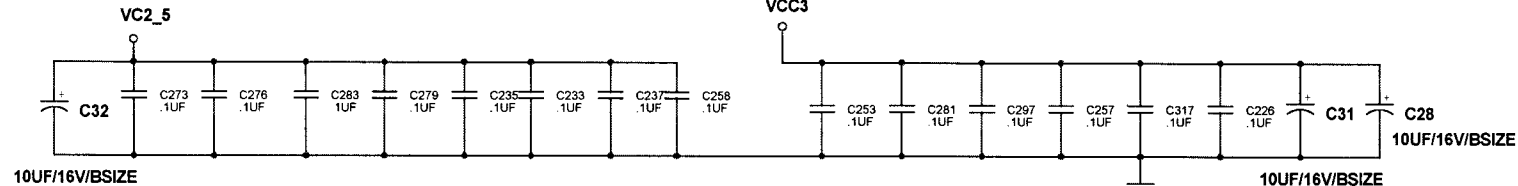
SDRAM_1Mx16-8



VCC3



<<SD_CLK 26



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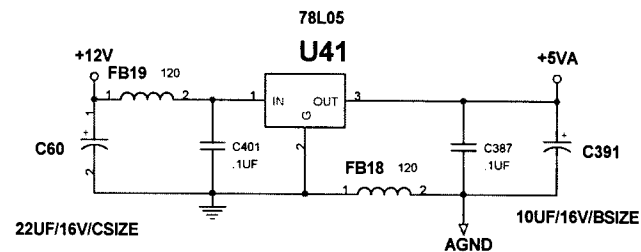
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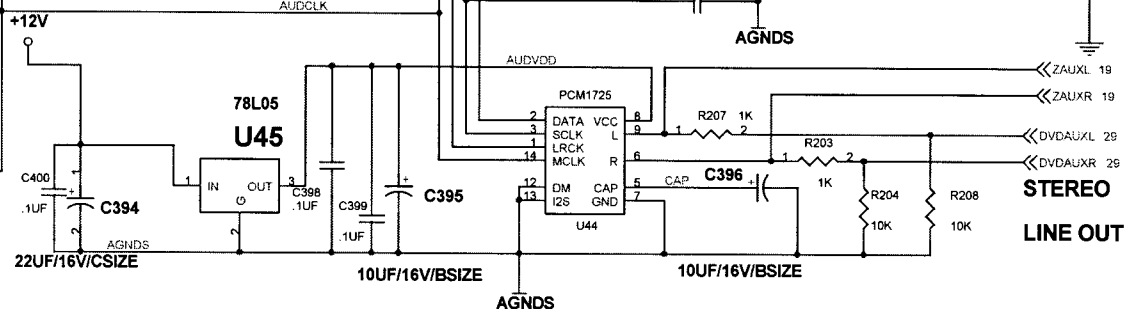
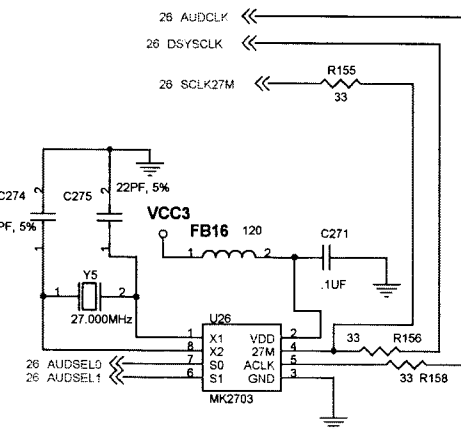
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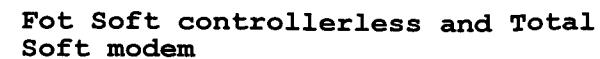


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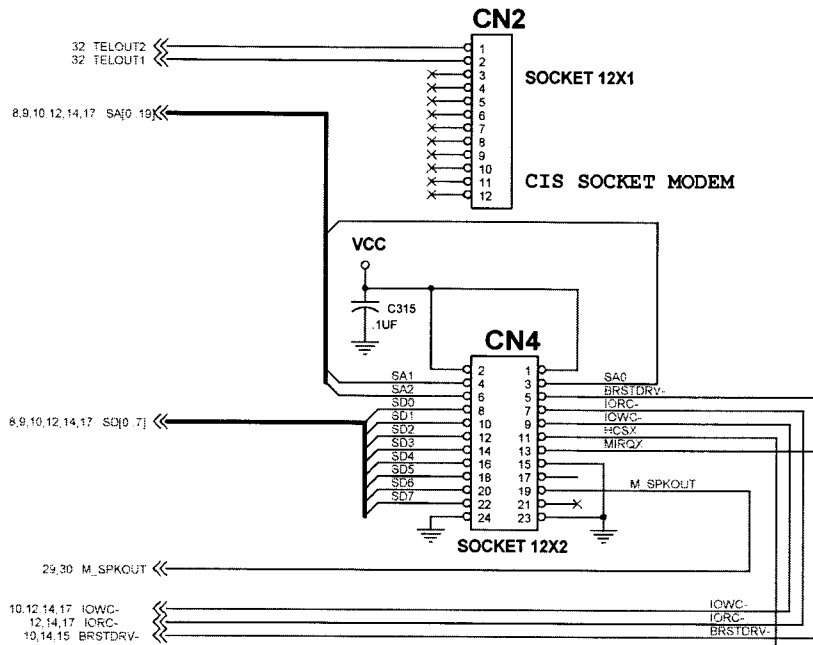
S/PDIF Output $V_{pp} = 1.5V$: Populate R39 at 150 ohm and do not populate R30.

S/PDIF Output $V_{pp} = 0.9V$: Populate R39 at 270 ohm and R30.



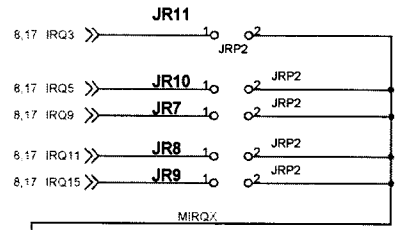


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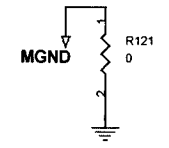
NOTE:

Modem Type	Pci Modem Chip	Socket Modem	Modem Output
CIS Socket Modem	NO	Yes	Populate P9 ONLY
PCI Modem Chip	Yes	NO	YES



Modem IRQ Selection:

- IRQ3 JR11
- IRQ5 JR10
- IRQ9 JR7
- IRQ11 JR8
- IRQ15 JR9



Note:

Do not populate any parts in this page if Modem Chip Used.

MODEM CHIP DECODER

	PIIX4	74F30
JR6	1-2	2-3

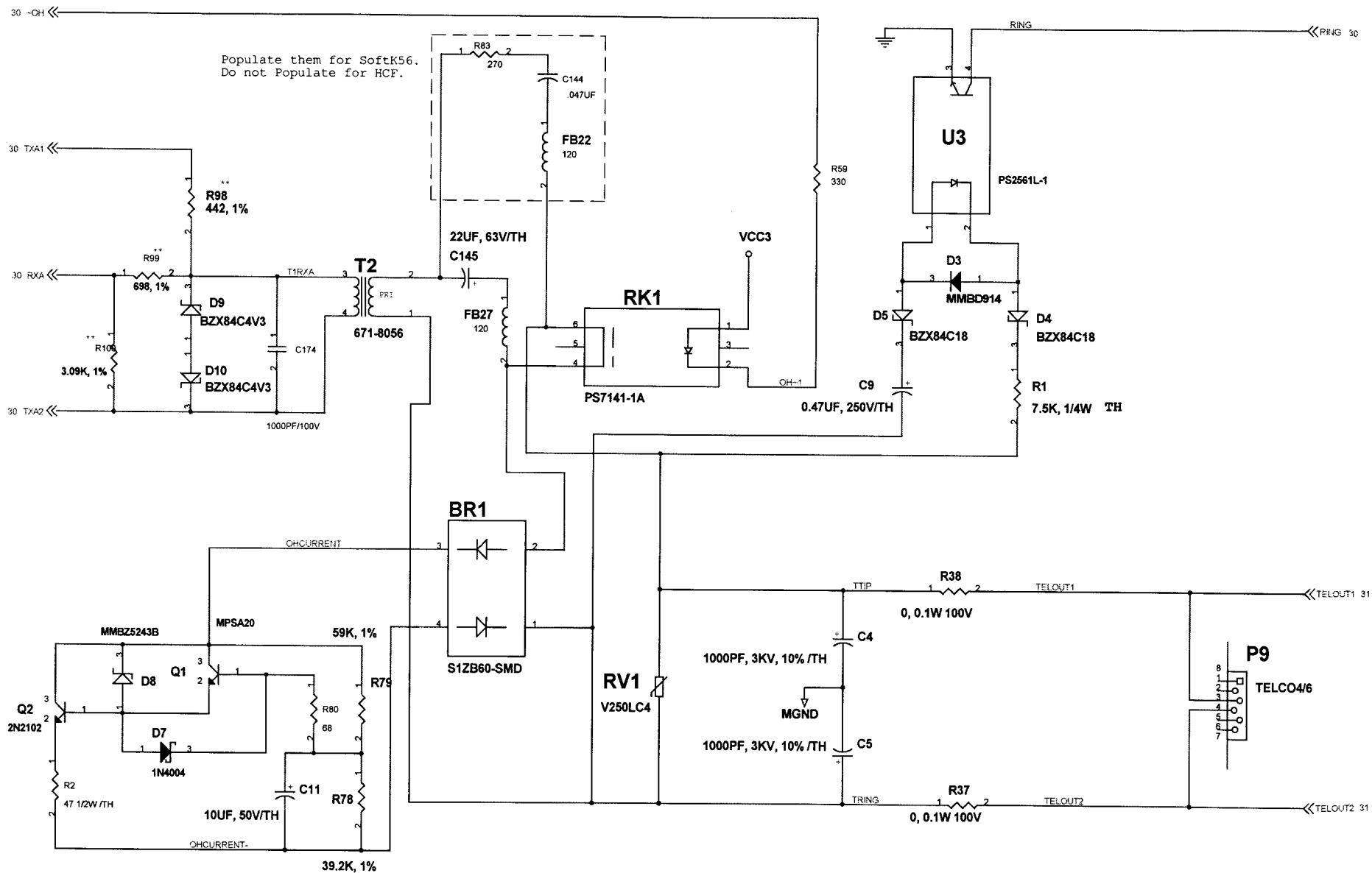
ISA Socket Modem

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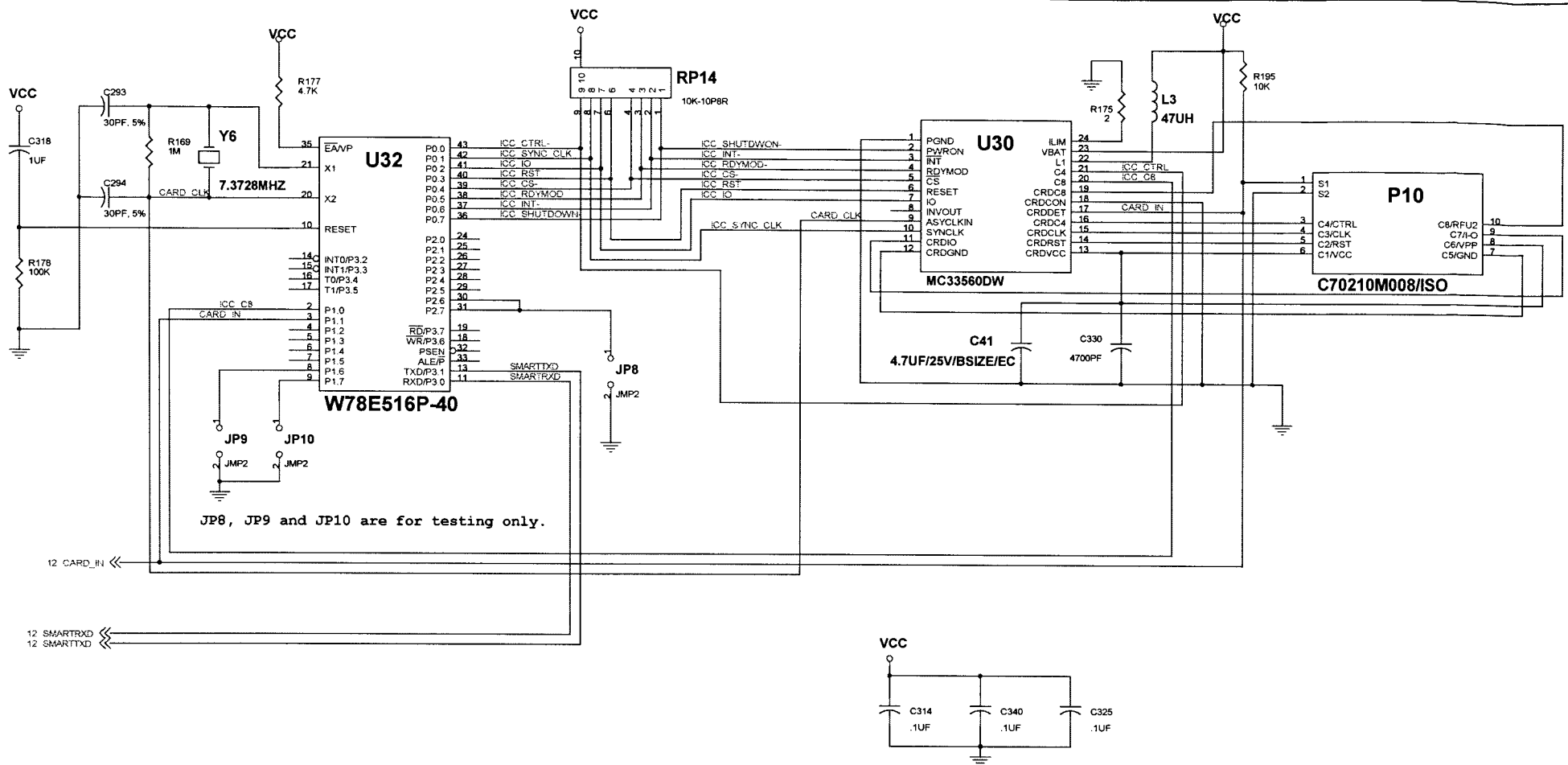
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SMART CARD

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