Address Decoding

C1 0.1uF GND
VCC
U1 74HCT688
20 VCC

| | | | P=R | 19 | CS |
A7 2 P0
A6 4 P1
A5 6 P2
A4 8 P3
A3 11 P4
A2 13 P5
15 P6
17 P7

VCC
12 11
10 9
8 7
6 5
4 3
2 1
BASE ADDRESS
JP1

GND

3 R0
5 R1
7 R2
9 R3
12 R4
14 R5
16 R6
18 R7

GND IORQ 1 G

R1 R2 R3 R4 R5 R6
10K 10K 10K 10K 10K 10K
GND

10 GND
GND

RC2014 bus

P1
RC2014 BUS

1
2
3
4
5
6
7
8
9 A7
10 A6
11 A5
12 A4
13 A3
14 A2
15 A1
16 A0
17
18
19
20 RESET
21
22 INT
23
24 WR
25 RD
26 IORQ
27 D0
28 D1
29 D2
30 D3
31 D4
32 D5
33 D6
34 D7
35
36
37
38
39

PWR_FLAG
GND
VCC PWR_FLAG

Digital audio / Tone generator

VCC
C6 0.1uF GND
U2 YMF262

D0 10 D0
D1 11 D1
D2 13 D2
D3 14 D3
D4 15 D4
D5 16 D5
D6 17 D6
D7 18 D7

VDD

19 SMPBD SMPBD
20 SMPAC SMPAC
21 DOAB DOAB
22 DOCD
23 ΦSY DAC_CLK

A0 4 A0
A1 5 A1
WR 6 WR
RD 7 RD
CS 8 CS

IRQ 2

VCC
C19 0.1uF GND
Y1 SG-8002CA

4 EN VDD
OUT
1
GND 2
OUT
GND

RESET 3 IC
TEST 9

CLK 24 ΦM
12 GND
GND

DAC & Analogue audio

+5VA
C7 0.1uF GND
+5VA
U4A TL074
C8 10uF GND

+5VA
C12 0.1uF
V+ 4
U4E TL074
11 V-
GND

U3 YAC512

DOAB 4 DIN
DAC_CLK 5 CLK
+5VA 6 FSEL
SMPBD 7 SMP2
SMPAC 8 SMP1

1 VDD
3 VDD
CV 16
MP 14
AOUT 13
SWIN 12

CH2 11 AUDIO_CH2
CH1 10 AUDIO_CH1

TST1 9
TST2 15
+5VA

2 GND
GND

U4B TL074
C11 68pf GND
R7 33

U4D TL074
C10 2.7nf GND
L

U4C TL074
C9 2.7nf GND
R

C15 10uf R8 100
L
R10 10K
GND

C16 10uf R9 100
R
R11 10K
GND

CON1 SJ1-3523N

Power

L1 BLM18PG221SN1D
VCC
C2 10nF C3 100nF C4 10uF
GND
L2 33uH
PWR_FLAG +5VA
C5 10uF
GND

Non-functional components

H1 MountingHole