Abblockkondensatoren (U1, U2)

+5V   +5V   +5V

C1   C2   C3
100n   100n   100n

GND   GND   GND

+5V   +5V

R1
47k

U1

7 VCC
20 AVCC

RESET   1 PC6/RESET   PB0 14   STATUS_LED
                             PB1 15   CLOCK_4MHZ
           9 PB6/XTAL1   PB2 16
           10 PB7/XTAL2   PB3 17   MOSI
                             PB4 18   MISO
           21 AREF   PB5 19   SCK

                             PC0 23   SOUND_WE
                             PC1 24   SOUND_READY
                             PC2 25
                             PC3 26
                             PC4 27
                             PC5 28

ATmega8-16PU   PD0 2   SOUND_D0
                             PD1 3   SOUND_D1
                             PD2 4   SOUND_D2
                             PD3 5   SOUND_D3
                             PD4 6   SOUND_D4
                             PD5 11   SOUND_D5
                             PD6 12   SOUND_D6
                             PD7 13   SOUND_D7

           8 GND
           22 AGND

GND

U2
SN76489AN

CLOCK_4MHZ   14 CLOCK

SOUND_D0   3 D0
SOUND_D1   2 D1
SOUND_D2   1 D2   AUDIO_OUT 7
SOUND_D3   15 D3
SOUND_D4   13 D4
SOUND_D5   12 D5
SOUND_D6   11 D6
SOUND_D7   10 D7

                             +5V

SOUND_WE   5 WE   VCC 16
              6 CE
SOUND_READY   4 READY   GND 8

GND   GND

Sheet: audio_amplifire

audio_in

File: audio_amplifire.sch

System Status LED

STATUS_LED

ISP (6 Pin Connector)

+5V

           2
           VCC

MISO   1 MISO
MOSI   4 MOSI
SCK   3 SCK   J1
RESET   5 RST   AVR-ISP-6

           6
           GND

GND

200
R2

LED
D1

GND

Thorsten Kattanek

Sheet: /
File: sega_sound.sch

Title: Sega Sound with SN76489AN

Size: A4   Date: 2020-01-27   Rev: 1.0
KiCad E.D.A. kicad 5.1.4+dfsg1-1   Id: 1/2

audio_in