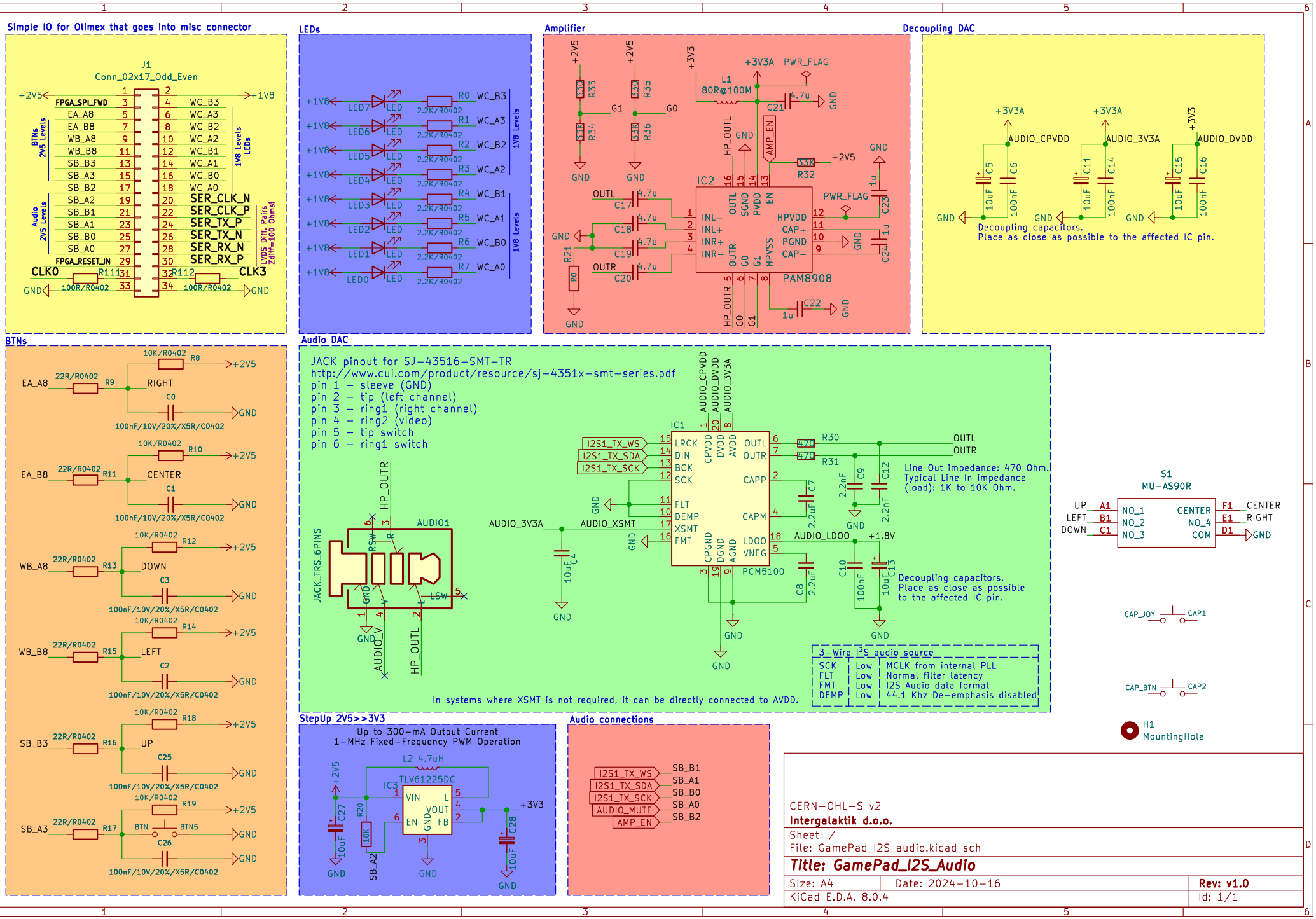
Simple IO for Olimex that goes into misc connector
J1
Conn_02x17_Odd_Even
FPGA_SPI_FWD
SER_CLK_N
SER_CLK_P
SER_TX_P
SER_TX_N
SER_RX_N
SER_RX_P
FPGA_RESET_IN
CLK0
CLK3
LEDs
Amplifier
IC2
PAM8908
Decoupling DAC
Decoupling capacitors.
Place as close as possible to the affected IC pin.
BTNs
RIGHT
CENTER
DOWN
LEFT
UP
Audio DAC
JACK pinout for SJ-43516-SMT-TR
http://www.cui.com/product/resource/sj-4351x-smt-series.pdf
pin 1 – sleeve (GND)
pin 2 – tip (left channel)
pin 3 – ring1 (right channel)
pin 4 – ring2 (video)
pin 5 – tip switch
pin 6 – ring1 switch
IC1
PCM5100
Line Out impedance: 470 Ohm.
Typical Line In impedance
(load): 1K to 10K Ohm.
Decoupling capacitors.
Place as close as possible
to the affected IC pin.
3-Wire I²S audio source
SCK Low MCLK from internal PLL
FLT Low Normal filter latency
FMT Low I2S Audio data format
DEMP Low 44.1 Khz De-emphasis disabled
In systems where XSMT is not required, it can be directly connected to AVDD.
S1
MU-AS90R
StepUp 2V5>>3V3
Up to 300-mA Output Current
1-MHz Fixed-Frequency PWM Operation
IC3
TLV61225DC
Audio connections
H1
MountingHole
CERN-OHL-S v2
Intergalaktik d.o.o.
Sheet: /
File: GamePad_I2S_audio.kicad_sch
Title: GamePad_I2S_Audio
Size: A4
Date: 2024-10-16
Rev: v1.0
KiCad E.D.A. 8.0.4
Id: 1/1