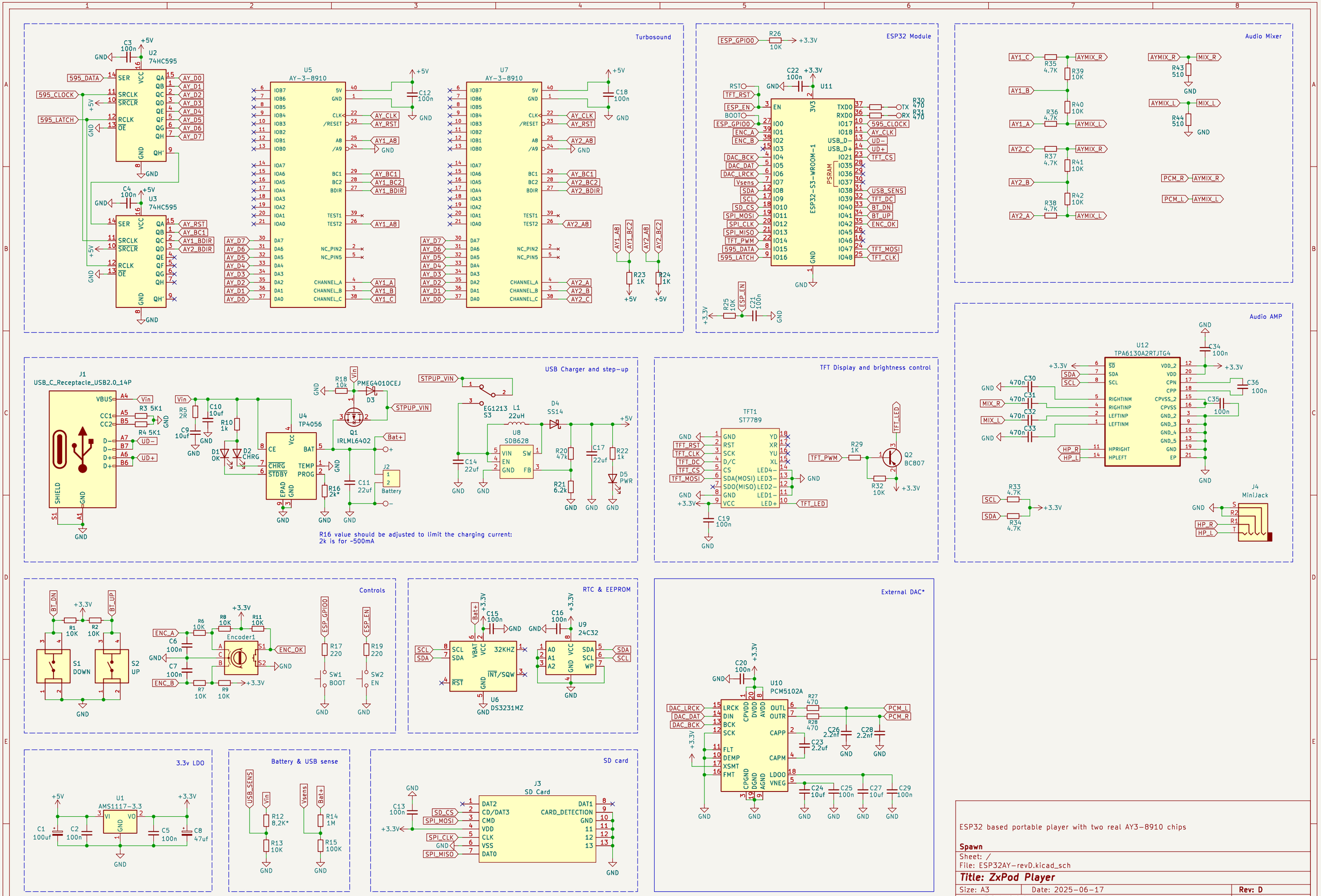
Turbosound
U2
74HC595
U3
74HC595
U5
AY-3-8910
U7
AY-3-8910
ESP32 Module
U11
ESP32-S3-WROOM-1
Audio Mixer
Audio AMP
U12
TPA6130A2RTJTG4
J4
MiniJack
USB Charger and step-up
J1
USB_C_Receptacle_USB2.0_14P
U4
TP4056
Q1
IRLML6402
J2
Battery
U8
SDB628
L1
22uH
D4
SS14
D5
PWR
R16 value should be adjusted to limit the charging current:
2k is for ~500mA
TFT Display and brightness control
TFT1
ST7789
Q2
BC807
Controls
Encoder1
RTC & EEPROM
U9
24C32
U6
DS3231MZ
External DAC*
U10
PCM5102A
3.3v LDO
U1
AMS1117-3.3
Battery & USB sense
SD card
J3
SD Card
ESP32 based portable player with two real AY3-8910 chips
Spawn
Sheet: /
File: ESP32AY-revD.kicad_sch
Title: ZxPod Player
Size: A3
Date: 2025-06-17
Rev: D
KiCad E.D.A. 9.0.0
Id: 1/1