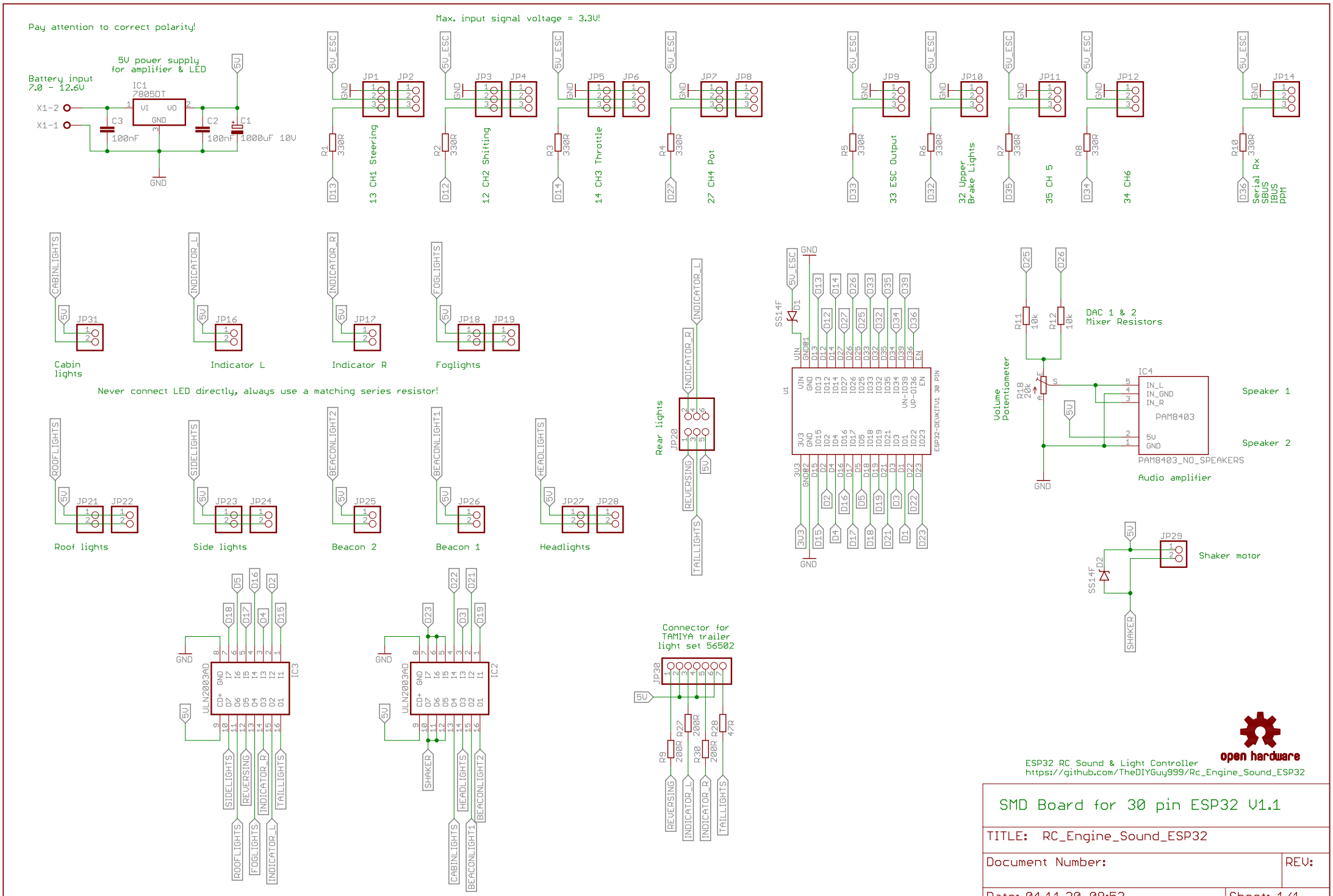
Pay attention to correct polarity!
Max. input signal voltage = 3.3V!
5V power supply
for amplifier & LED
Battery input
7.0 - 12.6V
IC1
7805DT
VI
VO
GND
X1-2
X1-1
C3
100nF
C2
100nF
C1
1000uF 10V
5V
GND
JP1
JP2
JP3
JP4
JP5
JP6
JP7
JP8
JP9
JP10
JP11
JP12
JP14
5V_ESC
R1 330R
R2 330R
R3 330R
R4 330R
R5 330R
R6 330R
R7 330R
R8 330R
R10 330R
D13
D12
D14
D27
D33
D32
D35
D34
D36
13 CH1 Steering
12 CH2 Shifting
14 CH3 Throttle
27 CH4 Pot
33 ESC Output
32 Upper
Brake Lights
35 CH 5
34 CH6
Serial Rx
SBUS
IBUS
PPM
CABINLIGHTS
INDICATOR_L
INDICATOR_R
FOGLIGHTS
JP31
JP16
JP17
JP18
JP19
Cabin
lights
Indicator L
Indicator R
Foglights
Never connect LED directly, always use a matching series resistor!
ROOFLIGHTS
SIDELIGHTS
BEACONLIGHT2
BEACONLIGHT1
HEADLIGHTS
JP21
JP22
JP23
JP24
JP25
JP26
JP27
JP28
Roof lights
Side lights
Beacon 2
Beacon 1
Headlights
Rear lights
JP20
REVERSING
TAILLIGHTS
SS14F
D1
U1
ESP32-DEVKITV1 30 PIN
VIN
GND
3V3
EN
VN-I39
VP-I36
D25
D26
R11 10k
R12 10k
DAC 1 & 2
Mixer Resistors
Volume
Potentiometer
R18
20k
IC4
IN_L
IN_GND
IN_R
PAM8403
5V
GND
PAM8403_NO_SPEAKERS
Speaker 1
Speaker 2
Audio amplifier
JP29
Shaker motor
SHAKER
D2
ULN2003AD
IC3
IC2
CD+
SIDELIGHTS
REVERSING
INDICATOR_R
TAILLIGHTS
ROOFLIGHTS
FOGLIGHTS
INDICATOR_L
CABINLIGHTS
BEACONLIGHT1
BEACONLIGHT2
HEADLIGHTS
Connector for
TAMIYA trailer
light set 56502
JP30
R9 200R
R27 200R
R30 200R
R28 47R
open hardware
ESP32 RC Sound & Light Controller
https://github.com/TheDIYGuy999/Rc_Engine_Sound_ESP32
SMD Board for 30 pin ESP32 V1.1
TITLE: RC_Engine_Sound_ESP32
Document Number:
REV:
Date: 04.11.20 08:52
Sheet: 1/1