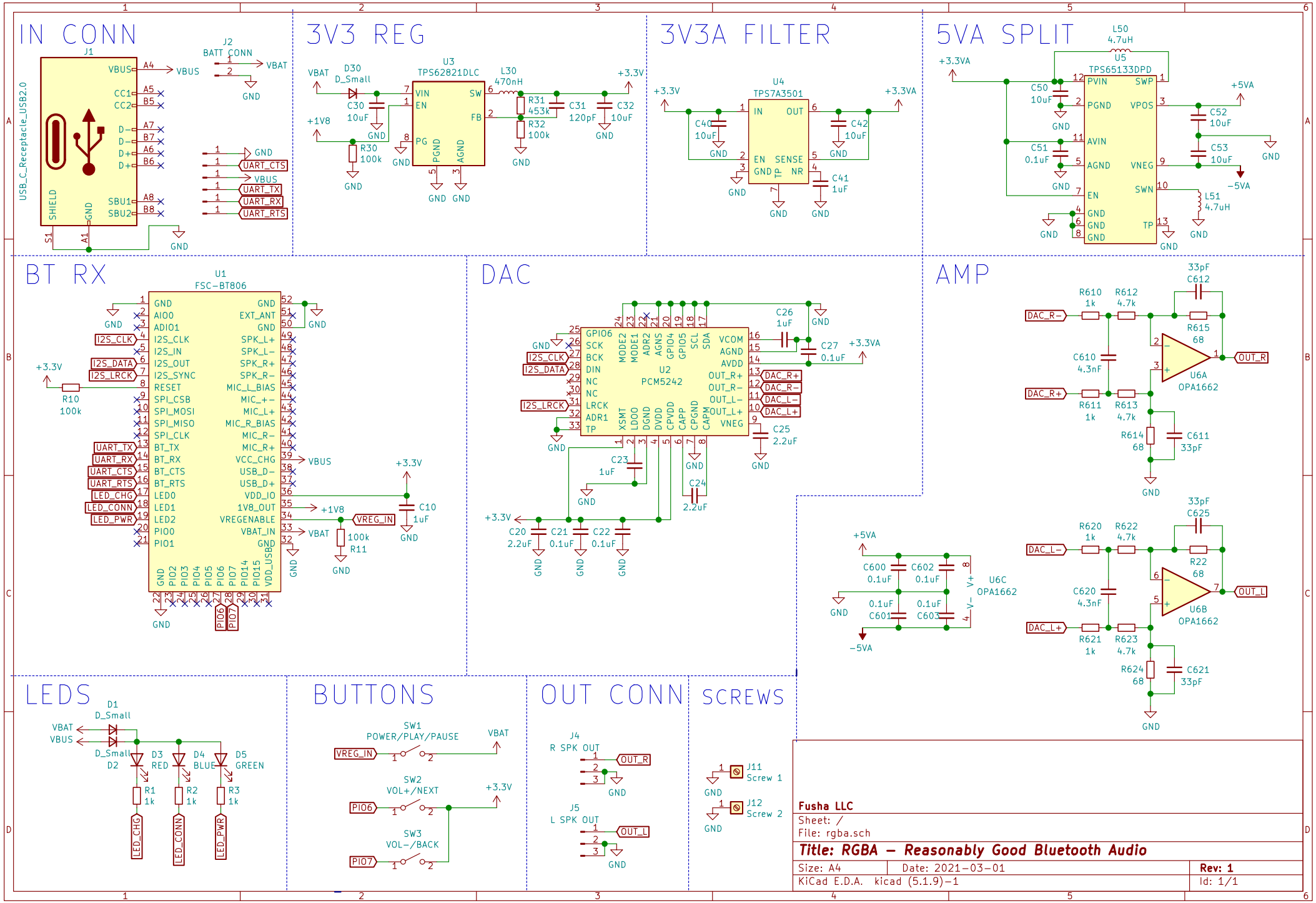
IN CONN
J1
USB_C_Receptacle_USB2.0
VBUS
CC1
CC2
D-
D-
D+
D+
SHIELD
GND
SBU1
SBU2
S1
A1
J2
BATT CONN
VBAT
GND
UART_CTS
VBUS
UART_TX
UART_RX
UART_RTS
3V3 REG
D30
D_Small
VBAT
C30
10uF
+1V8
R30
100k
U3
TPS62821DLC
VIN
EN
PG
PGND
AGND
SW
FB
L30
470nH
R31
453k
R32
100k
C31
120pF
C32
10uF
+3.3V
3V3A FILTER
U4
TPS7A3501
+3.3V
C40
10uF
IN
OUT
EN
SENSE
GND
NR
C41
1uF
C42
10uF
+3.3VA
5VA SPLIT
+3.3VA
L50
4.7uH
U5
TPS65133DPD
PVIN
SWP
PGND
VPOS
AVIN
AGND
VNEG
EN
SWN
TP
C50
10uF
C51
0.1uF
C52
10uF
C53
10uF
+5VA
-5VA
L51
4.7uH
BT RX
U1
FSC-BT806
GND
AIO0
ADIO1
I2S_CLK
I2S_IN
I2S_OUT
I2S_SYNC
RESET
SPI_CSB
SPI_MOSI
SPI_MISO
SPI_CLK
BT_TX
BT_RX
BT_CTS
BT_RTS
LED0
LED1
LED2
PIO0
PIO1
EXT_ANT
SPK_L+
SPK_L-
SPK_R+
SPK_R-
MIC_L_BIAS
MIC_+-
MIC_L+
MIC_R_BIAS
MIC_R-
MIC_R+
VCC_CHG
USB_D-
USB_D+
VDD_IO
1V8_OUT
VREGENABLE
VBAT_IN
PIO2
PIO3
PIO4
PIO5
PIO6
PIO7
PIO14
PIO15
VDD_USB
I2S_DATA
I2S_LRCK
UART_TX
UART_RX
UART_CTS
UART_RTS
LED_CHG
LED_CONN
LED_PWR
R10
100k
VBUS
+3.3V
C10
1uF
+1V8
VREG_IN
VBAT
R11
100k
DAC
U2
PCM5242
GPIO6
SCK
BCK
DIN
NC
NC
LRCK
ADR1
TP
MODE2
MODE1
ADR2
AGNS
GPIO4
GPIO5
SCL
SDA
VCOM
AGND
AVDD
OUT_R+
OUT_R-
OUT_L-
OUT_L+
VNEG
XSMT
LDOO
DGND
DVDD
CPVDD
CAPP
CPGND
CAPM
DAC_R+
DAC_R-
DAC_L-
DAC_L+
C26
1uF
C27
0.1uF
C25
2.2uF
C23
1uF
C24
2.2uF
C20
2.2uF
C21
0.1uF
C22
0.1uF
AMP
R610
1k
R612
4.7k
C612
33pF
R615
68
C610
4.3nF
U6A
OPA1662
OUT_R
R611
1k
R613
4.7k
R614
68
C611
33pF
R620
1k
R622
4.7k
C625
33pF
R22
68
C620
4.3nF
U6B
OPA1662
OUT_L
R621
1k
R623
4.7k
R624
68
C621
33pF
+5VA
C600
0.1uF
C602
0.1uF
C601
0.1uF
C603
0.1uF
U6C
OPA1662
-5VA
LEDS
D1
D_Small
VBAT
VBUS
D2
D_Small
D3
RED
D4
BLUE
D5
GREEN
R1
1k
R2
1k
R3
1k
LED_CHG
LED_CONN
LED_PWR
BUTTONS
SW1
POWER/PLAY/PAUSE
VREG_IN
VBAT
SW2
VOL+/NEXT
PIO6
+3.3V
SW3
VOL-/BACK
PIO7
OUT CONN
J4
R SPK OUT
OUT_R
J5
L SPK OUT
OUT_L
SCREWS
J11
Screw 1
J12
Screw 2
Fusha LLC
Sheet: /
File: rgba.sch
Title: RGBA - Reasonably Good Bluetooth Audio
Size: A4
Date: 2021-03-01
Rev: 1
KiCad E.D.A. kicad (5.1.9)-1
Id: 1/1