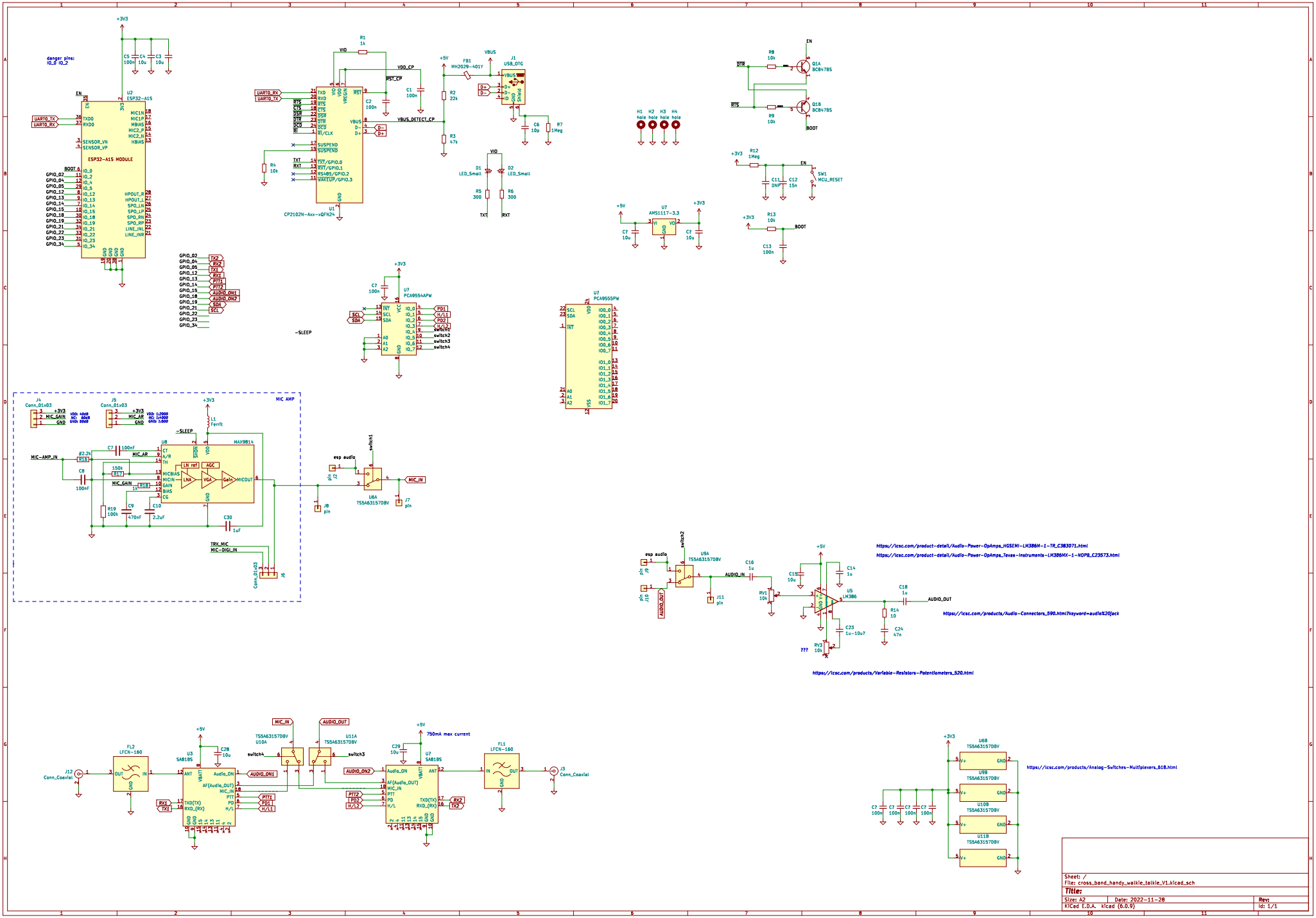
danger pins:
IO_0 IO_2
U2
ESP32-A1S
ESP32-A1S MODULE
UART0_TX
UART0_RX
EN
BOOT
GPIO_02
GPIO_04
GPIO_05
GPIO_12
GPIO_13
GPIO_14
GPIO_15
GPIO_18
GPIO_19
GPIO_21
GPIO_22
GPIO_23
GPIO_34
U1
CP2102N-Axx-xQFN24
VIO
VDD_CP
RST_CP
VBUS_DETECT_CP
FB1
MH2029-401Y
J1
USB_OTG
C6
10p
R7
1Meg
R2
22k
R3
47k
R4
10k
D1
LED_Small
D2
LED_Small
R5
300
R6
300
TXT
RXT
H1 hole
H2 hole
H3 hole
H4 hole
Q1A
BC847BS
Q1B
BC847BS
R8
10k
R9
10k
DTR
RTS
R12
1Meg
C11
DNP
C12
15n
SW1
MCU_RESET
R13
10k
C13
100n
U7
AMS1117-3.3
C7
10u
C2
10u
U7
PCA9554APW
~SLEEP
U7
PCA9555PW
MIC AMP
J4
Conn_01x03
MIC_GAIN
GND
J5
Conn_01x03
MIC_AR
GND
L1
Ferrit
U8
MAX9814
MIC-AMP_IN
C7
100nF
C8
100nF
R16
2.2k
R17
150k
R18
R19
100k
C9
470nF
C10
2.2uF
C30
1uF
LN ref
AGC
LNA
VGA
Gain
MICOUT
MICBIAS
MICIN
GAIN
BIAS
CG
TRX_MIC
MIC-DIGI_IN
J6
Conn_01x03
esp audio
J2
pin
J8
pin
switch1
U6A
TS5A63157DBV
J7
pin
MIC_IN
esp audio
J9
pin
J10
pin
AUDIO_OUT
U9A
TS5A63157DBV
switch2
J11
pin
C16
1u
RV1
10k
C15
10u
C14
1u
U5
LM386
C18
1u
AUDIO_OUT
R14
10
C24
47n
C23
1u-10u?
RV3
10k
???
https://lcsc.com/product-detail/Audio-Power-OpAmps_HGSEMI-LM386M-1-TR_C383071.html
https://lcsc.com/product-detail/Audio-Power-OpAmps_Texas-Instruments-LM386MX-1-NOPB_C23573.html
https://lcsc.com/products/Audio-Connectors_590.html?keyword=audio%20jack
https://lcsc.com/products/Variable-Resistors-Potentiometers_520.html
J12
Conn_Coaxial
FL2
LFCN-160
U3
SA818S
C28
10u
AF(Audio_OUT)
MIC_IN
PTT
PD
H/L
TXD(TX)
RXD_(RX)
AUDIO_ON1
PTT1
PD1
H/L1
RX1
TX1
MIC_IN
TS5A63157DBV
U10A
switch4
AUDIO_OUT
U11A
TS5A63157DBV
switch3
AUDIO_ON2
PTT2
PD2
H/L2
C29
10u
750mA max current
U7
SA818S
Audio_ON
AF(Audio_OUT)
MIC_IN
PTT
PD
H/L
TXD(TX)
RXD_(RX)
RX2
TX2
FL1
LFCN-160
J3
Conn_Coaxial
U6B
TS5A63157DBV
U9B
TS5A63157DBV
U10B
TS5A63157DBV
U11B
TS5A63157DBV
C2
100n
C2
100n
C2
100n
C2
100n
https://lcsc.com/products/Analog-Switches-Multiplexers_818.html
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Rev:
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