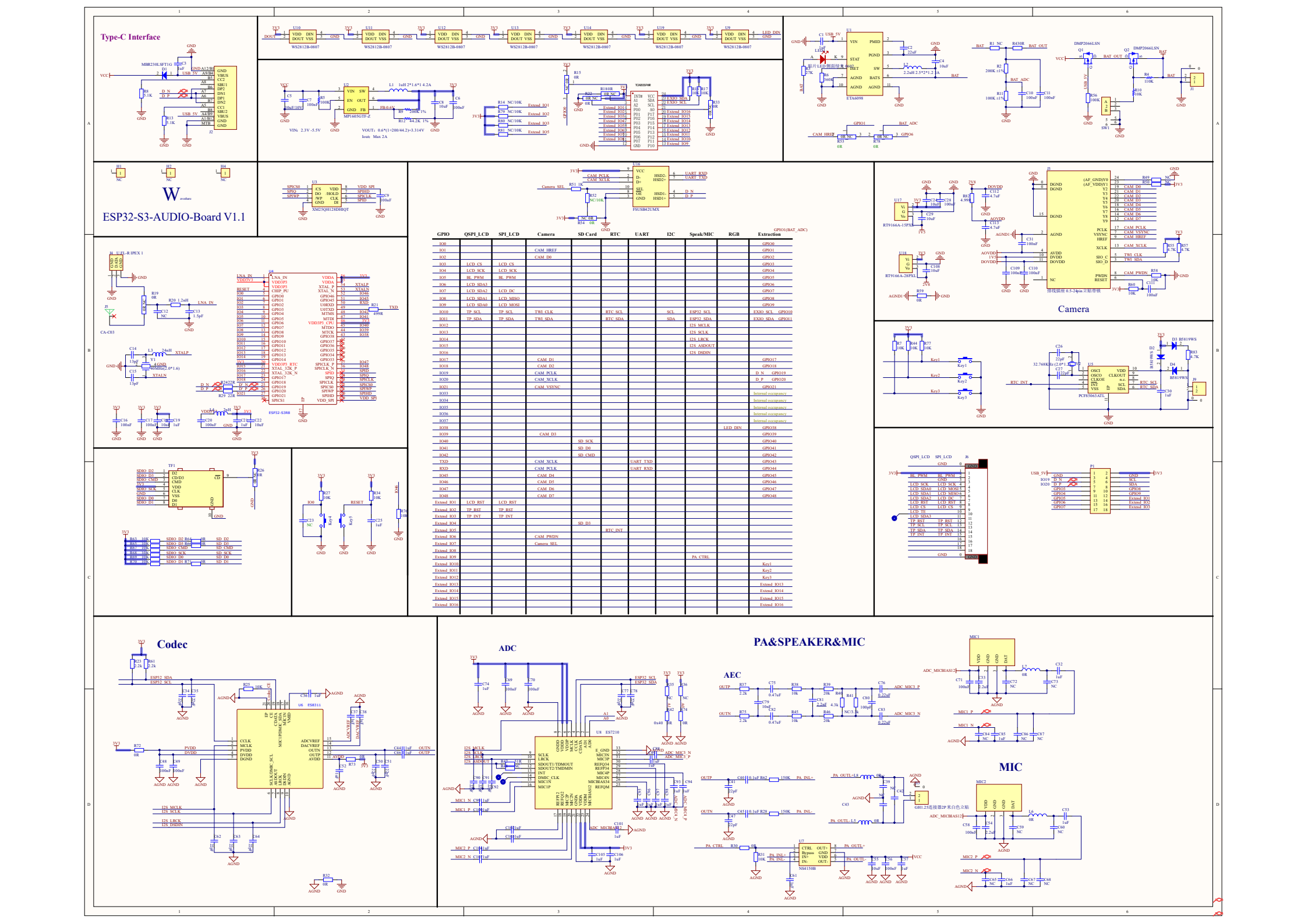
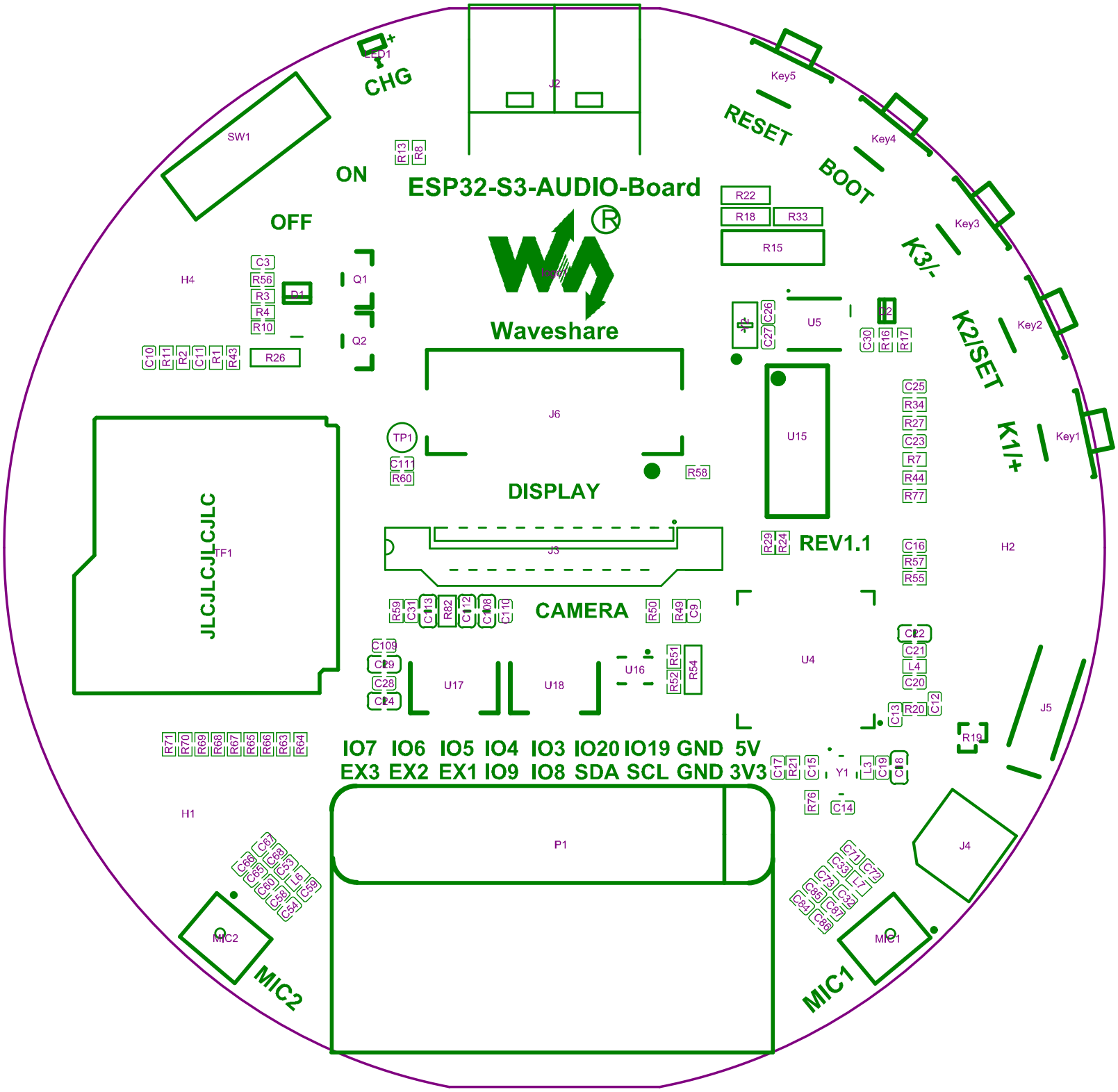
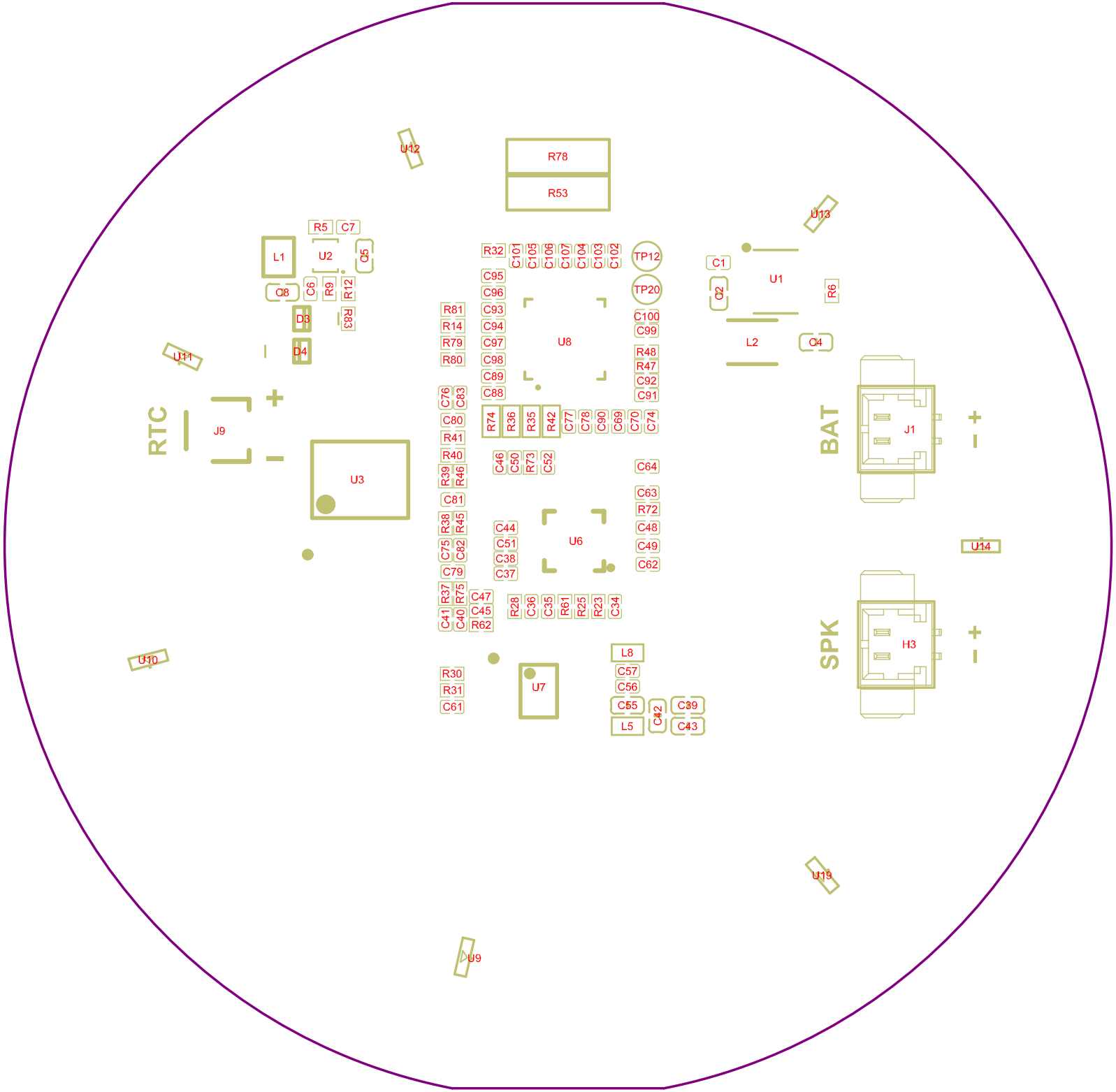


GPIO	QSPI_LCD	SPI_LCD	Camera	SD Card	RTC	UART	I2C	Speak/MIC	RGB	Extraction
IO0										GPIO0
IO1			CAM_HREF							GPIO1
IO2			CAM_D0							GPIO2
IO3	LCD_CS	LCD_CS								GPIO3
IO4	LCD_SCK	LCD_SCK								GPIO4
IO5	BL_PWM	BL_PWM								GPIO5
IO6	LCD_SDA1									GPIO6
IO7	LCD_SDA2	LCD_DC								GPIO7
IO8	LCD_SDA1	LCD_MISO								GPIO8
IO9	LCD_SDA0	LCD_MOSI								GPIO9
IO10	TP_SCL	TP_SCL	TWI_CLK		RTC_SCL		SCL	ESP32_SCL		EXIO_SCL GPIO10
IO11	TP_SDA	TP_SDA	TWI_SDA		RTC_SDA		SDA	ESP32_SDA		EXIO_SDA GPIO11
IO12								I2S_MCLK		
IO13								I2S_SCLK		
IO14								I2S_LRCK		
IO15								I2S_ASDOUT		
IO16								I2S_DSDIN		
IO17			CAM_D1							GPIO17
IO18			CAM_D2							GPIO18
IO19			CAM_PCLK						D_N	GPIO19
IO20			CAM_XCLK						D_P	GPIO20
IO21			CAM_VSYNC							GPIO21
IO33										Internal occupancy
IO34										Internal occupancy
IO35										Internal occupancy
IO36										Internal occupancy
IO37										Internal occupancy
IO38									LED_DIN	GPIO38
IO39			CAM_D3							GPIO39
IO40				SD_SCK						GPIO40
IO41				SD_D0						GPIO41
IO42				SD_CMD						GPIO42
TXD			CAM_XCLK			UART_TXD				GPIO43
RXD			CAM_PCLK			UART_RXD				GPIO44
IO45			CAM_D4							GPIO45
IO46			CAM_D5							GPIO46
IO47			CAM_D6							GPIO47
IO48			CAM_D7							GPIO48
Extend_IO1	LCD_RST	LCD_RST								
Extend_IO2	TP_RST	TP_RST								
Extend_IO3	TP_INT	TP_INT								
Extend_IO4				SD_D3						
Extend_IO5					RTC_INT					
Extend_IO6			CAM_PWDN							
Extend_IO7			Camera_SEL							
Extend_IO8										
Extend_IO9								PA_CTRL		
Extend_IO10										Key1
Extend_IO11										Key2
Extend_IO12										Key3
Extend_IO13										Extend_IO13
Extend_IO14										Extend_IO14
Extend_IO15										Extend_IO15
Extend_IO16										Extend_IO16


ESP32-S3-AUDIO-Board
Waveshare
REV1.1
CHG
ON
OFF
RESET
BOOT
K3/-
K2/SET
K1/+
Key1
Key2
Key3
Key4
Key5
DISPLAY
CAMERA
JLCJLCJLCJLC
TF1
MIC1
MIC2
IO7 IO6 IO5 IO4 IO3 IO20 IO19 GND 5V
EX3 EX2 EX1 IO9 IO8 SDA SCL GND 3V3
P1
J2
J3
J4
J5
J6
U4
U5
U15
U16
U17
U18
H1
H2
H4
SW1
TP1
Y1


U12
R78
R53
U13
R5
C7
L1
U2
C5
C8
C6
R9
R12
R83
D3
D4
U11
RTC
J9
U3
R32
C101
C105
C106
C107
C104
C103
C102
TP12
C95
C96
TP20
R81
C93
C100
R14
C94
C99
R79
C97
U8
R48
R80
C98
R47
C89
C92
C88
C91
C76
C83
R74
R36
R35
R42
C77
C78
C90
C69
C70
C74
C80
R41
R40
C46
C50
R73
C52
C64
R39
R46
C63
C81
R72
R38
R45
C44
C48
C75
C82
C51
U6
C49
C38
C62
C79
C37
R37
R75
C47
R28
C36
C35
R61
R25
R23
C34
C41
C40
C45
R62
U10
L8
R30
C57
U7
R31
C56
C61
C55
C39
C42
C43
L5
C1
U1
C2
R6
L2
C4
BAT
J1
U14
SPK
H3
U19
U9