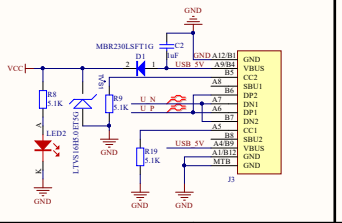
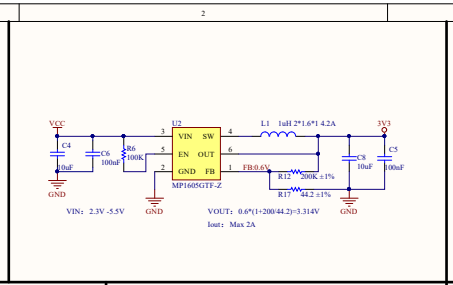
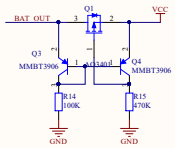
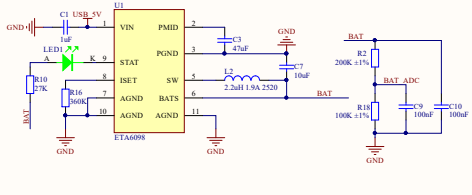
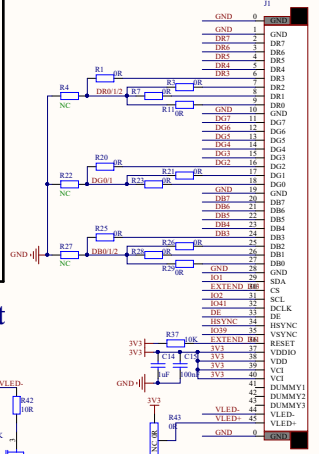
Type-C Interface







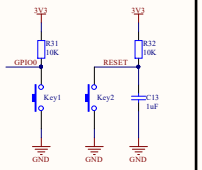




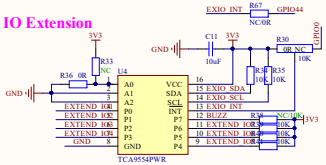
Mechanical

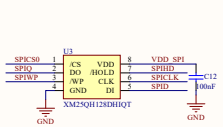
Mounting holes for Module
M2x4x4+2.7x1.5.v5 "Opfn



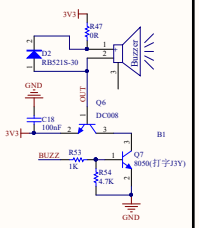


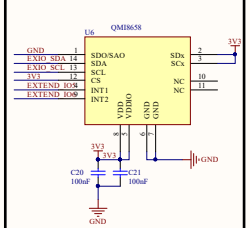
IO Extension

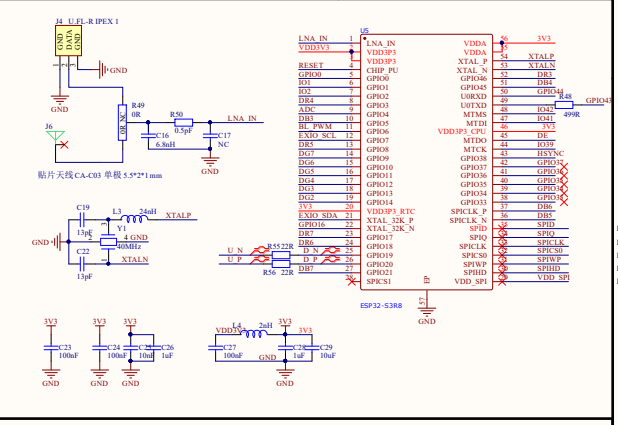


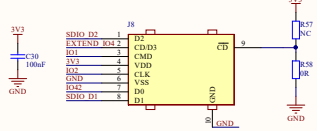


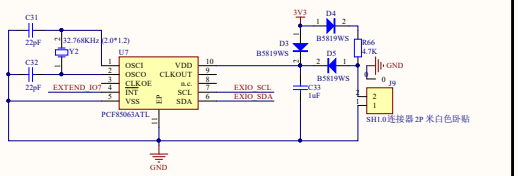
Buzzer





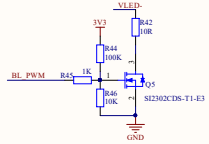


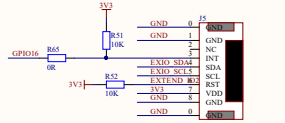


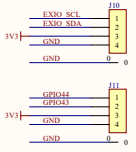


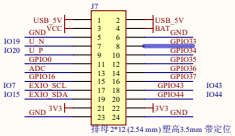
GPIO	LCD	SD Card	IMU	RTC	UART	EXIO	I2C	Other	External
GPIO0								GPIO0	GPIO0
IO1	IO1	IO1							
IO2	IO2	IO2							
DR4	DR4								
ADC								ADC	ADC
DB3	DB3								
BL_PWM	BL_PWM								
EXIO_SCL	EXIO_SCL		EXIO_SCL	EXIO_SCL		EXIO_SCL	EXIO_SCL		EXIO_SCL
DR5	DR5								
DG7	DG7								
DG6	DG6								
DG5	DG5								
DG4	DG4								
DG3	DG3								
DG2	DG2								
EXIO_SDA	EXIO_SDA		EXIO_SDA	EXIO_SDA		EXIO_SDA	EXIO_SDA		EXIO_SDA
GPIO16	GPIO16								GPIO16
DR7	DR7								
DR6	DR6								
IO19								D_N	D_N
IO20								D_P	D_P
DB7	DB7								
IO33_GPIO33								Internal occupancy	GPIO33
IO34_GPIO34								Internal occupancy	GPIO34
IO35_GPIO35								Internal occupancy	GPIO35
IO36_GPIO36								Internal occupancy	GPIO36
IO37_GPIO37								Internal occupancy	GPIO37
HSYNC	HSYNC								
IO39	IO39								
DE	DE								
IO41	IO41								
IO42		IO42							
GPIO43					GPIO43			IO43	GPIO43
GPIO44					GPIO44			IO44	GPIO44
DB4	DB4								
DR3	DR3								
DB6	DB6								
DB5	DB5								
EXTEND_IO1	EXTEND_IO1								
EXTEND_IO2	EXTEND_IO2								
EXTEND_IO3	EXTEND_IO3								
EXTEND_IO4		EXTEND_IO4							
EXTEND_IO5			EXTEND_IO5						
EXTEND_IO6			EXTEND_IO6						
EXTEND_IO7				EXTEND_IO7					
BUZZ								BUZZ	

Backlight



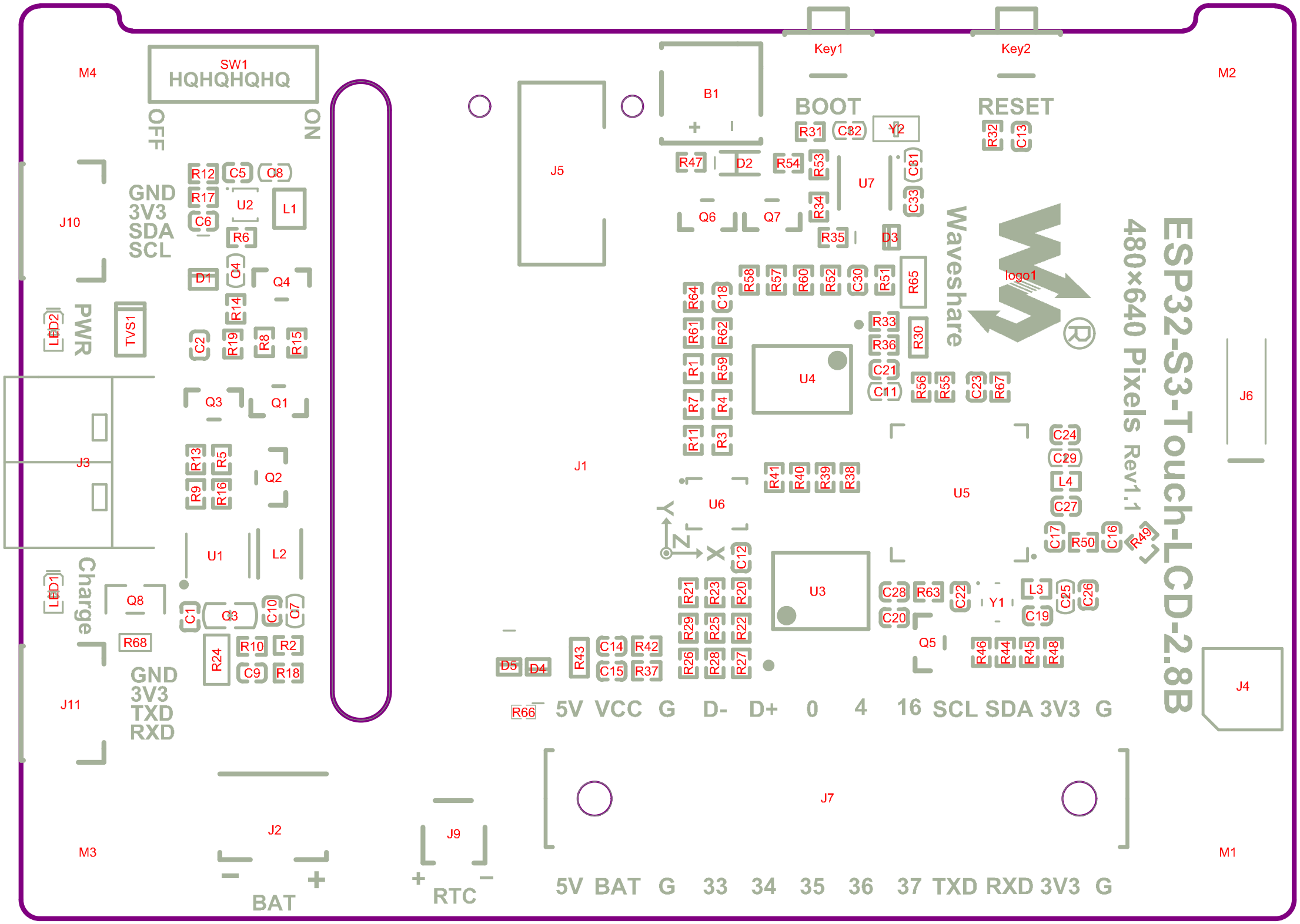


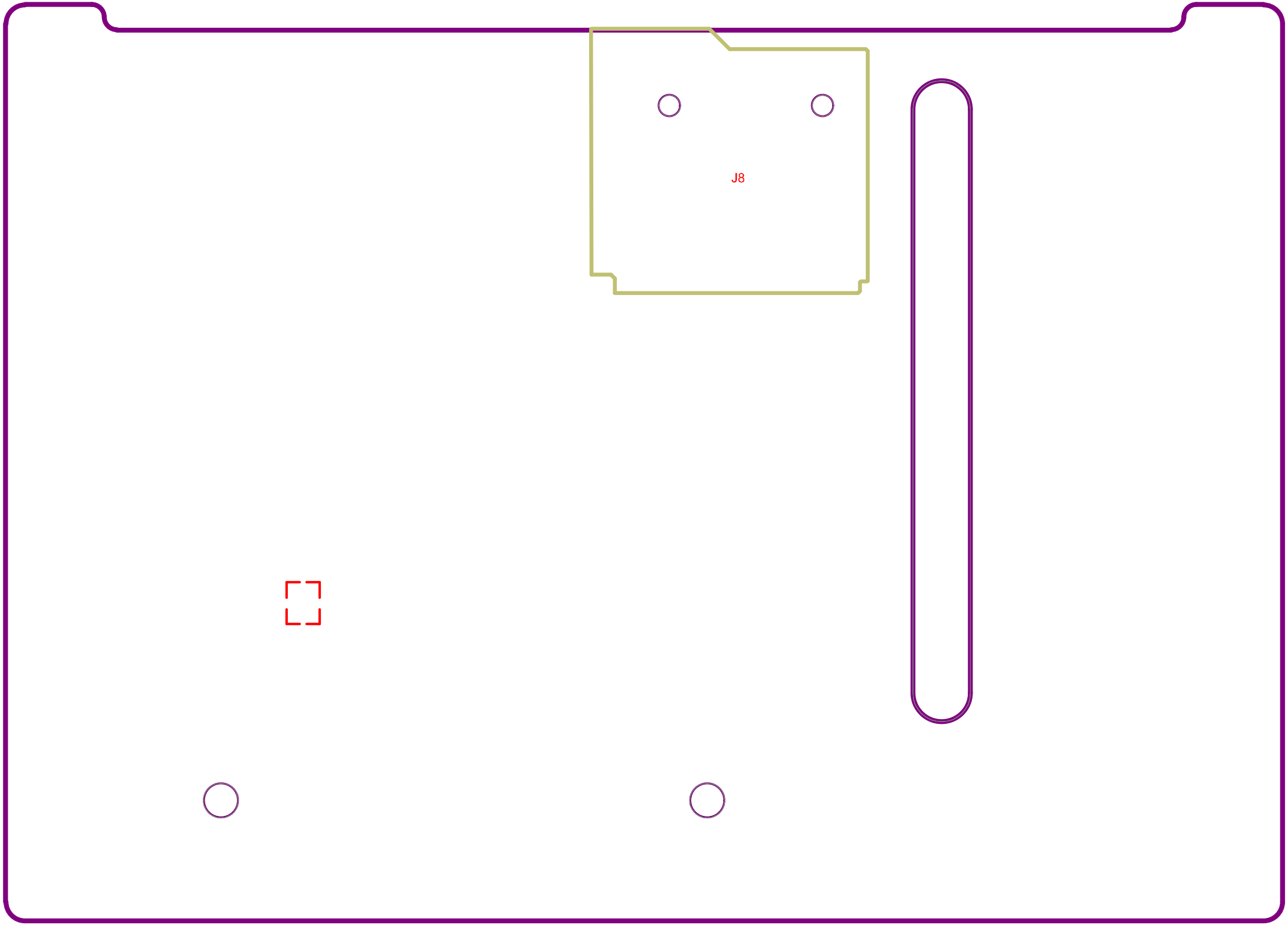




W aveshare

ESP32-S3-Touch-LCD-2.8B


ESP32-S3-Touch-LCD-2.8B
480×640 Pixels Rev1.1
Waveshare
logo1
SW1
HQHQHQHQ
OFF
ON
Key1
Key2
BOOT
RESET
B1
M1
M2
M3
M4
J1
J2
J3
J4
J5
J6
J7
J9
J10
J11
U1
U2
U3
U4
U5
U6
U7
L1
L2
L3
L4
Y1
Y2
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
D1
D2
D3
D4
D5
LED1
LED2
PWR
Charge
TVS1
GND
3V3
SDA
SCL
GND
3V3
TXD
RXD
BAT
RTC
5V VCC G D- D+ 0 4 16 SCL SDA 3V3 G
5V BAT G 33 34 35 36 37 TXD RXD 3V3 G


J8