

JPL.mp30.1.3.aBOM

Reference	Value	
BOOT1	BOOT	
BT1	LIPO	
C1	.47uF	
C2	47uF	
C3,C4	2.2nF	
C5,C9,C15,C19,C21	.1uF	
C6,C10,C16,C20,C23	10uF	
C7	2.2 uF	
C8	10 nF	
C11,C13	0.1uF	
C12	1uF	
C14	4.7 uF	
C17,C18	2.2uF	
D1,D2	1N5819WS	
Enc1,J3		
J1	Micro_SD_Card	
J2	USB_C	
J4	Conn_01x12	
J5	AudioJack3	
J6	Conn_01x03_Pin	
Q1,Q2	BSS138	
R1,R2	5.1K	
R3,R8,R9,R10,R11,R13,R14,R15,R16,R17,R18,R19	10K	
R4,R5		470
R6,R7	100K	
R12		10
RST1	SW_SPST	
SL2	HOLD	
SW1,SW2	SW_Push	
U1	ESP32-S3-WROOM-1	
U2	MAX1811	
U4	PCM5102A	
U5	LT1963AxST-3.3	

MECHANICAL

Bolt, M2x14, countersunk
 Bolt, M1.4x2 flat wafer head
 Threaded insert, M2x3
 Threaded insert, M1.4x1.5

Datasheet

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https://datasheet.lcsc.com/lcsc/2204281430_Guangdong-Hottech-1N5819WS_C191023.pdf
<https://www.adafruit.com/product/5001>
<http://katalog.we-online.de/em/datasheet/693072010801.pdf>
https://www.usb.org/sites/default/files/documents/usb_type-c.zip

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<https://www.onsemi.com/pub/Collateral/BSS138-D.PDF>

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https://www.espressif.com/sites/default/files/documentation/esp32-s3-wroom-1_u_wroom-1u_datasheet_en.pdf
<https://datasheets.maximintegrated.com/en/ds/MAX1811.pdf>
<https://www.ti.com/lit/ds/symlink/pcm5102a.pdf>
<https://www.analog.com/media/en/technical-documentation/data-sheets/1963aff.pdf>

https://www.aliexpress.com/item/2251832820627860.html?spm=a2g0o.order_list.order_list_main.5.1fdf1802KT
https://www.aliexpress.us/item/2255800124176528.html?spm=a2g0o.order_list.order_list_main.16.1fdf1802KT
https://www.aliexpress.us/item/3256808035269104.html?spm=a2g0o.order_detail.order_detail_item.3.3145f19c
https://www.aliexpress.us/item/3256808035269104.html?spm=a2g0o.order_detail.order_detail_item.3.3145f19c

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Footprint	Qty	DNP
Button_Switch_SMD:SW_SPST_B3U-1000P	1	
	1	
Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder	1	
Capacitor_SMD:C_1210_3225Metric	1	
Capacitor_SMD:C_0603_1608Metric	2	
Capacitor_SMD:C_0603_1608Metric	5	
Capacitor_SMD:C_0603_1608Metric	5	
Capacitor_SMD:C_0603_1608Metric	1	
Capacitor_SMD:C_0603_1608Metric	1	
Capacitor_SMD:C_0603_1608Metric	2	
Capacitor_SMD:C_0603_1608Metric	1	
Capacitor_SMD:C_0603_1608Metric	1	
Capacitor_SMD:C_0603_1608Metric	2	
Diode_SMD:D_SOD-323	2	
ANORotaryEncoder:ANO Rotary Encoder	2	
Connector_Card:microSD_HC_Molex_104031-0811	1	
Connector_USB:USB_C_Receptacle_G-Switch_GT-USB-7010ASV	1	
Connector_FFC-FPC:TE_1-1734839-2_1x12-1MP_P0.5mm_Horizontal	1	
Connector_Audio:Jack_3.5mm_KoreanHropartsElec_PJ-320D-4A_Horizontal	1	
Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical	1	
Package_TO_SOT_SMD:SOT-23	2	
Resistor_SMD:R_0603_1608Metric	2	
Resistor_SMD:R_0603_1608Metric	12	
Resistor_SMD:R_0603_1608Metric	2	
Resistor_SMD:R_0603_1608Metric	2	
Resistor_SMD:R_0603_1608Metric	1	
Button_Switch_SMD:SW_SPST_B3U-1000P	1	
Button_Switch_SMD:SW_SPDT_PCM12	1	
Button_Switch_SMD:SW_Push_1P1T-MP_NO_Horizontal_Alps_SKRTLAE010	2	
RF_Module:ESP32-S3-WROOM-1	1	
Package_SO:SOIC-8_3.9x4.9mm_P1.27mm	1	
Package_SO:TSSOP-20_4.4x6.5mm_P0.65mm	1	
Package_TO_SOT_SMD:SOT-223-3_TabPin2	1	
	4	
	4	
	4	