

| Reference | Value | Datasheet | Footprint | Qty | DNP |
|--|------------------|---|---|-----|-----|
| BOOT1 | BOOT | ~ | Button_Switch_SMD:SW_SPST_B3U-1000P | 1 | |
| BT1 | LIPO | ~ | | 1 | |
| C1 | .47uF | ~ | Capacitor_SMD:C_0603_1608Metric_Pad1.08x0.95mm_HandSolder | 1 | |
| C2 | 47uF | ~ | Capacitor_SMD:C_1210_3225Metric | 1 | |
| C3,C4 | 2.2nF | ~ | Capacitor_SMD:C_0603_1608Metric | 2 | |
| C5,C9,C15,C19,C21 | .1uF | ~ | Capacitor_SMD:C_0603_1608Metric | 5 | |
| C6,C10,C16,C20,C23 | 10uF | ~ | Capacitor_SMD:C_0603_1608Metric | 5 | |
| C7 | 2.2 uF | ~ | Capacitor_SMD:C_0603_1608Metric | 1 | |
| C8 | 10 nF | ~ | Capacitor_SMD:C_0603_1608Metric | 1 | |
| C11,C13 | 0.1uF | ~ | Capacitor_SMD:C_0603_1608Metric | 2 | |
| C12 | 1uF | ~ | Capacitor_SMD:C_0603_1608Metric | 1 | |
| C14 | 4.7 uF | ~ | Capacitor_SMD:C_0603_1608Metric | 1 | |
| C17,C18 | 2.2uF | ~ | Capacitor_SMD:C_0603_1608Metric | 2 | |
| D1,D2 | 1N5819WS | https://datasheet.lcsc.com/lcsc/2204281430_Guangdong-Hottech-1N5819WS_C191023.pdf | Diode_SMD:D_SOD-323 | 2 | |
| Enc1,J3 | | https://www.adafruit.com/product/5001 | ANORotaryEncoder:ANO Rotary Encoder | 2 | |
| J1 | Micro_SD_Card | http://katalog.we-online.de/em/datasheet/693072010801.pdf | Connector_Card:microSD_HC_Molex_104031-0811 | 1 | |
| J2 | USB_C | https://www.usb.org/sites/default/files/documents/usb_type-c.zip | Connector_USB:USB_C_Receptacle_G-Switch_GT-USB-7010ASV | 1 | |
| J4 | Conn_01x12 | ~ | Connector_FFC-FPC:TE_1-1734839-2_1x12-1MP_P0.5mm_Horizontal | 1 | |
| J5 | AudioJack3 | ~ | Connector_Audio:Jack_3.5mm_KoreanHropartsElec_PJ-320D-4A_Horizontal | 1 | |
| J6 | Conn_01x03_Pin | ~ | Connector_PinHeader_2.54mm:PinHeader_1x03_P2.54mm_Vertical | 1 | |
| Q1,Q2 | BSS138 | https://www.onsemi.com/pub/Collateral/BSS138-D.PDF | Package_TO_SOT_SMD:SOT-23 | 2 | |
| R1,R2 | 5.1K | ~ | Resistor_SMD:R_0603_1608Metric | 2 | |
| R3,R8,R9,R10,R11,R13,R14,R15,R16,R17,R18,R19 | 10K | ~ | Resistor_SMD:R_0603_1608Metric | 12 | |
| R4,R5 | | 470 ~ | Resistor_SMD:R_0603_1608Metric | 2 | |
| R6,R7 | 100K | ~ | Resistor_SMD:R_0603_1608Metric | 2 | |
| R12 | | 10 ~ | Resistor_SMD:R_0603_1608Metric | 1 | |
| RST1 | SW_SPST | ~ | Button_Switch_SMD:SW_SPST_B3U-1000P | 1 | |
| SL2 | HOLD | ~ | Button_Switch_SMD:SW_SPDT_PCM12 | 1 | |
| SW1,SW2 | SW_Push | ~ | Button_Switch_SMD:SW_Push_1P1T-MP_NO_Horizontal_Alps_SKRTLAE010 | 2 | |
| U1 | ESP32-S3-WROOM-1 | https://www.espressif.com/sites/default/files/documentation/esp32-s3-wroom-1_wroom-1u_datasheet_en.pdf | RF_Module:ESP32-S3-WROOM-1 | 1 | |
| U2 | MAX1811 | https://datasheets.maximintegrated.com/en/ds/MAX1811.pdf | Package_SO:SOIC-8_3.9x4.9mm_P1.27mm | 1 | |
| U4 | PCM5102A | https://www.ti.com/lit/ds/symlink/pcm5102a.pdf | Package_SO:TSSOP-20_4.4x6.5mm_P0.65mm | 1 | |
| U5 | LT1963AxST-3.3 | https://www.analog.com/media/en/technical-documentation/data-sheets/1963aff.pdf | Package_TO_SOT_SMD:SOT-223-3_TabPin2 | 1 | |
| MECHANICAL | | | | | |
| Bolt, M2x14, countersunk | | https://www.aliexpress.com/item/2251832820627860.html?spm=a2g0o.order_list.order_list_main.5.1fdf1802KTr34o | | 4 | |
| Bolt, M1.4x2 flat wafer head | | https://www.aliexpress.us/item/2255800124176528.html?spm=a2g0o.order_list.order_list_main.16.1fdf1802KTr34o&gatewayAdapt=glo2usa | | 4 | |
| Threaded insert, M2x3 | | https://www.aliexpress.us/item/3256808035269104.html?spm=a2g0o.order_detail.order_detail_item.3.3145f19c5tAg32&gatewayAdapt=glo2usa | | 4 | |
| Threaded insert, M1.4x1.5 | | https://www.aliexpress.us/item/3256808035269104.html?spm=a2g0o.order_detail.order_detail_item.3.3145f19c5tAg32&gatewayAdapt=glo2usa | | | |