

5.1.3. PCB Part list main PCB

The complete part list for the main PCB is here:

| ID | Name | Designator | Footprint | Quantity | Manufacturer Part | Manufacturer | Supplier | Supplier Part |
|---|-----------------------|------------------------|-------------------------------------|----------|-------------------------------------|-----------------------------------|----------|---------------|
| 1 | 470uF | C1 | CAP-SMD_BD8.0-L8.3-W8.3-RD | 1 | VZH471M1CTR-0810 | LELON | LCSC | C164069 |
| 2 | 100nF | C2,C3 | C0805 | 2 | CC0805KRX7R9BB104 | YAGEO | LCSC | C49678 |
| 3 | 470uF | C4,C5,C6 | CAP-SMD_BD8.0-L8.3-W8.3-RD | 3 | VZH471M1CTR-0810 | LELON | LCSC | C164069 |
| 4 | 100nF | C8 | C0805 | 1 | CC0805KRX7R9BB104 | YAGEO | LCSC | C49678 |
| 5 | 1uF | C7,C11 | C0805 | 2 | CL21B105KBFNNNE | SAMSUNG | LCSC | C28323 |
| 6 | 10nF | C9,C14 | C0805 | 2 | CL21B103KBANNNC | SAMSUNG | LCSC | C1710 |
| 7 | 220nF | C10,C15 | C0805 | 2 | CL21B224KBFNNNE | SAMSUNG | LCSC | C5378 |
| 8 | 100uF | C12,C16 | C1206 | 2 | 1206X107M6R3NT | FH | LCSC | C178304 |
| 9 | 100pf | C13 | C0805 | 1 | CL21C101JBANNNC | SAMSUNG | LCSC | C1790 |
| 10 | 22041021 | CN1 | CONN-TH_22041021 | 1 | 22041021 | MOLEX | LCSC | C185215 |
| 11 | 22041051 | CN2,CN3 | CONN-TH_22041051 | 2 | 22041051 | MOLEX | LCSC | C505160 |
| 12 | 22041031 | CN4,P5 | CONN-TH_3P-P2.54_22041031 | 2 | 22041031 | MOLEX | LCSC | C293437 |
| 13 | Header-Male-2.54_1x8 | CN5 | HDR-TH_8P-P2.54-V-M | 1 | 2105-1*8P L=11.6MMGold-plated black | Ckmtw | LCSC | C124381 |
| 14 | 22041041 | CN6 | CONN-TH_22041041 | 1 | 22041041 | MOLEX | LCSC | C185196 |
| 15 | ES5JB | D1,D2 | SMB_L4.6-W3.6-LS5.3-RD | 2 | ES5JB | Shandong Jingdao Microelectronics | LCSC | C123908 |
| 16 | | P1,P3 | | 2 | WJ500V-5.08-2P-14-00A | ReliaPro | LCSC | C8465 |
| 17 | HDR-IDC-2.54-2X8P | P2 | IDC-TH_16P-P2.54_C3406 | 1 | IDC Box 2.54mm 16P Straight | BOOMELE | LCSC | C3406 |
| 18 | WJ500V-5.08-3P-14-00A | P4 | CONN-TH_3P-P5.00_WJ500V-5.08-3P | 1 | WJ500V-5.08-3P-14-00A | ReliaPro | LCSC | C72334 |
| 19 | 470 | R1,R2 | R0805 | 2 | 0805W8F4700T5E | UniOhm | LCSC | C17710 |
| 20 | 470K | R5 | R0805 | 1 | 0805W8F4703T5E | UniOhm | LCSC | C17709 |
| 21 | 6.8K | R11 | R0805 | 1 | 0805W8F6801T5E | UniOhm | LCSC | C17772 |
| 22 | 10K | R13,R17 | RES-TH_RK09D1130C2P | 2 | RK09D1130C2P | ALPS Electric | LCSC | C361173 |
| 23 | 1K | R15 | R0805 | 1 | 0805W8F1001T5E | UniOhm | LCSC | C17513 |
| 24 | 5.1K | R3,R7,R8,R16,R21 | R0805 | 5 | 0805W8F5101T5E | UniOhm | LCSC | C27834 |
| 25 | 56K | R19 | R0805 | 1 | 0805W8F5602T5E | UniOhm | LCSC | C17756 |
| 26 | 820 | R6,R20 | R0805 | 2 | AC0805FR-07820RL | YAGEO | LCSC | C229015 |
| 27 | 10K | R22,R25 | R0805 | 2 | RNCS0805BKE10K0 | Stackpole Elec | LCSC | C346681 |
| 28 | 10K | R9,R23 | RES-ADJ-TH_3296W | 2 | 3296W-1-103LF | BOURNS | LCSC | C34846 |
| 29 | 27K | R10,R24 | R0805 | 2 | 0805W8F2702T5E | UniOhm | LCSC | C17593 |
| 30 | 100K | R4,R12,R14,R18,R26,R27 | R0805 | 6 | 0805W8F1003T5E | UniOhm | LCSC | C17407 |
| 31 | TC-1102-C-J-B | SW1,SW2 | KEY-TH_4P-L6.0-W6.0-P4.50-LS6.5 | 2 | TC-1102-C-J-B | XKB Enterprise | LCSC | C381016 |
| 32 | 5TR4A 250V | U1 | FUSE-TH_BD8.5-P5.08-D1.0 | 1 | 5TR4A 250V | XC Elec(Shenzhen) | LCSC | C140489 |
| 33 | AMS1084CM-5.0 | U2 | TO-263-3_L8.6-W10.2-P2.54-LS14.4-TL | 1 | AMS1084CM-5.0 | AMS | LCSC | C56105 |
| 34 | ESP32_DevKit_V1_DOIT | U3 | ESP32_DEVKIT_V1_DOIT | 1 | | | | |
| 35 | 5002 | U4,U6 | TEST-TH_BD2.54-P1.39 | 2 | 5002 | Keystone | LCSC | C238123 |
| 36 | LM358N | U5 | PDIP-8_L10.2-W5.9-P2.54-LS7.6-BL | 1 | LM358N | Texas Instruments | LCSC | C83405 |
| 37 | 5001 | U8 | TEST-TH_BD2.54-P1.39 | 1 | 5001 | Keystone | LCSC | C238122 |
| 38 | 5003 | U9,U10 | TEST-TH_BD2.54-P1.39 | 2 | 5003 | Keystone | LCSC | C238124 |
| REMEMBER: MOST COMPONENTS ARE STANDARD COMPONENTS AND CAN BE REPLACED BY OTHER TYPE/ BRAND ETC. USE THIS LIST AS A GUIDE NOT AS AN ABSOLUTE MUST! | | | | | | | | |
| Everything in red is not assembled when you buy the version with Pre-assembled SMD. Pos. 35,37,38,13 are optional. Also you should mount U5 and U3 on a socket! | | | | | | | | |

Short bom