













| Comment | Description | Designator | Footprint | LibRef | Quantity |
|----------------------------|---|--|----------------------------|----------------------------|-----------|
| LSM6DSOXTR | Accelerometer | AC1 | LGA-14_1 | LSM6DSOXTR | ļ |
| 10uF | MLCC Capacitor | C1, C2 | C 1206 | Capacitor | - |
| 100nF | MLCC Capacitor | C3, C8 | C 0603 | Capacitor | |
| 33nF | MLCC Capacitor | C4 | C 0402 | Capacitor | |
| 100nF | MLCC Capacitor | C5, C9, C12, C28, C36, C37, C38, C39, C41, C43, C44, C46, C48, C49, C50, C51, C53, C55, C56, C58, C60, C61, C62, C63, C64, C65, C67, C68, C69, | C 0402 | Capacitor | 3 |
| 40F | MICC Consolter | C70 | C 1204 | Conneitor | |
| 40uF | MLCC Capacitor | C6, C7 | C 1206 | Capacitor | |
| 1uF | MLCC Capacitor | C10, C11, C26, C35, C40, C42, C52, C54 C13, C17, C22, C27, | C 0402 | Capacitor | |
| 0.1uF | MLCC Capacitor | C30, C31, C66 C14, C16, C18, C19, | C 0402 CAPPRD250W50D655 | Capacitor | |
| UVY1V101MED1TD | Capacitor Polarised | C23 | H1250 | UVY1V101MED1TD | |
| 0.1uF | MLCC Capacitor | C15 | C 0603 | Capacitor | |
| 22uF | MLCC Capacitor | C20, C24 | C 0805 | Capacitor | |
| 10uF | MLCC Capacitor | C21, C25 | C 0805 | Capacitor | |
| 10uF | MLCC Capacitor | C29, C32, C33, C34, C45, C47, C57, C59 | C 0402 | Capacitor | |
| 4 PIN | | CON1, CON3, CON6, | BM04B-SRSS-TB | 4 PIN | |
| 1 Pin | | CON15 CON2, CON4, CON7, CON8, CON9, CON10, CON11, CON12, CON13, CON14 | SMD PAD | 1 Pin | 1 |
| 4 PIN | | CON5, CON16, CON17, CON18, CON21, CON22 | Goldpin 2.54 4P | 4 PIN | |
| 5 PIN | | CON19, CON20, | Goldpin 2.54mm | 5 PIN | |
| J F IIV | | CON23, CON24 | 5Pin | J F IIV | |
| LED BLUE | | D1, D2, D3 | LED 0603 BLUE | LED BLUE | |
| LESD5D5.0CT1G | TVS Diode (Bi- directional) | D4, D5, D6, D7, D8, D9, D10 | LESD5D50CT1G | LESD5D5.0CT1G | |
| BMI323 | Integrated Circuit | IC1 | BMI323 | BMI323 | |
| ESP32-S3-WROOM-1- N16R8 | Integrated Circuit | IC2 | ESP32S3WROOM1N1 6R8 | ESP32-S3-WROOM-1- N16R8 | |
| DRV8251DDAR | Integrated Circuit | IC3, IC4, IC5, IC8 | SOIC127P600X170-9N | DRV8251DDAR | |
| TPS62933DRLR | Integrated Circuit | IC6 | SOTFL50P160X60-8N | TPS62933DRLR | |
| BAT760-7 | Integrated Circuit | IC7, IC11, IC12 | SOD2513X120N | BAT760-7 | |
| AMS1117-5 | Integrated Circuit | IC9 | SOT229P700X180-4N | AMS1117-3.3 | |
| AMS1117-3.3 | Integrated Circuit | IC10 | SOT229P700X180-4N | AMS1117-3.3 | |
| HX711 | Integrated Circuit | IC13, IC14, IC15, IC16 | SOIC127P600X160- 16N | HX711 | |
| HDC1080DMBR | Integrated Circuit | IC17 | SON100P300X300X80- 7N-D | HDC1080DMBR | |
| ADS1115IRUGR | Integrated Circuit | IC18 | ADS1115IRUGR | ADS1115IRUGR | |
| INA180A2IDBVR | Integrated Circuit | IC19, IC20, IC21, IC22 | SOT95P280X145-5N | INA180A2IDBVR | |
| 09185066324 | Connector | J1 | 09185066324 | 09185066324 | |
| USB4500-03-0-A | Connector | J2 | USB4500030A | USB4500-03-0-A | |
| 0473461001 | Connector | J3 | 0473461001 | 0473461001 | |
| 4.7uH | General pourpouse inductor | L1 | HPI0630 | Inductor | |
| AON6403 | P-Mosfet 30V 67A | Q1 | DFN 5x6 | AON6403 | |
| | Rds(on) 3.1mR | | | | —— |
| S8550 10k | Transistor BJT PNP General pourpouse | Q4, Q5, Q8, Q9 R1, R2, R3, R5, R7, R8, R16, R17, R18, R21, | SOT95P240X110-3N R 0402 | S8550 | 1 |
| | resistor General pourpouse | R32, R33, R42 | | Resistor | <u> </u> |
| 0 | resistor General pourpouse | R4 | R 0402 | Resistor | |
| 31.3K | resistor General pourpouse | R6 R9, R10, R11, R14, | R 0402 | Resistor | |
| 0.05R | resistor General pourpouse | R43, R44, R45, R46 | R 1206 | Resistor | |
| 2k | resistor General pourpouse | R12 | R 0402 | Resistor | |
| 160 | resistor General pourpouse | R13, R15 | R 0402 | Resistor | |
| 47k | resistor | R19 | R 0402 | Resistor | |
| 13k | General pourpouse resistor | R20 | R 0402 | Resistor | |
| 100R | General pourpouse resistor | R22, R23, R28, R29, R30, R31, R38, R39, R40, R41 | R 0402 | Resistor | 1 |
| 20k | General pourpouse resistor | R24, R25, R34, R35 | R 0402 | Resistor | |
| 8.2k | General pourpouse resistor | R26, R27, R36, R37 | R 0402 | Resistor | |
| | Tactile Switch SPST- | 1 | PTS810SJG250SMTRLF | PTS810SJK250SMTRLF | 1 |