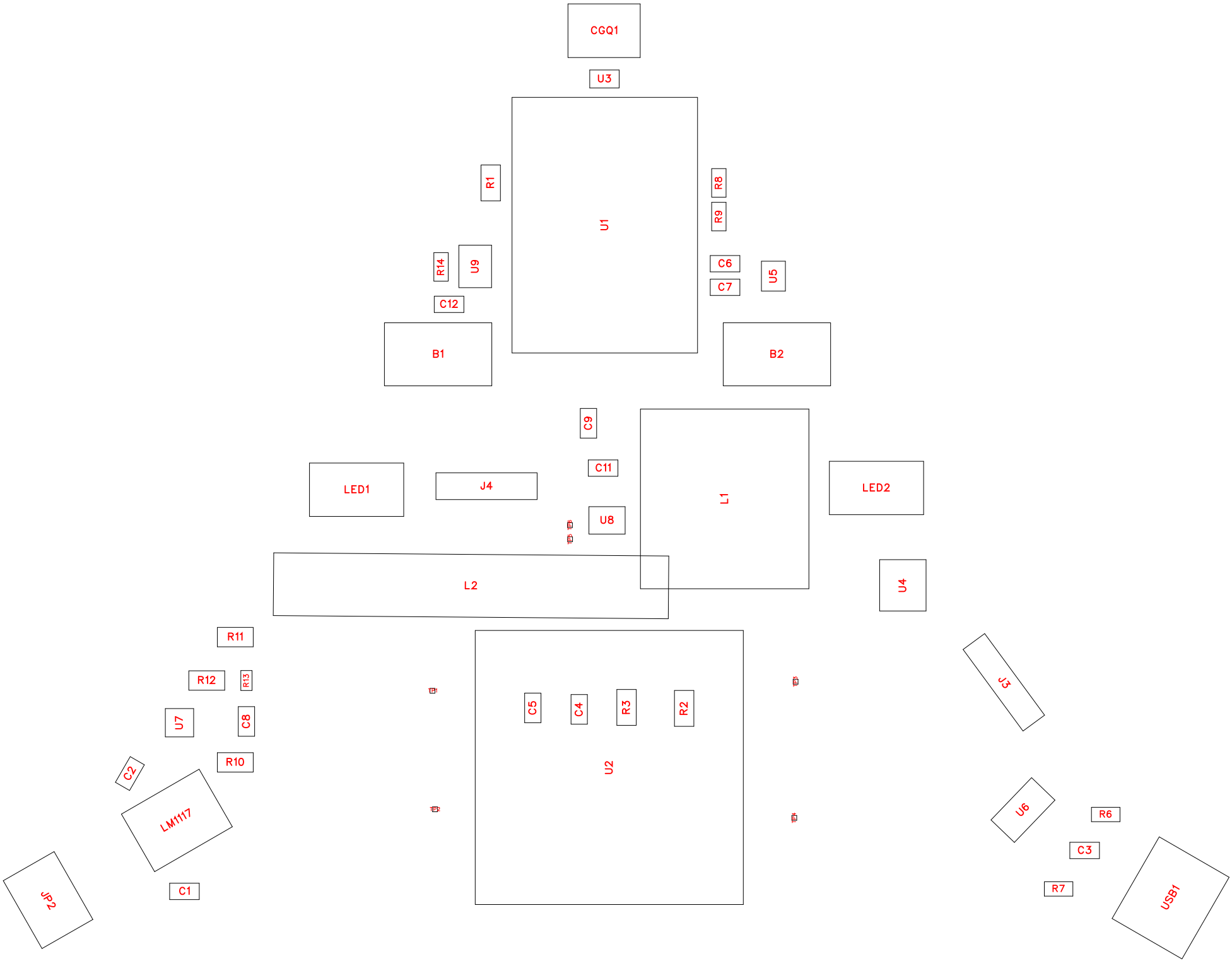
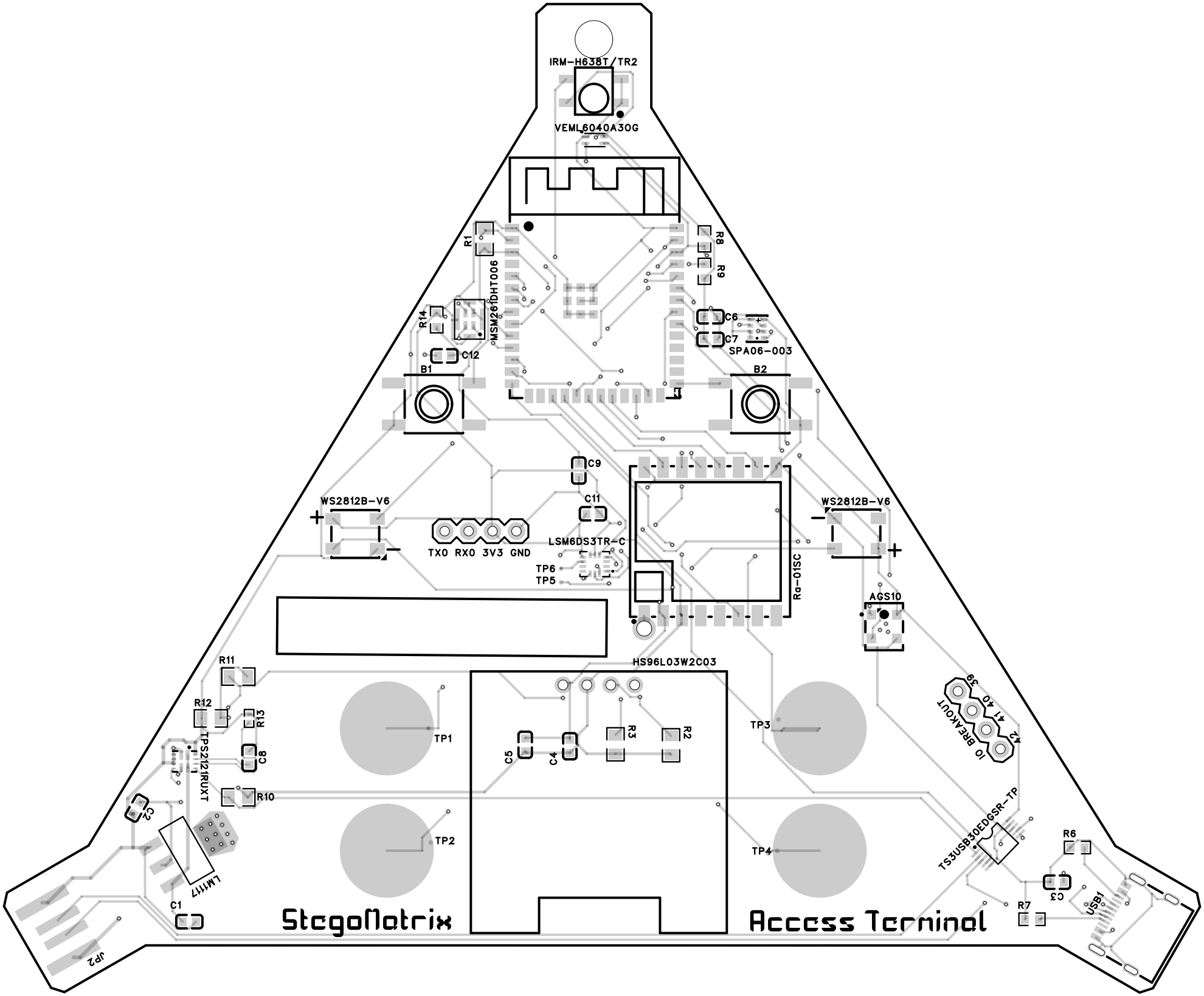

CGQ1
U3
U1
R1
R8
R9
R14
U9
C6
C7
U5
C12
B1
B2
C9
C11
LED1
J4
L1
LED2
U8
L2
U4
R11
R12
R13
U7
C8
R10
C2
LM1117
C1
JP2
C5
C4
R3
R2
U2
J3
U6
R6
C3
R7
USB1

| No. | Quantity | Comment | Designator | Footprint | Value | Manufacturer Part | Manufacturer | Supplier Part | Supplier | Category | LCSC Part Name |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | K2-1157SP-I4SW-01 | B1,B2 | SW-SMD_4P-L6.2-W6.2-P4.50-LS8.6 | | K2-1157SP-I4SW-01 | 韩国韩荣 | C2909692 | LCSC | Switches:Pushbutton Switches | 6.4x6.2x3.7红柄开关 |
| 2 | 4 | 10uF | C1,C2,C5,C12 | C0603 | 10uF | CL10A106KP8NNNC | SAMSUNG(三星) | C19702 | LCSC | Capacitors:Multilayer Ceramic Capacitors MLCC - SMD/SMT | 10uF ±10% 10V |
| 3 | 7 | 100nF | C3,C4,C6,C7,C8,C9,C11 | C0603 | 100nF | CL10B104KA8NNNC | SAMSUNG(三星) | C1590 | LCSC | Capacitors:Multilayer Ceramic Capacitors MLCC - SMD/SMT | 100nF ±10% 25V |
| 4 | 1 | IR Receiver | CGQ1 | SENSOR-SMD_IRM-H638T-TR2-TL | | IR Receiver | EVERLIGHT(亿光) | C91447 | LCSC | Optoelectronics:Infrared Remote Receiver (IRM) | 45°@水平 45°@垂直 |
| 5 | 2 | CONN_04PTH | J3,J4 | 1X04 | | | | | | | |
| 6 | 1 | USB_SOLDER_PADS | JP2 | USB-SOLDER-PADS | | | | | | | |
| 7 | 1 | Ra-01SC | L1 | COMM-SMD_RA-01S | | Ra-01SC | Ai-Thinker(安信可) | C2830749 | LCSC | IoT/Communication Modules:LoRa Modules | 两件套 Ra-01SC |
| 8 | 1 | VG433SNX39-6W3 | L2 | ANT-TH_L39.0-W6.0_VG433SNX39-6W3 | | VG433SNX39-6W3 | Vollgo(沃进) | C718844 | LCSC | RF and Wireless:Antennas | 433MHZ高增益弹簧天线 |
| 9 | 2 | WS2812B-V6 | LED1,LED2 | LED-SMD_4P-L5.0-W5.0-TL-A | | WS2812B-V6 | worldsemi | C52917433 | LCSC | Optoelectronics:LED Indication - Discrete | WS2812B-V6 |
| 10 | 1 | AMS1117-3.3 | LM1117 | SOT-223-3_L6.5-W3.4-P2.30-LS7.0-BR | | AMS1117-3.3 | TDSEMIC(拓电半导体) | C22466222 | LCSC | Power Management (PMIC):Voltage Regulators - Linear, Low Drop Out (LDO) Regulators | 1.0A低压差线性稳压器 |
| 11 | 2 | 10kΩ | R1,R10 | R0805 | 10kΩ | 0805W8F1002T5E | UNI-ROYAL(厚声) | C17414 | LCSC | Resistors:Chip Resistor - Surface Mount | 10kΩ ±1% 125mW 厚膜电阻 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 12 | 2 | 4.7kΩ | R2,R3 | R0805 | 4.7kΩ | RMC08054.7K1%N | Tyohm(幸亚电阻) | C269746 | LCSC | Resistors:Chip Resistor - Surface Mount | 厚膜电阻 4.7kΩ ±1% 125mW |
| 13 | 4 | 5.1kΩ | R6,R7,R8,R9 | R0603 | 5.1kΩ | FRC0603F5101TS | FOJAN(富捷) | C2907044 | LCSC | Resistors:Chip Resistor - Surface Mount | 5.1kΩ ±1% 100mW 厚膜电阻 |
| 14 | 2 | 100kΩ | R11,R12 | R0805_NEW | 100kΩ | RC0805FR-07100KL | YAGEO(国巨) | C96346 | LCSC | Resistors:Chip Resistor - Surface Mount | 厚膜电阻 100kΩ ±1% 125mW |
| 15 | 1 | 80.6kΩ | R13 | R0402 | 80.6kΩ | RC0402FR-0780K6L | YAGEO(国巨) | C155698 | LCSC | Resistors:Chip Resistor - Surface Mount | 厚膜电阻 80.6kΩ ±1% 62.5mW |
| 16 | 1 | 100Ω | R14 | R0603 | 100Ω | FRC0603F1000TS | FOJAN(富捷) | C2906981 | LCSC | Resistors:Chip Resistor - Surface Mount | 100Ω ±1% 100mW 厚膜电阻 |
| 17 | 6 | Test-Point | TP1,TP2,TP3,TP4,TP5,TP6 | Test-Point-0.5mm | | | | | | | |
| 18 | 1 | 2.4GHz | U1 | WIRELM-SMD_ESP32-S3-WROOM-1 | 2.4GHz | ESP32-S3-WROOM-1-N16R8 | ESPRESSIF(乐鑫) | C2913202 | LCSC | IoT/Communication Modules:WiFi Modules | 不带固件 通用型Wi-Fi+低功耗蓝牙MCU模组 |
| 19 | 1 | OLED | U2 | OLED-TH_L27.8-W27.2-P2.54_C9900033791 | | OLED | HS(汉昇) | C5248080 | LCSC | Displays:OLED Display | 0.96寸OLED显示屏窄白光IIC |
| 20 | 1 | Color Sensor | U3 | SENSOR_SMD_VEML6040A3OG | | VEML6040A3OG | VISHAY(威世) | C78465 | LCSC | Sensors:Ambient Light Sensors | VEML6040A3OG |
| 21 | 1 | Gas Sensor | U4 | SENSOR-SMD_AGS10 | | Gas Sensor | 广州奥松 | C3012632 | LCSC | Sensors:Gas Sensors | I2C接口的集成式 VOC 传感器 |
| 22 | 1 | Pressure / Temp | U5 | LGA-8_L2.5-W2.0-P0.65_SPA06-003 | | Pressure / Temp | Goertek(歌尔) | C30589048 | LCSC | Sensors:Pressure Sensors | 数字压力传感器 |
| 23 | 1 | TS3USB30EDGSR-TP | U6 | VSSOP-10_L3.0-W3.0-P0.50-LS4.9-BL | | TS3USB30EDGSR-TP | TECH PUBLIC(台舟) | C49375124 | LCSC | Interface:Analog Switches, Multiplexers | 双2:1 USB2.0复用/解复用器，带DC 30V过压保护 |
| 24 | 1 | TPS2121RUXT | U7 | VQFN-HR-12_L2.5-W2.0-P0.50-BL | | TPS2121RUXT | TI(德州仪器) | C2156025 | LCSC | Power Management (PMIC):Supervisor and Reset ICs | 支持无缝切换的主电源多路复用器 |
| 25 | 1 | LSM6DS3TR-C | U8 | LGA-14_L3.0-W2.5-P0.50-TL | | LSM6DS3TR-C | ST(意法半导体) | C967633 | LCSC | Sensors:Accelerometers | IMU-惯性测量单元 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 26 | 1 | MSM261DHT006 | U9 | LGA-8_L4.0-W3.0-R_WMM7040DT0 | | MSM261DHT006 | MEMS(敏芯微) | C51928215 | LCSC | Audio Products / Vibration Motors:MEMS Microphones | 1.8V -26dB |
| 27 | 1 | GT-USB-7010AO | USB1 | USB-C-SMD_TYPEC-304J-BCP16 | | GT-USB-7010AO | G-Switch(品赞) | C963413 | LCSC | Connectors: USB Connectors | Type-C 母 卧贴 |


IRM-H638T/TR2
VEML6040A3OG
R1
MSM261DHT006
R8
R9
R14
C12
C6
C7
SPA06-003
B1
B2
C9
C11
WS2812B-V6
WS2812B-V6
TX0 RX0 3V3 GND
LSM6DS3TR-C
TP6
TP5
Ra-01SC
AGS10
R11
R12
R13
TPS2121RUXT
C8
R10
C2
LM1117
C1
JP2
HS96L03W2C03
C5
C4
R3
R2
TP1
TP2
TP3
TP4
IO BREAKOUT
42
41
40
39
TS3USB30EDGSR-TP
R6
C3
R7
USB1
StegoMatrix
Access Terminal


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