

List of components (URLs):

[MCP23017-E/SS Microchip Technology | Mouser](#)

[10pcs-50pcs//LOT MCP23017-E/SS MCP23017 IC XPNDR 1.7MHZ I2C SSOP-28 100%New Original - AliExpress 44](#)

[TZT ESP32-S3-Zero Mini Development Board WiFi Bluetooth Ultra-small Size ESP32 C3 S3 ESP 32 - AliExpress 502](#)

[Rotary Encoder Module for Arduino Brick Sensor Development Round Audio Rotating Potentiometer Knob Cap EC11 - AliExpress 502](#)

[0.96 inch oled IIC Serial White OLED Display Module 128X64 I2C SSD1306 12864 LCD Screen Board For Arduino - AliExpress 502](#)

[50PCS Carbon Film Resistors 1/2W 5% 100R 220R 1K 1.5K 2.2K 4.7K 10K 22K 47K 100K 100 220 1K5 2K2 4K7 Ohm New Resistance 1R~1M - AliExpress 502](#)

[30pcs 10uF 16V NHG Series 4x5mm High Quality 16V10uF Aluminum Electrolytic capacitor - AliExpress 502](#)

[100PCS 0603 SMD Chip Multilayer Ceramic Capacitor 0.5pF - 22uF 10pF 22pF 100pF 1nF 10nF 15nF 100nF 0.1uF 1uF 2.2uF 4.7uF 10uF - AliExpress 502](#)

[100pcs 1% 1206 SMD resistor 0R ~ 10M 1/4W 0.1 1 10 100 150 220 330 ohm 1K 2.2K 4.7K 10K 100K 1R 10R 100R 150R 220R 330R 1M - AliExpress 502](#)

[100pcs BSS138 MOSFET N-CH LOGIC SOT23-3 new original - AliExpress 502](#)

[100PCS BC847C SOT23 BC847 847C SOT SMD SOT-23 1G SMD transistor - AliExpress 502](#)

[2.54mm Single Row Straight Female Pin Header 0.1" PCB Socket Board Connector Pinheader 2/3/4/5/6/7/8/9/10/32-40Pin For Arduino - AliExpress 13](#)

[2.54mm Single Row Straight Female Pin Header 0.1" PCB Socket Board Connector Pinheader 2/3/4/5/6/7/8/9/10/32-40Pin For Arduino - AliExpress 13 \(1\)](#)

[5/10/20pcs LM7805 L7805 7805 L7812CV 7812 Voltage Regulator IC ICs 5V 1.5A LDO REG TO-220 - AliExpress 502](#)

[20PC 35V 470uF 10V 1000UF 16V 470UF 25V 330UF 35V 680UF 10V 100UF 25 220UF 47UF 1500UF 10UF 22UF capacitor - AliExpress 502](#)

[10PCS 1X40Pin Breakable Pin Header 2.54mm Single Row Male Header Connector PCB Pin Strip for Arduino Yellow/Green/White/Black – AliExpress](#)

[5PCS 40PIN 2.54mm Single Row Male Connector PCB Board Pin Header Long 15MM 17MM 19MM 21MM 23MM 25MM Strip Pinheader 40P - AliExpress 13](#)