

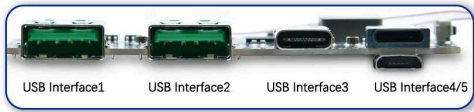
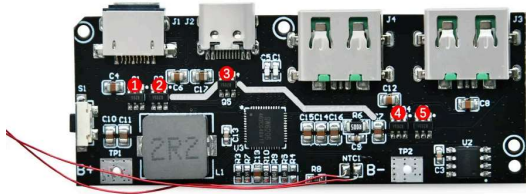


Arduino ; Raspberry pi ; Micro:bit; ESP32; Kidsbits

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5 USB interfaces are protected by MOS tubes, so there is no need to worry about short circuit. Tin-plated bare copper is adopted in wiring for decreasing the mainboard temperature when at a high current.

The main control chip, the protection chip, and the boost inductor will generate a lot of heat when using, so please do not cover them with glue or heat-conducting silicone grease to impact its heat dissipation.



PDF Format

### Keyestudio 22.5W USB Type-C Charging bank 5 Port Bidirectional Fast-charge Mobile Power Circuit Board

MD0534

- 1.Bidirectional Fast-charge Power Bank
- 2.Direct supply from manufacturers
- 3.provide project tutorials

[Have a question?](#)

Price: USD **\$5.00**

Quantity:  (100 available)

Shipping Cost: \$2.00 to United States via China Post Air Mail  
Estimated Delivery Time: 5-20days

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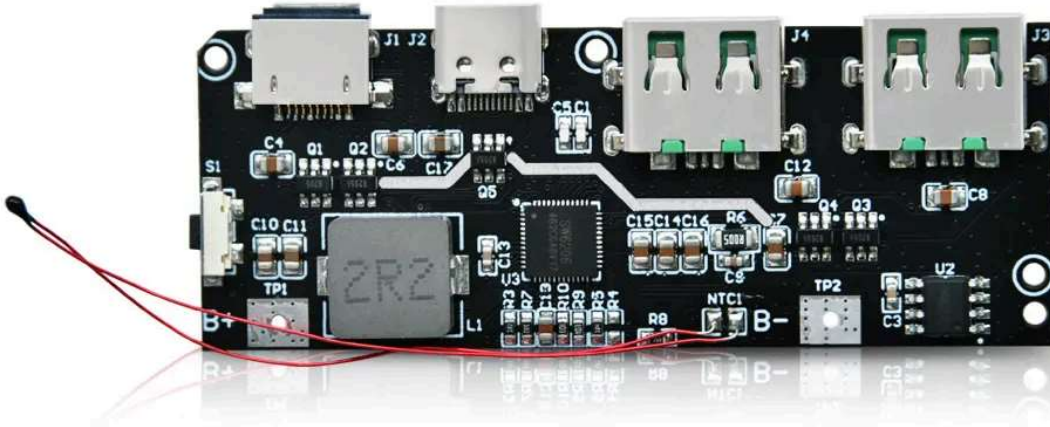
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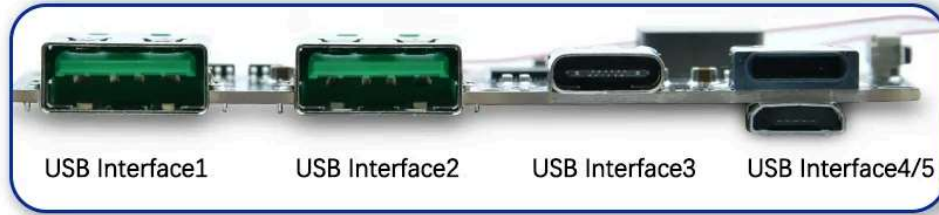
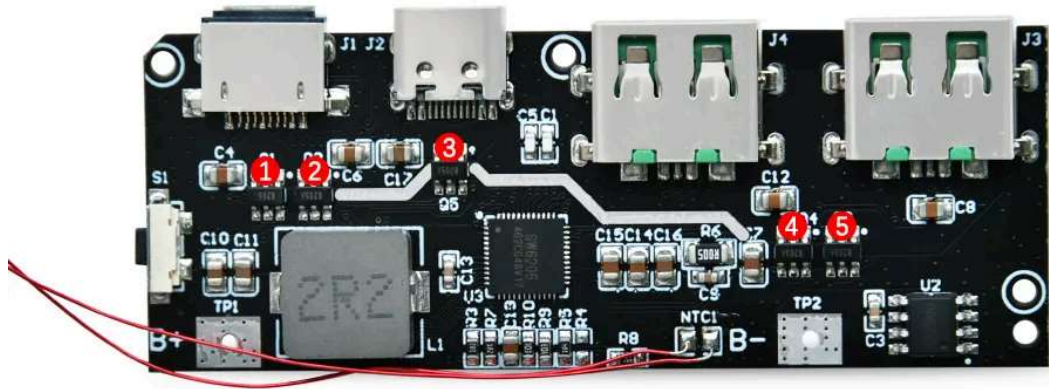
# Bidirectional Fast-charge Power Bank

22.5w Power Bnak, 5 Port Bidirectional Fast-charge, Power Bank Circuit Board



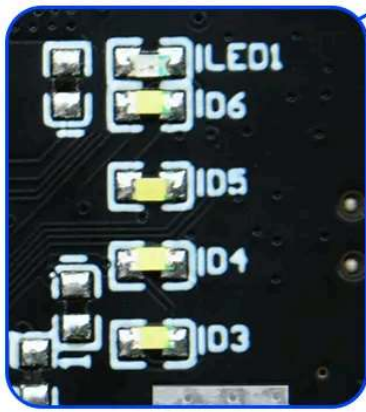
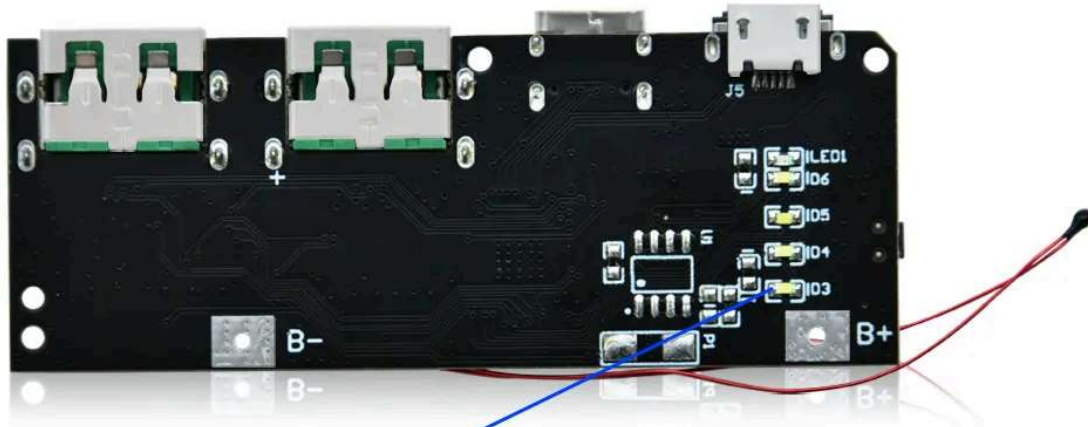
Technical Support

Direct supply from manufacturers, and provide project tutorials



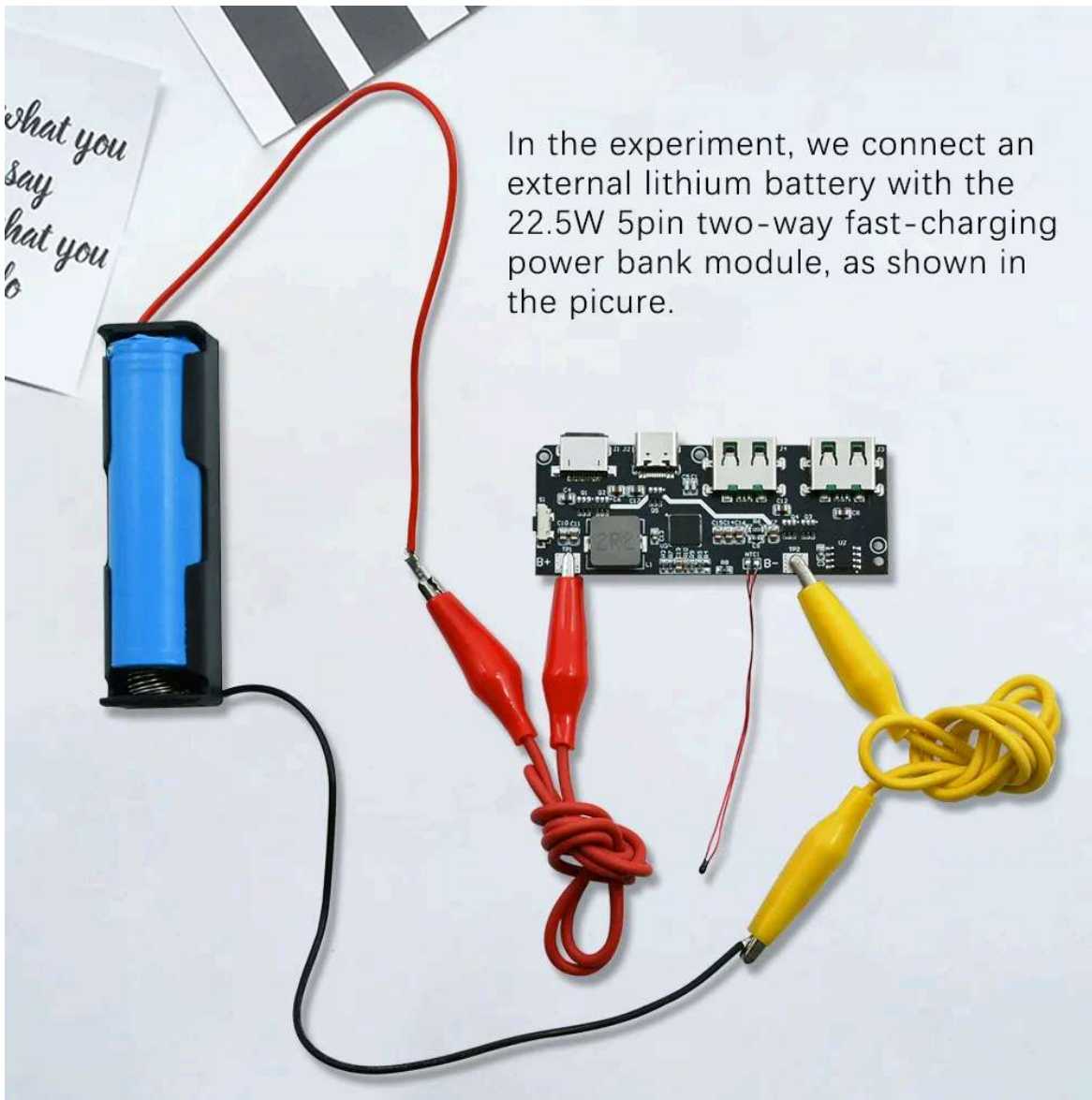
5 USB interfaces are protected by MOS tubes, so there is no need to worry about short circuit. Tin-plated bare copper is adopted in wiring for decreasing the mainboard temperature when at a high current.

The main control chip, the protection chip, and the boost inductor will generate a lot of heat when using, so please do not cover them with glue or heat-conducting silicone grease to impact its heat dissipation.



- **LED1**
- **D6**
- **D5**
- **D4**
- **D3**

NTC1 bonding pad is welded to the battery for the temperature sensor protection. A wire is reserved by default to attach to the surface of battery when assembling. If you do not need it, please directly connect 2 pads for short circuit. D3, D4, D5 and D6 are LED for electricity, and LED1 is a fast-charge indicator.



## Battery power display in LED discharge state

Capacity	LED1	LED2	LED3	LED4
75~100%	On	On	On	On
50~75%	On	On	On	Off
25~50%	On	On	Off	Off
5~25%	On	Off	Off	Off
1~5%	Flicker	Off	Off	Off
0%	Off	Off	Off	Off

## Battery power display in LED charge state

Capacity	LED1	LED2	LED3	LED4
100%	On	On	On	On
75%~99%	On	On	On	Flicker
50~70%	On	On	Flicker	Off
25~50%	On	Flicker	Off	Off
0~25%	Flicker	Off	Off	Off

## Switch Charging

Support 4.2/4.35/4.4/4.5V battery

Current up to 5A, efficiency up to 95%

Support temperature ring control

Support JEITA Specification

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## Synchronous Boost

Output power up to 22.5w, efficiency up to 95%

Automatic overload/underload detection

Support low current

Support wireless charging

---

## Output Fast-charge Protocol

Support QC4+/QC4/QC3.0/QC2.0

Support PPS/PD3.0/PD2.0

Support PE2.0/PE1.1

Support VOOC

Support SCP

Support AFC

Support FCP

Support SFCP

---

## Input Fast-charge Protocol

Support PD3.0/PD2.0

Support FCP

Support SCP

Support PE1.1

Support FCP

## Type-C Interface

Built-in USB Type-C interface logic    Support Try.SRC

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## BC1.2 Module

Support BC1.2 DCP mode                      Support Apple/Samsung

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## Lighting Decoding

Built-in Lighting decoding function

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## Electricity Measurement and Display

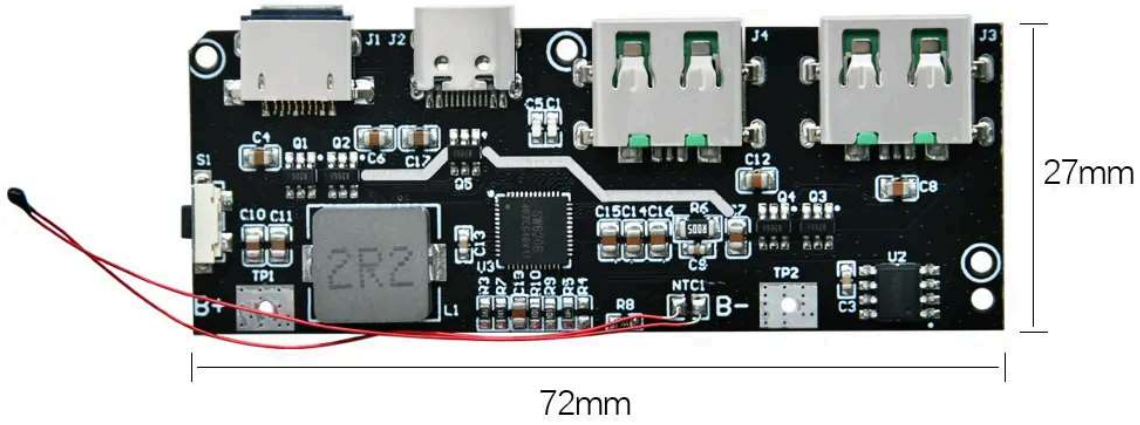
Built-in coulombmeter for accurate measurement  
Built-in 12bit ADC

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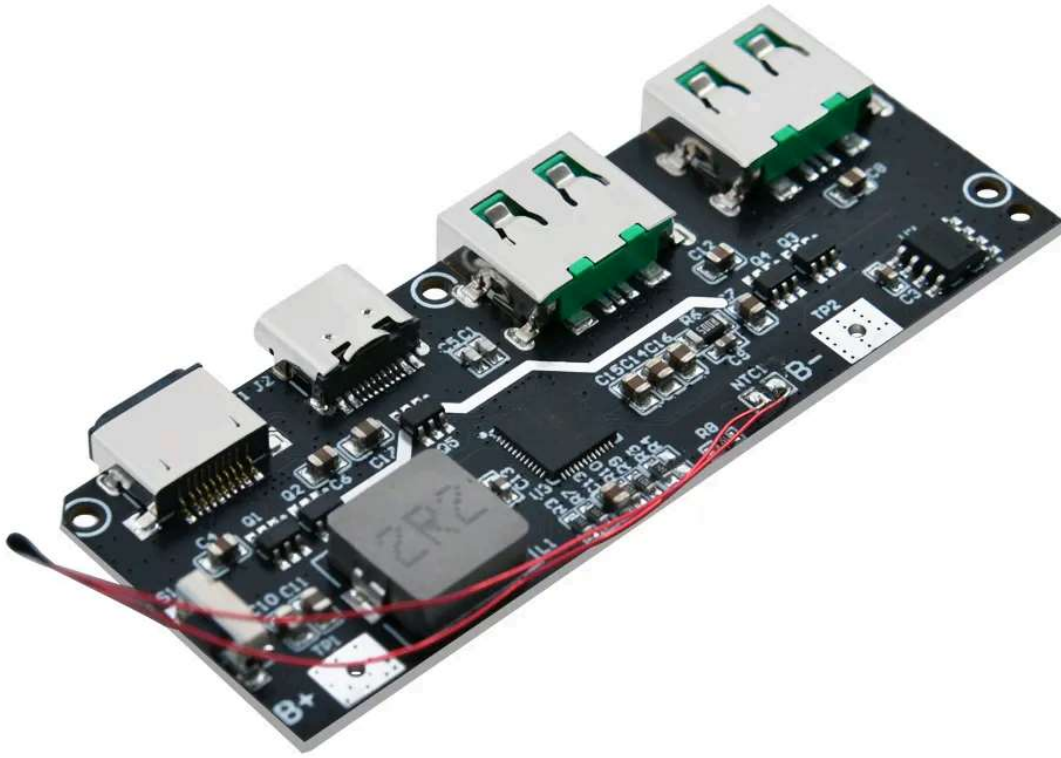
## Protection Mechanism

Output overcurrent/short circuit protection  
Timeout-charging/overvoltage protection  
Temperature protection    Output overvoltage protection





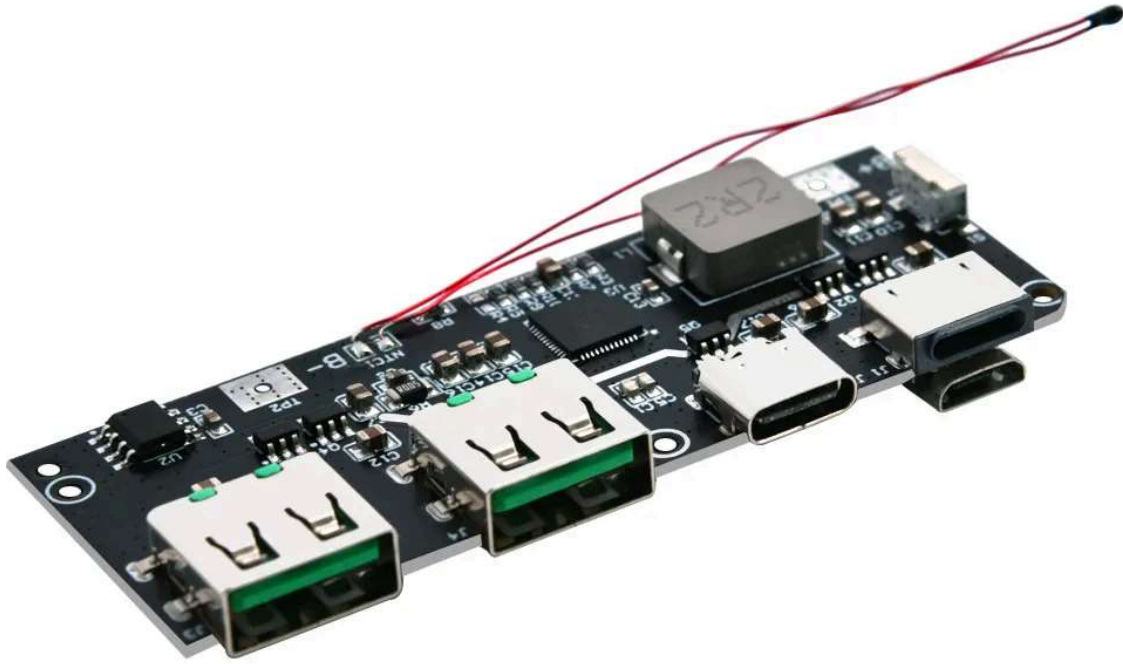
Size: 72\*27\*5mm  
Weight: 10.6g



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Keystudio HM-10 Bluetooth-4.0 V3 Module  
Compatible with HC-06 Pins/supports  
\$9.00



Keystudio IR Receiver Module Kit(receiver  
module+remote controller+3Pin F-M dupont  
\$5.00



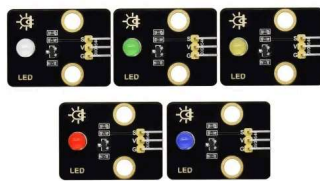
Keystudio HC- 05 Bluetooth Transmission  
Module for Arduino Bottom Master slave  
\$8.31



Keystudio Single 5V Relay Module  
Compatible with Arduino UNO R3 MEGA  
\$4.00



**KEYES electronic building block  
multicolor LED module**  
Optional with(out) shell



-For Arduino -Technical support -Project tutorials

**Radar Sensor Module**  
Micro PIR Motion Sensor Detector Module

Rd-01 Radar+Wi-Fi+BLE Module    Rd-04 10G Radar Module

Rd-03 24G Radar Module

- Radar supports 24GHz DM band
- Provide visual debugging and configuration tools
- Adjust parameters intelligently via Bluetooth
- Real-time transmission of test results via Wi-Fi & BLE



DIY-2 kit (free gifts included)

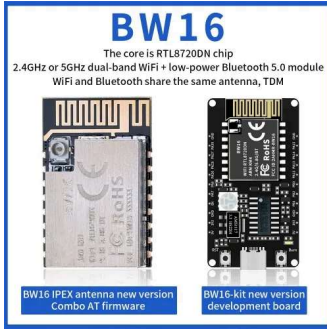
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Keystudio HM-10 Bluetooth-4.0 V2 module  
For arduino  
\$9.10

Keystudio Electronic Building Block  
Multicolor LED Module For  
\$4.70

Keystudio Micro PIR Motion Sensor Rd-01  
Radar+Wi-Fi+BLE Module With Socket +2.4G  
\$5.80

Atomizer Sheet ZJ-01 Holder Type C&USB  
Atomizer Drive Circuit And Double Spray  
\$3.00



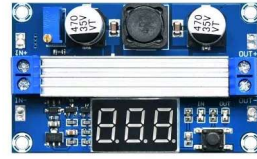
Keystudio BW16-kit New Version  
Development Board/BW16 IPEX Antenna  
\$8.50

### W5500 Ethernet Network Module

Compatible with WIZ820IO network interface  
SPI interface/Ethernet TCP/IP protocol



Keystudio W5500 Ethernet Network Module  
Compatible With WIZ820IO Network  
\$7.40



Keystudio DC-DC Booster Module With  
Digital Tube Display  
\$7.90



TYPE-C Voltage/Current Tester Real-Time  
Monitoring Support 120W Ultra-fast  
\$8.60

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