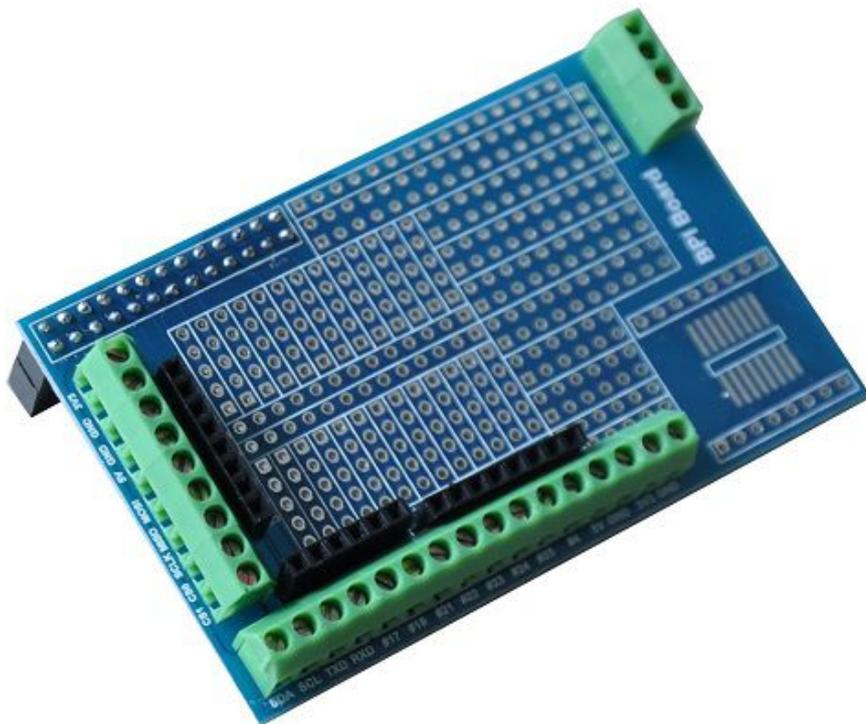




## Prototype Development





## Contact Us

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## Hardware Manual

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### **More information:**

Get more product and support; please contact Shenzhen SINOVOIP CO., LIMITED ([www.banana-pi.com](http://www.banana-pi.com))

### **Attention:**

Due to technical requirements of components, please do not touch directly connected

components. The core board and development system contain static-sensitive devices. Quiet electrical charges easily accumulate in the human body, and the device cannot detect possible damage to equipment; it is recommended to take anti-static measures. It is recommended not to touch, store, or use anti-static effect devices.



### **Banana Pi Expand Module Serial:**

[www.banana-pi.com](http://www.banana-pi.com)

[Prototype Development Module Datasheet](#)



### **Infinity cascade IO expand module:**

This module is designed specifically for the Banana Pi IO expansion modules. The module expand 32 IO, Multiple modules can cascade, infinity cascade, infinity GPIO.

### **I2C GPIO expand module:**

This module is designed specifically for the Banana Pi IO expansion modules. The Module use I2C bus to connect to Banana Pi. The module expand 8 Bidirectional GPIO and wit isolation protection function which can effectively excessive external voltage. There are 8 I2C address, you can choose one of them through setup the jumper. Multiple modules can cascade and maximum cascade 8 modules!

### **Prototype development module:**

The Prototype development module is designed specifically for the Banana Pi. The module suitable enthusiasts and user can weld peripheral to the module; The module expand some amphenol connector and some SMT, so the user can finish prototype test easily.

### **Berryclip expand module:**

The BerryClip module is designed specifically for learning how to use the GPIO of Banana Pi. There are 6 multiple color LED, 1 button and 1 Buzzer on the module.

### **Berryclip(DIY) expand module:**

The module is not the end product, you need weld them by yourself. The function of the module is the same as BerryClip module.

### **UNO compatibility module:**

The module makes Banana Pi compatible with Arduino Uno and many Arduino Shields. The module's GPIO is the same as Arduino Uno and you can choose the voltage of GPIO between 5V or 3V through setup jumper.

### **T Electric level convert module:**

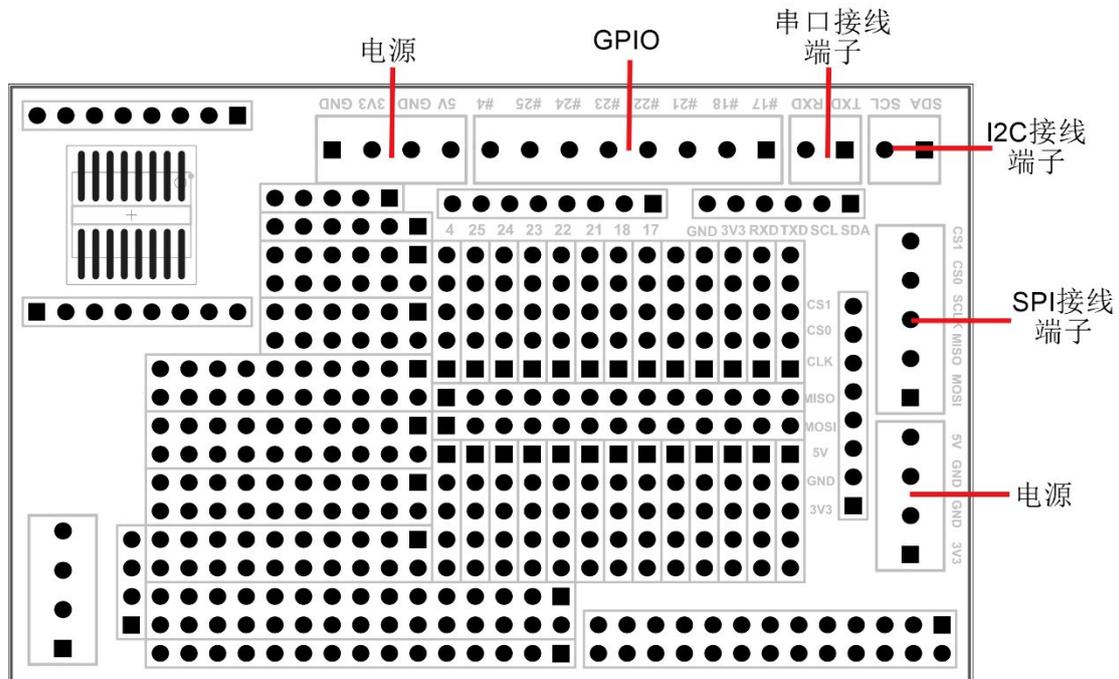
The module expand the GPIO of Banana Pi to breadboard. It convert 3.3V electric to 5V electric level, then the Banana Pi can connect many 5V electric level peripheral.

### **IO extraction module:**

The module expand all of GPIO of Banana Pi to breadboard.



## Product Specification:



## Produce Overview:

The Prototype development module is designed specifically for the Banana Pi. The module suitable enthusiasts and user can weld peripheral to the module; The module expand some amphenol connector and some SMT, so the user can finish prototype test easily.

## Product Feature:

- Expand common GPIO through amphenol connector
- Expand common GPIO through Female Header Connector
- Set aside a large amount of welding hole

## Port:

- I2C amphenol connector
- Female Header Connector



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- SPI amphenol connector
- SPI Female Header Connector
- Serial port amphenol connector
- Serial port Female Header Connector
- 3.3V Vcc
- 5V Vcc

### Product Parameters:

- 3.5mm Amphenol Connector
- 2.54mm Female Header Connector

### Typical Application:

- Hardware weld primer
- Prototype experiment
- DIY enthusiasts

### How to use:

Insert the Prototype development module to Banana Pi, Pay attention don't make the direction reversed! The correct direction of insert module is above the Banana Pi's PCB.