



BerryClip Module:





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Attention:

Due to technical requirements components, please do not hand directly connected

Touch. Core board and development system contains static-sensitive devices. Quiet Electrical charge easily accumulate in the human body and the device can not detect possible Damage to equipment, it is recommended to take anti-static measures, it is recommended not to hand. Touch, stored in anti-static effect devices.





Banana Pi Expand Module Serial:

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:

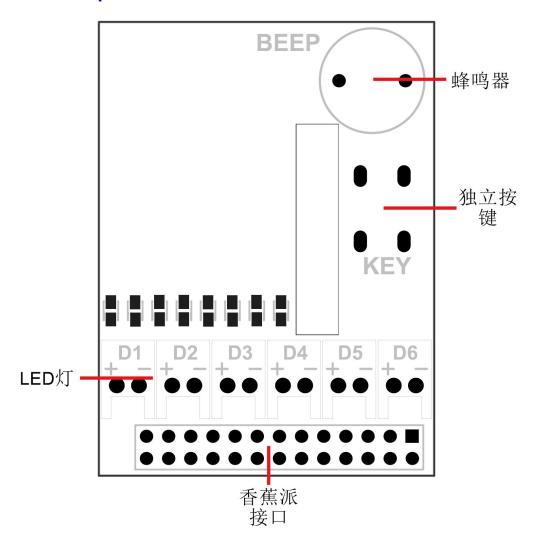
The module expand the GPIO of Banana Pi to breadboard. It convert 3.3V electric to 5V electric level, then the Banana Pi can connect many 5V electric level peripheral.

IO extraction module:

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



Product specification



Product Overview:

The module is designed specifically for learning control the GPIO of Banana Pi. There are 6 LED, 1 button and 1 Beep on the module; All of them can use the GPIO of Banana Pi to control. The beginner can learn the INPUT mode of GPIO through the key and learn the OUTPUT mode through the LED or Beep



Product Feature:

- 6 multicolor LFD
- 1 single button on board
- 1 Beep on board

Port:

BananaPi 2X13 port

Product Parameters:

- Working voltage: 3.3V
- LED max current allow 8mA
- Beep max current allow 12mA

Typical Application:

- Hardware beginner learning
- Education

How to use:

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

Testbench:

- Setup the GPIO OUTPUT, Output LED High level, the LED will be lighten;
- Setup the GPIO INPUT, press the button;
- Test finish

Example and Test Code:

```
#include <wiringPi.h>
#include <pcf8574.h>

int LED1[]={7,0,3,12,13,14};
int i;

int initIO()
{
    pinMode(7,OUTPUT);
```





```
pinMode(0,OUTPUT);
   pinMode(3,OUTPUT);
   pinMode(12,OUTPUT);
   pinMode(13,OUTPUT);
   pinMode(14),OUTPUT);
}
int LED()
{
   for (i=0;i<=6;i++)</pre>
       digitalWrite(LED1[i],1);
       delay(500);
       digitalWrite(LED1[i],0);
       delay(500);
   }
}
int main()
   int val;
   wiringPiSetup();
   pcf8574Setup(200,0x27);
   initIO();
   pinMode(10,INPUT);
   digitalWrite(11,1);
   while (1)
       blink();
       val=digitalRead(10);
       if(val==0)
       {
          LED();
          digitalWrite(11,1);
          i=0;
       }
       else
       blink();
   }
```

}

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