



4 PI_Dot_matrix module

1 Project process

```
pi@raspberrypi: ~/keyes_树莓派高级版套件资料/PI Dot matrix module/program/Dot_test
pi@raspberrypi ~ $ ls
bcm2835-1.45      Desktop      ocr_pi.png    python_games  zzi
bcm2835-1.45.tar.gz  keyes_树莓派高级版套件资料  PI Dot matrix module  wiringPi
pi@raspberrypi ~ $ cd keyes_树莓派高级版套件资料/
pi@raspberrypi ~/keyes_树莓派高级版套件资料 $ ls
MQ-5  PI Dot matrix module  water_senor
pi@raspberrypi ~/keyes_树莓派高级版套件资料 $ cd PI\ Dot\ matrix\ module/
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module $ ls
program  原理图  文档
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module $ cd program/
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module/program $ ls
Dot_test
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module/program $ cd Dot_test/
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module/program/Dot_test $ ls
Dot_test.c  Dot_test.o  Makefile
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module/program/Dot_test $ make
gcc Dot_test.c -o Dot_test -lbcm2835
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module/program/Dot_test $ ls
Dot_test  Dot_test.c  Dot_test.o  Makefile
pi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module/program/Dot_test $ sudo ./Dot_test
^Cpi@raspberrypi ~/keyes_树莓派高级版套件资料/PI Dot matrix module/program/Dot_test $
```

2 Project source code

```
pi@raspberrypi: ~/keyes_...PI Dot matrix module/program/Dot_test
// blink.c
//
// Example program for bcm2835 library
// Blinks a pin on an off every 0.5 secs
//
// After installing bcm2835, you can build this
// with something like:
// make or gcc -o led led.c -lbcm2835
// sudo ./led
/*
    define from bcm2835.h
        3.3V | | 5V ->
RPI_V2_GPIO_P1_03 | | 5V ->
RPI_V2_GPIO_P1_05 | | GND ->
    RPI_GPIO_P1_07 | | RPI_GPIO_P1_08 ->
        GND | | RPI_GPIO_P1_10 ->
    RPI_GPIO_P1_11 | | RPI_GPIO_P1_12 ->
RPI_V2_GPIO_P1_13 | | GND ->
    RPI_GPIO_P1_15 | | RPI_GPIO_P1_16 ->
        VCC | | RPI_GPIO_P1_18 ->
    RPI_GPIO_P1_19 | | GND ->
    RPI_GPIO_P1_21 | | RPI_GPIO_P1_22 ->
    RPI_GPIO_P1_23 | | RPI_GPIO_P1_24 ->
        GND | | RPI_GPIO_P1_26 ->

    define from Board DVK511
        3.3V | | 5V
        SDA | | 5V
        SCL | | GND
        IO7 | | TX
        GND | | RX
        IO0 | | IO1
        IO2 | | GND
        IO3 | | IO4
        VCC | | IO5
        MOSI | | GND
        MISO | | IO6
        SCK | | CE0
        GND | | CE1

::if your raspberry Pi is version 1 or rev 1 or rev A
RPI_V2_GPIO_P1_03->RPI_GPIO_P1_03
RPI_V2_GPIO_P1_05->RPI_GPIO_P1_05
RPI_V2_GPIO_P1_13->RPI_GPIO_P1_13:

1,1
```

3 Project result & circuit connection

