

BananaPi uses DVK-511

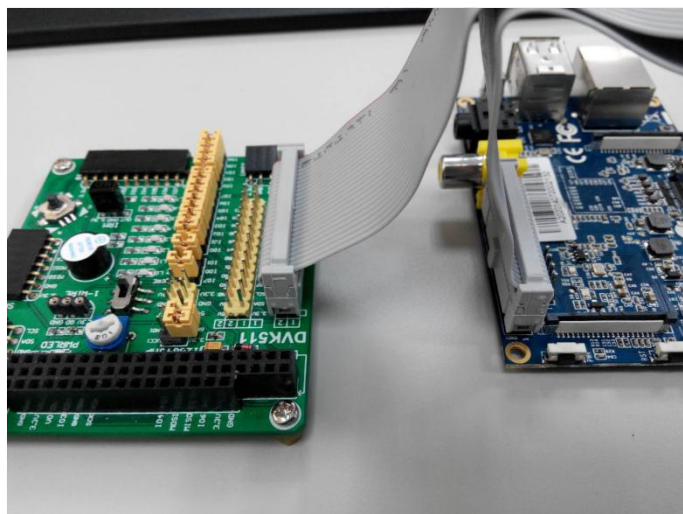
LED

By Justin Chen

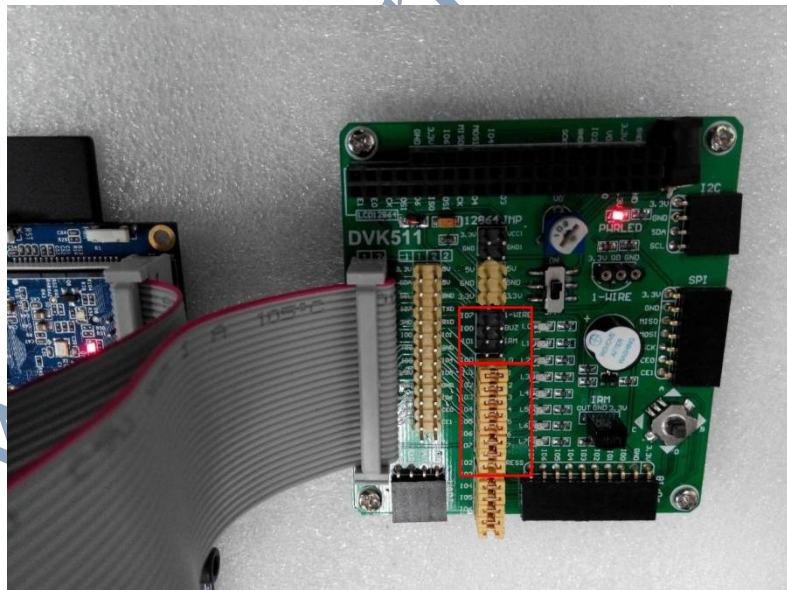
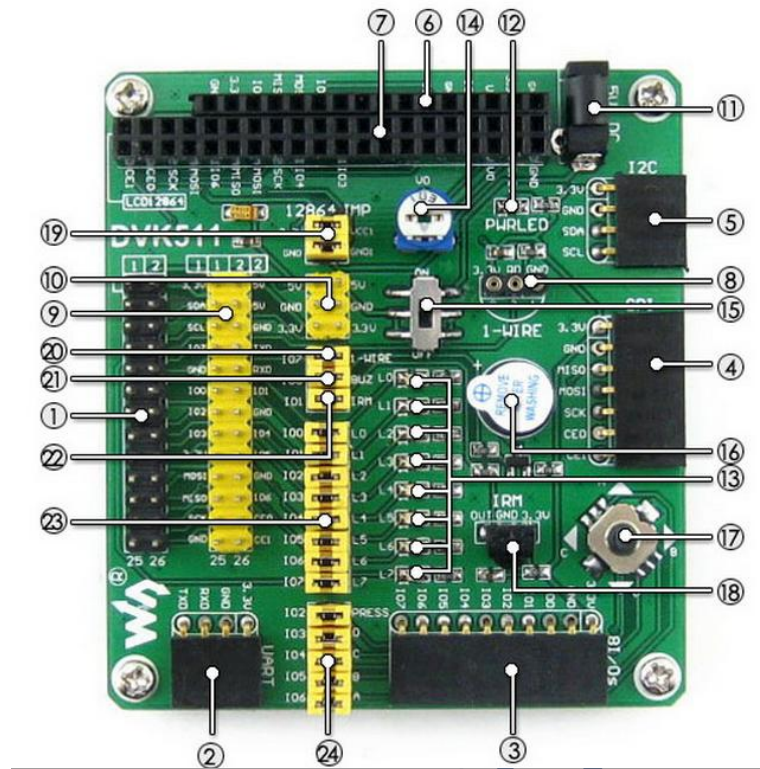
1. First go to website <http://www.bananapi.com/> download BananaPi customized Raspbian Image; about how to burn the image into SD
<http://www.bananapi.com/index.php/download?layout=edit&id=42>.
2. The Image burn in SD card has preload the customized WiringPi Lib before, if download WiringPi Lib by yourself, you will need to modify it, otherwise it can't use; WiringPi Lib can find in /opt/gpio-lib.

```
pi@bananapi: /opt/gpio-lib
File Edit Tabs Help
pi@bananapi /opt/gpio-lib $ ls
RPI.GPIO-0.5.5 ScratchGPIO5 WiringBPi_Beta_V2.0
```

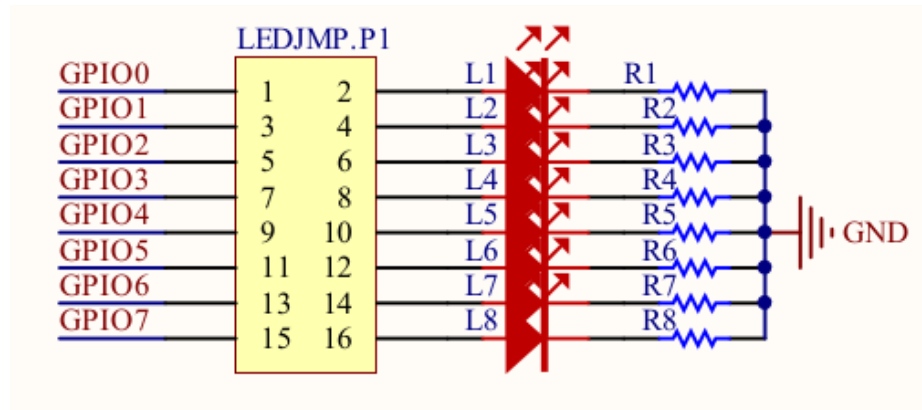
3. Banana Pi connect Adapter plate DVK511, as below picture showed.



4. The thirteen socket of DVK511 is LED interface.
The twenty-three socket is User LED jumper, it's no need to remove when testing.
The twenty, twenty-first, twenty-two sockets need remove when testing, otherwise those will affect the testing results.

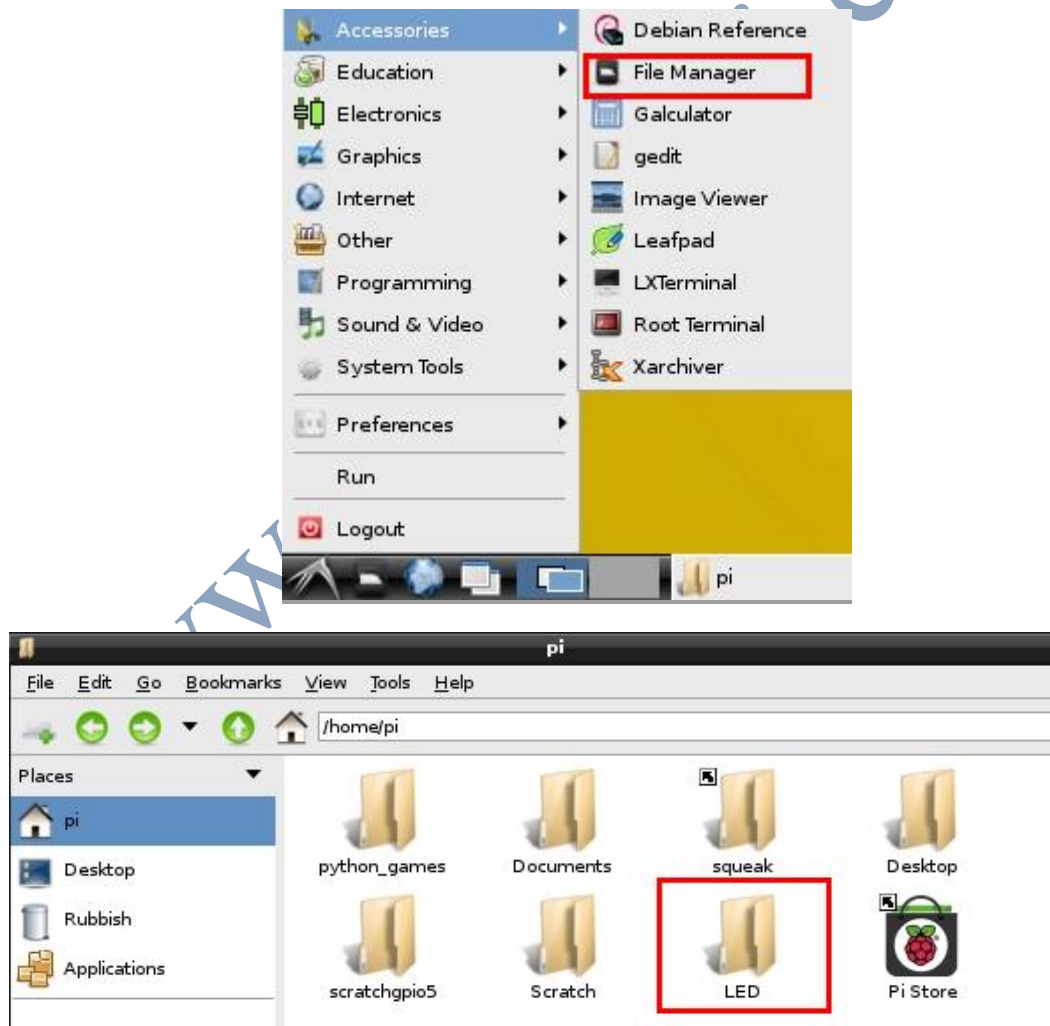


5. Check LED interface's corresponding table to get know each PIN's corresponding.

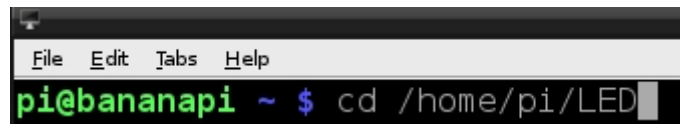


Above picture showed LED interface PIN's corresponding table

- Using LED sample code to verify the functions, then open File Manager software put the LED folder copy to the home contents, like below picture showed.



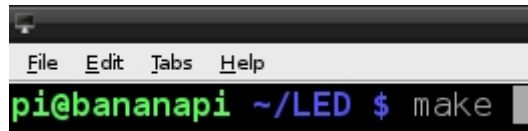
Change to the relative LED folder



```
pi@bananapi ~ $ cd /home/pi/LED
```

A terminal window with a menu bar (File, Edit, Tabs, Help) and a command prompt showing the user 'pi' at 'bananapi' in the home directory, executing 'cd /home/pi/LED'.

Execute translate and edit order



```
pi@bananapi ~/LED $ make
```

A terminal window with a menu bar (File, Edit, Tabs, Help) and a command prompt showing the user 'pi' at 'bananapi' in the directory '~/LED', executing 'make'.

Execute order and open LED



```
pi@bananapi ~/LED $ sudo ./led
```

A terminal window with a menu bar (File, Edit, Tabs, Help) and a command prompt showing the user 'pi' at 'bananapi' in the directory '~/LED', executing 'sudo ./led'.

7. Finally, check DVK-511 mainboard LED L0-L7 is light or not.