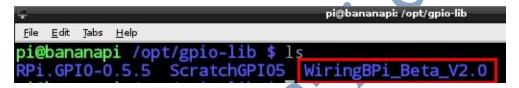
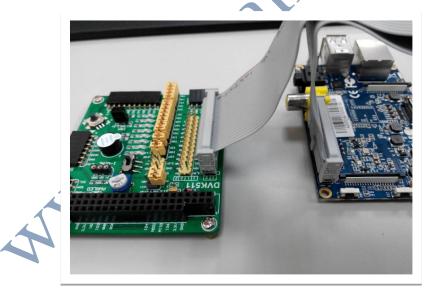
BananaPi uses DVK-511 AT45DB

By Justin Chen

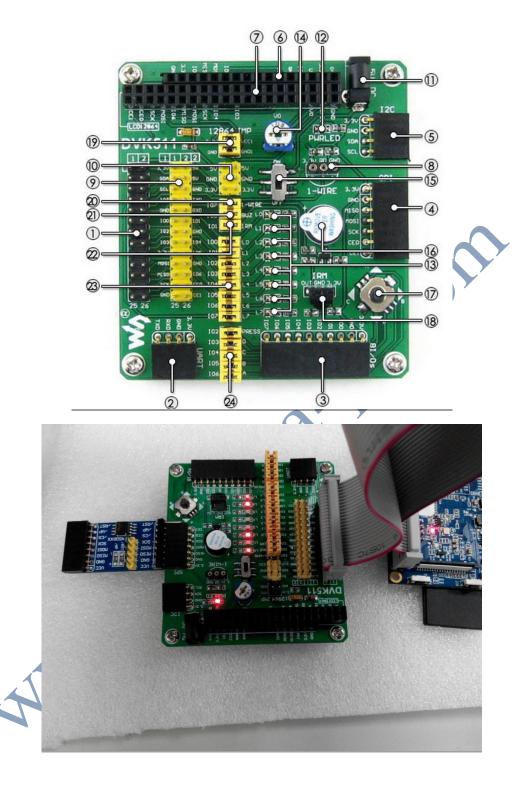
- 1. First go to the website http://www.bananapi.com/ download BananaPi customized Raspbian Image; about how to burn the image into SD card http://www.bananapi.com/index.php/download?layout=edit&id=42)
- 2. The Image burn in SD card has preload the customized WiringPi Lib before, if download WiringPi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



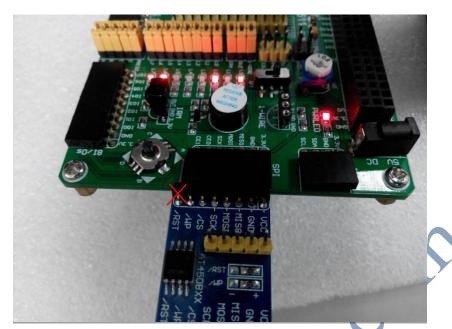
3. Connect the DVK511 to the BananaPi.



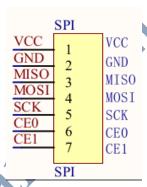
4. The fourth jack on is SPI Interface, you can plug AT45DB device inside this interface.



5. AT45DB device's RST pin no need connect with DVK-511.



6. Check AT45DB picture to know about each pin's correspond.



AT45DB PIN picture

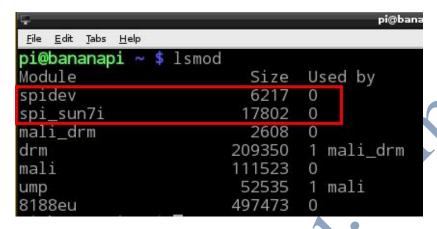
 Start LXTerminal software, first check whether there are mounted SPI modules, run Ismod command to see the current system mounted modules.

```
pi@bananapi:
    <u>E</u>dit
        Tabs
             <u>H</u>elp
pi@bananapi ~ $ lsmod
                                       Used by
Module
                               Size
mali_drm
                               2608
                                       0
                             209350
                                       1 mali_drm
drm
mali
                                       0
                                       1 mali
ump
                              52535
8188eu
                            497473
                                       0
```

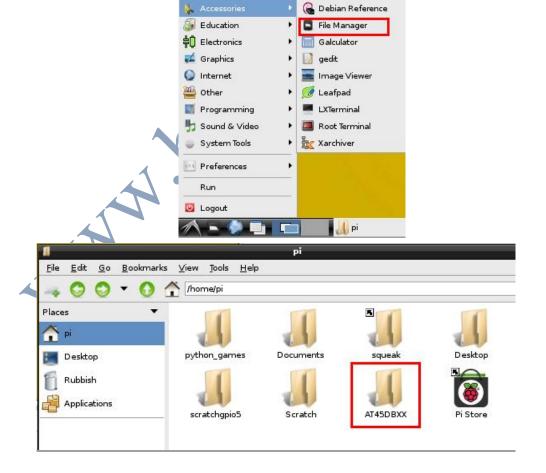
We can know from the above chart that currently no mount the SPI module, use modpobe spi-sun7i comment to mount the module.



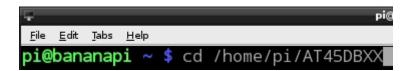
After finish it, then use Ismod command to see the current system mounted modules.



8. Use AT45DB sample code to verify its functionality, open File Manager software to copy the folder to AT45DBXX home directory.



Then open LXTerminal switch to AT45DBXX folder directory.



Compile AT45DB sample code; make instruction execution.



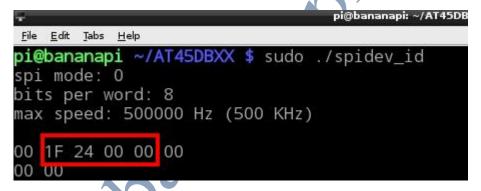
Executive command and start AT45DB

```
pi@bananapi: ~/A

<u>File Edit Tabs Help</u>

pi@bananapi ~/AT45DBXX $ sudo ./spidev_id
```

9. Check the read ID.



ID is: 0x1F 0x24 0x00 0x00

10. If can't display the ID properly, please re-plug Device; and re-execute start the command.