

Raspberry Pi Serial console cable

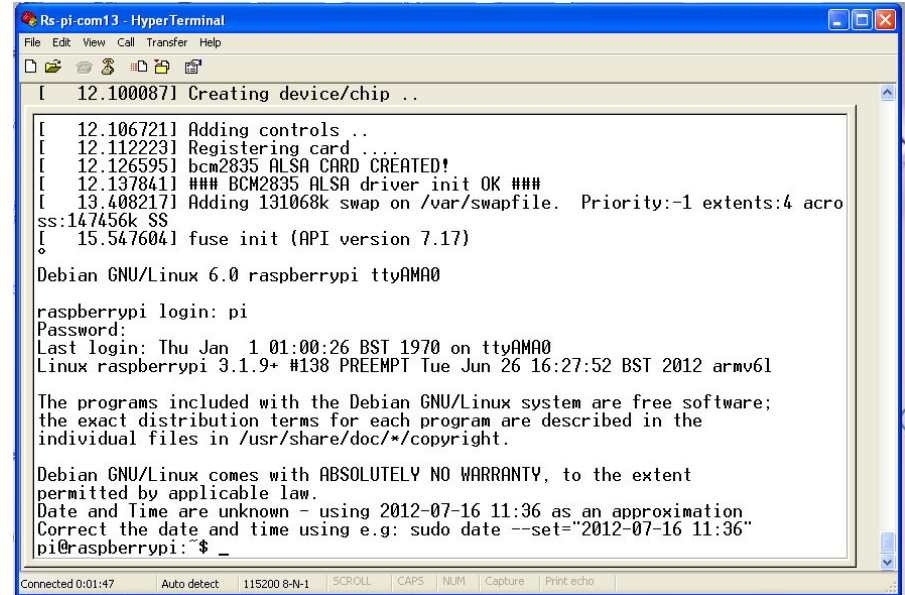
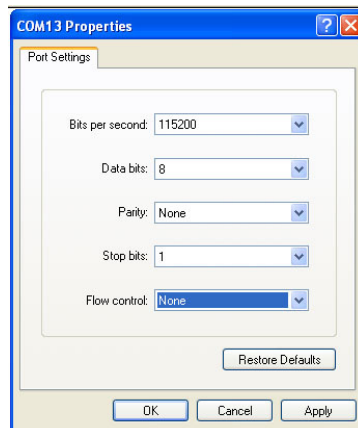
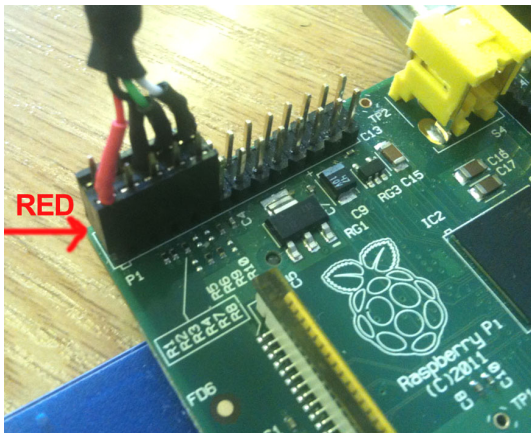
1. Turn off the DC power from Rs-pi
2. The Red wire plug-in to P1
3. Connect the DB9 to your serial port
4. Run the Hyper terminal program from PC, and do the basic setting as follow

The necessary settings are:

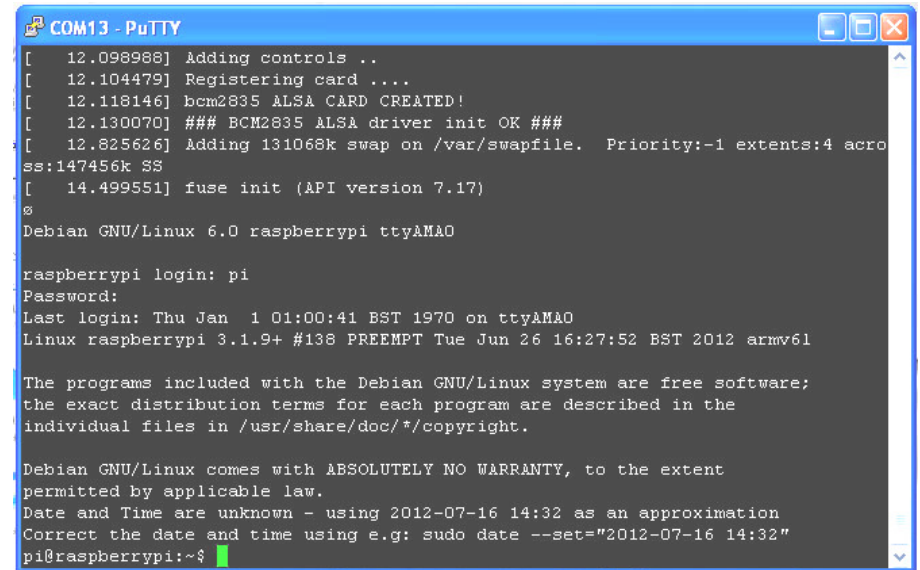
- **Speed: 115200 baud**
 - **Data bits: 8 Stop bits: 1**
 - **Parity: None**
 - **Flow control: None**
5. Turn on the power of your Rs Pi
 6. You will see the Pi boot procedure from the screen.



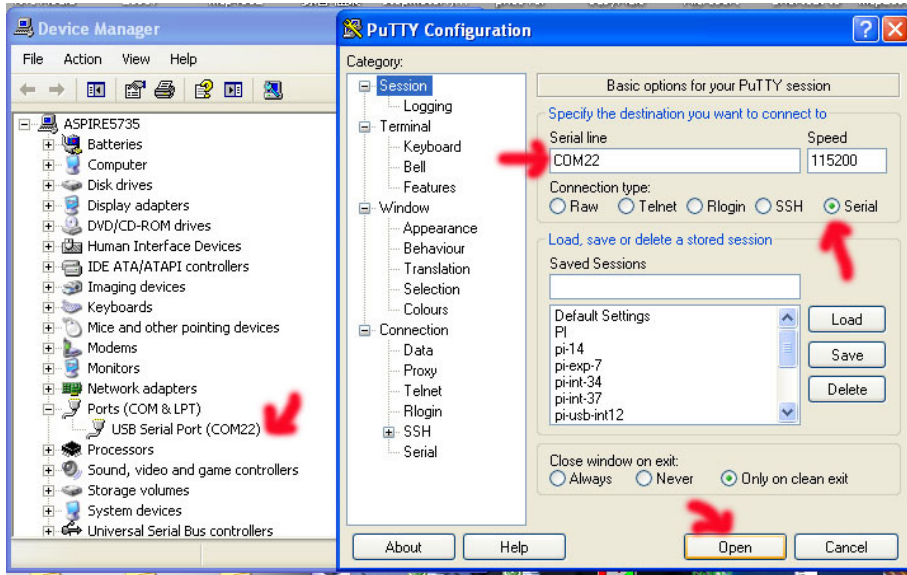
3 LED for indicate the states of the cable
DC 3.3V (Red) , Tx (Green) , Rx (Yellow)



In HyperTerminal



In PuTTY



Setting in Putty

Raspberry Pi Serial Port Usage

The serial port on the Raspberry Pi is configured as default for console input/output. This allows you to login and interact with the Raspberry Pi via the serial port but you cannot use the serial port with your programs.

To use the serial port with other programs and hardware such as modems, arduino boards etc you need to disable the console login.

To Disable Serial Port Login

You need to edit two files in order to use the serial port with your own programs.

When the Raspberry Pi boots, the bootup information is sent to the serial port. You can disable this by editing the **/boot/cmdline.txt** file

The contents of the file look like this

```
dwc_otg.lpm_enable=0 console=ttyAMA0,115200
kgdboc=ttyAMA0,115200 console=tty1 root=/dev/mmcblk0p2
rootfstype=ext4 elevator=deadline rootwait
```

Remove all references to ttyAMA0 so the file looks like this:

```
dwc_otg.lpm_enable=0 console=tty1 root=/dev/mmcblk0p2
rootfstype=ext4 elevator=deadline rootwait
```

Save the file to save your changes.

The second file to edit is **/etc/inittab**

Edit using: **sudo nano /etc/inittab**

The **/etc/inittab** file has the command which enables the login

prompt which needs to be disabled.

Near the end of the file will be a line similar to this:

```
respawn:/sbin/getty -L ttyAMA0 115200 vt100
```

Disable this line by adding a # character to the beginning.

```
#respawn:/sbin/getty -L ttyAMA0 115200 vt100
```

Save the file.

You should then reboot your raspberry pi with the following

command

sudo shutdown -r now

You can now use your serial port with other applications on your Raspberry Pi.