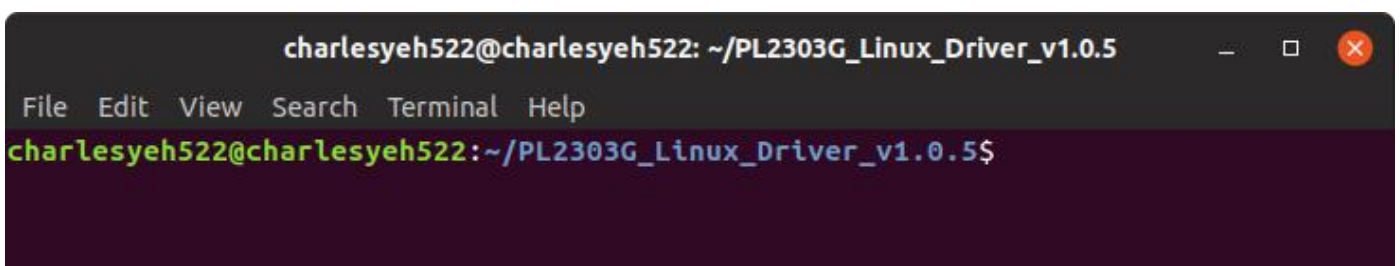


# Linux 系统安装 USB 转串口线驱动指导

Linux 内核 5.5 及以上已经包含内置的 PL2303 驱动程序, 如果您的 Linux 内核是 v2.6.15 ~v5.4 版本请按照以下方式更新 PL2303\_Linux 驱动并找到对应版本内核的文件进行安装:

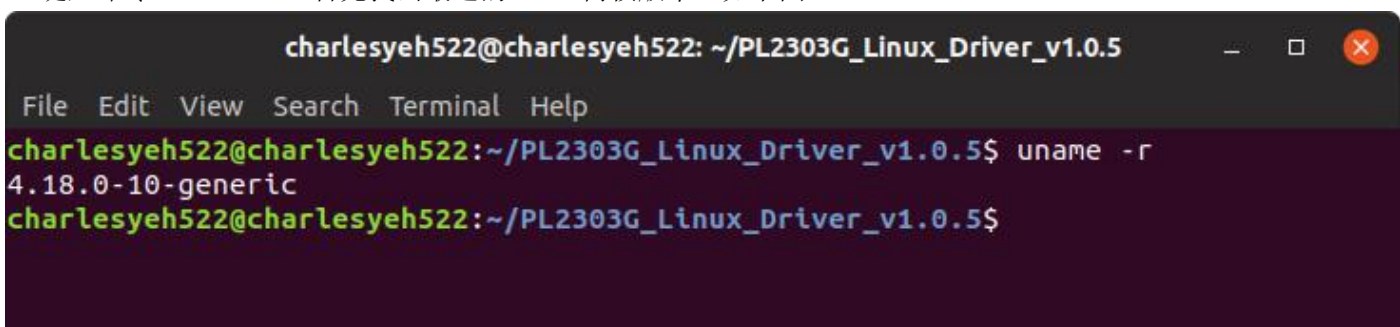
2.6.15_ok	2021-04-16 15:57
2.6.23_ok	2021-04-16 15:57
2.6.24_ok	2021-04-16 15:57
2.6.28_ok	2021-04-16 15:57
2.6.32_ok	2021-04-16 15:57
2.6.35.2_ok	2021-04-16 15:57
2.6.35.2_ok2	2021-04-16 15:57
3.0.35_ok	2021-04-16 15:57
3.3_ok	2021-04-16 15:57
3.4.113_ok	2021-04-16 15:57
3.10_ok	2021-04-16 15:57
3.13_ok	2021-04-16 15:57
3.16_ok	2021-04-16 15:57
3.18_ok	2021-04-16 15:57
4.0.2_ok	2021-04-16 15:57
4.4_ok	2021-04-16 15:57
4.9.113_ok	2021-04-16 15:57
4.9_ok	2021-04-16 15:57
4.14_ok	2021-04-16 15:57
4.15_ok	2021-04-16 15:57
4.18_OK	2021-04-16 15:57
4.19_ok	2021-04-16 15:57
4.20_ok	2021-04-16 15:57
5.0_ok	2021-04-16 15:57
5.2_ok	2021-04-16 15:57
5.4.51_ok	2021-04-16 15:57

1. 键入命令“terminal”打开终端 AP: 如下图



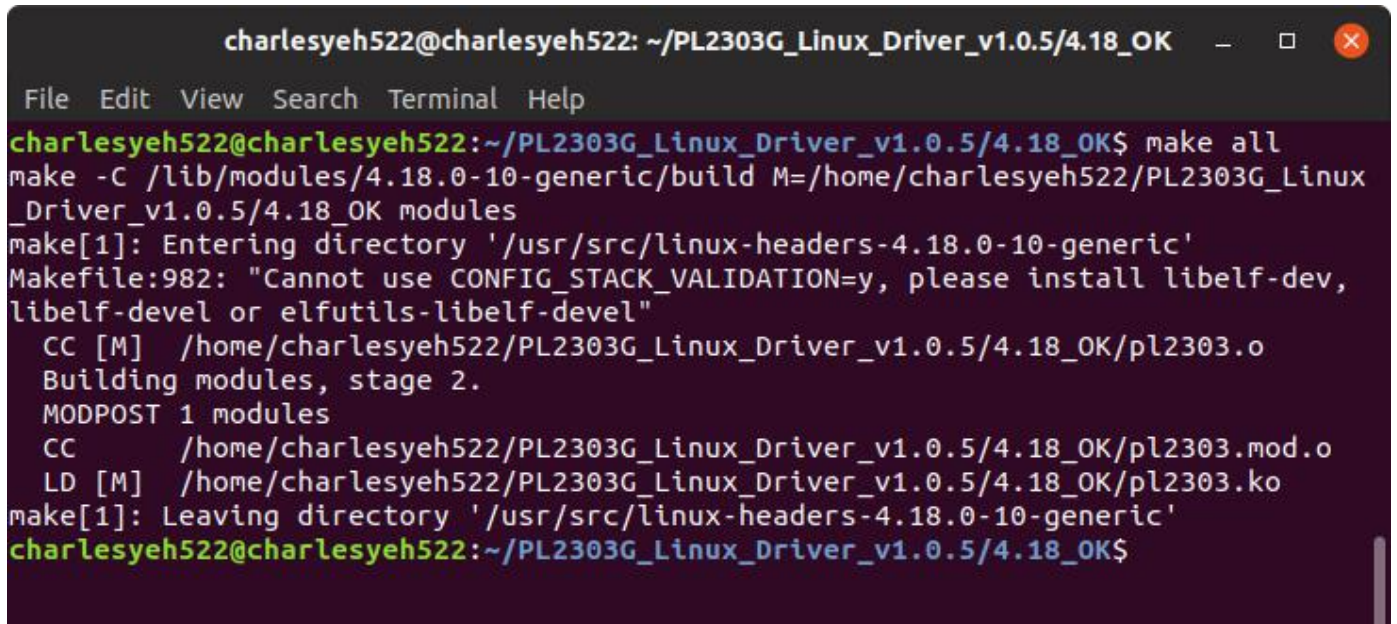
```
charlesyeh522@charlesyeh522: ~/PL2303G_Linux_Driver_v1.0.5
File Edit View Search Terminal Help
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5$
```

2. 键入命令“uname -r”首先找出最近的 Linux 内核版本: 如下图



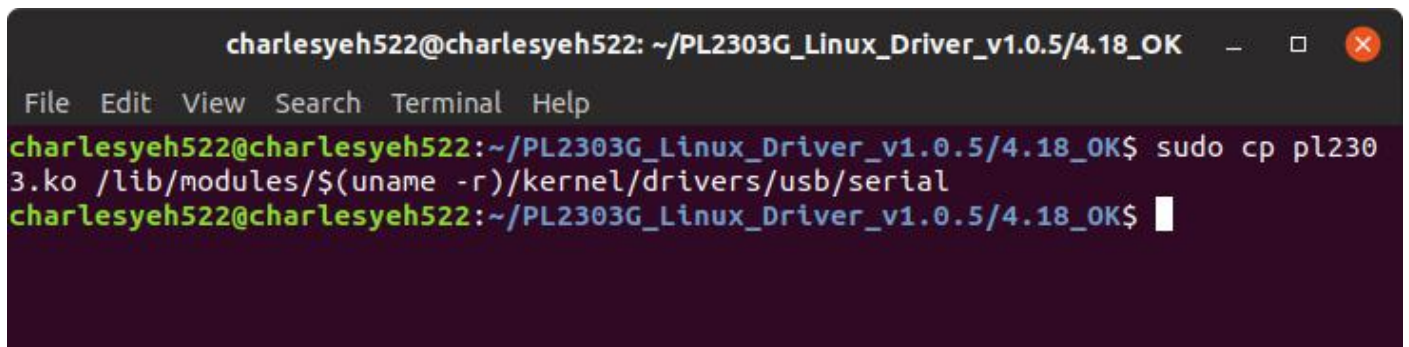
```
charlesyeh522@charlesyeh522: ~/PL2303G_Linux_Driver_v1.0.5
File Edit View Search Terminal Help
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5$ uname -r
4.18.0-10-generic
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5$
```

3. 键入命令“make all”如果在编译内核驱动过程中遇到错误信息：如下图



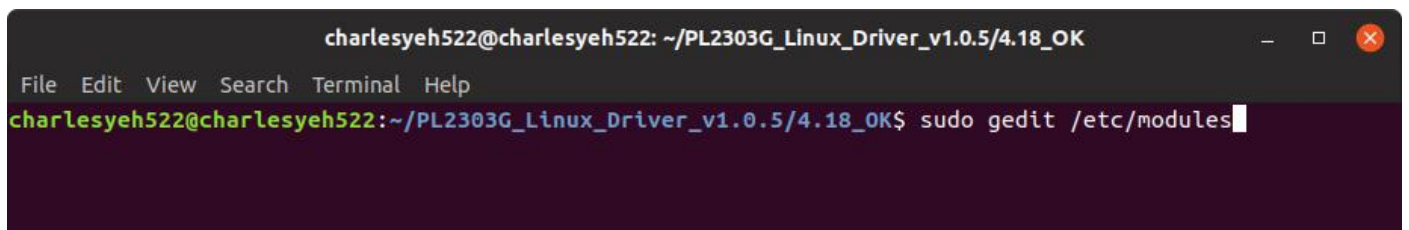
```
charlesyeh522@charlesyeh522: ~/PL2303G_Linux_Driver_v1.0.5/4.18_OK
File Edit View Search Terminal Help
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5/4.18_OK$ make all
make -C /lib/modules/4.18.0-10-generic/build M=/home/charlesyeh522/PL2303G_Linux_Driver_v1.0.5/4.18_OK modules
make[1]: Entering directory '/usr/src/linux-headers-4.18.0-10-generic'
Makefile:982: "Cannot use CONFIG_STACK_VALIDATION=y, please install libelf-dev, libelf-devel or elfutils-libelf-devel"
CC [M] /home/charlesyeh522/PL2303G_Linux_Driver_v1.0.5/4.18_OK/pl2303.o
Building modules, stage 2.
MODPOST 1 modules
CC /home/charlesyeh522/PL2303G_Linux_Driver_v1.0.5/4.18_OK/pl2303.mod.o
LD [M] /home/charlesyeh522/PL2303G_Linux_Driver_v1.0.5/4.18_OK/pl2303.ko
make[1]: Leaving directory '/usr/src/linux-headers-4.18.0-10-generic'
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5/4.18_OK$
```

4. 编译有错误后可将新驱动程序复制到内核“sudo cp pl2303.ko /lib/modules/\$(uname -r)/kernel/drivers/usb/serial”的目录下：如下图



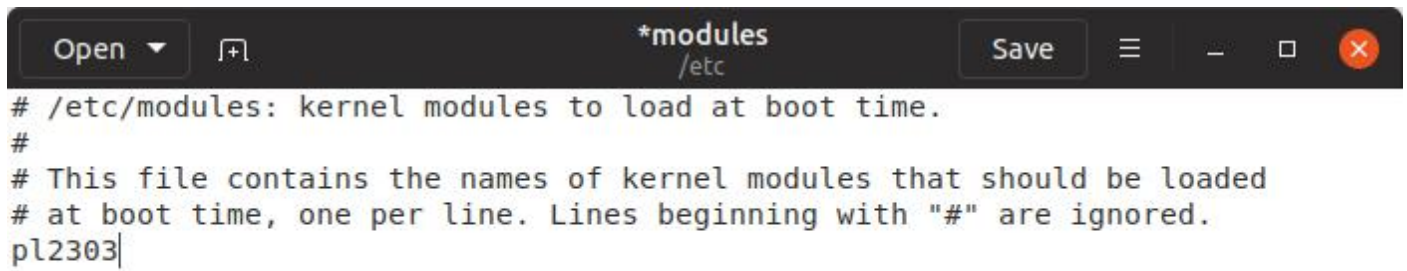
```
charlesyeh522@charlesyeh522: ~/PL2303G_Linux_Driver_v1.0.5/4.18_OK
File Edit View Search Terminal Help
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5/4.18_OK$ sudo cp pl2303.ko /lib/modules/$(uname -r)/kernel/drivers/usb/serial
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5/4.18_OK$
```

5.键入命令“sudo gedit /etc/modules”编辑模块：如下图



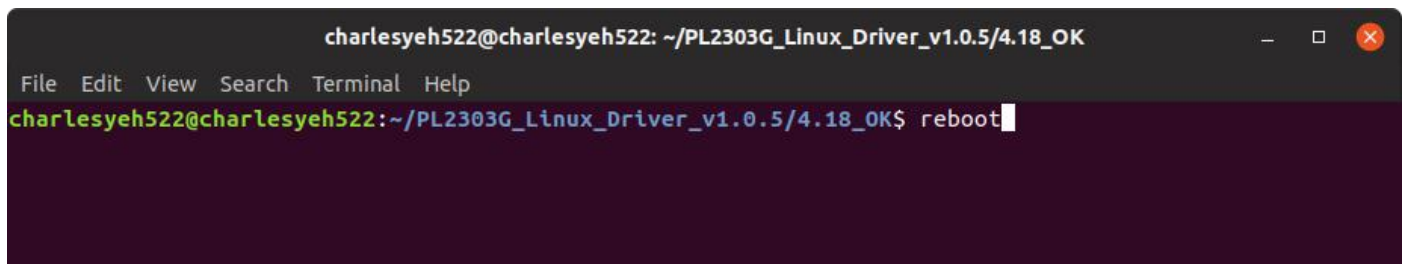
```
charlesyeh522@charlesyeh522: ~/PL2303G_Linux_Driver_v1.0.5/4.18_OK
File Edit View Search Terminal Help
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5/4.18_OK$ sudo gedit /etc/modules
```

6. 键入命令“pl2303”添加 pl2303，保存，关闭模块：如下图

A screenshot of a text editor window with a dark theme. The title bar shows the filename as `*modules` and the current directory as `/etc`. The window has buttons for 'Open', 'Save', and standard window controls (minimize, maximize, close). The text content of the file is as follows:

```
# /etc/modules: kernel modules to load at boot time.
#
# This file contains the names of kernel modules that should be loaded
# at boot time, one per line. Lines beginning with "#" are ignored.
pl2303|
```

7.键入命令“reboot”现在重新启动系统：如下图

A screenshot of a terminal window with a dark theme. The title bar shows the user and host as `charlesyeh522@charlesyeh522` and the current directory as `~/PL2303G_Linux_Driver_v1.0.5/4.18_OK`. The terminal has a menu bar with 'File', 'Edit', 'View', 'Search', 'Terminal', and 'Help'. The command prompt shows the user `charlesyeh522` at the host `charlesyeh522` in the directory `~/PL2303G_Linux_Driver_v1.0.5/4.18_OK`. The command `reboot` has been entered and is followed by a cursor.

```
charlesyeh522@charlesyeh522:~/PL2303G_Linux_Driver_v1.0.5/4.18_OK$ reboot
```

8.最后插入产品 USB 电缆就可以使用了