

CH340 USB to serial LINUX driver installation

1.Driver Program Introduction:

- * Support 32/64 bit operating system
- * Support Linux kernel version 2.6.25 - 3.13.x
- * Version: 1.4

2.The steps of drive installation:

Since the Kernel 2.6 ,The official Linux kernel version contains the CH340 / CH341 chip driver support, but the driver version gets old that can not meet the requirement of the use.

(1)Open the "latest LINUX driver" folder, please take the "CH341SER_LINUX" drive compressed package to the Linux system

(2)Before installation,you should cancel the old version of the driver,in case of the establishment of the new version,the old one is still in effect.The system's default driven directory is `/lib/modules/$(uname -r)/kernel/drivers`.The old drive full path name is `/lib/modules/$(uname -r)/kernel/drivers/usb/serial/ch341.ko`.And we can go to the directory,delete it.

```
root@ubuntu:/lib/modules/4.4.0-34-generic/kernel/drivers/usb/serial# ls
atrcable.ko      f81232.ko      keyspan.ko      navman.ko      safe_serial.ko  usb_wlan.ko
ark3116.ko       ftdi_sio.ko    keyspan_pda.ko  omninet.ko     sterra.ko       visor.ko
belkin_sa.ko     garmin_gps.ko  kl5kusb105.ko   opticon.ko     spcp8x5.ko       whiteheat.ko
ch341.ko         io_edgeport.ko kobll_sct.ko     option.ko       ssu100.ko        wishbone-serial.ko
cp210x.ko        io_ti.ko       mct_u232.ko     ott6858.ko     symbolserial.ko  xsens_mt.ko
cyberjack.ko     ipaq.ko        metro-usb.ko     pl2303.ko      ttusb_lan.ko
cypress_m8.ko    ipw.ko         mos7720.ko       qcserial.ko     usb_debug.ko
digi_acceleport.ko lr-usb.ko      mos7840.ko       quatech2.ko    usbserial.ko
enpeg.ko         tuu_phoenix.ko mxuport.ko      quatech2.ko    usb-serial-simple.ko
root@ubuntu:/lib/modules/4.4.0-34-generic/kernel/drivers/usb/serial# rm ch341.ko
root@ubuntu:/lib/modules/4.4.0-34-generic/kernel/drivers/usb/serial#
```

(3)Decompression the new driver and get the installation,besides,obey the actual operation of the order.

```
1. root@ubuntu:/#unzip CH341SER_LINUX.ZIP ↵
2. root@ubuntu:/#cd CH341SER_LINUX ↵
3. root@ubuntu:/#make ↵
4. root@ubuntu:/#make load ↵
```

Detailed process

```
root@ubuntu:/home/ranbo/Drivers# unzip CH341SER_LINUX.ZIP
Archive: CH341SER_LINUX.ZIP
  creating: CH341SER_LINUX/
  inflating: CH341SER_LINUX/ch34x.c
  inflating: CH341SER_LINUX/Makefile
  inflating: CH341SER_LINUX/readme.txt
root@ubuntu:/home/ranbo/Drivers# cd CH341SER_LINUX
root@ubuntu:/home/ranbo/Drivers/CH341SER_LINUX# make
make -C /lib/modules/4.4.0-34-generic/build M=/home/ranbo/Drivers/CH341SER_LINUX
make[1]: Entering directory '/usr/src/linux-headers-4.4.0-34-generic'
LD /home/ranbo/Drivers/CH341SER_LINUX/built-in.o
CC [H] /home/ranbo/Drivers/CH341SER_LINUX/ch34x.o
/home/ranbo/Drivers/CH341SER_LINUX/ch34x.c: In function 'ch34x_close':
/home/ranbo/Drivers/CH341SER_LINUX/ch34x.c:566:15: warning: unused variable 'wait' [-Wunused-variable]
    wait_queue_t wait;
                  ^
/home/ranbo/Drivers/CH341SER_LINUX/ch34x.c:565:7: warning: unused variable 'timeout' [-Wunused-variable]
    long timeout;
        ^
/home/ranbo/Drivers/CH341SER_LINUX/ch34x.c:564:6: warning: unused variable 'bps' [-Wunused-variable]
    int bps;
        ^
Building modules, stage 2.
MODPOST 1 modules
CC /home/ranbo/Drivers/CH341SER_LINUX/ch34x.mod.o
LD [H] /home/ranbo/Drivers/CH341SER_LINUX/ch34x.ko
make[1]: Leaving directory '/usr/src/linux-headers-4.4.0-34-generic'
root@ubuntu:/home/ranbo/Drivers/CH341SER_LINUX# make load
modprobe usbserial
insmod ch34x.ko
root@ubuntu:/home/ranbo/Drivers/CH341SER_LINUX#
```

(4)After “make load”,You need to connect 3D printer to the computer USB through USB wire.Input the command:dmesg look over the system blog information.

```
326.844264] usbcore: registered new interface driver ch34x
326.844288] usbserial: USB Serial support registered for ch34x
823.760521] usb 2-2.1: new full-speed USB device number 4 using uhci_hcd
824.010676] usb 2-2.1: New USB device found, idVendor=1a86, idProduct=5523
824.010681] usb 2-2.1: New USB device strings: Mfr=0, Product=0, SerialNumber=0
824.017088] ch34x 2-2.1:1.0: ch34x converter detected
824.088706] usb 2-2.1: ch34x converter now attached to ttyUSB0
```

(5)If successful, the information shown in the figure above will appear and the name of the generated device node is ttyUSB0, we can go to

the/ dev directory to look over it, you will discover the device file/ dev / ttyUSB0, the rest of the operation is similar to the operation of the Windows COM port.

3.Links to resources:

Driven official website link:

http://www.wch.cn/download/CH341SER_LINUX_ZIP.html

Network resources:

<http://blog.csdn.net/JAZZSOLDIER/article/details/70170466>