

/dev/ttyUSB0 不显示的解决方案

配置 linux 下的串口：

```
cd linux-3.14
make menuconfig
```

/ 搜索：，注意，要配置驱动，需要先打开驱动所对应的依赖

配置 USB 转串口的驱动支持（常见的三种 USB 串口芯片支持 CH341 PL2303 CP210X）：

```
| Symbol: USB_SERIAL_CH341 [=y] |
| Type : tristate |
| Prompt: USB Winchiphead CH341 Single Port Serial Driver |
| Location: |
|   -> Device Drivers |
|   -> USB support (USB_SUPPORT [=y]) |
| (1)   -> USB Serial Converter support (USB_SERIAL [=y]) |
| Defined at drivers/usb/serial/Kconfig:99 |
| Depends on: USB_SUPPORT [=y] && USB [=y] && USB_SERIAL [=y] |
```

```
| Symbol: USB_SERIAL_PL2303 [=y] |
| Type : tristate |
| Prompt: USB Prolific 2303 Single Port Serial Driver |
| Location: |
|   -> Device Drivers |
|   -> USB support (USB_SUPPORT [=y]) |
| (1)   -> USB Serial Converter support (USB_SERIAL [=y]) |
| Defined at drivers/usb/serial/Kconfig:510 |
| Depends on: USB_SUPPORT [=y] && USB [=y] && USB_SERIAL [=y] |
```

```
| Symbol: USB_SERIAL_CP210X [=y] |
| Type : tristate |
| Prompt: USB CP210x family of UART Bridge Controllers |
| Location: |
|   -> Device Drivers |
|   -> USB support (USB_SUPPORT [=y]) |
| (2)   -> USB Serial Converter support (USB_SERIAL [=y]) |
| Defined at drivers/usb/serial/Kconfig:132 |
| Depends on: USB_SUPPORT [=y] && USB [=y] && USB_SERIAL [=y] |
```

配置 USB 设备的驱动：（关键步骤，否则 USB 口不工作）

参考系统移植实验手册：实验八：USB 驱动的移植



系统移植实验手册-V2.pdf

配置完成之后，拷贝内核和设备树：

插上 GPRS 设备:

```
[root@makeru ~]# [ 237.970000] usb 1-3.1: new full-speed USB device number 3 using exynos-ehci
[ 238.090000] ch341 1-3.1:1.0: ch341-uart converter detected
[ 238.095000] usb 1-3.1: ch341-uart converter now attached to ttyUSB0
```

可以看到 CH341 转化为 ttyUSB0,查看设备节点:

```
[root@makeru ~]# ls /dev/ttyUSB0
/dev/ttyUSB0
```

或者是:

```
[root@makeru ~]# ls /dev/video0
/dev/video0
```