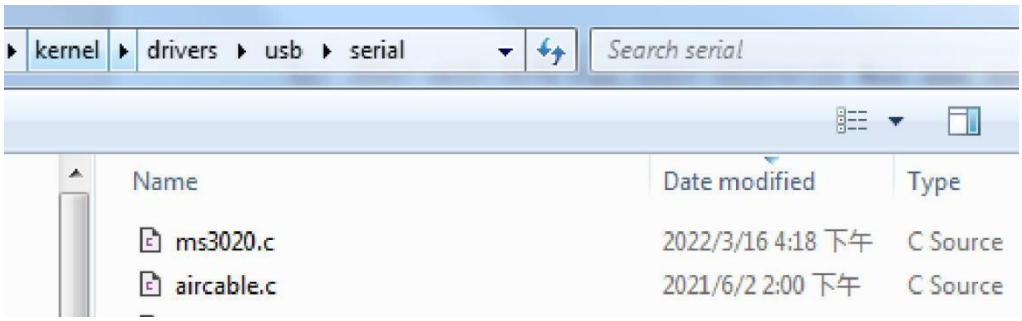
MS3020 linux 下驱动添加

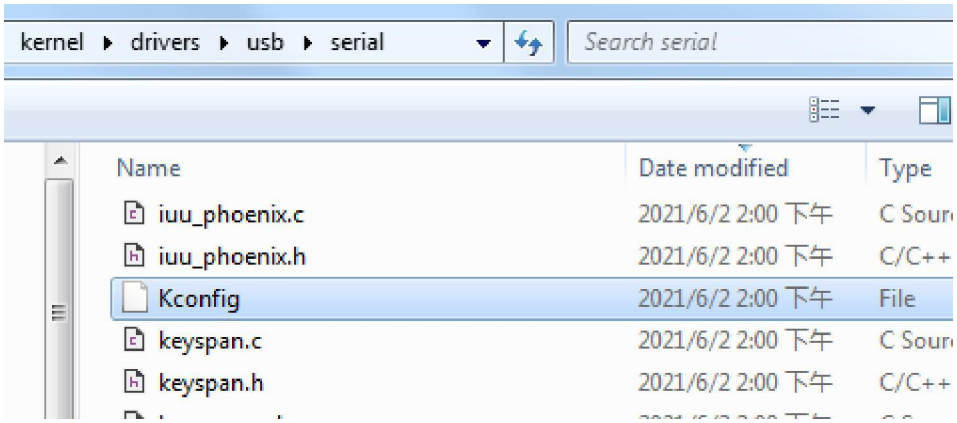
1，将 ms3020.c 放入对应工程的 kernel/drivers/usb/serial 目录下



2、修改该目录下 Kconfig 文件，添加如下内容

```
config USB_SERIAL_MS3020
    tristate "Macrosilicon USB Serial Port Driver"
    help
      Say Y here if you want to use the MS3030 USB Serial single port
      adapter from Macrosilicon.

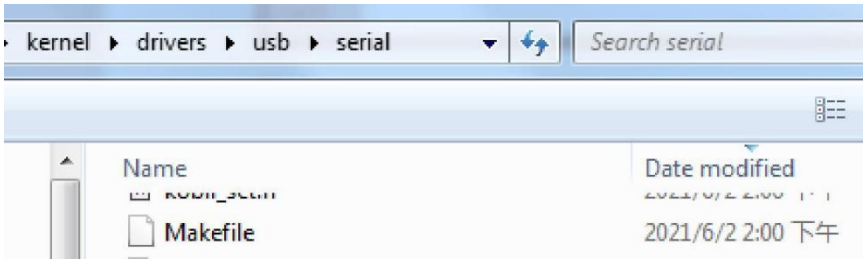
      To compile this driver as a module, choose M here: the
      module will be called ms3020.
```



```
706
707 config USB_SERIAL_DEBUG
708     tristate "USB Debugging Device"
709     help
710       Say Y here if you have a USB debugging device used to receive
711       debugging data from another machine.  The most common of these
712       devices is the NetChip TurboCONNECT device.
713
714       To compile this driver as a module, choose M here: the
715       module will be called usb-debug.
716
717 config USB_SERIAL_MS3020
718     tristate "Macrosilicon USB Serial Port Driver"
719     help
720       Say Y here if you want to use the MS3030 USB Serial single port
721       adapter from Macrosilicon.
722
723       To compile this driver as a module, choose M here: the
724       module will be called ms3020.
725
726 endif # USB_SERIAL
727
```

3、修改该目录下的 Makefile 文件添加如下内容:

obj-$(CONFIG_USB_SERIAL_MS3020) += ms3020.o




```
59 obj-$(CONFIG_USB_SERIAL_WISHBONE)      += wishbone-serial.o
60 obj-$(CONFIG_USB_SERIAL_WHITEHEAT)     += whiteheat.o
61 obj-$(CONFIG_USB_SERIAL_XIRCOM)        += keyspan_pda.o
62 obj-$(CONFIG_USB_SERIAL_XSENS_MT)      += xsens_mt.o
63 obj-$(CONFIG_USB_SERIAL_MS3020)        += ms3020.o
```

4、修改对应平台的 config 文件设置 CONFIG_USB_SERIAL_MS3020=y

不同平台的 config 文件都不相同，一般都在 kernel\arch\arm64\configs 或 kernel\arch\arm\configs 下面

```
26 CONFIG_CRYPTO_AES_ARM64_CE_CCM=y
27 CONFIG_CRYPTO_AES_ARM64_CE_BLK=y
28 CONFIG_CRYPTO_CRC32_ARM64=y
29 CONFIG_USB_SERIAL_MS3020=y
```

5、重新编译 linux 内核

6、插入 ms3020 后查看 kernelog 应有类似如下打印：

usb 3-1:ms3020 converter now attached to ttyUSBX