

How to build TouchKit USB kernel module

1. Please make sure some packages are installed before you want to build the kernel module “**tkusb.ko**”, such as tcl, development library and kernel-source.

Note: *The kernel-source version must be the same as your running kernel.*

2. Rebuild the kernel module. It is needed for USB TouchScreen controller. Please follow steps below to build the kernel module “**tkusb.ko**”.

Note: *This module of ko format is used for kernel 2.6.x only.*

2.1) Open a terminal window and locate the copied directory. Then, go to the subdirectory “**USBSrc**”. Execute “**make all**”. Then, the kernel module will be built in your working directory.

2.2) Copy the kernel module “**tkusb.ko**” to target directory.

For example, “**/lib/modules**”

2.3) Make device node for USB TouchScreen controller. For example,
mknod /dev/tkpanel0 c 180 180 (for first USB TouchScreen controller)
mknod /dev/tkpanel1 c 180 181 (for second USB TouchScreen controller)

2.4) Modify **rc.local** file to load kernel module automatically. (It is renamed “**boot.local**” under SuSE Linux series.) This file can be found in “**/etc/rc.d**”. Append the following description in this file.

```
## TouchKit kernel module section begin ##  
  rmmod touchkitusb  # This module may be called “usbtouchscreen”.  
  insmod /lib/modules/tkusb.ko  # for Kernel 2.6.x only.  
## TouchKit kernel module section end ##
```

Note: *User can check which internal kernel module is loaded for USB TouchScreen controller via below instruction in a terminal window.*

cat /proc/bus/input/devices

3. Restart your platform.