RS-232 Interface :

Configure and compile linux kernel

1. Enable Framebuffer
   # make menuconfig
   [*]VGA text console
   [*]Video mode selection support
   <*> Framebuffer Console support

2. Copy "/rtouch/rtouch.c" to "/kernel source code/drivers/input/touchscreen/"

3. Add the following line to "/kernel source code/drivers/input/touchscreen/Makefile"

```
obj-$(CONFIG_TOUCHSCREEN_RTOUCH)        += rtouch.o
```

4. Add the following text to "/kernel source code/drivers/input/touchscreen/kconfig":

```
config TOUCHSCREEN_RTOUCH
        tristate "Risintech serial touchscreens"
        select SERIO
        help
           Say Y here if you have a Risintech serial touchscreen connected to
           your system.
           If unsure, say N.
           To compile this driver as a module, choose M here: the
           module will be called rtouch.
```

5. Please enable SERIO support in kernel, first find .config in kernel source folder, and enable SERIO related flags :

```
CONFIG_ SERIO=y
CONFIG_ SERIO_SERPORT=y
CONFIG_ SERIO_RAW=y
CONFIG_INPUT_TOUCHSCREEN=y
```

then add the following line to .config

```
CONFIG_TOUCHSCREEN_RTOUCH=y
```

6. Run "make clean" then run "make" to build kernel image

7. Run /touchattach/cp.sh to compiler touchattach
(Modify cp.sh add your cross compiler)

Target board

1. To attach the touchscreen at startup, edit your /etc/rc.local to look like the following:
   modprobe rtouch
   touchattach -rtouch --daemon /dev/ttySx

   Note. Specifies the com port to connect to on the touch device
   /dev/ttySx , x=0,1,2, etc.

2. Get root access.
3. Copy "LinearAp" and "touchattach" to the target board
   # cp -f ./ touchattach /usr/bin
   # cp -f ./LinearAp /usr/bin

4. reboot
5. Get root access
6. Run "LinearAP"
   # LinearAp