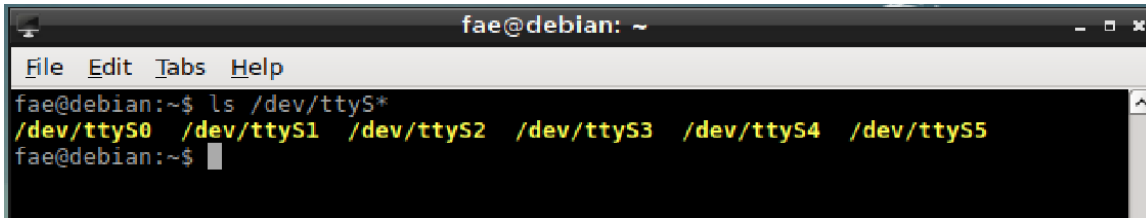


# eGalax Touch Driver INSTALL SOP

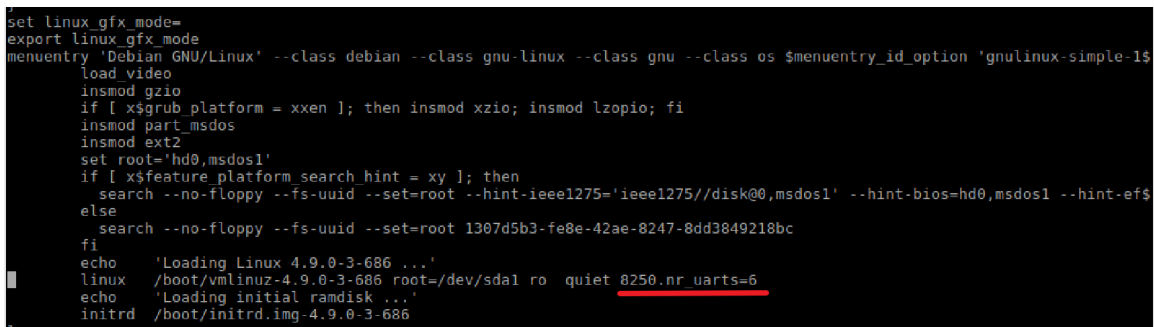
20170913-1

Other Linux Distribution such as Debian or Fedora please checks if the serial ports enable in kernel more than 6 ports. The default for touch controller is ttyS4.



```
fae@debian: ~  
File Edit Tabs Help  
fae@debian:~$ ls /dev/ttyS*  
/dev/ttyS0 /dev/ttyS1 /dev/ttyS2 /dev/ttyS3 /dev/ttyS4 /dev/ttyS5  
fae@debian:~$
```

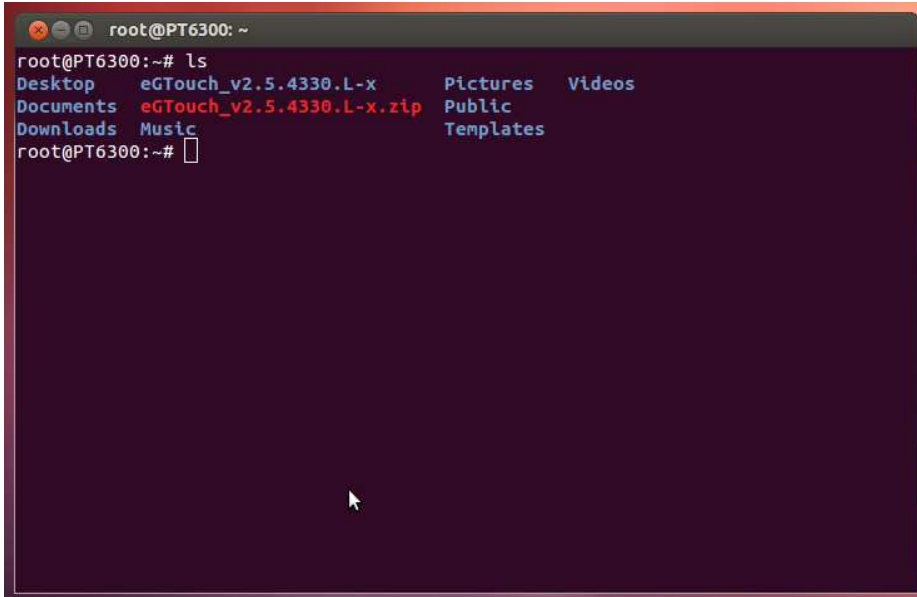
Check from /dev/ttyS0 to ttyS5 is existing. If less than 6 ports. Please modify /boot/grub/grub.cfg and add “8250.nr\_uarts=5” in the end of vmlinuz as below than save and reboot. After reboot check again is 6 serial port already enable.



```
set linux_gfx_mode=  
export linux_gfx_mode  
menuentry 'Debian GNU/Linux' --class debian --class gnu-linux --class gnu --class os $menuentry_id_option 'gnulinux-simple-15  
  load_video  
  insmod gzio  
  if [ x$grub_platform = xxen ]; then insmod xzio; insmod lzopio; fi  
  insmod part_msdos  
  insmod ext2  
  set root='hd0,msdos1'  
  if [ x$feature_platform_search_hint = xy ]; then  
    search --no-floppy --fs-uuid --set=root --hint-ieee1275='ieee1275//disk@0,msdos1' --hint-bios=hd0,msdos1 --hint-efi$  
  else  
    search --no-floppy --fs-uuid --set=root 1307d5b3-fe8e-42ae-8247-8dd3849218bc  
  fi  
  echo 'Loading Linux 4.9.0-3-686 ...'  
  linux /boot/vmlinuz-4.9.0-3-686 root=/dev/sda1 ro quiet 8250.nr_uarts=6  
  echo 'Loading initial ramdisk ...'  
  initrd /boot/initrd.img-4.9.0-3-686
```

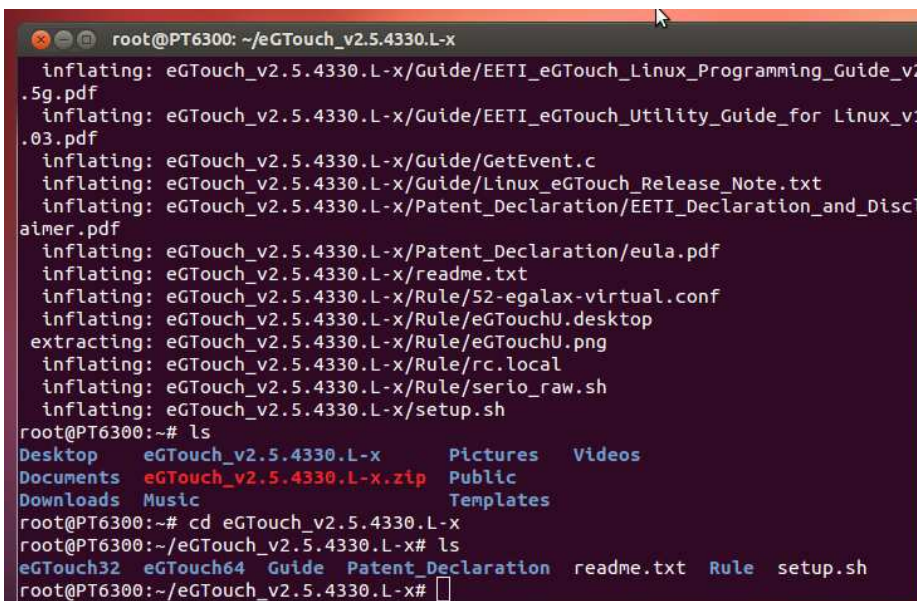
Then follow below steps to install the touch driver.

1. Copy the driver (eGTouch\_v2.5.4330.L-x.zip) onto Unit.
2. Unzip driver below the catalogue of eGTouch\_v2.5.4330.L-x



```
root@PT6300: ~  
root@PT6300:~# unzip eGTouch_v2.5.4330.L-x.zip  
Archive: eGTouch_v2.5.4330.L-x.zip  
  inflating: eGTouch_v2.5.4330.L-x/    
root@PT6300:~# ls  
Desktop  eGTouch_v2.5.4330.L-x  Pictures  Videos  
Documents eGTouch_v2.5.4330.L-x.zip Public  
Downloads Music          Templates  
root@PT6300:~#
```

3. Going to the catalogue of eGTouchv2.5.4330.L-x



```
root@PT6300: ~/eGTouch_v2.5.4330.L-x  
inflating: eGTouch_v2.5.4330.L-x/Guide/EETI_eGTouch_Linux_Programming_Guide_v2  
.5g.pdf  
inflating: eGTouch_v2.5.4330.L-x/Guide/EETI_eGTouch_Utility_Guide_for_Linux_v1  
.03.pdf  
inflating: eGTouch_v2.5.4330.L-x/Guide/GetEvent.c  
inflating: eGTouch_v2.5.4330.L-x/Guide/Linux_eGTouch_Release_Note.txt  
inflating: eGTouch_v2.5.4330.L-x/Patent_Declaration/EETI_Declaration_and_Disc  
laimer.pdf  
inflating: eGTouch_v2.5.4330.L-x/Patent_Declaration/eula.pdf  
inflating: eGTouch_v2.5.4330.L-x/readme.txt  
inflating: eGTouch_v2.5.4330.L-x/Rule/52-egalax-virtual.conf  
inflating: eGTouch_v2.5.4330.L-x/Rule/eGTouchU.desktop  
extracting: eGTouch_v2.5.4330.L-x/Rule/eGTouchU.png  
inflating: eGTouch_v2.5.4330.L-x/Rule/rc.local  
inflating: eGTouch_v2.5.4330.L-x/Rule/serio_raw.sh  
inflating: eGTouch_v2.5.4330.L-x/setup.sh  
root@PT6300:~# ls  
Desktop  eGTouch_v2.5.4330.L-x  Pictures  Videos  
Documents eGTouch_v2.5.4330.L-x.zip Public  
Downloads Music          Templates  
root@PT6300:~# cd eGTouch_v2.5.4330.L-x  
root@PT6300:~/eGTouch_v2.5.4330.L-x# ls  
eGTouch32 eGTouch64 Guide Patent_Declaration readme.txt Rule setup.sh  
root@PT6300:~/eGTouch_v2.5.4330.L-x#
```

#### 4. Running the installation program (bash setup.sh)

```
root@PT6300: ~/eGTouch_v2.5.4330.L-x
inflating: eGTouch_v2.5.4330.L-x/Guide/GetEvent.c
inflating: eGTouch_v2.5.4330.L-x/Guide/Linux_eGTouch_Release_Note.txt
inflating: eGTouch_v2.5.4330.L-x/Patent_Declaration/EETI_Declaration_and_Disc
ainer.pdf
inflating: eGTouch_v2.5.4330.L-x/Patent_Declaration/eula.pdf
inflating: eGTouch_v2.5.4330.L-x/readme.txt
inflating: eGTouch_v2.5.4330.L-x/Rule/52-egalax-virtual.conf
inflating: eGTouch_v2.5.4330.L-x/Rule/eGTouchU.desktop
extracting: eGTouch_v2.5.4330.L-x/Rule/eGTouchU.png
inflating: eGTouch_v2.5.4330.L-x/Rule/rc.local
inflating: eGTouch_v2.5.4330.L-x/Rule/serio_raw.sh
inflating: eGTouch_v2.5.4330.L-x/setup.sh
root@PT6300:~# ls
Desktop  eGTouch_v2.5.4330.L-x  Pictures  Videos
Documents eGTouch_v2.5.4330.L-x.zip  Public
Downloads Music  Templates
root@PT6300:~# cd eGTouch_v2.5.4330.L-x
root@PT6300:~/eGTouch_v2.5.4330.L-x# ls
eGTouch32 eGTouch64 Guide Patent_Declaration readme.txt Rule setup.sh
root@PT6300:~/eGTouch_v2.5.4330.L-x# bash setup.sh

(*) Driver installer for touch controller
(*) Script Version = 1.04.4330

(I) Check user permission: root, you are the supervisor.
(I) Platform application binary interface = x86_64
(W) X server detected.

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```

#### 5. Input "Y"

```
root@PT6300: ~/eGTouch_v2.5.4330.L-x

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t not limited to any claims to infringement of any third party's intellectual pr
operty right.

Do you agree with above patent declaration?
[Y] Yes, I agree. [N] No, I don't agree.
☐
```

#### 6. Input 1 (RS232)



```
root@PT6300: ~/eGTouch_v2.5.4330.L-x 10:40 PM Guest

(*) Driver installer for touch controller
(*) Script Version = 1.04.4330

(I) Check user permission: root, you are the supervisor.
(I) Platform application binary interface = x86_64
(W) X server detected.

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Do you agree with above patent declaration?
[Y] Yes, I agree. [N] No, I don't agree.
y

(Q) Which interface controller do you use?
(I) [1] RS232 [2] USB [3] PS2 : 1
(I) Please confirm the touch controller is linked with your device. Press [Enter] key to continue.....
.
```

## 7. Input 1 (Default)

```
root@PT6300: ~/eGTouch_v2.5.4330.L-x 10:41 PM Guest

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Do you agree with above patent declaration?
[Y] Yes, I agree. [N] No, I don't agree.
y

(Q) Which interface controller do you use?
(I) [1] RS232 [2] USB [3] PS2 : 1
(I) Please confirm the touch controller is linked with your device. Press [Enter] key to continue.....
.

(I) Found /etc/rc.local file.
(I) Found uinput at path /dev/uinput
(I) Place eGTouch driver archive to /usr/local/eGTouch64withX.
(I) Create eGTouch daemon shortcut in /usr/bin.
(I) Create eGTouchU tool shortcut in /usr/bin.
(I) Create eCalib tool shortcut in /usr/bin.
(I) Detach eGTouchD daemon execution from /etc/rc.local.
(I) Append eGTouch daemon execution into /etc/rc.local.

(Q) How many controllers do you want to plug-in to system? [1-10]
(I) Default [1]:1
```

## 8. Installation completed, restart unit.

```
root@PT6300: ~/eGTouch_v2.5.4330.L-x
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ILITY AND FITNESS FOR A PARTICULAR PURPOSE. EETI reserves the right to make chan
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t not limited to any claims to infringement of any third party's intellectual pr
operty right.

Do you agree with above patent declaration?
[Y] Yes, I agree. [N] No, I don't agree.
y

(Q) Which interface controller do you use?
(I) [1] RS232 [2] USB [3] PS2 : 1
(I) Please confirm the touch controller is linked with your device. Press [Enter] key to continue.....
.

(I) Found /etc/rc.local file.
(I) Found uinput at path /dev/uinput
(I) Place eGTouch driver archive to /usr/local/eGTouch64withX.
(I) Create eGTouch daemon shortcut in /usr/bin.
(I) Create eGTouchU tool shortcut in /usr/bin.
(I) Create eCalib tool shortcut in /usr/bin.
(I) Detach eGTouchD daemon execution from /etc/rc.local.
(I) Append eGTouch daemon execution into /etc/rc.local.

(Q) How many controllers do you want to plug-in to system? [1-10]
(I) Default [1]:1
1
(I) Device Nums is set to 1
(W) Found udev rule: 52-egalax-virtual.conf.
(I) Create eGTouchU shortcut in application list.

(I) Driver installation completed. Setup version 1.04.4330.
(I) Please reboot the system.

root@PT6300: ~/eGTouch_v2.5.4330.L-x#
```

## Troubleshooting.

For Debian 9.1

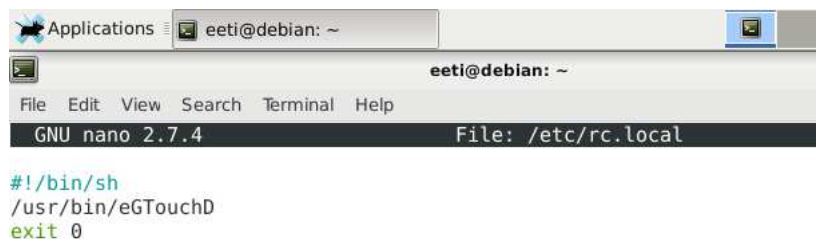
1. Default only enable 4 ttyS\*, Please modify /boot/grub/grub.cfg to enable upto 6 ttyS\*
2. Debian 9 disables the rc-local service in default.

To start eGTouchD in rc.local service, please manually add a file: /etc/rc.local

Then content is:

```
#!/bin/sh
/usr/bin/eGTouchD
exit 0
```

For example:



```
eeti@debian: ~
File Edit View Search Terminal Help
GNU nano 2.7.4 File: /etc/rc.local

#!/bin/sh
/usr/bin/eGTouchD
exit 0
```

And run below command to grant it executable permission:

```
chmod +x /etc/rc.local
```

Run below command to enable rc-local service, to make system launch eGTouchD driver when booting.

```
systemctl start rc-local
```