

Install GW-US54Mini2 to Fedora 4.0

1. Unzip RT73_Linux_STA_Drv1.0.3.6.tar

Please key in “**tar xf RT73_Linux_STA_Drv1.0.3.6.tar**” under text mode or terminal.
Or double click “RT73_Linux_STA_Drv1.0.3.6.tar” under Xwindow, and unzip the file.

2. Compile Makefile

Since “RT73_Linux_STA_Drv1.0.3.6.tar” supports Linux 2.4.x and 2.6.x version, we must compile Makefile before installation.

Open “RT73_Linux_STA_Drv1.0.3.6/Moudle” folder.

#If your Linux version is 2.4.x, please enter

```
cp Makefile.4 ./Makefile
```

#If your Linux version is 2.6.x, please enter

```
cp Makefile.6 ./Makefile
```

System will ask you if you want to overwrite Makefile, please enter yes to overwrite it

Note:

1. You can check Linux version through “**uname -r**” command.
2. If your Linux version is 2.4.x, please enter this command to continue

```
chmod 755 Configure
```

```
make config
```

3. Install Driver

Please enter this command to install driver

```
make all
```

System will install the driver, after finishing install, please enter

```
cp rt73.bin /etc/Wireless/RT73STA/
```

Note:

1. If your “/etc” folder doesn’t have “Wireless/RT73STA” sub-folder, please make it
Enter this command when the file is copied

```
dos2unix rt73sta.dat
```

```
cp rt73sta.dat /etc/Wireless/RT73STA/rt73sta.dat
```

If your Linux version is 2.4.x, please enter

```
/sbin/insmod rt73.o
```

```
/sbin/ifconfig rausb0 up
```

If your Linux version is 2.6.x, please enter

```
/sbin/insmod rt73.o  
/sbin/ifconfig rausb0 up
```

Note:

When you restart your 2.4.x Linux, please enter this command to let your GW-US54Mini2 can work, you should put the file rt73.o in the command folder (e.g.: /root)

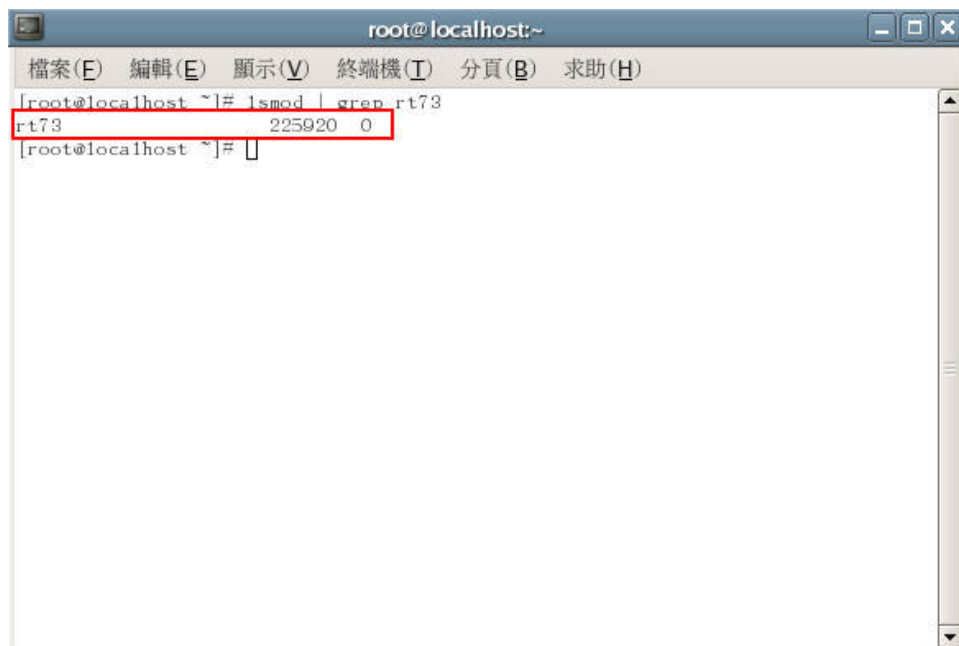
```
insmod rt73.o  
ifconfig rausb0 up
```

When you restart your 2.6.x Linux, please enter this command to let your GW-US54Mini2 can work, you should put the file rt73.ko in the command folder (e.g.: /root)

```
insmod rt73.ko  
ifconfig rausb0 up
```

4. Complete the Installation

Plug your GW-US54Mini2 into USB connector. Then you can check through “lsmod | grep rt73” command if your driver was installed already.



```
root@localhost:~  
檔案(E) 編輯(E) 顯示(V) 終端機(T) 分頁(B) 求助(H)  
[root@localhost ~]# lsmod | grep rt73  
rt73 225920 0  
[root@localhost ~]#
```

5. WEP Connection Settings

Then, we use a router, PCi BLW-54SG, which is with WEP 64bit encryption to test. Please refer to below setting screen.

Station Name:	PL000670	Security System	WEP
Region:	Asia	WEP	
Network Name (SSID):	linux-test	Authentication:	Auto
<input checked="" type="checkbox"/> Enable Access Point		Key Size:	64 bit
<input checked="" type="checkbox"/> Broadcast SSID		Passphrase:	
<input checked="" type="checkbox"/> XR		Key 1:	<input checked="" type="radio"/> 1234567890
<input type="checkbox"/> Enable JumpStart		Key 2:	<input type="radio"/> <input type="text"/>
802.11 Mode:	802.11g & 802.11b	Key 3:	<input type="radio"/> <input type="text"/>
Channel No.:	7	Key 4:	<input type="radio"/> <input type="text"/>
Current Setting:	WEP		

Enter below letters under text mode or terminal to connect with AP (Access Point).

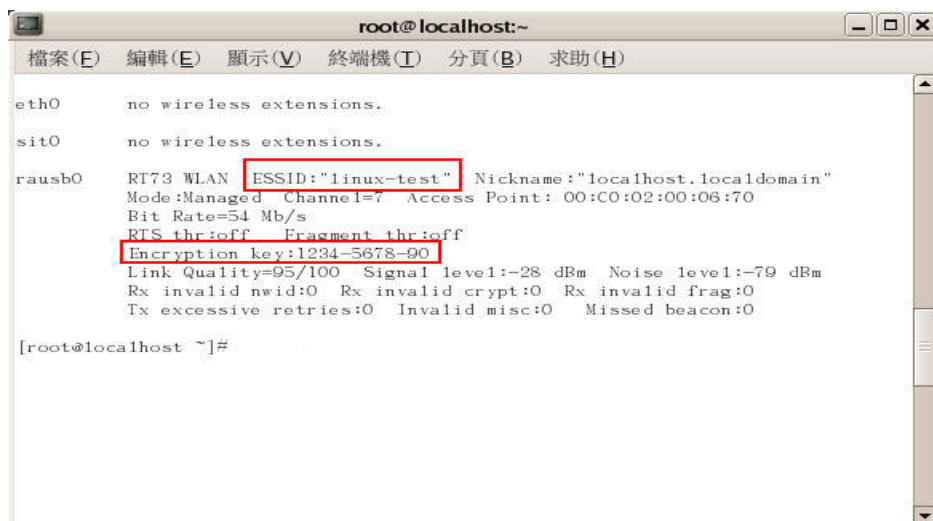
`iwconfig rausb0 essid linux-test`

`iwconfig rausb0 key 1234-5878-90 [1]`

And double check the connection condition through “iwconfig rausb0” command.

Note:

1. You can search APs through “iwlist rausb0 scanning” command.



Please use “ifconfig rausb0” command to confirm if you got IP address from the AP.

```
root@localhost:~  
檔案(E) 編輯(E) 顯示(V) 終端機(T) 分頁(B) 求助(H)  
TX packets:172 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:285029 (278.3 KiB) TX bytes:14431 (14.0 KiB)  
Interrupt:5  
  
lo  
Link encap:Local Loopback  
inet addr:127.0.0.1 Mask:255.0.0.0  
inet6 addr: ::1/128 Scope:Host  
UP LOOPBACK RUNNING MTU:16436 Metric:1  
RX packets:1489 errors:0 dropped:0 overruns:0 frame:0  
TX packets:1489 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:1576962 (1.5 MiB) TX bytes:1576962 (1.5 MiB)  
  
rausb0  
Link encap:Ethernet HWaddr 00:12:0F:58:34:3F  
inet addr:192.168.1.3 Bcast:192.168.1.255 Mask:255.255.255.0  
inet6 addr: fe80::212:eff:fe58:343f/64 Scope:Link  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
RX packets:8378 errors:0 dropped:0 overruns:0 frame:0  
TX packets:241 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:1000  
RX bytes:3518965 (3.3 MiB) TX bytes:578904 (565.3 KiB)  
  
[root@localhost ~]#
```

Open browser to access internet.



6. WPA-PSK Connection Settings

GW-US54Mini2 have build WPA support inside the driver, you just need to setup it as below

1. **iwpriv rausb0 set NetworkType=Infra**
2. **iwpriv rausb0 set AuthMode=WPA/PSK/WPA2/PSK(as your settings)**
3. **iwpriv rausb0 set EncrypType=TKIP/AES (as your settings)**
4. **iwpriv rausb0 set SSID="your AP's SSID"**
5. **iwpriv rausb0 set WPA/PSK="your WPA/PSK/WPA2/PSK's pre-share key"**
6. **iwpriv rausb0 set SSID=" your AP's SSID"**

Note:

Linux settings are case-sensitive and symbols must be the same with our configuration.