Step 4 –After the profile is saved, click the "**Activate**" button on Profile Page to active the profile.

Profile Mame	SSID	Channel	Authentication	Encryption	Network Type
PROF1	WLAN_SW	Auto	WPA-PSK	TKIP	Infrastructure
-					

⊙ Example 4:WPA/WPA2

Step 1 – Choose "WPA" or "WPA2" authentication type

Step 2 – Choose "TKIP" or "AES" encryption type

Authentication Type :	WPA	•			
Encryption :	ТКІР				
Wep Key-	1				
	·				
C Key#2 Hex	Ŧ				
C Key#3 Hex					
C Key#4 Hex	v				
* WEP 64 Bits Encryp * WEP 128 Bits Encry	ion: Please Key otion: Please Ke	in 10 HEX cł yin 26 HEX (aracters or haracters o	5 ASCII chara 13 ASCII cha	cters iracters
				C Show	Password

Step 3 –After the profile is saved, click the "**Activate**" button on Profile Page to active the profile.

Profile Name	SSID	Channel	Authentication	Encryption	Network Type
PROF1	WIAN_SW	Auto	WPA-PSK	TKIP	Infrastructure
PROF2	WPA	Auto	WPA	TKIP	Infrastructure
			1		

Step 4 – The Windows profile setting dialog is popped-up for user to modify.

WPA Wireless Network	properties	×
Connection Security		
S <u>e</u> curity type: E <u>n</u> cryption type:	WPA-Enterprise	
Ch <u>o</u> ose a network au Protected EAP (PEAI	thentication method:	
Cache user inform to this network	nation for subsequent connections	
	ОК	ancel

3.2.4 Statistics

Statistics page displays the detail counter information based on 802.11 MIB counters. This page translates the MIB counters into a format easier for user to understand. You may reset the counters to Zero by clicking "**Reset Counter**".

Ralink Wireless Utility			x
Profile Link Status Site Survey Statistics WPS Configuration	QoS About		
Transmit Statistics			
Frames Transmitted Successfully	=	1671	
Frames Transmitted Successfully After Retry(s)	=	460	
Frames Fail To Receive ACK After All Retries	=	2	
RTS Frames Successfully Receive CTS	=	0	
RTS Frames Fail To Receive CTS	=	0	
Receive Statistics			
Frames Received Successfully	=	9453	
Frames Received With CRC Error	=	32435	
Frames Dropped Due To Out-of-Resource	=	0	
Duplicate Frames Received	=	0	
		Reset Counter	
		OK Help	

[Transmit Statistics]

Frames Transmitted Successfully: Frames successfully sent

Frames Transmitted Successfully After Retry: Frames sent successfully with retry.

Frames Fail to Receive ACK After All Retries: Frames failed transmit after hitting retry limit. **RTS Frames Successfully Receive CTS:** Successfully receive CTS after sending RTS frames.

RTS Frames Fail To Receive CTS: Failed to receive CTS after sending RTS frames.

[Receive Statistics]

Frames Received Successfully: Frames received successfully.

Frames Received with CRC Error: Frames received with CRC error.

Frames Dropped Due to Out-of-Resource: Frames dropped due to resource issue.

Duplicate Frames Received: Duplicate received frames.

3.2.5 WPS Configuration

The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simply the security setup and management of Wi-Fi Networks.

ofile Link Status	Site Survey Statistic	WPS Co	nfiguration	QoS Abou	,t	
SSID	BSSID	Channel	ID	Authentic	Encryption	
						Rescan
						WPS Information
						- Pin Code
						93756716 Renew
						Config Mode
						Enrollee 💌
•		III			•	
SSID	A	Authenticatio	n	Encryption		Detail
						Connect
						Rotate
						Disconnect
						Import Profile
٠		III			•	Delete
PIN	₩PS Associate IE	: [7.5	
P <u>B</u> C	₩PS Probe IE	W	PS status is	not used		

WPS Associate IE: If the "**WPS Associate IE**" option is checked, station will send the association request with WPS IE during WPS setup.

WPS Probe IE: If the "**WPS Probe IE**" option is checked, station will send the probe request with WPS IE during WPS setup.

[Display WPS capable AP information]

The WPS capable AP information is listed in the upper frame, and the display AP's characters are SSID, BSSID, current operating channel, device password ID, authentication type, and encryption type.

Re-Scanning: Clicking "re-scan" button performs the re-scanning action.

WPS AP Information: Clicking the WPS information" button brings up the WPS capable AP information dialog.

Authentication Type: there are three type of supported authentication modes, and there are Open, Shared, WPA-PSK and WPA modes.

- Encryption Type: For Open & Shared authentication modes, the available encryption types are None and WEP. For WPA, WPA2, WPA-PSK and WPA2-PSK authentication modes, the available encryption types are TKIP and AES.
- Config Methods: This attributes contains the config methods supported and enabled by the selected Registrar.
- Device Password ID: Device Password ID indicates the method or identifies the specific password that the selected Registrar intends to use.
- Selected Registrar: Selected Registrar indicates if the user has recently activated a Registrar to add an Enrollee.
- State: This attribute is used to indicate the current configuration state. This attribute is either "Un-Configured" or "Configured".
- Version: This attribute is the specified WPS version.
- AP Setup Locked: AP Setup Locked indicates if AP has entered a setup locked state.
- UUID-E: UUID-E is the universally unique identifier (UUID) generated by the Enrollee.
- **RF-Bands:** RF Bands indicate the available RF bands.

[Configure WPS Profiles]

The user can configure WPS profile with either PIN method or PBC method.

- PIN Method:
 - Step 1 \rightarrow The Registrar enters the pin code generated by station.

Step 2 \rightarrow Click the "**PIN**" button.

PBC Method:

Step 1 \rightarrow Click the "**PBC**" button within 2 second while the Registrar clicks the button.

[Manage WPS Profiles]

The Received WPS profiles are listed in the lower frame, and the listed WPS profile attributes are SSID, MAC address, authentication type, and encryption type.

- WPS profile detail information: Selecting a profile then clicking the "Detail" button brings up the WPS profile detail information dialog.
- Connect with WPS Profile: Clicking the "Connect" button will connect to AP with the select WPS profile.
- Rotate WPS profile: If there are more than two WPS profiles, clicking the "Rotate" button will rotate to next profile and connect to AP with this profile. If the connection can't be made successfully, station will perform the WPS profile rotation repeatedly.
- Disconnect from WPS AP: Clicking the "Disconnect" button will stop the WPS

connection.

Delete WPS profile: Clicking the "**Delete**" button will delete the selected WPS profile.

3.2.6 QoS

The QoS Page of RaConfig. It involves **"WMM Enable"**, "**WMM – Power Save Enable**" and "**DLS setup Enable**".

Ralink Wireless Utility	×
Profile Link Status Site Survey Statistics WPS Configuration QoS	About
₩MM Enable	Apply
I WMM - Power Save Enable	Setting
Direct Link Setup Enable	Apply
Direct Link	
MAC Address :	
Timeout Value : 60 sec	Apply
DLS Status	
MAC Address Timeout	
	Tan
×	1 ear Down
	OK Help

⊙Configure to enable Wi-Fi Multi-Media

If you want to use "WMM – Power Save" or "Direct Link", you must enable WMM. The setting method of enabling WMM indicates as follows: Step1: Click "WMM Enable"

Step2: Click "Apply".

Profile Link Statu	is Site Survey Statistics WPS Configuration QoS About	_
	1 Enable Apply	J
Г	WMM - Power Save Enable Setting	
Г	Direct Link Setup Enable Apply	
	Direct Link	
	MAC Address :	
	Timeout Value : 60 sec Apply	
	DLS Status	
	MAC Address Timeout	
	Terr Down	~
	Tear Dow	n
	Tear Dow.	n
	Tear Dow	n
	Tear Dow	n
	Tear Dow	
	Tear Dow	n
	Tear Dow	n

Step3: Change to **"Site Survey Page"**. And add an AP that supports WMM features to a Profile. The result will look like the below figure in Profile page.

Profile Name	SSID	Channel	Authentication	Encryption	Network Typ
PROF2	WMM	Auto	Open	None	Infrastructure
-					
• L		III			

$\odot \textbf{Enable WMM} - \textbf{Power Save}$

Step1: Click "WMM – Power Save Enable". And Click "Setting..." button.

Profile Link Status Site Survey Statistics WPS Configuration	n QoS About]
VMM Enable	Apply
WMM - Power Save Enable	Setting
Direct Link Setup Enable	Apply
Direct Link	
Direct Link Setup	
Timeout Value : 60 sec	Apply
DLS Status	
MAC Address Tim	eout
	TearDown
∢	
L	
	OK Help

Step2: After clicking "Setting..." button, show "Power Save Setting" dialog. Please select which ACs you want to enable. Then click "Apply" button. The setting of enabling WMM – Power Save is successfully.

ig 💌
Apply

⊙Enable DLS (Direct Link Setup)

Ste	p1: Click	"Direct	Link Setu	o Enable".	And Click	"Apply"	button
-----	-----------	---------	-----------	------------	-----------	---------	--------

📭 Ralink Wireless Utility		
Profile Link Status Site S	Survey Statistics WPS Configuration Qo	S About
WMM Enable	Power Save Enable ink Setup Enable Link ct Link Setup C Address : eout Value : 60 sec Status	Apply Setting Apply
	MAC Address Timeout	
	4	Tear Down
		OK Help

Step2: Change to "**Site Survey Page**". And add an AP that supports DLS features to a Profile. The result will look like the below figure in Profile page.

Profile Name	SSID	Channel	Authentication	Encryption	Network Type
PROF2	WPA WLAN SW	Auto	WPA WPA-PSK	TKIP	Infrastructure
PROF3	DLS	Auto	Open	None	Infrastructure
-					
-					
Add		Delete	E	idit 🛛	Activate

The Setting of DLS indicates as follow:

1. Fill in the blanks of Direct Link with **MAC Address** of STA. The STA must conform to two conditions as follow:

Step1: Connect with the same AP that support DLS features.

Step2: Have to enable DLS.

Ralink Wireless Utility	×
Profile Link Status Site Survey Statistics WPS Configuration QoS	About
🔽 WMM Enable	Apply
☐ WMM - Power Save Enable	Setting
✓ Direct Link Setup Enable	Apply
Direct Link	
MAC Address : 00 - 0C - 43 - 25	- 73 - 18
Timeout Value : SFC sec	Apply
DLS Status	
MAC Address Timeout	
	Tear Down
I → III	
·	
	OK Help

 Timeout Value represents that it disconnect automatically after some seconds. The value is integer. The integer must be between 0~65535. It represents that it always connects if the value is zero. Default value of Timeout Value is 60 seconds

Profile Link Status Site	Survey Statistics WPS Configuration Qo	S About	
VMM Enable		Apply	
Г ₩ММ	Power Save Enable	Setting	
🔽 Direct	ink Setup Enable	Apply	
	t Link		
Dir	ect Link Setup	25 22 10	
	10 - 10 - 10 - 143 -	25 - 73 - 18	
Tir	neout Value : 🚺 sec	Apply	
	S Status		
	MAC Address Timeout		
		Tear Down	
	• [] •		

rotile Link Status Site Surv	ey Statistics WPS Configura	tion Q05 Abo	ut	
WMM Enable			Apply	
WMM - Por	ver Save Enable	5	Setting	
Direct Link	Setup Enable	-	Apply	
⊢ Direct Lin	k	-	7000	
Direct I	ink Setup			
MAC A	ddress: 00 - 0C -	43 - 25 -	73 - 18	
Timeou	t Value : 🔂 sec		Apply	
DLS St	atus			
M	AC Address	limeout		
00	-0C-43-25-73-18	60		
		100		
			Tear Down	
	III			

3. Click "Apply" button. The result will look like the below figure.

Describe "DLS Status" as follow:

- As the up figure, after configuring DLS successfully, show MAC address of the opposite side and Timeout Value of setting in "DLS Status". In "DLS Status" of the opposite side, it shows MAC address of myself and Timeout Value of setting.
- 2. Display the values of "DLS Status" to "Direct Link Setup" as follow:

Step1: In "DLS Status", select a direct link STA what you want to show its values in "Direct Link Setup".

rofile Link Status Site Survey Statistics WPS Configuration	a QoS About
VMM Enable	Apply
WMM - Power Save Enable	Setting
J Direct Link Setup Enable	Apply
Direct Link	
MAC Address :	
Timeout Value : sec	Apply
MAC Address Time 00-0C-43-25-73-18 6	eout
۲. (III.	Tear Down

alink Wireless Utility	X
Profile Link Status Site Survey Statistics WPS Configuration QoS	About
VMM Enable	Apply
WMM - Power Save Enable	Setting
✓ Direct Link Setup Enable	Apply
Direct Link	
MAC Address : Inc. Inc. Inc.	
MAC Address . 100 - 10C - 143 - 125	- //3 - 18
Timeout Value : 600 sec	Apply
DLS Status	
MAC Address Timeout	
00-00-43-25-73-18 600	
	Tear Down
۰ [ال	
	11
	OK Help

Step2: Double click. And the result will look like the below figure.

3. Disconnect Direct Link Setup as follow:

Step1: Select a direct link STA.

🔽 Ralink Wireless Utility	×
Profile Link Status Site Survey Statistics WPS Configuration QoS About	
VMM Enable Apply	
WMM - Power Save Enable Setting	
✓ Direct Link Setup Enable Apply	
Direct Link	
MAC Address Inc. Inc. Inc. Inc.	
Hine Hudeas 100 - 10C - 143 - 125 - 173 - 118	
Timeout Value : 600 sec Apply	
DLS Status	
MAC Address Timeout	
00-00-43-25-73-18 600	
Tear Down	
· · · · · · · · · · · · · · · · · · ·	
ОК	Help

rofile Link Status	Site Survey Statistics WPS Co	nfiguration QoS	About	
I ⊅ WM M I	nable		Apply	
	VMM - Power Save Enable		Setting	
ı 🟹	Direct Link Setup Enable		Apply	
ſ	Direct Link			
	Direct Link Setup			
	MAC Address : 00 - 0C	- 43 - 25	6 - 73 - 18	
	Timeout Value : 600 se	c	Apply	
	DLS Status			
	MAC Address	Timeout		
			1	
			Tear Down	
L				

Step2: Click **"Tear Down**" button. The result will look like the below figure.

3.2.7 About

In the "About", you can click the hyperlink to connect the website for the information of the wireless chipset vendor and review basic information about the Utility such as the RaConfig Version, Driver Version, EEPROM Version, IP Address, Sub Mask, and Default Gateway.

Ralink Wir	eless Utility				X
Profile Link	: Status Site Survey	Statistics WPS Co	V.RALINKTECH.COM	Noout	
	(c) Copyright 2007	Ralink Technology	, Inc. All rights reserved	l.	
	RaConfig Version :	1.0.18.0	Date :	09-14-2007	
	Driver Version :	2.0.0.0	Date :	08-23-2007	
	EEPROM Version	: 1.1	Firmware Version	n: 0.7	
	IP Address :	192.168.10.45	Phy_Address :	00-06-4F-12-34-56	
	Sub Mask :	255.255.255.0	Default Gateway :	192.168.10.1	
				ок	Help

3.2.8 How to Manage Windows Profile

Windows profile manager can be reached via connection icon on the task bar or control panel.

[via Network icon]

Step 1: Right-click connection icon on the task bar, then click "Network and Sharing Center"



Step 2: Select "Manage wireless networks"

🔘 🖓 👯 « Network and Inter	net 🔸 Network and Sharing Cente	r 🗸 🗲 Search	
Tasks View computers and devices Connect to a network <u>Manage wireless networks</u> Set up a connection or network Manage network connections	Network and Sharing Ce WINNIE-PC (This computer)	enter	View full map
Diagnose and repair	🌗 WLAN_SW (Private netwo	rk)	Customize
	Access	Local and Internet	
11	Connection	Wireless Network Connection (WLAN_SW)	View status
113	5	att Signal strength: Very good	Disconnect
1111	3 Sharing and Discovery		
1111 1	Network discovery	• On	\odot
	File sharing	© Off	$\overline{\mathbf{v}}$
	Public folder sharing	© Off	$\overline{\mathbf{S}}$
	Printer sharing	Off (no printers installed)	$\overline{\mathbf{v}}$
iee also	Password protected sharing	• On	$\overline{\mathbf{v}}$

Step 3: Right-click the mouse to bring up the profile manage menu.

1 11 4			
Metwo	ork and Internet 🔸 Manage Wireless Ne	tworks 👻 🐓 Search	Q
Manage wireles Windows tries to cor can also add or remo	is networks that use (Wireless) nect to these networks in the order lister ove network profiles.	Network Connection) d below. To change the order, drag a network up or do	wn in th <mark>e</mark> list. You
👍 Add 📼 Remove	1 Move up 🛞 Adapter properties	🚴 Profile types 🛛 💱 Network and Sharing Center	0
Networks you can view a	and modify (4)		•
abc abc	Security: WPA-Enterprise	Type: Any supported	Automatically con
	Security: WEP	Type: Any supported	Automatically con
	Security: Unsecured	Type: Any supported	Automatically con
WLAN_SW	Security: WPA-Personal	Type: Any supported	Automatically con
Re Re	roperties emove network ename ove up		
WLAN_SW	Profile name: WLAN_SW Security type: WPA-Personal Radio type: Any supported	Mode: Automatically connect	

[via Control Panel]

Step 1: Select "Control Panel" on start menu.







Step 3: Select "Manage Wireless network".

Tasks	Network and Sharing Co	enter	
View computers and devices Connect to a network <u>Manage wireless networks</u> Set up a connection or network Manage network connections Diagnose and repair	WINNIE-PC (This compute	wLAN_SW	View full map
	WLAN_SW (Private netwo	Customize	
	Access	Local and Internet	
	Connection	Wireless Network Connection (WLAN_SW)	View status
		III Signal strength: Excellent	Disconnect
	Sharing and Discovery	© On	\bigcirc
1	File sharing	e Off	
	Public folder sharing	© Off	
	Printer sharing	Off (no printers installed)	\odot
1149 27	Password protected sharing	On On	\odot
332- / /	Media sharing	© Off	\odot
1	Show me all the files and folde Show me all the shared netwo	ers I am sharing rk folders on this computer	
and the second sec			
See also			

Step 4: Right-click the mouse to bring up the profile managing menu.

Mar Wind can a	✓ and ► Cont nage wirele: lows tries to co lso add or rem	rol Panel ► Ma ss networks nnect to these n ove network pro	nage Wireless Networks that use (Wireless I etworks in the order liste files.	Network Conn d below. To chang	✓ ection) e the order, d	5 Search	down in the list. You
🔓 Add	📼 Remove	1 Move up	Adapter properties	. Profile types	Vetwor	k and Sharing Cente	r (
Networks	you can view	and modify (4)					
<u>.</u>	abc	Security: WPA-Enterprise		Type: Any supported			Automatically con
L	ccc	Se	curity: WEP	Туре	ype: Any supported		Automatically con
	1	Se	curity: Unsecured	Туре:	Any suppor	ted	Automatically con
	WLAN_SW	Se	curity: WPA-Personal	Type:	Any suppor	ted	Automatically con
3		Properties					
		Remove netwo	rk				
		Rename					
		Move up					
Ş	WLAN_SW	/ Profile name: Security type: Radio type: .	WLAN_SW WPA-Personal Any supported	Mode: Automatic	ally connect		

4. Troubleshooting

This chapter provides solutions to problems usually encountered during the installation and operation of the adapter.

1. Symptom:

The LED is Off.

Possible Remedy:

Make sure the Wireless adapter is inserted properly. Otherwise, please contact your vendor.

2. Symptom:

The LED is always on not blinking.

Possible Remedy:

Make sure that you have installed the driver from the attached CD.

3. Symptom:

The LED is blinking but the Wireless adapter icon does not appear in your icon tray.

Possible Remedy:

Make sure that you have installed the Utility from the attached CD.

4. Symptom:

The Wireless adapter is linking, but can't share files with others.

Possible Remedy:

Make sure the File and printer-sharing function is enabled.

5. Symptom:

Slow or unstable performance.

Possible Remedy:

Try to change the channel of the communicating group or move your device closer to the communicating device.

6. Symptom:

Can't find the utility icon in the taskbar when plug in the Wireless adapter.

Possible Remedy:

You could enable the function by click the icon of Start → All Programs → Ralink Utility.

7. Symptom:

No wireless signal.

Possible Remedy:

Move the antennas of the access point or wireless router into an L shape (one vertically, and one horizontally). Click on the Refresh button on the Site Survey screen. If the computer still does not see the Access Point, and then try to move your Access Point closer to the computer. Then click on the Refresh button again. If the computer still does not see the Access Point, move all things that may cause interference with the wireless signal.

8. Symptom:

If you still cannot get a wireless connection of the network.

Possible Remedy:

Step 1- Turn the computer off

- Step 2- Turn the Access Point off
- Step 3- Turn the Access Point on
- Step 4- Wait 30 seconds
- Step 5- Turn the computer back on
- Step 6- Using the Utility reconnect to the Access Point:
- Step 7- Double click on the bar graph icon in the system tray
- Step 8- Select the Site Survey Link
- Step 9- Highlight the SSID of your wireless network and click connect
- Step 10- Click OK if all the settings are correct

9. What is the IEEE 802.11g standard?

802.11g is the new IEEE standard for high-speed wireless LAN communications that provides for up to 54 Mbps data rate in the 2.4 GHz band. 802.11g is quickly becoming the next mainstream wireless LAN technology for the home, office and public networks. 802.11g defines the use of the same OFDM modulation technique specified in IEEE 802.11a for the 5 GHz frequency band and applies it in the same 2.4 GHz frequency band as IEEE 802.11b. The 802.11g standard requires backward compatibility with 802.11b.

The standard specifically calls for:

A. A new physically layer for the 802.11 Medium Access Control (MAC) in the 2.4 GHz frequency band, know as the extended rate PHY(ERP(. The ERP adds OFDM as a mandatory new coding scheme for 6, 12, and 24 Mbps (mandatory speeds), and 18, 36, 48, 54 Mbps (optional speeds). The ERP includes the modulation schemes found in 802.11b including CCK for 11 and 5.5 Mbps and Barker code modulation for 2 and 1 Mbps.

B. A protection mechanism called RTS.CTS that governs how 802.11g devices and 802.11b devices interoperate.

10. What does IEEE 802.11 feature support?

The product supports the following IEEE 802.11 functions:

- -- CSMA/CA Plus Acknowledge Protocol
- -- Multi-Channel Roaming
- -- Automatic Rate Selection
- -- RTS/CTS Feature
- -- Fragmentation
- -- Power Management

11. What is Ad-Hoc?

An Ad-Hoc integrated wireless LAN is a group of computers, each has a Wireless LAN adapter, Connected as an independent wireless LAN. Ad-Hoc wireless LAN is applicable at a departmental scale for a branch or SOHO ope ration.

12. What is Infrastructure?

An integrated wireless and wireless and wired LAN is called an Infrastructure configuration. Infrastructure is applicable to enterprise scale for wireless access to central database, or wireless application for mobile workers.

13. What is BSS ID?

A specific Ad hoc LAN is called a Basic Service Set (BSS). Computers in a BSS must be configured with the same BSS ID.

14. What is WEP?

WEP is Wired Equivalent Privacy, a data privacy mechanism based on a 40 bit shared key algorithm, as described in the IEEE 802.11 standard.

15. What is TKIP?

TKIP is a quick-fix method to quickly overcome the inherent weaknesses in WEP security, especially the reuse of encryption keys. TKIP is involved in the IEEE 802.11i WLAN security standard, and the specification might be officially released by early 2003.

16. What is AES?

AES (Advanced Encryption Standard), a chip-based security, has been developed to ensure the highest degree of security and authenticity for digital information, wherever and however communicated or stored, while making more efficient use if hardware and/or software than previous encryption standards. It is also included in IEEE 802.11i standard. Compare with AES, TKIP is a temporary protocol for replacing WEP security until manufacturers implement AES at the hardware level.

17. Would the information be intercepted while transmitting on air?

WLAN features two-fold protection in security. On the hardware side, as with Direct Sequence Spread Spectrum technology, it has the inherent security feature of scrambling. On the software side, WLAN series offer the encryption function (WEP) to enhance security and Access Control. Users can set it up depending upon their needs.

If you have any troubles to configure or setup this WLAN adapter, please feel free to contact us.

Before contacting us, make sure collect following information. Submit complete detailed information of your problem will help us to provide you accurate answers.

Model Name: Serial Number: PC Settings: Other:

86

EU Declaration of Conformity and Restrictions

Hereby, PRO-NETS Technology Corp., declares that this equipment complies with the essential requirements and other relevant provisions of Directive 1999/5/EC.

This equipment is marked with the CE0984 \oplus symbol and can be used throughout the European community.

This indicates compliance with the R&TTE Directive 1999/5/EC and meets the relevant parts of following technical specifications:

EN 300 328: Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission Systems; Data transmission equipment operating in the 2,4GHz ISM band and using spread spectrum modulation techniques; Harmonized EN covering essential requirements under article 3.2 of the R&TTE directive.

EN 301 489-17: Electromagnetic Compatibility and Radio Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17 Specific Conditions for Wideband Data and HIPERLAN Equipment.

EN 60950: Safety of Information Technology Equipment.

EN 50385: Product standard to demonstrate the compliances of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields.

Marking by the symbol $\, \mathbb{O} \,$ indicates that usage restrictions apply.

France - 2.4GHz for Metropolitan France:

In all Metropolitan départements, wireless LAN frequencies can be used under the following conditions, either for public or private use:

 Indoor use: maximum power (EIRP*) of 100 mW for the entire 2400-2483.5 MHz frequency band

• Outdoor use: maximum power (EIRP*) of 100 mW for the 2400-2454 MHz band and with maximum power (EIRP*) of 10 mW for the 2454-2483 MHz band

Caution: Exposure to Radio Frequency Radiation.

To comply with RF exposure compliance requirements, for mobile configurations, a separation distance of at least 20 cm must be maintained between the antenna of this device and all persons.

This device is intended for use in the following European Community countries:

Austria
Denmark
Germany
Italy
Lithuania
Portugal
Slovakia

Belgium Estonia Greece Iceland Malta Poland Slovenia Czech Republic France Hungary Luxemburg Norway Spain United Kingdom Cyprus Finland Ireland Latvia Netherlands Sweden