

Introduction: Broadcom BCM943224PCIEBT PCI-E Mini Card User's Guide

Before you begin Things you should know BCM943224PCIEBT network

Before you begin

Obtain the following information from your network administrator (if you are a home user, obtain this information from the person that installed your wireless access point):

- Network names (SSID) of the specific wireless networks that you want to connect to.
- WEP (Wired Equivalent Privacy) key information (if any) for the networks you want to connect to.
- For Microsoft® Windows® networking, your customer name and workgroup name.
- For your network account, your user name and password.
- Your IP address (if not using a DHCP server)

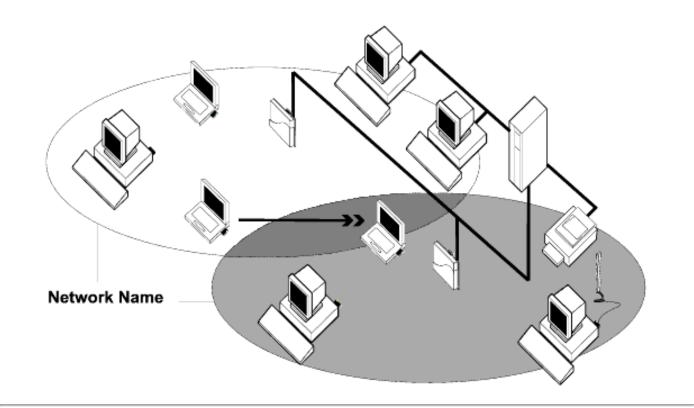
Things you should know

When you start your computer, your Broadcom BCM943224PCIEBT PCI-E Mini card detects certain wireless networks that are within range. Before you can connect to these and other wireless networks, you must configure a profile for each network using the information you obtained from your network administrator.

WEP is a security protocol for wireless local area networks (defined in the IEEE 802.11g standard) that encrypts data sent over radio waves. The use of the WEP key is optional and can be enabled or disabled. If the network you are connecting to has enabled WEP, you must also enable WEP in the network profile and set the WEP key to match the WEP key used by the network. Otherwise, you cannot connect to the network.

Broadcom BCM943224PCIEBT network

The Broadcom BCM943224PCIEBT solution allows you to make a wireless connection to a network, as illustrated below.



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Using the Broadcom Wireless Utility: Broadcom AirForce[™] 54g[™] and Intensi-fi[™] Wireless Network Adapter User Guide

- Overview
- Utility Components

Overview

The Broadcom Wireless Utility enables you to do the following network tasks:

- Manage your wireless networks and create network connection profiles (Wireless Networks tab)
- Connect to available networks (<u>utility icon</u> in notification area)
- Get information about the network status and signal and noise of your network connection (<u>Link</u> Status tab)
- View current and accumulated statistics (Statistics tab)
- Find out which broadcasting networks are in range and search for nonbroadcasting networks (<u>Site</u> <u>Monitor</u> tab)
- Run tests on the wireless network adapter (Diagnostics tab)
- Get date and version information about the utility, and software, hardware, and location details about your wireless network adapter (<u>Information</u> tab)
- Manually add or delete trusted servers and enable the manual acceptance or rejection of autoprovisioning and A-ID group changes (<u>Wireless Networks</u> tab)
- Manually import EAP-FAST PACs (Wireless Networks tab)

In the utility, you can open Wireless Network Wizard to connect to a basic network or create an ad hoc network, or you can open the Wireless Network Connection Settings tool to connect to an advanced network. To do any of the other tasks, click the tab that is associated with the described task.

To start using the utility, right-click the utility icon \Re in the notification area, and then click **Open Utility**. If the icon is not available, open **Broadcom Wireless Utility** in Control Panel.



NOTE: The utility icon may not appear exactly as shown here. See "<u>Table 1. Signal</u> <u>Strength Indicated by the Broadcom Wireless Utility Icon</u>."

Utility Components

Utility components include the utility icon in the notification area, the six utility tabs, and Wireless Network Connection Settings.

Utility Icon

To do any of the following tasks or operations, right-click the utility icon, and then click the appropriate item.

- Open the on-line Broadcom AirForce[™] 54g[™] and Intensi-fi[™] Wireless Network Adapter User Guide (Help Files)
- Open About WLAN Card Utility to view links to Broadcom and Broadcom Customer Support websites and to view the version and date of the utility (About)
- Hide the utility icon (Hide Tray Icon)
- Disable or enable the radio (Disable/Enable Radio)
- Connect to any of the networks for which you have created a connection profile and are within range (Connect To)
- Open the utility to the Wireless Networks tab (Open Utility)
- Open the utility to the Link Status tab to view information about the connection (Status)
- Display a log of your wireless network events (Display Log)

Wireless Networks Tab

The **Wireless Networks** tab has tools that enable you to do the following:

- Use the utility to manage your wireless networks
- Add a network connection profile
- Edit or remove a network connection profile
- Change the order in which profiles are listed under Preferred network connections
- · Connect to any listed network without changing its order in the list
- Disable or enable the radio (Disable/Enable Radio)
- Show or hide the utility icon in the notification area
- Choose which type of network to access
- Lock or unlock a preferred network connection profile
- Save your wireless network connection profiles as a WPN file
- Import a WPN file
- Manually add or delete trusted servers and enable the manual acceptance or rejection of autoprovisioning and A-ID group changes
- Manually import EAP-FAST PACS

On the **Add** menu, you can use either the wireless network wizard that is available from Broadcom Wireless Utility (see <u>Connecting to a Basic Network or Creating an Ad Hoc Network Using the Wireless</u> <u>Network Wizard</u>") or the utility (see "<u>Connecting to an Advanced Network Using the Broadcom Wireless</u> <u>Utility</u>") to add a network connection profile.

To use the utility to manage your wireless networks, select the **Let this tool manage your wireless networks** check box.

To add a network connection profile, click the **Add** arrow, and then click either **Use Wizard (basic network)** or **Use Utility (advanced network)**.

To edit or remove a network connection profile, right-click the network name, and then click either **Edit** or **Remove**.

To change the order in which profiles are listed under **Preferred network connections**, click the network name, and then click either the up arrow or down arrow.

To connect to any listed network without changing its order in the list, right-click the network name, and then click **Connect**.

To disable the radio, clear the **Enable radio** check box. To enable the radio, select the **Enable radio** check box.

To hide the utility icon \mathcal{M} , clear the **Show utility icon** check box. To show the icon, select the **Show utility icon** check box.

To choose the type of network to access, click the **Options** arrow, and then click **Advanced**.

To lock or unlock a preferred network connection profile, right-click anywhere in the row that lists the network name, and then click **Lock** or **Unlock**, as appropriate.



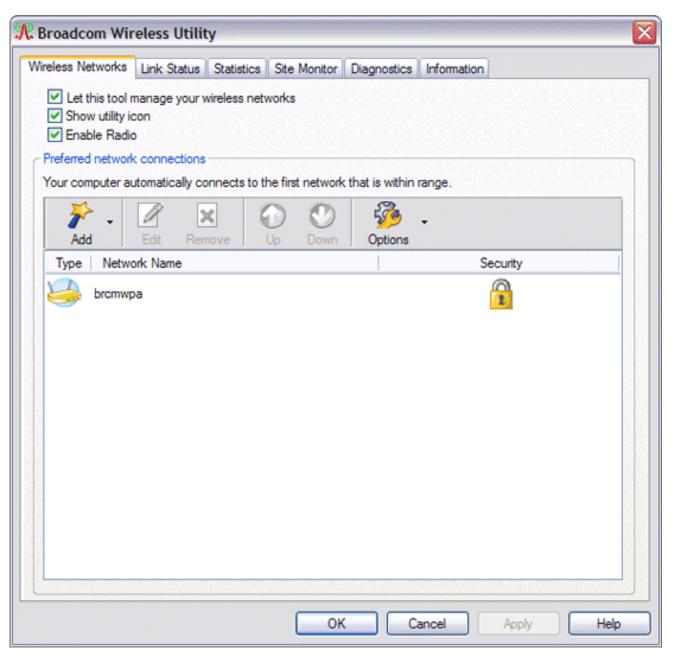
NOTE: You must have system or administrator rights to be able to lock or unlock a profile.

To save your wireless network connection profiles to a WPN file, click the **Options** arrow, and then click **Export** (see "<u>Saving Preferred Network Connection Settings to a File</u>" in "Connecting to an Advanced Network Using the Broadcom Wireless Utility."

To import a WPN file, click the **Options** arrow, and then click **Import** (see "<u>Importing a Preferred Network</u> <u>Connection Profiles File</u>" in "Connecting to an Advanced Network Using the Broadcom Wireless Utility."

Click **Apply** or **OK** after you change any of the settings for the change to take effect.

Using the Broadcom Wireless Utility: Broadcom AirForceTM 54gTM and Intensi-fiTM Wireless Network Adapter User Guide



For networks that use the EAP-FAST authentication method, the Wireless WLAN Card Utility automatically adds trusted servers to the trust list and accepts <u>auto-provisioning</u> and <u>AID</u> (A-ID) group changes by default. The utility also enables you to import a <u>Protected Access Credential</u> (PAC). From the utility, you can also manually add or delete trusted servers, enable the manual acceptance or rejection of auto-provisioning and A-ID group changes, or import or delete PACS, as described in the following instructions. In general, you should use the default settings. Therefore, check with the network administrator before you make any changes.

To manually add a trusted server to the trust list

- 1. Open Broadcom Wireless Utility.
- 2. From the **Wireless Networks** tab, click **Options**, point to **Cisco Compatible Extensions**, and then click **Administrator Settings**.
- 3. Click Add.
- 4. Type the A-ID friendly name of the trusted server in the space provided, and then click **OK**.

To delete a trusted server from the trust list

- 1. Open Broadcom Wireless Utility.
- 2. From the **Wireless Networks** tab, click **Options**, point to **Cisco Compatible Extensions**, and then click **Administrator Settings**.
- 3. In the **Trust list (A-ID)**, click the name of the trusted server you want to delete, and then click **Delete**.

To change the default settings for administering Cisco Compatible Extensions

- 1. Open Broadcom Wireless Utility.
- 2. From the **Wireless Networks** tab, click **Options**, point to **Cisco Compatible Extensions**, and then click **Administrator Settings**.
- 3. Clear the **Disable auto-provision prompt** check box to enable manual acceptance or rejection.
- Clear the **Disable A-ID group change prompt** check box to enable manual acceptance or rejection.
- 5. Select the **Auto-provision PAC only once** check box to auto-provision a Protected Access Credential (PAC) only once.

To import or remove an EAP-FAST PAC

- 1. Open Broadcom Wireless Utility.
- 2. From the **Wireless Networks** tab, click **Options**, point to **Cisco Compatible Extensions**, and then click **Manage PACs**.
- 3. To import a PAC: in Protected Access Credentials, click **Add**, and then follow the on-screen instructions.

NOTE: The PAC is password protected, so you must know the password to be able to import the PAC.

-or-

To remove a PAC: click anywhere in the row that lists the PAC, and then click **Remove**.

Link Status

Network status and signal and noise information about your network connection is displayed on the Link Status tab.

MOTES:

- For IEEE 802.11n connections, speed is indicated by an MCS value.
- <u>Radio Stream</u> information is provided only for IEEE 802.11n connections.
- Click anywhere in the **Signal & noise history** box to change the type of history being displayed. Successive clicks change the type from both signal and noise, to noise only, to signal only, and back to both signal and noise.

Vireless Networks Link Status Sta	tistics Site Monitor Diagnostics Information
Network status	
Connection status:	Connected
Encryption type:	TKIP
Network name (SSID):	brcmwpa
Connection type:	Infrastructure
Speed:	54.0 Mbps
Channel:	6 (2.4 Ghz)
Streams:	[1 2 3 4] × [1 2 3 4]
AP MAC address:	00:16:C7:43:53:00
Gateway IP address:	10.252.56.1
Client MAC address:	00:90:4B:CD:71:D6
Client IP address:	10.252.56.143
Client IPv6 address:	
Capabilities:	
Cignal & noise history	C Signal & noise
	-54 dBm -94 dBm

The status of your network connection is also indicated by the appearance of the utility icon \mathcal{M} . The number and color of the radio waves indicates the strength or weakness of the signal (see <u>Table 1. Signal</u> <u>Strength Indicated by the Broadcom Wireless Utility Icon</u> for details).

To view the network name (SSID), speed, signal strength rating, connection status, and the client IP address of the network connection, move your mouse pointer over the utility icon.

NOTE: On computers running Windows XP, you also can view the SSID, speed, signal strength rating, and connection status by moving your mouse pointer over the Windows **Wireless Network Connection** icon in the notification area.

Table 1. Signal Strength Indicated by the Broadcom Wireless Utility Icon

Icon Appearance	Indicated Received Signal Strength
R	The signal strength is very good or excellent .
R	The signal strength is weak . See <u>Troubleshooting</u> for suggested action.
R	No signal is being received. See <u>Troubleshooting</u> for probable causes and suggested action.
Л	The radio is disabled or switched off. See <u>Troubleshooting</u> for suggested action.

Statistics

On the Statistics tab under Current, the following current statistics are shown:

- Network name (SSID)
- Connection time
- Packets sent
- Packets received
- Sent packets lost
- Received packets lost
- Total packets lost (%)

Under Accumulated, the following accumulated statistics are shown:

- Packets sent
- Packets received
- Sent packets lost
- Received packets lost

Using the Broadcom Wireless Utility: Broadcom AirForceTM 54gTM and Intensi-fiTM Wireless Network Adapter User Guide

Vireless Networks Link Status Statistics	Site Monitor Diagnostics Information
Current	
Network name (SSID):	HaimNet
Connection time:	20:20
Packets sent:	6213
Packets received:	6107
Sent packets lost:	0
Received packets lost:	0
Total packets lost (%):	0%
	Clear
Accumulated	
Packets sent:	6213
Packets received:	6107
Sent packets lost:	0
Received packets lost:	0
	OK Cancel Apply

Site Monitor

Basic Site Monitor

On the Site Monitor tab, the basic Site Monitor displays information about <u>wireless routers/APs</u> and <u>ad hoc</u> <u>networks</u> that are within range. To sort the list, click the column heading that shows the characteristic you want to sort by. For example, to sort by signal strength, click **Signal**.

To view information about a particular wireless router/AP or ad hoc network, click anywhere in the row that lists the wireless router/AP or ad hoc network. The network information is shown under Selected Network. To view or change the network connection settings for a particular wireless router/AP or ad hoc network, right-click anywhere in the row that lists the wireless router/AP or ad hoc network, and then click **Edit**—if you have not yet created a network connection profile for that particular wireless router/AP or ad hoc network and want to do so, click **Add**.

To see the information elements for a listed AP or ad hoc network, right-click anywhere in the row that lists the AP or ad hoc network, and then click **Show Information Elements**.



- Nonbroadcasting networks are labeled (nonbroadcasting) under Network Name.
- The network performance may be degraded while Site Monitor is displaying nonbroadcasting APs to which you are not currently connected.
- The symbols under AP Band indicate IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, or IEEE 802.11n operation.

To see more detailed information about a particular wireless router/AP or ad hoc network, click anywhere in the row that lists the wireless router/AP or ad hoc network, and then click **Advanced**.

	lcom Wireless U Networks Link Sta		stics Site M	lonitor Dia	gnostics	nformation	
				Freeze			Advanced
Туре	Network Name	Security	802.11	Speed	Channel	⇒ Signal	
3	brcmwpa	8	00	54	6		
4	brcmwpa	<u> </u>	00	54	11		
2	UCInet Mobile		09	11	11	· · · · · · · · · · · · · · ·	
-	la_wireless	8	00	54	6		
4	brcmwpa	8	00	54	1		
4	nerf	R	00	54	6		
-	brcmwpa	8	00	54	6		
2	linksys		09	54	11		
	ted Network						
	work address						
Netv							
Netv	encryption		•				

Advanced Site Monitor

To save the activity log to a file, click the **Options** arrow, and then click **Start Log**.

You can adjust the time interval between scans by clicking the **Options** arrow, and then clicking either one of the preset values or clicking **Customize** to specify a different time interval.

NOTE: The network performance may be degraded while Site Monitor is displaying nonbroadcasting networks to which you are not currently connected.

To view detailed network information for a single <u>nonbroadcasting network</u>, type *the network name* in the **Look for** box, and then click **Find**.

To reset the site monitor to the broadcasting networks, click **Clear**.

Advance	Advanced Site Monitor						
		Look for:		Find Clear	Options -		
Туре	Network Name	AP MAC	Channel	AP Band	Signal (dBm)	Noise (dBm)	SNR (dB)
14	brcmwpa	00:16:C7:43:53:00	6	09	-58	-95	37
14	bremwpa	00:16:C8:66:AA:80	11	00	-65	-95	30
146	brcmwpa	00:16:C8:66:A0:90	1	09 09	-89	-95	6
14	brcmwpa	00:16:C8:9B:81:70	6	09	-91	-95	4
						OK	Help

Diagnostics

On the **Diagnostics** tab, you can run a number of tests to determine if your wireless network adapter is functioning properly. Select the tests you want to run, and then click **Run**. For information about an individual test, look under **Information** before you click **Run**. To see the test results, look under **Information** after you click **Run**.



NOTE: The network connection is lost when you run the tests. When the test run is over, your network connection is automatically reestablished.

Also, you can view a log of your wireless network events. To do so, click **Log**.

Examples of wireless network events that are logged include:

- Initiation of user session
- Connecting to a network
- Disconnecting from current network
- Authentication mode being used
- Driver status
- Supplicant status
- New wireless device available
- Initializing wireless state machine
- Wireless utility is managing this adapter
- Wireless utility is not managing this adapter

Broadcom Wireless Utility	
Vireless Networks Link Status Statistics Site Monitor Diagnostics Information	
Synopsis Results	
Control Registers SPROM Format Validation Memory	Select All
Interrupt DMA and Loopback	Clear All
	Stop
	Run
Information These tests determine if your WLAN IEEE 802.11 wireless networking adapter is functioning properly. If any of these tests fail, the WLAN IEEE 802.11 adapter may not be functioning properly, and you should contact your hardware provider.	Dump
	Log

If your Broadcom 802.11 Network Adapter fails any of the diagnostics tests, go to <u>http://www.broadcom.</u> <u>com/</u> for technical support.

Information

The following information is displayed on the **Information** tab:

- Software details
- Hardware details
- Location details (shows the country for which the driver is installed and the channels supported for that location)

Broadcom Wireless Utility		
Wireless Networks Link Status Sta	tistics Site Monitor Diagnostics In	formation
Wireless Configuration Utility Copyright (C) 2006, Broadcom Corp.		BROADCOM
Software details		
Software version:	4.80.9.2	Apr 24, 2006
Driver version:	4.80.9.1	Apr 19, 2006
Supplicant version:	4.80.9.2	Apr 24, 2006
- Hardware details		
Board:	Dell Wireless 1350 WLA	N PC Card Rev 4.1
Chipset:	BCM4306 / BCM2050	
MAC address:	00:90:4B:CD:71:D6	
CLocation details		
Location:	United States	
Channel:	1, 2, 3, 4, 5, 6, 7, 8, 9, 10), 11
	OK Cano	xel Apply Help

Wireless Network Connection Settings

The Wireless Network Connection Settings component is intended for use by advanced users or network administrators. You can use Wireless Network Connection Settings to create a connection profile for an advanced infrastructure network, a basic infrastructure network, or an ad hoc network (see " <u>Connecting to</u> <u>an Advanced Network Using the Broadcom Wireless Utility</u>").

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Using the Broadcom BT Utility: Quick Start Guide

Step 1: Installing the Software

NOTE: This installation is required before you insert the module into the USB port of your computer.

1. Insert the Bluetooth USB Module installation compact disc (CD) into the CD-ROM or DVD drive of your computer.

2. If the Main Menu screen appears automatically, select Install software and click OK. If the Main Menu screen does not appear automatically, click Start, click Run, type x:\setup.exe (where x is the CD-ROM or DVD drive letter of your computer), and click OK.

3. Click Next, click Finish, and then restart your computer.

4. Right-click the Bluetooth icon in the taskbar notification area (system tray) and click Start Using Bluetooth. Follow the instructions provided by the Initial Bluetooth Configuration Wizard.

Step 2: Inserting the Module

Make sure that the Bluetooth USB Module is properly inserted inside your computer. If you started at **Step 1: Installing the Software**

The **Found New Hardware Wizard** detects and installs the device. When the installation is finished, you are ready to begin using the Bluetooth features of this computer.

If you skipped **Step 1: Installing the Software**, you are ready to begin using the Bluetooth features of this computer.

NOTE: Before you begin, however, please review the Bluetooth USB Module User's Guide. This document provides important information and instructions that will help you do the things you want to do with your Bluetooth enabled computer.

Glossary

Authentication A Bluetooth security feature that is used to verify identity; it requires a Bluetooth PIN Code from the remote device.

Authorization A Yes-or-No Bluetooth security feature that requires operator intervention to avoid having the connection time out and fail.

Bluetooth device Bluetooth enabled hardware such as a computer, printer, fax, mouse, keyboard, cell phone, headset, or PDA.

Regulatory Statements for BCM943224PCIEBT

USA-Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna

-Increase the distance between the equipment and the receiver.

-Connect the equipment to outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Caution: Exposure to Radio Frequency Radiation.

To comply with FCC 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 must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION

This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range.

FCC requires this product to be used indoors for frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

Host product must be labeled with "Contains FCC ID: QDS-BRCM1047".

Canada – Industry Canada (IC)

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device."

L ' utilisation de ce dispositif est autorisée seulement aux conditions suivantes : (1) il ne doit pas produire de brouillage et (2) l' utilisateur du dispositif doit étre prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

Caution:

This device is restricted to indoor use due to its operation in the 5.15 to 5.25 GHz frequency range. Industry Canada requires this product to be used indoors for frequency range 5.15 to 5.25 GHz to reduce the potential for harmful interference to co-channel Mobile Satellite systems.

High power radars are allocated as primary users of the 5.25 to 5.35 GHz and 5.65 to 5.85 GHz bands. These radar stations can cause interference with and/or damage this device.

Caution: Exposure to Radio Frequency Radiation.

To comply with RSS 102 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 must not be co-located or operating in conjunction with any other antenna or transmitter.

This device has been designed to operate with the antennas listed below, and having a maximum gain of 4.6 dBi @ 2.4GHz and 3.92dBi@5GHz. Antennas not included in this list or having a gain greater than 4.6 dBi @ 2.4GHz and 3.92 dBi@5GHz are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

Europe—EU Declaration of Conformity and Restrictions

Hereby, Broadcom 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 $\mathbf{CE0984} \cup$ 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 301 893 - Broadband Radio Access Networks (BRAN); 5 GHz high performance RLAN; Harmonized EN covering essential requirements of 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 62311: 2008– Assessment of electronic and electrical equipment related to human exposure restrictions

for electromagnetic fields (0 Hz - 300 GHz)

Marking by the symbol \bigcirc 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:

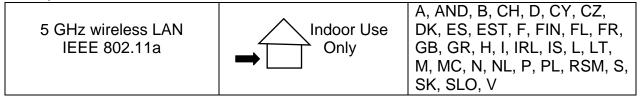
· Indoor use: maximum power (EIRP*) of 100 mW for the entire 2400-2483.5 MHz frequency band

· 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

802.11a Restrictions:

This product is for indoor use only when using channels 36, 40, 44, 48, 52, 56, 60, or 64 (5150–5350 MHz).
DFS and TPC must remain enabled to ensure product compliance with EC regulations.
To ensure compliance with local regulations, be sure to select the country in which the access point in installed.

- This product can be used as shown in the table below:



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.

Taiwan NCC warning statement

低功率電波輻性電機管理辦法

第十二條經型式認證合格之低功率射頻電機,非經許可,公司、商號或使 用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發 現有干擾現象時,應立即停用,並改善至無干擾時方得繼續使用。 前項合法通信,指依電信規定作業之無線電信。低功率射頻電機須忍受合法通信 或工業、科學及醫療用電波輻射性電機設備之干擾。

在5.25G~5.35G頻帶內操作之無線資訊傳輸設備僅適於室內使用

Translation:

Article 12

Without permission granted, the frequency change, transmitting power enhance or alter of original design characteristic as well as function by company, enterprise, or user for approved Low-power radio frequency devices is not allowed.

Article 14

Low-power radio-frequency devices shall not influence aircraft security and interfere legal communications; If found, shall cease operating immediately until no interference is achieved.

Above mentioned Legal Communications is defined as radio communications operation follows Telecommunications Act. Low-power radio-frequency devices must susceptible with the interference from legal communications, ISM radio wave radiated devices.

Radio devices using 5.25-5.35GHz bands are restricted to indoor use only.

Appendix:

模組認證合格標簽 (ID):

" CCXXxxLPyyyZz "

如果使用本模組之平台,無法在外部看見審驗合格標籤時,應在該 平台的外部明顯標示

"內含射頻模 ₩ CCXXxxLPyyyZz".