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Regulatory notes and statements

Wireless LAN, Health and Authorization for use

Radio frequency electromagnetic energy is emitted from Wireless LAN devices. The energy levels of these emissions however are far much less than the electromagnetic energy emissions from wireless devices like for example mobile phones. Wireless LAN devices are safe for use frequency safety standards and recommendations. The use of Wireless LAN devices may be restricted in some situations or environments for example:

·On board of airplanes, or

·In an explosive environment, or

·In case the interference risk to other devices or services is perceived or identified as harmful

In case the policy regarding the use of Wireless LAN devices in specific organizations or environments (e.g. airports, hospitals, chemical/oil/gas industrial plants, private buildings etc.) is not clear, please ask for authorization to use these devices prior to operating the equipment.

Regulatory Information/disclaimers

Installation and use of this Wireless LAN device must be in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The Manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, of the substitution or attachment. Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from failing to comply with these guidelines.

USA-FCC (Federal Communications Commission) statement

This device complies with Part 15 of FCC Rules.

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.

FCC Radio Frequency Exposure statement

This Wireless LAN radio device has been evaluated under FCC Bulletin OET 65 and found compliant to the requirements as set forth in CFR 47 Sections 2.1091, 2.1093, and 15.247 (b) (4) addressing RF Exposure from radio frequency devices. The radiated output power of this Wireless LAN device is far below the FCC radio frequency exposure limits. Nevertheless, this device shall be used in such a manner that the potential for human contact during normal operation is minimized.

When nearby persons has to be kept to ensure RF exposure compliance, in order to comply with RF exposure limits established in the ANSI C95.1 standards, the distance between the antennas and the user should not be less than 20 cm.

FCC Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the 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 turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- 1. Reorient or relocate the receiving antenna.
- 2. Increase the distance between the equipment and the receiver.

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

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

Export restrictions

This product or software contains encryption code that may not be exported or transferred from the US of Canada without an approved US Department of Commerce export license.

Safety Information

Your device contains a low power transmitter. When device is transmitted it sends out radio frequency (RF) signal.

CAUTION: To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60950 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility – Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1, EN 301 489-17 and EN 55024 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328-2 has been conducted. These are considered relevant and sufficient.



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INTRODUCTION

Congratulations on your purchase of this IEEE 802.11g Wireless PCI Adapter.

This manual helps to get familiar with the Wireless PCI Adapter. This manual contains detailed instructions in operation of this product. Please keep this manual for future reference.

With a Wireless (IEEE 802.11g) PCI Adapter, a computer or a station can communicate with another computer in a wireless way. Easy-to-use utilities are bundled with Wireless PCI Adapter for configuration, monitoring, and diagnosis purposes.

Wireless PCI Adapter can wirelessly transmit and receive data, minimizing the need for wired connections, at a speed of up to eleven megabit per second. With Wireless PCI Adapter, you can locate your PC or station wherever you want without wires and cables.

Wireless PCI Adapter provides users with an access to real-time information anywhere in their organization. The mobility provides productivity and service, which are not available under wired networks. The Wireless PCI Adapter configuration is easy to change from peer-to-peer networks, suitable for a small number of users, to full infrastructure networks of thousands of users that allow roaming around a broad area.

Overview of this User's Guide

Introduction: Describes the Wireless PCI Adapter.

Unpacking and Setup: Helps you get started with the basic installation of the Wireless PCI Adapter.

Hardware Installation: Describes the LED indicators of the Adapter.

Software Installation: Tells how to setup the driver and the utility setting.

Technical Specifications: Lists the technical (general, physical and environmental) specifications of the Wireless PCI Adapter.

UNPACKING AND SETUP

This chapter provides unpacking and setup information for the Wireless PCI Adapter.

Unpacking

Open the box of the Wireless PCI Adapter and carefully unpack it. The box should contain the following items:

- One 802.11g Wireless PCI Adapter
- One Driver & Utility CD-ROM
- One Quick Installation Guide

If any item is found missing or damaged, please contact your local reseller for replacement.

Setup

The setup of the Wireless PCI Adapter can be performed using the following steps:

- Visually inspect the PCI Adapter and make sure that it is fully plugged in to the PC's PCI slot.
- Make sure that there is a well environment that there is no much intrusion to have a better connection.

HARDWARE INSTALLATION

LED Indicator

LNK/ACT (Link/Activity)

The LNK indicator indicates green when the Wireless PCI Adapter is connected to a network successfully. Otherwise the LNK indicator blinks green continuously whiles the Wireless PCI Adapter is scanning the wireless devices or transmitting data.

Check the installation

- 1. Shut down the computer, unplugs its power cord, and remove the chassis cover.
- 2. Insert the contact edge of the Wireless PCI Adapter into the connector of any available PCI Bus slot. Press the card firmly into the connector such that the card's contacts are fully seated in the PCI slot connector.
- 3. Install the bracket screw and secure the card to the computer chassis.
- 4. Cover the computer's chassis.
- 5. Switch computer power on. The computer will automatically activate the newly installed driver and utility the Wireless PCI Adapter.

SOFTWARE INSTALLATION

This section will lead you to install the driver and utility of the Wireless PCI Adapter.

Windows 98(SE)/ME/2000/XP Utility and Driver Installation

1. Insert the Wireless PCI Adapter Driver & Utility CD-ROM into computer's CD-ROM Drive and it will automatically run a setup menu and install the driver and the utility. In some specific setting on Windows system, you may need to proceed the software manually, go to your Windows Start menu and choose *Run*, type "D:\Autorun.exe" in the dialog box (D:\ will depend on where your CD-ROM drive is located) and click **OK**.



- 2. The InstallShield Wizard screen will appear. Click **Install Utility** button to continue.
- 3. The installation program will help you to install the Wireless Cardbus utility.

Be noted that the Windows XP have its own Wireless Utility; you can either use the utility of Windows XP or the provided utility.

4. After finish the installation, plugged in the Wireless PCI Adapter, the operating system will detect the "New Hardware" and driver installation window will appear automatically. Follow the installation steps and direct Windows to search the driver in the CD-ROM directory path D:\Driver\ to install the driver (assuming D: is the drive letter of the CD-ROM drive).

Directory paths:

Windows 98(SE): D:\Driver\Windows 98

Windows ME: D:\Driver\Windows ME

Windows 2000: D:\Driver\Windows 2000

Windows XP: D:\Driver\Windows XP

Note: for Win 98(SE)/ME, the "found new hardware wizard" window appears. Select "automatic search the driver...", "specify a location" and choose the driver path as shown above, click "Next", click "Finish", and "Yes" to restart the computer.

5. After finish the driver installation, you will see the icon on the Windows task bar.



When the icon in the toolbar represent in green color, it is properly connected to the network and if it represent in red color, then it is not connected to the network.

Wireless Utility Setting

With the Wireless PCI Adapter utility, users can configure all the functions provided by the Wireless Monitor Utility. Double-click the utility icon that appears in the taskbar.

The Wireless Monitor Utility includes seven tabs: Status, Configuration, Advanced, Profile, Network, Statistics and About.

Status

The Status screen shows you the status of the PCI Adapter, it shows that where the device is connected to, the Network mode, the Channel, the transmit rate and the encryption mode.

🚊 Wireless Configurat	ion Utility	×
Status Configuration	Advanced Profile Network Statistics About	l,
Connected To:	PM : 00-00-00-01-00-01	
Network Mode:	Infrastructure	
Channel:	1	
Transmit Rate:	11 Mbps	
Encryption:	64-bit WEP	
Data Transmitted:	7659 Data Received: 7355	
Signal Strength:	84 %	
Link Quality:	91 %	
	OK Cancel Apply	

There is another dialog box showing the data transmitted and data received. The two signal lines show the Signal Strength and the Link Quality of the device.

Configuration

The Configuration function helps you to configure the Network and the Security.

	1		HW.31	
Status	Configuration	Advanced	Profile Network	Statistics About
Networ	k			
Netv	work Mode:	Infrastructu	re (Access Point)	•
Netv	work SSID:	IntelAP		-
Cha	nnel:	3		~
	Authentication Default Key : Key Length:	Mode :	Auto Key 1 40 / 64 Bit	- - -
	Key Format: WEP-Key :		Hex	-

Network: the setting of the Network mode, the SSID and the Channels.

Network Mode:

If you want to connect with an Access Point, please set to "Infrastructure" mode. If you have more stations and just want to set them as local network, please set the mode to "Ad-Hoc" mode.

Network SSID:

The SSID differentiates one Wireless LAN group name from another; so all access points and all devices attempting to connect to a specific Wireless LAN group name must use the same SSID. A device will not be permitted to join the BSS unless it can provide the unique SSID. If the SSID parameter is "ANY", it will detect the strongest signal of the wireless station.

➤ Channel:

It shows radio channel numbers that used for Wireless LAN networking.

The channel number can be set only under the Ad-Hoc operation mode. In Ad-Hoc mode stations, each station must have the same channel numbers and SSID.

In Infrastructure mode, the Wireless PCI Adapter will automatically detect the channel number of the Access Point.

Security: the setting of the Network Encryption.

This function is used to protect wireless communication from eavesdropping. A secondary function of encryption is to prevent unauthorized access to a wireless network, and it can be achieved by using the Encryption function.

Encryption Mode:

There are two kinds of encryption mode, **WEP encryption** and **WPA-PSK**. Click the *Enable Encryption* to activate the security of the Cardbus Adapter.

WEP-Key: WEP (Wired Equivalent Privacy) relies on a secret key that is shared between a mobile station and a base station (Access Point).

WEP-Passphrase: the Passphrase in the dialog box helps you to create a group of WEP key in the Key Setting.

Authentication Mode:

Open System: with the same WEP key between the stations, the stations don't need to be authenticated, and this algorithm was set to default.

Shared Key: with the same WEP key between the stations in this Authentication algorithm, this type will use packets with encryption by transferring a challenge text which will be acknowledge by both side of the stations. In order to choose which authentication algorithm will be used, you must know which one the station supports this algorithm first.

It is recommended to select "*Auto*" if you are not familiar with the setting.

Default Key (Key 1 ~ Key 4):

You can type the key that you want to use from Key#1 to Key #4, and the key that you type will be the encryption between the stations that you connected with.

► Key Length, Key Format and WEP Key:

If you select 64bit in Hex format, you must type 10 values in the following range (0~F, hexadecimal), or 64bit in ASCII format, you must type 5 values in the following range (0~9, A~Z and a~z Alphanumeric).

If you select 128bit in Hex format, you must type 26 values (0~F, hexadecimal), or 128bit in ASCII format, you must type 13 values in the following range (0~9, A~Z and a~z Alphanumeric).

If you select 256bit in Hex format, you must type 58 values (0~F, hexadecimal), or 256bit in ASCII format, you must type 29 values in the following range (0~9, A~Z and a~z Alphanumeric).

Be sure that the PCI Adapter and the wireless station were set in the same key.

Note: After all the settings are completed, click Apply to save the setting.

WPA-PSK: WPA-PSK (Wi-Fi Protected Access pre-shared key) is a simpler version that does not support 802.1x and requires a separate RADIUS server for mutual authentication.

Enter a Passphrase in the WPA-PSK dialog box. This passphrase must be the same on each computer that is connected to the wireless network.

[Secur	rity			
V	Enable Encry	ption		
	Encryption M	lode :	WPA-PSK	-
			·	
	WPA-PSK			
			N	
			R.	

Advanced

The Advanced settings help you to control the PCI Adapter to adjust with wireless devices in certain environment.

🚊 Wireless Configuration Ut	ility HW.21	×
Status Configuration Adva	nced Profile Network Statistics About	1
Transmit Rate:	Fully Automatic	
Power Saving:	Off	
Transmit Power:	Auto	
Preamble Type:	Auto	
Authentication Mode:	Auto	
Country Domain:	FCC Standard	
Fragmentation Thresh	الغ ــــــــــــــــــــــــــــــــــــ	
RTS/CTS Threshold:	2432 (Disable)	
1	<u></u> t	
	2432 (Disable)	
	OK Cancel Apply	

Transmit Rate:

You can choose one of the transmission rates as follows, 54Mbps, 48Mbps, 36Mbps, 24Mbps, 22Mbps, 18Mbps, 12Mbps, 11Mbps, 9Mbps, 6Mbps, 5.5Mbps, 2Mbps, 1Mbps, Fully Automatic and Turbo Mode.

In some specific wireless devices, the transmit rate can define up to 72Mbps for 802.11g, select the Turbo Mode function to enhance the transfer rate of the wireless connection.

The Fully Automatic and Turbo Mode will automatically detect the suitable linking transfer rate and auto fall back when the signal is not too strong to transmit data.

Power Saving:

To set your Wireless PCI Adapter as power saving mode, select "Off", "Normal" or "Maximum".

Transmit Power:

By selecting the Transmit Power, you can select the Radio Frequency output power from Minimum, 12.5%, 25%, 50%,100% or Auto.

Preamble Type:

The usage of the preamble is to limit the packet size of the data to transmit. It is recommended to choose the short preamble when the link quality is bad, it is to prevent the wasting time of resending a long packet that is lost. The Default is Auto which access short and long preamble.

Authentication Type:

Open System: with the same WEP key between the stations, the stations don't need to be authenticated, and this algorithm was set to default.

Shared Key: with the same WEP key between the stations in this Authentication algorithm, this type will use packets with encryption by transferring a challenge text which will be acknowledge by both side of the stations. In order to choose which authentication algorithm will be used, you must know which one the station supports this algorithm first.

Country Domain:

Each country has its own regulation of the wireless domain, at the Country Domain Selection screen, select the correct country domain. If you are not sure which domain to select, click on the drop down list to see the included countries and domains then click "Ok".

Fragment Threshold:

Fragmentation Threshold is a way of transmitting the packets that will be fragmented. Choose a setting within a range of 256 to 2432. It is recommended to fragment the packet when the link quality is bad, it is to prevent the wasting time of resending a long packet that is lost.

➢ RTS/CTS Threshold:

The RTS/CTS Threshold is a station initiates the process by sending a RTS frame, the other ends receives the RTS and responds with a CTS frame, the station must receive a CTS frame before sending the data frame. This is to prevent the collisions by each station. Choose a setting within a range of 256 to 2432. It is recommended limiting a long packet to prevent each station waiting too long to transmit a data.

Profile

The Profile section allows you to set values for all parameters by selecting a previously defined profile. Type a name in the Profile Name field to create a profile, click Save and click Apply when a profile is done. You can click Delete if the profile is no longer used, to activate other profile, choose a profile name in the Profile Name field and click Activate.

🚊 Win	eless Configuration Utility		x
	us Configuration Advanced	Profile Network Statistics About	
	Profile Name: Default	•	
	Save	Delete Activate	
	Status: Profile Setting		
	Configuration Settings	Values	
	Network Mode	Infrastructure	
	SSID	ANY	
	Transmit Rate	Fully Automatic	
	Channel	7	
	Encryption(WEP)	Disable	
	Method		
	Default WEP Key		
	Power Saving Transmit Power	Off	
	Preamble Type	Auto	
	Fragmentation Threshold	2432	
	RTS/CTS Threshold	2432	
	,		
	OK	Cancel Apply	

Network

The screen shows all the Wireless devices around your Wireless PCI Adapter. The information of the wireless devices includes the SSID, MAC Address, Channels, Signal, the WEP type and the Network mode.

You can click the Rescan button to find the new wireless devices, and double-click the device to choose the wireless station that you want to connected with.

	Configuration U		file Net	work S	tatistics Abou
SSID	MAC Address	C.	Signal	WEP	Mode
PM	00-60-83-13-02-A4 00-00-01-00-01 00-40-96-56-DA-33	1	92% 94% 26%	No Yes No	Infrastructure Infrastructure Infrastructure
Status- Finis	hed				[▶

Statistic

The Statistic section shows the real-time transmit and receive packets of the Wireless PCI Adapter.

🖳 Wireless Configuration Utility 🛛 🛛 🗙
Status Configuration Advanced Profile Network Statistics About
Transmite Performance
Transmit 0 Transmit 8336 Kbits: Packets:
Receive Performance
100000 10000 1000 1000 100 100 100 100
Receive 6 Receive 8079 Kbits: Packets:
OK Cancel Apply

About

The About section shows the Device Name, Regulatory Domain, Driver Version, Firmware Version, MAC Address and the Utility version.

🚊 Wireless Configuration Ut	ility 1
Status Configuration A	dvanced Profile Network Statistics About
_ Device	
Device Name:	IEEE 802.11g Wireless Cardbus/PCI Adapter
Regulatory Domain:	FCC
Driver Version:	4.0.40
Firmware Version:	1.0.0.0
MAC Address:	08-00-28-32-00-00
Wireless LAN Configura	tion Utility
Version:	1.0.0.0
Γ	OK Cancel Apply
_	

TECHNICAL SPECIFICATIONS

General				
Radio Technology	IEEE 802.11b Direct Sequence Spread Spectrum (DSSS) IEEE 802.11g Orthogonal Frequency Division Multiplexing (OFDM)			
Interface	32-bit PCI 2.1, 2.2. Bus Master			
Data Transfer Rate	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54Mbps (auto sense)			
Receiver Sensitivity	54Mbps: Typical -72dBm @ 8% PER (Packet Error Rate) 11Mbps: Typical -85dBm @ 8% PER (Packet Error Rate)			
Frequency Range	2400 ~ 2497 MHz ISM band (channels 1 ~ 14)			
Modulation Schemes	DBPSK/DQPSK/CCK/OFDM			
Channels	1~11 channels (FCC), 1~13 channels (ETSI), 1~14 channels (MKK-Japan), 10~13 channels (France), 3~9 channels (Israel)			
Media Access Protocol	CSMA/CA with ACK			
Security	64/128-bits WEP Encryption			
Diagnostic LED	LNK/ACT (Link/Activity status)			
Antenna	2 dBi Dipole Antenna			
	Physical and Environmental			
Driver Support	Windows 98(SE), Windows 2000, Windows ME, Windows XP			
Continuous Current Consumption	480mA typ. for receive mode, 650mA typ. for transmit mode			
Temperature	Operating: 0° ~ 40° C, Storage: -25° ~ 70° C			
Humidity	10% ~ 95% RH, no condensation			
Dimensions	133 x 121 x 21.6 mm (without antenna)			
Certifications	FCC Part 15.247 for US, ETS 300 328 for Europe,			

Limited Warranty

TRENDware warrants its products against defects in material and workmanship, under normal use and service, for the following lengths of time from the date of purchase.

> TEW-421PC – 3 Years Warranty TEW-423PI – 3 Years Warranty

If a product does not operate as warranted above during the applicable warranty period, TRENDware shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item, or refund to customer the purchase price paid for the defective product. All products that are replaced will become the property of TRENDware. Replacement products may be new or reconditioned.

TRENDware shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to TRENDware pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product by any unauthorized service center. This warranty is voided if (i) the product has been modified or repaired by any unauthorized service center, (ii) the product was subject to accident, abuse, or improper use (iii) the product was subject to conditions more severe than those specified in the manual. Warranty service may be obtained by contacting TRENDware office within the applicable warranty period for a Return Material Authorization (RMA) number, accompanied by a copy of the dated proof of the purchase. Products returned to TRENDware must be pre-authorized by TRENDware with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

WARRANTIES EXCLUSIVE: IF THE TRENDWARE PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE. THE CUSTOMER'S SOLE REMEDY SHALL BE. AT TRENDWARE'S OPTION. REPAIR OR REPLACEMENT. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW. STATUTORY OR OTHERWISE. INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. TRENDWARE NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE. INSTALLATION MAINTENANCE OR USE OF TRENDWARE'S PRODUCTS.

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LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDWARE ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER CONTRACT OR TORT BASED IN (INCLUDING NEGLIGENCE), FOR INCIDENTAL. CONSEQUENTIAL. INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR FOR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATE, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THE POSSIBILITY OF SUCH DAMAGES. AND LIMITS ITS LIABILITY TO REPAIR, REPLACEMENT, OR REFUND OF THE PURCHASE PRICE PAID. AT TRENDWARE'S OPTION. THIS DISCLAIMER OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

Governing Law: This Limited Warranty shall be governed by the laws of the state of California.

Technical Support

You can find the most recent driver/firmware/software and user documentations on the **TRENDware website** <u>http://www.trendnet.com</u>. **TRENDware** provides **FREE technical support** for all customers for the duration of the warranty period on this product.

> TRENDware Technical Support Tel: +1-310-626-6252 Fax: +1-310-626-6267

E-mail: support@trendware.com www.TRENDnet.com Monday ~ Friday, 7:30AM ~ 6:00PM Pacific Standard Time (Except holidays)



Product Warranty Registration

Please take a moment to register your product online. Go to TRENDware's website at http://www.TRENDNET.com

> TRENDware International, Inc. 3135 Kashiwa Street Torrance, CA 90505

http://www.TRENDNET.com

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