



TRENDNET[®]



User's Guide

TEW-421PC
TEW-423PI
C1.2

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.

Federal Communication Commission 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 and, if not installed and used in accordance with the instructions, 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 to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

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

SAR compliance has been established in typical laptop computer(s) with CardBus slot, and product could be used in typical laptop computer with CardBus slot. Other application like handheld PC or similar device has not been verified and may not compliance with related RF exposure rule and such use shall be prohibited.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

EN 60 950-1: 2001 +A11: 2004

Safety of Information Technology Equipment

EN 50392: 2004-01

Generic standard to demonstrate the compliance of electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (0 Hz - 300 GHz)

EN 300 328 V1.7.1 (2006-10)

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

EN 301 489-1 V1.6.1: (2005-09)

Electromagnetic compatibility and Radio Spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V1.2.1 (2002-08)










Electromagnetic compatibility and Radio spectrum Matters (ERM); ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment

This device is a 2.4 GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end-user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and in some areas the RF output power may be limited to 10 mW EIRP in the frequency range of 2454 – 2483.5 MHz. For detailed information the end-user should contact the national spectrum authority in France.

CE0560!

 Česky [Czech]	<i>TRENDnet</i> tímto prohlašuje, že tento <i>TEW-421PC/TEW-423PI</i> je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
 Dansk [Danish]	Undertegnede <i>TRENDnet</i> erklærer herved, at følgende udstyr <i>TEW-421PC/TEW-423PI</i> overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
 Deutsch [German]	Hiermit erklärt <i>TRENDnet</i> , dass sich das Gerät <i>TEW-421PC/TEW-423PI</i> in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
 Eesti [Estonian]	Käesolevaga kinnitab <i>TRENDnet</i> seadme <i>TEW-421PC/TEW-423PI</i> vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
 English	Hereby, <i>TRENDnet</i> , declares that this <i>TEW-421PC/TEW-423PI</i> is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
 Español [Spanish]	Por medio de la presente <i>TRENDnet</i> declara que el <i>TEW-421PC/TEW-423PI</i> cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
 Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ <i>TRENDnet</i> ΔΗΛΩΝΕΙ ΟΤΙ <i>TEW-421PC/TEW-423PI</i> ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΠΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/EK.
 Français [French]	Par la présente <i>TRENDnet</i> déclare que l'appareil <i>TEW-421PC/TEW-423PI</i> est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
 Italiano [Italian]	Con la presente <i>TRENDnet</i> dichiara che questo <i>TEW-421PC/TEW-423PI</i> è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo <i>TRENDnet</i> deklarē, ka <i>TEW-421PC/TEW-423PI</i> atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių	Šiuo <i>TRENDnet</i> deklaruoją, kad šis <i>TEW-421PC/TEW-423PI</i> atitinka esminius reikalavimus ir

[Lithuanian]	kitas 1999/5/EB Direktyvos nuostatas.
[nl] Nederlands [Dutch]	Hierbij verklaart <i>TRENDnet</i> dat het toestel <i>TEW-421PC/TEW-423PI</i> in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
[mt] Malti [Maltese]	Hawnhekk, <i>TRENDnet</i> , jiddikjara li dan <i>TEW-421PC/TEW-423PI</i> jikkonforma mal-htigijiet essenzzjali u ma provvedimenti ohrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
[hu] Magyar [Hungarian]	Alulírott, <i>TRENDnet</i> nyilatkozom, hogy a <i>TEW-421PC/TEW-423PI</i> megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
[pl] Polski [Polish]	Niniejszym <i>TRENDnet</i> oświadcza, że <i>TEW-421PC/TEW-423PI</i> jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
[pt] Português [Portuguese]	<i>TRENDnet</i> declara que este <i>TEW-421PC/TEW-423PI</i> está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
[sl] Slovensko [Slovenian]	<i>TRENDnet</i> izjavlja, da je ta <i>TEW-421PC/TEW-423PI</i> v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	<i>TRENDnet</i> týmto vyhlasuje, že <i>TEW-421PC/TEW-423PI</i> spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
[fi] Suomi [Finnish]	<i>TRENDnet</i> vakuuttaa täten että <i>TEW-421PC/TEW-423PI</i> tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
[sv] Svenska [Swedish]	Härmed intygar <i>TRENDnet</i> att denna <i>TEW-421PC/TEW-423PI</i> står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.



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INTRODUCTION

Congratulations on your purchase of this 54Mbps IEEE 802.11g Wireless LAN Adapter.

This manual helps to get familiar with the 54Mbps IEEE 802.11g Wireless LAN Adapter. This manual contains detailed instructions in operation of this product. Please keep this manual for future reference.

With a Wireless LAN Adapter, a laptop computer or a station can communicate with another computer in a wireless way. Easy-to-use utilities are bundled with Wireless LAN Adapter for configuration, monitoring, and diagnosis purposes.

Wireless LAN Adapter can wirelessly transmit and receive data, with the Wireless LAN Adapter, you can locate your Notebook PC or station wherever you want without wires and cables.

Wireless LAN 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 LAN 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 54Mbps IEEE 802.11g Wireless LAN Adapter.

Unpacking and Setup. Helps you get started with the basic installation of the 54Mbps IEEE 802.11g Wireless LAN Adapter.

Hardware Installation. Describes the LED indicators of the 54Mbps IEEE 802.11g Wireless LAN 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 54Mbps IEEE 802.11g Wireless LAN Adapter.

UNPACKING AND SETUP

This chapter provides unpacking and setup information for the 54Mbps IEEE 802.11g Wireless LAN Adapter.

Unpacking

Open the box of the 54Mbps IEEE 802.11g Wireless LAN Adapter and carefully unpack it. The box should contain the following items:

- ◆ One Wireless Adapter
- ◆ One CD-ROM with Utility, Driver and User's Guide
- ◆ 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 LAN Adapter can be performed using the following steps:

- ◆ Visually inspect the CardBus/PCI Adapter and make sure that it is fully plugged in to the CardBus/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 for CardBus

Link

The Link LED indicator lighted green when the 54Mbps IEEE 802.11g Wireless LAN Adapter is connected to wireless network successfully.

ACT (Activity)

The ACT LED indicator blinking green when the 54Mbps IEEE 802.11g Wireless LAN Adapter is transmitting or receiving data.

LED Indicator for PCI

Link

The Link LED indicator lighted green when the 54Mbps IEEE 802.11g Wireless LAN Adapter is connected to wireless network successfully.

Check the installation

The LEDs of the Wireless LAN Adapter are clearly visible and the status of the network link can be seen instantly:

1. Once the device is plugged to the station's CardBus/PCI slot, the LED of the Wireless LAN Adapter will light up indicating a normal status.
2. When the device plugged to the station's CardBus/PCI slot and the driver was installed, the ACT will start alternate blinking, it means that the device is starting to scan the wireless devices near the Wireless LAN Adapter.
3. While the Wireless LAN Adapter linked up and transmitting data to the Access Point or to other Wireless LAN station, the Link LED will lighted green.

SOFTWARE INSTALLATION

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

Windows 7/Vista/XP/2000/ME/98SE Utility and Driver Installation

1. Insert the 54Mbps IEEE 802.11g Wireless LAN Adapter Driver & Utility CD-ROM and the Auto-run program will appear. Alternatively, open a file browser and double click on the autorun.exe file located in the CD directory.
2. If you need to install the driver manually, refer each Windows OS to the following CD-Rom directory path: D:\Driver\

Note: (D:\ will depends on where the CD-ROM drive is located and <Windows OS> will depend on the Windows OS you are using).

3. Click “Install Utility” to install the driver and software. Select 7/Vista/XP/2000 or ME/98 , depending on your operating system, and the install wizard will begin installing the software. Follow the install wizard instructions to complete the installation.



4. Follow the Install Shield Wizard Instructions. Click “**Next**” to continue and finish it.

The installation program will help you to setup the Wireless LAN 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.***

When the Wireless LAN Adapter was installed, you will see the icon on the Windows task bar. The user can configure the wireless settings using the Wireless Adapter Configuration Utility. Double-click the utility icon that appears in the taskbar

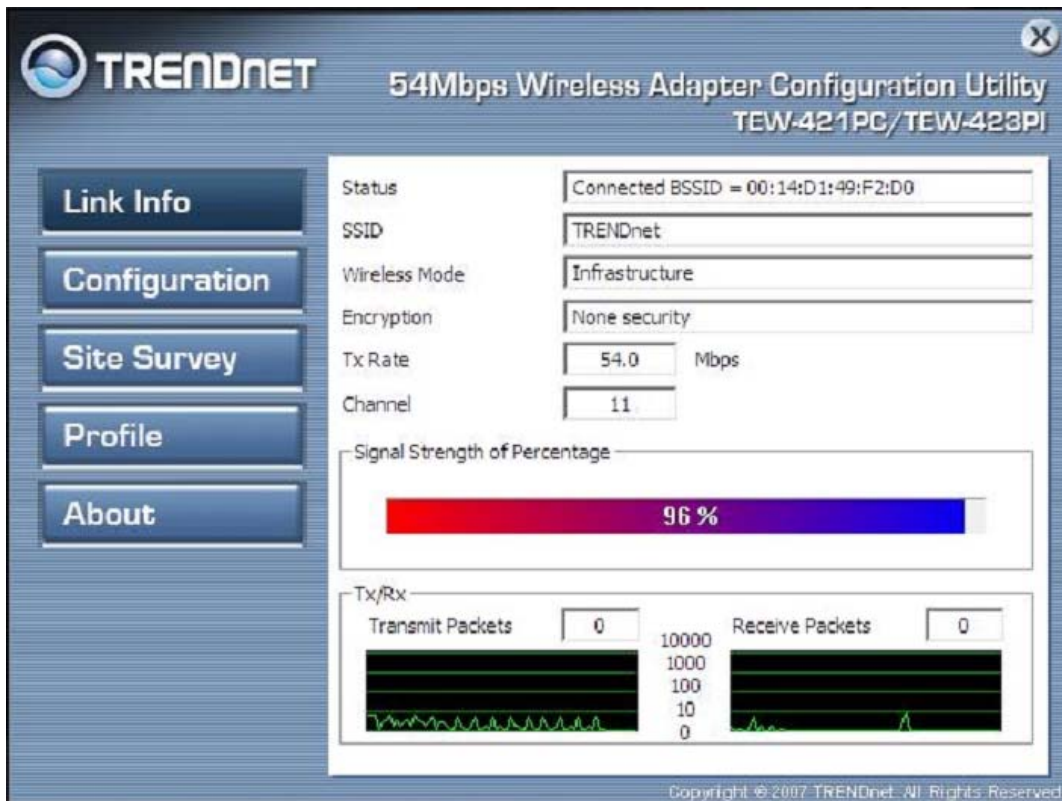


When the icon in the toolbar represents in full green color then the signal strength has an excellent performance with the AP, if it represents in yellow color then the signal strength has a fair performance with the AP, and if the icon represents no color, then the signal strength has a worst performance with the wireless station.

WINDOWS 7/VISTA/XP/2000 WIRELESS UTILITY SETTING

Link Information

This is the default screen after launching the Utility program.



Status: Shows the associated BSSID, which can be used to identify the wireless access point.

SSID: Shows the current SSID, which must be the same on the wireless client and AP in order for communication to be established.

Wireless Mode: Shows the current wireless mode used for wireless communication.

Encryption: Shows the current encryption mode used on the wireless network.

TX Rate: Shows the current data rate used for transmitting.

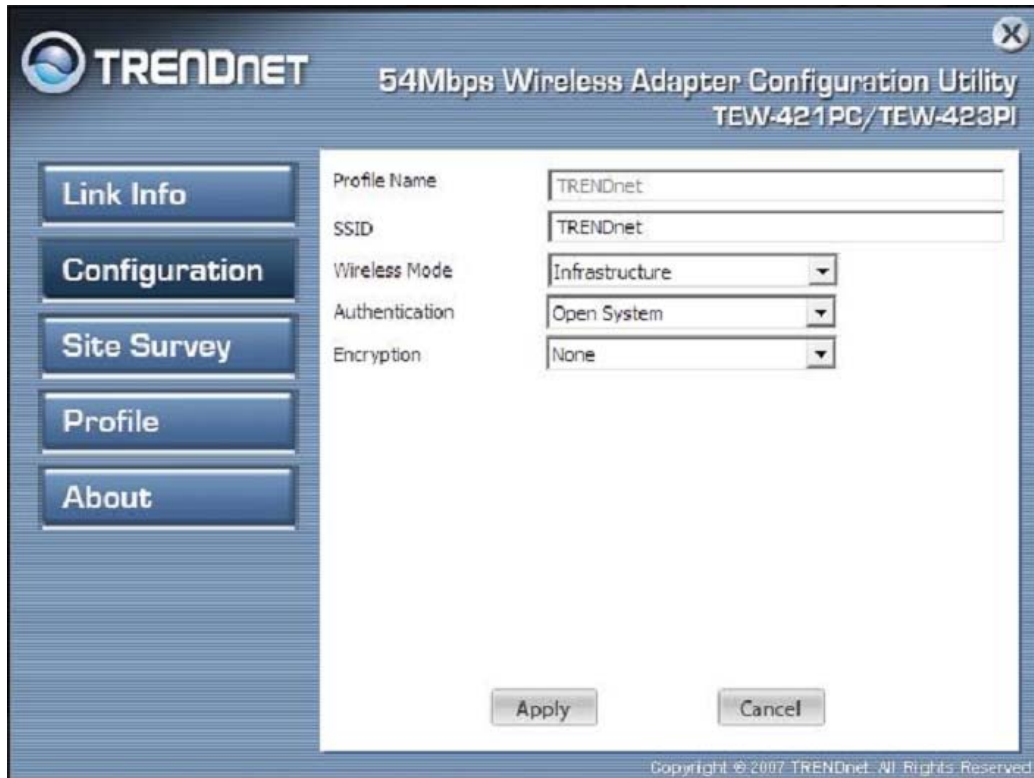
Channel: Shows the current channel for communication.

Signal Strength of Percentage: Shows the wireless signal strength of the connection between the Wireless LAN USB 2.0 Adapter with the Access Point.

TX/RX: Shows the statistics of data transfer, and the calculation is based on the number of packets transmitted and received. It also shows the link quality of the Wireless LAN USB 2.0 Adapter with the Access Point when operation under Infrastructure mode.

Configuration

This screen is where you set the basic wireless settings for the Wireless LAN USB 2.0 Adapter.



Profile Name: The default name is the same as the SSID of the platform which you connected and you can change the name you favor(the key length is limited 1~32 bits).

SSID: Service Set Identifier, which is a unique name shared among all client in a wireless network. The SSID must be identical for client in the wireless network.

Wireless Mode: There are two modes available for selection

- Infrastructure –to establish wireless communication with the LAN and other wireless client through the use of Access Points.
- Ad-Hoc – to establish point- to-point wireless communication directly with other wireless client device.

Authentication: The following options are available: **Open System, Shared key, WPA-PSK, WPA2-PSK, WPA EAP-TLS and WPA2 EPA-TLS.**

Select **Open System, Shared Key** for WEP data encryption feature.

Open System and **Shared Key** require the users to set a WEP key to exchange data with other wireless clients that have the same WEP key.

The following will only be activated when **Open, Shared Key** is enabled:

Default Key: select one of the 4 keys to use.

Network Key: choose the encryption way, either in HEX or ASCII formats, and enter the password in the blank space.

Key Length: select 64 or 128 bits as the length of the keys.

Key Format: HEX or ASCII

WPA-PSK/ WPA2-PSK: This Passphrase must be the same on each computer that is connected to the wireless network.

WPA/ WPA2: Please click the “**Certificate**” button. Then, please select the certificate that user wants to use

Encryption: select the encryption type for TKIP or AES encryption type.

Site Survey

This screen allows the user to scan for available wireless networks (wireless clients and Access Points). It also allows the user to establish wireless communications with an available wireless network.



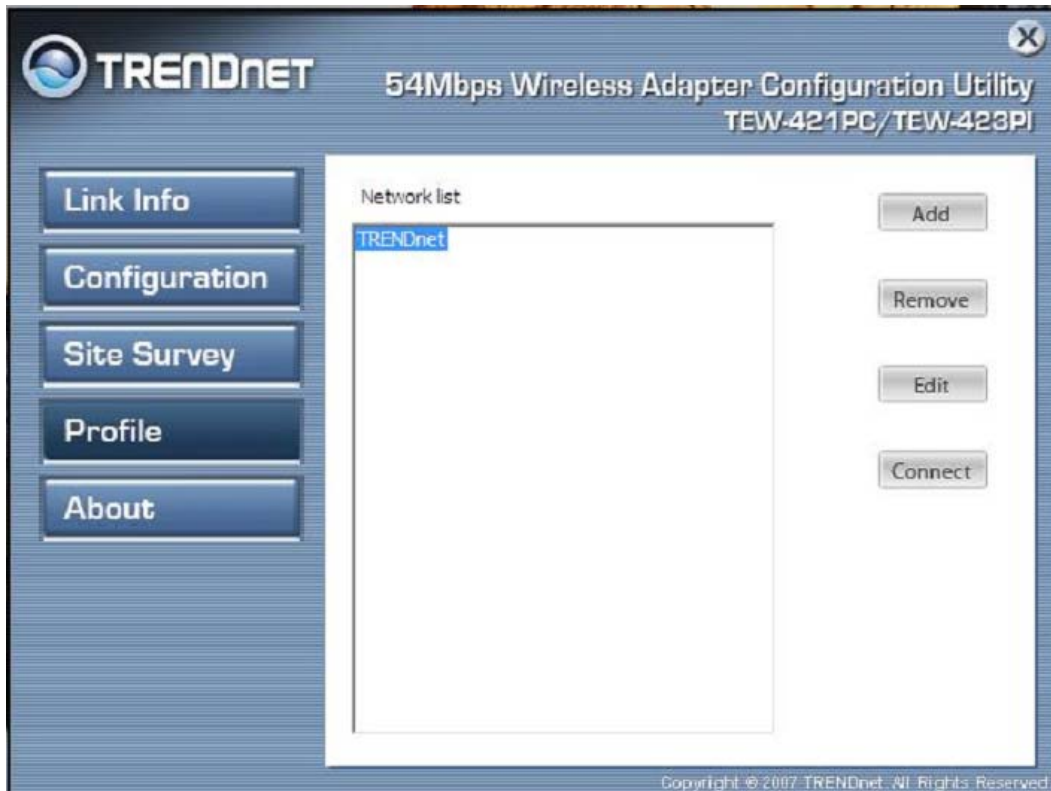
Available Network – displays the wireless networks (wireless clients and Access Points) that are within range.

Select any one of the wireless networks by **double-clicking** on it or clicking on the **“Connect”** button.

Click the **“Refresh”** button to scan for available networks.

Profile

Profile –The user can create and manage the created profiles for home, work or public areas. By double-clicking on one of the created profile, the setting will adjust to the specific setting such as SSID, channel, and encryption as saved by that particular profile.



Add: Adds a profile. The following screen will appear. The user can enter the necessary information required for accessing Access Points or Wireless Router.

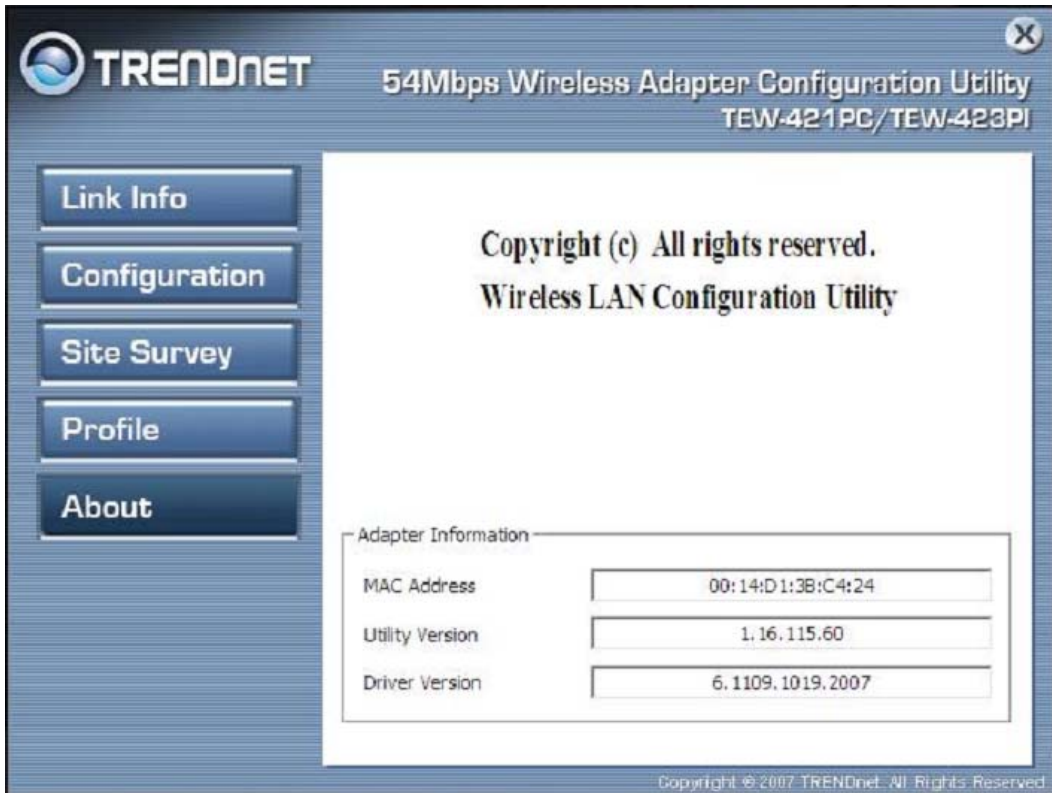
Remove: Deletes the selected profile

Edit: To view and change its settings of the profile.

Connect: The current connected profile information

About

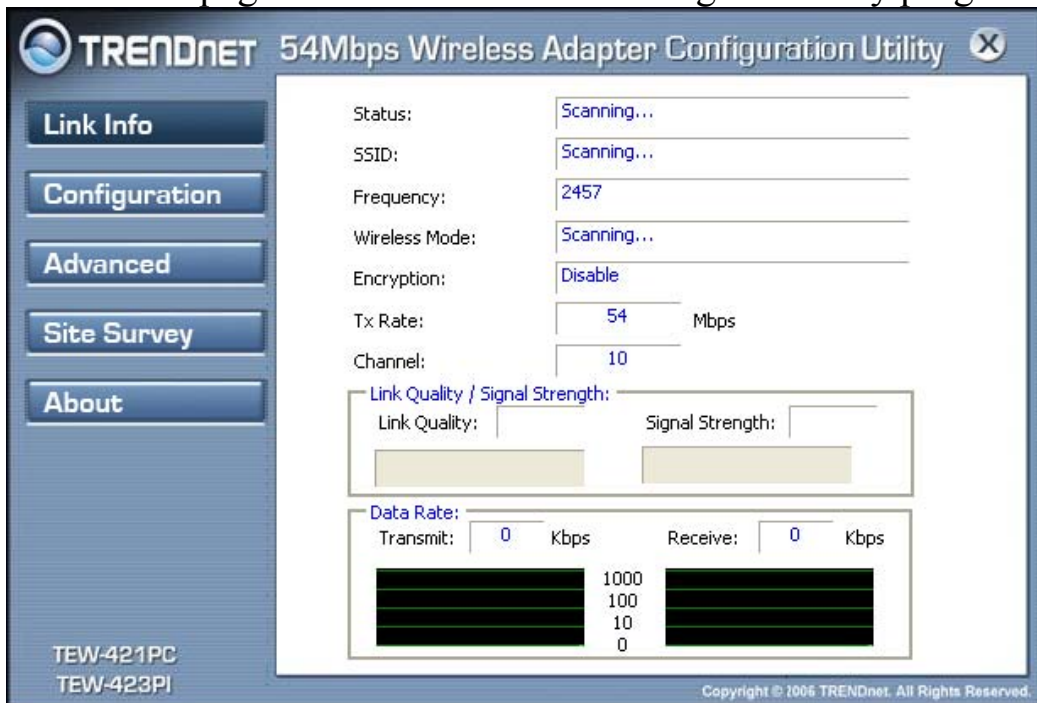
This screen displays information about the 54Mbps IEEE 802.11g Wireless LAN Adapter, such as the Driver and Utility version. When a new version of the utility becomes available for upgrade, users will be able to identify by version numbers.



WINDOWS ME/98 WIRELESS UTILITY SETTING

Link Information

The default page is as below after launching the Utility program.



Status: Shows the associated BSSID, which can be used to identify the wireless network.

SSID: Shows the current SSID, which must be the same on the wireless client and AP in order for communication to be established.

Frequency: Shows the current frequency used for wireless network.

Wireless Mode: Shows the current wireless mode used for wireless communication.

Encryption: Shows the current encryption mode used for wireless network.

TxRate: Shows the current data rate used for transmitting.

Channel: Shows the current channel for communication.

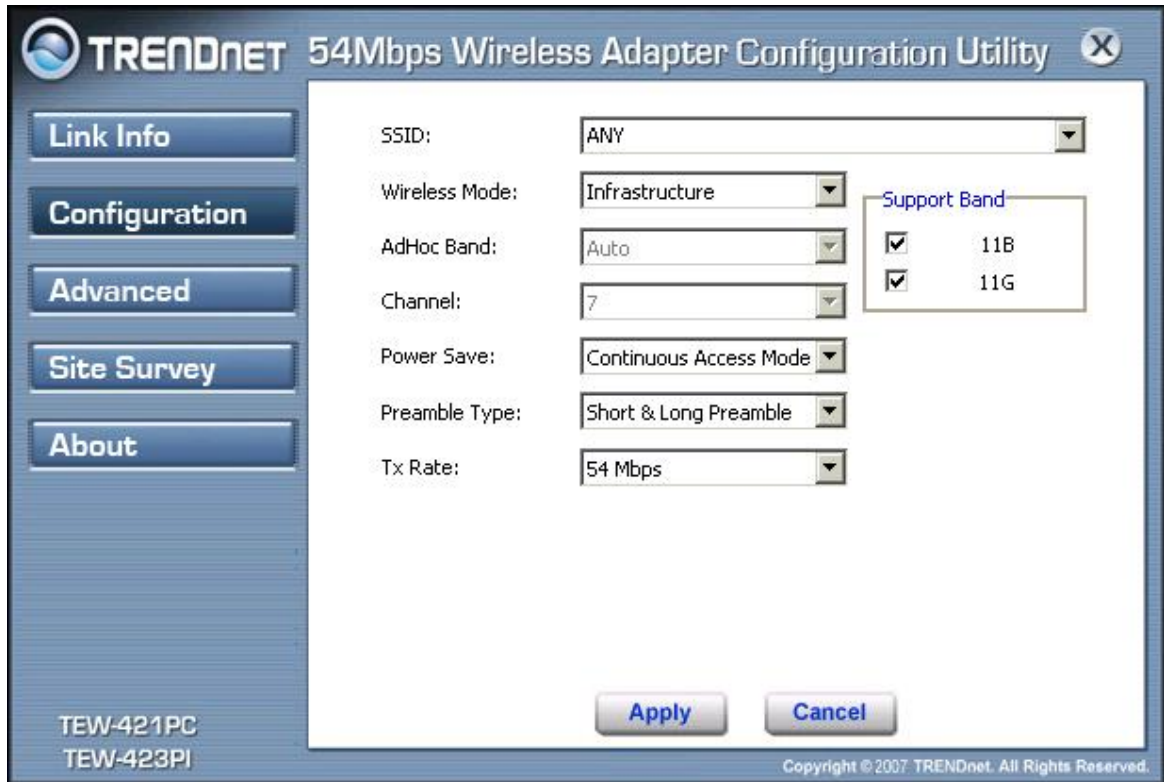
Link Quality: Shows the link quality of the wireless LAN adapter with the Access Point when operating under Infrastructure mode.

Signal Strength: Shows the wireless signal strength of the connection between the wireless LAN adapter card with the Access Point.

Data Rate: Shows the statistics of data transfer, and the calculation is based on the number of packets transmitted and received.

Configuration

This screen is where changes the basic wireless settings for the wireless LAN adapter with the minimum amount of effort to implement a secure wireless network environment.



SSID: Service Set Identifier, which is a unique name shared among all clients and nodes in a wireless network. The SSID must be identical for each clients and nodes in the wireless network.

Wireless Mode: There are two types available for selection

- Infrastructure – to establish wireless communication with LAN and other wireless clients through the use the Access Points.
- Ad-Hoc – to establish point-to-point wireless communication directly with other wireless client devices such as wireless network PCI Adapter.

AdHoc Band: When using *Wireless Mode* for *Ad-Hoc mode*, select the *AdHoc Band* from drop down list for *11b only*, *11g only* or *Auto* for both of 11b and 11g.

Channel: The channel the AP operates on. The channel range of 1 to 11 for North America (FCC) domain and 1 to 13 for European (ETSI) domain and 1 to 14 for Japanese domain.

WARNING: *Country domain can't be choose by enduser, because the incorrect region may be in violation of applicable laws.*

Power Mode: There are 3 modes to choose from.

- Continuous Access Mode (default) – the wireless LAN adapter is constantly operating with full power. This mode consumes the most power.
- Maximum Power Save – the wireless LAN adapter consumes the least power. This mode only operates when there is wireless network activity.
- Power Save – the wireless LAN adapter consumes moderate level of power.

Preamble: Select Long or Short Preamble type. Preamble is a sequence of bits transmitted at 1Mbps that allows the PHY circuitry to reach steady-state demodulation and synchronization of bit clock and frame start. Two different preambles and headers are defined: the mandatory supported Long Preamble and header, which interoperate with the 1 Mbit/s and 2 Mbit/s DSSS specification (as described in IEEE Std 802.11), and an optional Short Preamble and header (as described in IEEE Std 802.11b). At the receiver, the Preamble and header are processed to aid in demodulation and delivery of the PSDU. The Short Preamble and header may be used to minimize overhead and, thus, maximize the network data throughput. However, the Short Preamble is supported only from the IEEE 802.11b (High- Rate) standard and not from the original IEEE 802.11. That means that stations using Short-Preamble cannot communicate with stations implementing the original version of the protocol. Click “Apply” for the changes to take effect.

Support Band: There are two modes the user can select, including 11B and 11G. The default setting is 11B and 11G are enabled, which is interoperable with both 11B and 11G devices.

Note: user must select one of 11B or 11G at least; otherwise the wireless connection will not function.

Advanced

This screen is where you configure the Security settings for the 54Mbps IEEE 802.11g Wireless LAN Adapter.

The screenshot shows the 'Advanced' configuration page of the TRENDnet 54Mbps Wireless Adapter Configuration Utility. The interface includes a sidebar with navigation buttons: Link Info, Configuration, Advanced (selected), Site Survey, and About. The main area contains the following settings:

- Auth. Mode:** Disable
- Encryption Mode:** WEP-Key
- WEP Key:** Four keys (1-4) with empty text boxes for Network Key and a dropdown for Key Length (64bits).
- Default Key:** Key 1
- Key Format:** Hex

Buttons for 'Configuration', 'Apply', and 'Cancel' are visible. The bottom of the window shows 'TEW-421PC TEW-423PI' and 'Copyright © 2006 TRENDnet. All Rights Reserved.'

Auth Mode: Select the authentication type from drop down list for Disable, Open System, Shared Key, WPA, WPA-PSK, WPA2 and WPA2-PSK.

Open System / Shared Key

Two side-by-side screenshots of the TRENDnet 54Mbps Wireless Adapter Configuration Utility. The left screenshot shows the 'Auth. Mode' set to 'Open System', and the right screenshot shows it set to 'Shared Key'. Both screenshots show the same encryption and key settings as the previous screenshot.

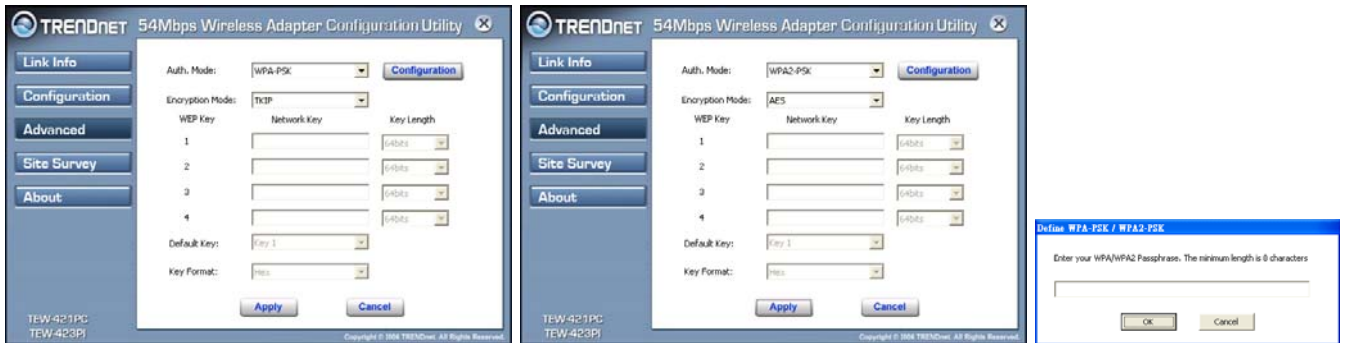
WEP Key 1~4: choose the encryption way, either in HEX or ASCII formats, and enter the password in the blank space.

Key Length: select 64 or 128 bits as the length of the keys. 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).

Default Key: select one of the 4 keys to use.

Key Format: *ASCII* or *HEX*.

WPA-PSK / WPA2-PSK



If WPA-PSK or WPA2-PSK is selected, the above screen is shown. Please select the encryption type from drop down menu and press **Configuration** button to configure the passphrase key.

Encryption: Select the encryption type for TKIP or AES encryption type.

WPA / WPA2



If WPA or WPA2 is selected, the above screen is shown. Please select the encryption type from drop down menu and press **Configuration** button to configure parameters for the RADIUS server.

WARNING : *WPA, WPA2 don't support In Windows 98/ME .*

Encryption: Select the encryption type for TKIP or AES encryption type.

Site Survey

This screen allows user to scan for available wireless networks (wireless clients and Access Points). It also allows the user to establish wireless communications with an available wireless network.



Available Network – displays the wireless networks (wireless clients and Access Points) that are in signal range.

Select any one of them to establish communications by simply mouse **double-click** or click on the “**Connect**” button.

Click “**Refresh**” button to start scanning for available network again.

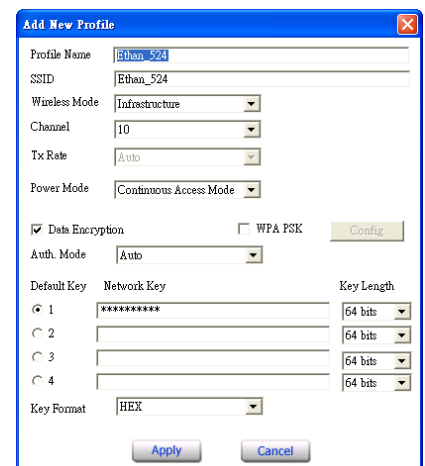
Profile – The user can create and manage the created profiles for home, work or public areas. By double-clicking on one of the created profile, the setting will adjust to the specific setting such as SSID, channel, and WEP as saved by that particular profile.

Add: Adds a profile. Then, the following screen would appear. User can enter the necessary information required for accessing Access Points or Wireless Router.

Edit: To view and change its settings of the profile.

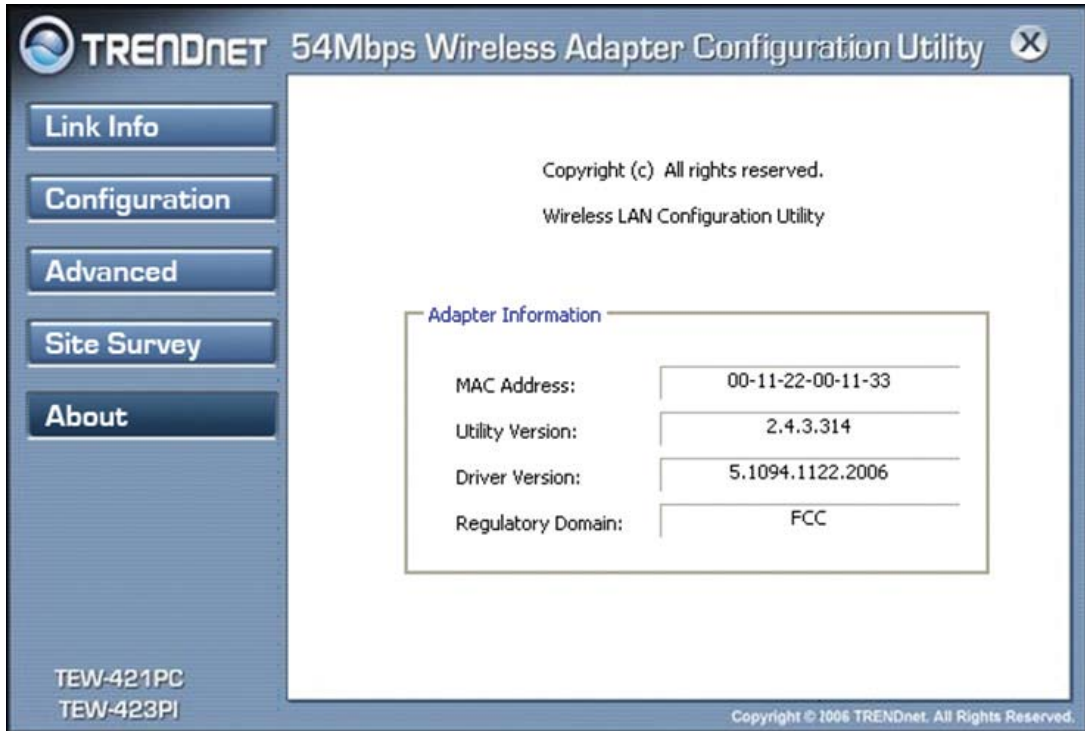
Remove: Deletes the selected profile

Connect: The current connected profile information.



About

This screen displays information about the 54Mbps IEEE 802.11g Wireless LAN Adapter, such as the Driver and Utility version. When a new version of the utility for upgrade, users will be able to identify by version numbers.



TECHNICAL SPECIFICATIONS

General	
Radio Technology	IEEE 802.11b Direct Sequence Spread Spectrum (DSSS) IEEE 802.11g Orthogonal Frequency Division Multiplexing (OFDM)
Interface	PC Card: 32-bit CardBus, PCI Adapter: 32-bit PCI bus
Data Transfer Rate	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54Mbps
Receiver Sensitivity	54Mbps: Typical -70dBm @ 10% PER (Packet Error Rate) 11Mbps: Typical -86dBm @ 8% PER (Packet Error Rate)
Transmit Power	802.11b: 15±2dBm 802.11g: 13±2dBm
Frequency Range	2412 ~ 2484 MHz ISM band (channels 1 ~ 14) 2400~2483.5MHz ISM band (channels 1 ~ 11)
Modulation Schemes	DBPSK/DQPSK/CCK/OFDM
Channels	1~11 channels (FCC), 1~13 channels (ETSI),
Media Access Protocol	CSMA/CA with ACK
Security	64/128-bits WEP Encryption, WPA-PSK, WPA2-PSK, WPA, WPA2
Diagnostic LED	PC Card: Link, ACT PCI Adapter: Link
Antenna	PC Card: Integrated printed dual diversity antennas PCI: 2dBi dipole antenna
Physical and Environmental	
Driver Support	Windows 98, ME, Windows 2000, Windows XP, Windows Vista
Temperature	Operating: 0° ~ 40° C, Storage: -10° ~ 70° C
Humidity	10% ~ 95% RH, no condensation
Dimensions	PC Card:, 115 x 54 x 8.7 mm, PCI Adapter: 13 x 121 x 21.6
Certifications	CE, FCC

Limited Warranty

TRENDnet 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/TEW-423PI– 3 Years Warranty

AC/DC Power Adapter, Cooling Fan, and Power Supply carry 1 year warranty.

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