

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 less than the electromagnetic energy emissions from wireless devices such as 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

The 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. The Manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from the failure 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 radiates 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 or Canada without an approved US Department of Commerce export license.

Safety Information

Your device contains a low power transmitter. When the 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 a minimum distance of 20 cm between the radiator and your body. Use the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be located or operating in conjunction with any other antenna or transmitter.

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.

CE in which Countries where the product may be used freely:

Germany, UK, Italy, Spain, Belgium, Netherlands, Portugal, Greece, Ireland, Denmark, Luxembourg, Austria, Finland, Sweden, Norway and Iceland.

France: French regulations prohibit the use of all channels except channels 10 through 13.

C E F©

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INTRODUCTION

Congratulations on your purchase of this Wireless LAN USB 2.0 Adapter.

This manual contains detailed instructions regarding the operation of this product. Please keep this manual for future reference.

With the Wireless LAN USB 2.0 Adapter, a desktop or laptop computer can communicate with another computer wirelessly. An easy-to-use utility is bundled with the Wireless USB Adapter for configuration, monitoring, and diagnostic purposes.

The Wireless LAN USB 2.0 Adapter can wirelessly transmit and receive data, at a speed of up to 54 megabits per second.

The Wireless LAN USB 2.0 Adapter provides users with access to real-time information anywhere in their organization. The mobility of the Wireless LAN USB 2.0 Adapter provides productivity and service, which are not available under wired networks. The Wireless LAN USB 2.0 Adapter can easily adapt 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 LAN USB 2.0 Adapter and its features.

Unpacking and Setup. Helps you get started with the basic installation of the Wireless LAN USB 2.0 Adapter.

Hardware Installation. Describes the LED indicator on the Adapter.

Software Installation. Describes how to setup the driver and the utility setting.

Technical Specifications. Lists the technical (general, physical and environmental) specifications of the Wireless LAN USB 2.0 Adapter.

UNPACKING AND SETUP

This section provides unpacking and setup information for the Wireless LAN USB 2.0 Adapter.

Unpacking

The box should contain the following items:

- One Wireless LAN USB 2.0 Adapter
- One Driver & Utility CD-ROM
- One Quick Installation Guide
- One Type-A USB male to female extension cable

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

Setup

Before installation, check the following:

- Make sure your computer is running at least a 300Mhz or above processor with 256MB RAM or above
- Make sure the USB ports are USB 1.0, 1.1 or 2.0
- The operating system on your computer must be the following: Windows Vista/XP/2000/ME/98SE
- Make sure the environment has minimal interference and obstructions.

Connecting the USB Extension Cable

The USB extension cable that comes with the Adapter has Type A connectors on both ends. One end of the cable is a male Type A connector that plugs into the PC's USB port. The other end of the cable is a female Type A connector that plugs into the Adapter.

This USB extension cable can be adjusted to improve the wireless connection. It is recommended that the Wireless LAN USB 2.0 Adapter is perpendicular to the ground.

LED

The LED blinks green when the Wireless LAN USB 2.0 Adapter is successfully connected to a wireless network. The LED is steady green when the Wireless USB Adapter is not connected to a wireless network.

SOFTWARE INSTALLATION

This section describes how to install the driver and utility for the Wireless LAN USB 2.0 Adapter.

Windows Utility Installation

1) Insert the Utility and Driver CD-ROM into your computer's CD-ROM Drive and then click **Install Utility**. Then click on **Vista/XP/2000** or **ME/98SE**.



2) Select the desired language and then click Next (Windows Vista/XP/2000 only).



3) Select the desired language from the dropdown list and then click Next (Windows ME/98SE only).



- 4) Follow the InstallShield Wizard Instructions
- 5) Click Finish.



6) Select **Yes, I want to restart my computer now** and then click **OK** (Windows 98SE/ME)



7) Plug the Wireless LAN USB 2.0 Adapter into an available USB slot on your computer



8) Drivers will install automatically.

Windows Vista/XP/2000 Wireless Utility Setting

1. Link Information

This is the default screen after launching the Utility program.

Status:	Connected BSSID = 00:02:6F:59:FE:58
SSID:	TRENDnet671N
Wireless Mode:	Infrastructure
Encryption:	None
Tx Rate:	54.0 Mbps
Channel:	11
Signal Strength: —	
	100 %
Transmit:	3 10000 Receive: 2
	1000
	Status: SSID: Wireless Mode: Encryption: Tx Rate: Channel: Signal Strength: TX/RX Transmit:

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.

TxRate: Shows the current data rate used for transmitting.

Channel: Shows the current channel for communication.

Signal Strength: 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.

2. Configuration

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

	54Mbp	s Wireless Ada	eter Configuration Utility TEW-424UB
Link Info	Profile Name: SSID:	TRENDnet671N TRENDnet671N	
Configuration	Wireless Mode:	Infrastructure	
Site Survey	Encryption:	None	
Profile			
About			
		Apply	Cancel
		Сор	yright © 2009 TRENDnet. All Rights Reserved.

Profile Name: Displays the name of the profile

SSID: Service Set Identifier, which is a unique name shared among all clients in a wireless network. The SSID must be identical for each 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 clients through the use of Access Points.

•Ad-Hoc – to establish point-to-point wireless communication directly with other wireless client devices.

Authentication: The following options are available: Open System, Shared Key, Auto, WPA EAP TLS/WPA2 EAP TLS and WPA-PSK/WPA2-PSK. Select

Open System or **Shared Key** for WEP data encryption feature.

Encryption: The following options are available: None, WEP, TKIP and AES

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

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 Default Key: select one of the 4 keys to use. Key Format: ASCII or HEX

If **WPA-PSK/WPA2-PSK** is selected, the following window appears. Enter a WPA Passphrase between 8 and 64 characters.

	54Mbps	Wireless Adapter Configuration Utility TEW-424UB
Link Info	Profile Name:	TRENDnet671N
	SSID:	TRENDnet671N
Configuration	Wireless Mode:	Infrastructure
Site Survey	Authentication: Encryption:	WPA-PSK TKIP
Profile		
About	Enter your WPA	Passphrase. The minimum length is 8 characters.
	Π	
	(Apply Cancel
		Copyright @ 2009 TRENDnet. #I Rights Reserved.

If **WPA EAP TLS/WPA2 EAP TLS** is selected the window below appears. Select the desired certificate, and then click **Apply**.

	o oundes	TEW-42
Link Info	Profile Name:	TRENDnet671N
	SSID:	TRENDnet671N
Configuration	Wireless Mode:	Infrastructure
	Authentication:	WPA EAP-TLS
Gite Survey	Encryption:	TKIP
Profile		
About	Select a Certifica	te:
		A

3. 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.

	54Mbps V	/ireless A	dapte	r Conf	iguration Utility TEW-424UB
Link Info	SSID	Security	Signal	Ch	MAC Address
Configuration	CAMTEST 633_sonny TrendnetSky2	None WPA2-PSK/ WPA-PSK	100 100 92	10 1 5	00:C0:02:D4:B0:E2 00:14:D1:C2:70:EE 00:0E:8E:7D:2E:54
Site Survey	RMALAB(PR) TRENDnet637_Test vortex TRENDnet671N	WPA2-PSK WPA-PSK None None	100 100 100	6 11 11	00:14:D1:C4:E9:40 00:14:D1:C3:BE:27 00:14:D1:C5:21:48 00:02:6F:59:FE:58
Profile	TRENDnetjkhgf TrendnetSky2 TRENDnet	None WPA-PSK None	98 62 100	10 2 6	00:14:D1:4A:51:12 00:14:D1:C0:64:19 00:14:D1:5B:17:5B
About	trendnetsky TVM7 trendnetrma	WEP WPA-PSK WEP	100 100 86	8 1 1	00:C0:02:1A:AF:C 00:14:D1:C6:C4:55 00:C0:02:90:F4:62
	×				
	R	efresh	Copyright	© 2009 TR	ENDnet. All Rights Reserved.

Select any one of the wireless networks by clicking on the "**Connect**" button. Click the "**Refresh**" button to scan for available networks.

4. Profile

This screen allows the user to create and manage 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.

	54Mbps Wireless Adapter Configuration L TEW-4:	X Itility 24UB
Link Info	Network List Add	
Configuration	TRENDnet671N	
Site Survey	Edit	
Profile	Lan	
About	Connect	t
	Copyright @ 2008 TRENDnet. #I Rights	Reserved.

Add: Add a profile.

Remove: Deletes the selected profile

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

Connect: Connect to the selected profile.

5. About

This screen displays information about the Wireless LAN USB 2.0 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.

	54Mbps Wireless Adapter C	onfiguration Utility TEW-424UB
Link Info		_
Configuration	Copyright (c) All rights r Wireless LAN Configura	eserved. tion Utility
Site Survey		
Profile		
About	Adapter Information	
	MAC Address 00:14:D	1:4B:F8:B0
	Utility Version 1.16	. 114.60
	Driver Version 6.1097	.718.2007
	Copyright © 20	07 TRENDnet. All Rights Reserved.

Windows ME/98 Wireless Utility Setting

The user can configure the wireless settings using the Wireless Adapter Configuration Utility. Double-click the utility icon that appears in the taskbar.



The Wireless Adapter Configuration Utility is divided into five sections: Link Info, Configuration, Advanced, Site Survey and About.

1. Link Information

This is the default screen after launching the Utility program.

	-	Second					
	Status:	Casasian					
Link Info	SSID:	Scanning					
	Frequency:	2442					
Configuration	Wireless Mode:	Scanning					
	Encryption:	Disable					
Advanced	Tx Rate:	54	Mbps				
Auvanocu	Channel:	7					
Cite Cumunu	- Link Quality / Sign	ial Strength:					
Site Survey	Link Ouality:			- Siar	al Strength:		
			1	- Sign	la sa ongan		
About							
	Data Rate:						
	Transmit:		0 Kbps		Receive:		0 Kbps
			6.00	10000			
				1000			
			6.6.6	10	Å Å	Δ. 4	4

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.

Frequency: Shows the current frequency used for the wireless network.

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

Encryption: Shows the current encryption mode used on the 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 USB 2.0 Adapter with the Access Point when operating under Infrastructure mode.

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

2. Configuration

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

	54Mbps W	/ireless Adapter	• Configur	ation Utility 🕺
Link Info	SSID: Wireless Mode:	ANY Infrastructure	•	Support Band
Configuration	AdHoc Band:	11b only		₩ 11B ₩ 11G
Advanced	Channel: Power Save;	6 Continuous Access Mode	·	
Site Survey	Preamble Type:	Short & Long Preamble	<u> </u>	
About				
		Apply	Cancel	
TEW-424UB				

SSID: Service Set Identifier, which is a unique name shared among all clients in a wireless network. The SSID must be identical for each 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 clients through the use of Access Points.

•Ad-Hoc – to establish point-to-point wireless communication directly with other wireless client devices.

AdHoc Band: There are two bands available for selection- 11B and 11G

Channel: The channel the AP operates on. Users can select the channel range of 1 to 11 for North America (FCC) domain and 1 to 13 for European (ETSI) and Japan (MKK) domains.

Power Mode: There are 3 modes to choose from.

•Continuous Access Mode (default) – the Wireless LAN USB 2.0 Adapter is constantly operating with full power. This mode consumes the most power.

•Maximum Power Save – the Wireless LAN USB 2.0 Adapter consumes the least power. This mode only operates when there is wireless network activity.

•Power Save – the Wireless LAN USB 2.0 Adapter consumes moderate level of power.

Preamble: Select Long or Short & Long 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 interoperates with the 1Mbps and 2Mbps DSSS specification (as

described in IEEE 802.11), and an optional Short Preamble and header (as described in IEEE 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 for the IEEE 802.11b (High- Rate) standard and not for the original IEEE 802.11 standard. That means that stations using Short-Preamble cannot communicate with stations implementing the original version of the protocol. Click "Apply" to save the changes.

Support Band: There are 2 modes the user can select; 11B and 11G. By default, 11B and 11G are enabled.

3. Advanced

This screen is where you configure the Security settings for the Wireless LAN USB 2.0 Adapter.

	54Mbps V	Vireless Adapter Config	uration Utility 🏾 😣
Link Info	Auth Mode: Encryption:	Disable WEP-Key	Configuration
Configuration	WEP Key	Network Key	Key Length
Advanced	1 2		64bits
Site Survey	3		64bits
About	4		DADICS Y
	Default Key: Format:	Key 1 Hex	×
		Apply Cancel	
TEW-424UB		Copyri	aht © 2006 TRENDnet. All Rights Reserved.

Encryption: The following options are available: Open System, Shared Key, Auto, WPA/WPA2 and WPA-PSK/WPA2-PSK. Select Open System, Shared Key or Auto for WEP data encryption feature.

Open System and **Shared Key** requires the user to set a WEP key to exchange data with other wireless clients that have the same WEP key. **Auto** automatically selects the proper authentication mode.

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

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 **Default Key:** select one of the 4 keys to use. **Key Format: ASCII** or **HEX**

If **WPA/WPA2** is selected, configuration is enabled. Please click the "**configuration**" button. The following window appears. Select the desired Certification, select the desired Certification Authority and then enter the Server/Domain name and Login Name

Define Certificate		
Select a Certificate:		
		•
Trusted Root Certification Authorities:		
Microsoft Root Certificate Authority		•
Server/Domain Name:		
Login Name:		
	OK	Cancel

If **WPA-PSK/WPA2-PSK** is selected, click the "**configuration**" button. The below window appears. Please enter a WPA Passphrase.

ne WPA-PSK / 1	WPA2-PSK	
Enter your WPA/ or 64 hexadecima	WPA2 Passphrase. 1 al characters.	This must be 8 to 63 ASCII characters
	OK	Cancel

4. 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			
Link Info	SSID	MAC(BSSID)	Signal	Refresh
	I TNET	00:11:22:00:11:22	35% (
Configuration		00:11:22:00:11:23	96%	Connect
	i kailua	00:11:22:00:11:24	33%	1
Advanced	🚺 👗 wareap11g	00:11:22:00:11:25	36%	1
	i tnet54g	00:11:22:00:11:26	75%	1
Site Survey	•		Þ	1
one our voy	- Profile -			
About	Drofile list			
About	Profile list			Add
				(Barrows)
				Remove
				Properties
				Properties
	11			() () () () () () () () () ()

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 – 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.

Remove: Deletes the selected profile

Properties: To view and change the settings of the 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.

Profile		
Profile Name	TRENDnet	
SSID	TRENDnet	
Wireless Mode	Infrastructure Supp	oort Band
AdHoc Band	11b 🔽	11B
Channel	auto 🔽	11G
Power Mode	Continuous Access Mode 💌	
Auth. Mode	Disable 💌	
Encryption	Desable	
	Config	
Default Key	Network Key	Key Length
6 1		64 bits 📃 🔽
C 2		64 bits 💌
6 3		64 bits 🔽
64		64 bits 🔍 🔽
	ASCII	
	Apply Cancel	
		-

5. About

This screen displays information about the Wireless LAN USB 2.0 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.

	54Mbps Wireles	s Adapter Configuration Utility	⊗
Link Info			
Configuration		Copyright (c) All rights reserved. Wireless LAN Configuration Utility	
Advanced			
Site Survey			
About	Adapter Information		
	MAC Address:	00-11-22-00-11-33	-
	Utility Version:	2.4.3.321	
	Driver Version:	5.1039.1201.2006	
	Regulatory Domain:	FCC	-
TEW-424UB			
		Copyright © 2006 TRENDnet. All Rights	Reserved.

MAC OS X INSTALLATION

This section will lead you to install the driver and utility of the TEW-424UB on your Apple computer with Mac OS X 10.4/10.5.

Before insert the TEW-424UB into USB port of your computer, please install the Utility Program first. Make sure that the TEW-424UB is NOT inserted into the USB slot.

Installation

1. Insert the TEW-424UB Driver & Utility CD into Mac's CD-ROM Drive



2. Browse the TEW-424UB CD-ROM and go to the MAC OS X folder.



3. Click the TEW-424UB_MAC_OS_X_1148.dmg, that is TEW-424UB driver/utility disk image file for Mac OS X.



4. Browse the disk of TEW-424UB_MAC_OS_X.dmg then go to the MacOS10.4 or MacOS10.5 folder which Mac OS X version installed on your Apple computer.



5. Double click on the install.pkg to start the installation of the TEW-424UB driver/utility.



6. Click "Continue" button.



7. Click "Continue" button.



8. Click "Continue" button.



9. Click "Agree" button.



10. Click "Install" button.

000 😺	Install Wireless USB 2.0 Adapter Driver
S	tandard Install on "Macintosh HD"
Introduction Read Me License Destination Select Installation Type	This will take 1.9 MB of space on your computer. Click install to perform a standard installation of this software on the volume "MacIntosh HD".
Installation Symmary 4 5	
	Customize Co. Rack Install

11. Input your password then click "OK" button.

	password.	quires that you type your
	Name:	mac
	Password:	
▶ Details		
2		(Cancel) OK

12. The computer will restart when the installation is done, click "Continue Installation" start the software installation.



13. When install successes, click "Restart" to reboot your computer.



14. Insert the TEW-424UB on your Mac after it's rebooted, you will found the "WLAN Client Utility" icon in the Dock menu. Click on the icon start the TEW-424UB configuration.



Uninstall

1. Double click on the Unistall.command start the un-installation of the TEW-424UB driver/utility.



2. Type in your password in Terminal windows then press "return/enter" key.



3. Finish the dirver/utility un-installation.



CONFIGURATION

The TEW-424UB for Mac OS X driver/utility supports two operation mode, either Station mode or Access point mode, select the Station mode using the TEW-424UB on your computer to connect to an access point; Otherwise, select the Access point mode allow your computer to be a wireless access point with the TEW-424UB, wireless client can connect to this computer acting as an access point and then connect to the Internet.



Station mode

Link Status

WLAN Client Utility				
Link Status	Profiles Available Network Advanced Setting Information			
MAC Address :	0018e732bb7e			
SSID :	TRENDnet670			
BSSID :	00032f000912			
Security :	WPA-PSK AFS			
Connection :	Connected			
Network Type :	Infrastructure			
Channel :	6			
Signal Strength:	100%			
	(Turn Radio Off			

MAC Address: Showing the MAC address of the TEW-424UB

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

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

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

Connection: Shows the connection state either Connected or Disconnected.

Network Type: Shows the current wireless mode used for wireless communication either Infrastructure or Adhoc mode.

Channel: Shows the current channel for communication.

Profiles

The user can create and manage the created profiles for home, work or public areas.

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

Edit: View and edit the existing profile.

Remove: Deletes the selected profile.

Remove: Duplicate the selected profile.

Apply: Selected a profile from list then click the *Apply* to connecting to the wireless network with the profile setting.

Available Network

This available network allows the user to scan for available wireless networks (adhoc wireless clients and wireless access points). It also allows the user to establish wireless communications with an available wireless network.

Asso	SSID	Chann	el Network Type	Encryption	BSSID
	TRENDnet670	6	Infrastructure	NO_ENCRYP	00032f000
	weiwei	11	Infrastructure	WEP	001cf0f52aa8
	enid	11	Infrastructure	NO_ENCRYP	0013463cd
	Joseph Station	6	Infrastructure	NO_ENCRYP	000123456
	orz	6	Infrastructure	NO_ENCRYP	001cf0fb521c
	TRENDnet	6	Infrastructure	NO_ENCRYP	0014d13f98fe
	APPLE	8	Infrastructure	WEP	020605121

Refresh: Click the "**Refresh**" button to rescan for available networks.

Connect: Select any one of the available wireless networks from list then click Connect button to establishing the wireless connection.

Advanced Setting

This available network allows the user to scan for available wireless networks (adhoc wireless clients and wireless access points). It also allows the user to establish wireless communications with an available wireless network.



Wireless Mode: Select one of the following:

- •802.11b Select if you are using the 802.11b mode to connecting to wireless AP.
- •802.11g/b Select if you are using both 802.11b/802.11g auto mode to connecting to wireless AP wireless clients.

802.11b Preamble: Define the preamble type for 802.11b mode.

QoS Mode: Enable/Disable the QoS function on the TEW-424UB.

PSP Xlink Mode: Emable/Disable the PSP Xlink Mode on the TEW-424UB.

Fragmentation Threshold: Type the fragmentation threshold in the text box. If packet transfer error rates are high, choose values between 256 and 2432 until packet transfer rates are minimized. (NOTE: set this fragmentation threshold value may diminish system performance).

RTS Threshold: Type the RTS (Request-To-Send) threshold in the text box. This value stabilizes data flow. If data flow is irregular, choose values between 0 and 2432 until data flow is normalized.

Refresh: Click to restore to previous saved setting.

Apply: Click to apply the new setting.

Set Defaults: Click to restore to default setting.

Access point mode

<u>General</u>

		Cen	ieral Ad	vance]	
SID:	lefaultAP				Configure
ISSID: 0	018e732bb7e				
Associatio	in Table				
AID	Mar Ada	dress			

This screen shows the SSID, BSSID (MAC Address) and connected wireless client list information.

Association Table: Shows the connected wireless LAN client in list.

Refresh: Click to refresh the association table.

Configure: Click to configure the TEW-424UB in AP mode.

Configure

AP Mode Configuration					
Profile Name :					
SSID :	TRENDnet				
This is a comp Channel : 6:24	uter-to-computer (AdHoc) network; woreless access points are not used. ISIT MHZ				
Wireless Network Sec	urity Properties				
This network req	uires a key for the following :				
Network Authent	cation : OPEN_SYSTEM				
Data Encryption :	No Encryption				
ASCII					
Network key :					
Confirm network	key :				
Key index (advan	ted): 1 \$				
	OK Cancel				

This screen shows the SSID, BSSID (MAC Address) and connected wireless client list information.

SSID: Type an SSID in the text box. The SSID of any wireless device must match the SSID typed here in order for the wireless device to access the LAN via the TEW-424UB in AP mode.

Channel: Select a transmission channel for wireless communications. The channel of any wireless device must match the channel selected here in order for the wireless device to access the LAN and WAN via the WLAN Router.(When in FCC domain, you could chose ch1~ch11; in ETSI domain, you could chose ch1~ch13)

Network Authentication: The authentication type default is set to "OPEN_SYSTEM". There are four options: OPEN_SYSTEM, SHARED_KEY, WPA_PSK, WPA2_PSK.

Data Encryption: The data encryption type default is set to "No Encryption", There are WEP encryption type for OPEN_SYSTEM and SHARED_KEY and TKIP or AES encryption type for WPA_PSK and WPA2_PSK.

WEP for OPEN_SYSTEM and SHARED KEY

	AP Mode Configuration	AP Mode Configuration
Profile Name :		Profile Name :
SSID :	TRENDnet	SSID : TRENDnet
This is a com	puter-to-computer (AdHoc) network; woreless access points are not used.	This is a computer-to-computer (AdHoc) network; woreless access points are not used.
Channel : 6:2	437 MHz 🛟	Channel : 6: 2437 MHz 🛟
Wireless Network Se	curity Properties	Wireless Network Security Properties
This network rec	uires a key for the following :	This network requires a key for the following :
Network Authen	tication : OPEN_SYSTEM	Network Authentication : SHARED KEY
Data Encryption	: [WEP	Data Encryption : WEP 🔷
ASCII		ASCII
Network key :	1234567890	Network key : 1234567890
Confirm network	s key : 1234567890	Confirm network key : 1234567890
Key index (advar	nced): 1	Key index (advanced) :
	OK Cancel	OK Cancel

Network key: Open System and Shared Key requires the user to set a WEP key to exchange data with other wireless clients that have the same WEP key.

Key index: Select the WEP key index between 1 and 4.

ASCII: Checked to set the key format in ACII.

TKIP/AES for WPA_PSK and WPA2_PSK

AP Mode Configuration	AP Mode Configuration
Profile Name :	Profile Name :
SSID : TRENDnet	SSID : TRENDnet
This is a computer-to-computer (AdHoc) network; woreless access points are not used.	This is a computer-to-computer (AdHoc) network; woreless access points are not used.
Channel : 6: 2437 MHz	Channel : 6: 2437 MHz 😫
Wireless Network Security Properties	Wireless Network Security Properties
This network requires a key for the following :	This network requires a key for the following :
Network Authentication : WPA_PSK	Network Authentication : WPA_PSK
Data Encryption : TKIP	Data Encryption : AES
ASCII	ASCII
Network key : 1234567890	Network key : 1234567890
Confirm network key : 1234567890	Confirm network key : 1234567890
Key index (advanced) :	Key index (advanced) :
(OK) (Cancel)	(OK) (Cancel)
AP Mode Configuration	AP Mode Configuration
Profile Name :	Profile Name :
SSID : TRENDnet	SSID : TRENDnet
This is a computer-to-computer (AdHoc) network; woreless access points are not used.	This is a computer-to-computer (AdHoc) network; woreless access points are not used.
Channel : 6: 2437 MHz	Channel : 6: 2437 MHz 📫
Wireless Network Security Properties	Wireless Network Security Properties
This network requires a key for the following :	This network requires a key for the following :
Network Authentication : WPA2_PSK	Network Authentication : WPA2_PSK
Network Authentication : WPA2_P5K 4 Data Encryption : TKIP 1	Network Authentication : WPA2_PSK Data Encryption : AES
Network Authentication : WPA2_P5K Data Encryption : TKIP ASCII	Network Authentication : WPA2_PSK : Data Encryption : AES : ASCII
Network Authentication : WPA2_P5K 4 Data Encryption : TKIP 1 ASCII	Network Authentication : WPA2_PSK Data Encryption : AES ASCII
Network Authentication : WPA2_P5K Data Encryption : TKIP ASCII Network key : 1234567890	Network Authentication : WPA2_PSK : Data Encryption : AES : ASCII
Network Authentication : WPA2_P5K Data Encryption : TKIP ASCII Network key : 1234567890 Confirm network key : 1234567890	Network Authentication : WPA2_PSK : Data Encryption : AES ASCII
Network Authentication : WPA2_P5K Data Encryption : TKIP ASCII Network key : 1234567890 Confirm network key : 1234567890 Key index (advanced) : 1	Network Authentication : WPA2_PSK : Data Encryption : AES : ASCII Network key : 1234567890 Confirm network key : 1234567890 Key index (advanced) : 1 : 0

Network key: Open System and Shared Key requires the user to set a WEP key

Technical Specifications

Hardware		
Interface	USB 2.0, 1.1, 1.0 Compliant	
Standards	IEEE 802.11b and IEEE 802.11g	
Antenna	2dBi Integrated Printed Antenna	
LED Indicator	Link	
Power	Receive Mode: 280mA	
Consumption	Transmit Mode: 410 mA	
Supported OS	Windows 98SE, ME, 2000, XP, Vista(32/64bit), Mac OS X 10.4/10.5	
Dimensions (LxWxH)	80 x 30 x 12 mm (3.1 x 1.2 x 0.5 inches)	
Weight	15 g (0.5 oz.)	
Temperature	Operating: 0° ~ 40° C (32° ~ 104° F)	
	Storage: -10° ~ 70° C (14° ~ 158° F)	
Humidity	10% ~ 95% max (Non-condensing)	
Certification	FCC Part 15.247 for US, ETS 300, 328 for Europe	
Wireless		
Wireless Module Technique	802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps)	
Wireless Module Technique	802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM	
Wireless Module Technique Frequency	 802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM 2.412 to 2.484 GHz (Industrial Scientific Medical Band) 	
Wireless Module Technique Frequency Media Access Protocol	802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM 2.412 to 2.484 GHz (Industrial Scientific Medical Band) CSMA/CA with ACK	
Wireless Module Technique Frequency Media Access Protocol Data Rate (auto fallback)	 802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM 2.412 to 2.484 GHz (Industrial Scientific Medical Band) CSMA/CA with ACK 802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps and 6Mbps **6Mbps for 802.11g using USB 1.1 or 1.0 Connection 	
Wireless Module Technique Frequency Media Access Protocol Data Rate (auto fallback) Output Power	 802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM 2.412 to 2.484 GHz (Industrial Scientific Medical Band) CSMA/CA with ACK 802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps and 6Mbps **6Mbps for 802.11g using USB 1.1 or 1.0 Connection 15dBm (typically) @ 802.11b 12dBm (typically) @ 802.11g 	
Wireless Module Technique Frequency Media Access Protocol Data Rate (auto fallback) Output Power	 802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM 2.412 to 2.484 GHz (Industrial Scientific Medical Band) CSMA/CA with ACK 802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps and 6Mbps **6Mbps for 802.11g using USB 1.1 or 1.0 Connection 15dBm (typically) @ 802.11b 12dBm (typically) @ 802.11g 	
Wireless Module Technique Frequency Media Access Protocol Data Rate (auto fallback) Output Power Receiving Sensitivity	 802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM 2.412 to 2.484 GHz (Industrial Scientific Medical Band) CSMA/CA with ACK 802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps and 6Mbps **6Mbps for 802.11g using USB 1.1 or 1.0 Connection 15dBm (typically) @ 802.11b 12dBm (typically) @ 802.11g 54Mbps 10% PER @ -68 dBm (typical) 11Mbps 8% PER @ -83 dBm (typical) 	
WirelessModuleTechniqueFrequencyMediaAccessProtocolDataRate (auto fallback)Output PowerReceiving SensitivitySecurity	 802.11b: CCK (11 and 5.5Mbps), DQPSK (2Mbps), DBPSK (1Mbps) 802.11g: OFDM 2.412 to 2.484 GHz (Industrial Scientific Medical Band) CSMA/CA with ACK 802.11b: 11Mbps, 5.5Mbps, 2Mbps, and 1Mbps 802.11g: 54Mbps, 48Mbps, 36Mbps, 24Mbps, 18Mbps, 12Mbps, 9Mbps and 6Mbps **6Mbps for 802.11g using USB 1.1 or 1.0 Connection 15dBm (typically) @ 802.11b 12dBm (typically) @ 802.11g 54Mbps 10% PER @ -68 dBm (typical) 11Mbps 8% PER @ -83 dBm (typical) 64/128-bit WEP (Hex/ASCII), WPA/WPA2, WPA-PSK/WPA2-PSK 	

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-424UB	3 years

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

TRENDnet 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 TRENDnet pursuant to any warranty.

There are no user serviceable parts inside the product. Do not remove or attempt to service the product through 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 TRENDnet 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 TRENDnet must be pre-authorized by TRENDnet with RMA number marked on the outside of the package, and sent prepaid, insured and packaged appropriately for safe shipment.

WARRANTIES EXCLUSIVE: IF THE TRENDNET PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT TRENDNET'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. TRENDNET NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION, MAINTENANCE OR USE OF TRENDNET'S PRODUCTS.

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LIMITATION OF LIABILITY: TO THE FULL EXTENT ALLOWED BY LAW TRENDNET ALSO EXCLUDES FOR ITSELF AND ITS SUPPLIERS ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (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 TRENDNET'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. <u>Note</u>: AC/DC Power Adapter, Cooling Fan, Cables and Power Supply carry 1-Year Warranty



Product Warranty Registration

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

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