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Chapter 1 Introduction

MWN-USB150N Wireless USB Adapter complies with IEEE802.11b, IEEE 802.11n standards with up to 54Mbps transmission rate.

Soft AP can help you establish wireless LAN networking with lowest cost. Besides, PBC and PIN encryption methods from WPS (Wi-Fi Protected Setup) can free you from remembering long passwords. Moreover, complete WMM support makes your voice and video more smooth. Especially supporting PSP, NDS and WII connections with Xlink Kai will be your best choice to enjoy on-line games.

1.1 Product Feature

- Supports IEEE802.11n and IEEE802.11b standards
- Provides USB2.0 port
- Provides two work modes: Infrastructure Mode and Ad-Hoc Mode

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- Provides up to 130Mbps maximum transmission rate
- Auto-detects and changes the network transmission rate
- Supports Soft AP to establish your wireless
 LAN networking
- supports PSP, WII and NDS connecting with Internet and Xlink Kai to enjoy on-line gaming
- Supports 64/128-bit WEP, WPA, WPA2 encryption methods
- Supports WPS (Wi-Fi Protected Setup) encryption method to secure your networking strongly
- Supports WMM to make your voice and video more smooth
- Easy-to-install, plug and play

1.2 Product Deployment

MWN-USB150N Wireless USB Adapter offers fast, reliable and cost- effective solution for

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wireless access. Deployment as follows;

- For staff who requires higher mobility in the office, they want to have access to traditional wired or wireless network in any place of the company;
- Enterprise or individual who requires often changes in lay out of network cables;
- Companies or places which are not suitable for LAN cable laying out because of budget or objective building, including places of great interests, rent places or places for short-term usage;
- Company or individual who avoids using expensive cables, renting cables or renting rights for access.

1.3 Indicator Description

In the front panel of MWN-USB150N, there is a LED

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indicator blinking when data communication is going on.

1.4 Package Contents

Unpack the packets, and please find the following items:

- > One MWN-USB150N Wireless USB Adapter
- ➢ One CD-ROM

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Chapter 2 Installation Guide

This chapter is to assist you how to use the included CD-ROM which comprises the Setup Wizard and the Client Utility Interface.

The following steps on Setup Wizard are taken the Windows XP as example.

1. Please insert the Wireless USB Adapter into the USB port of your computer.



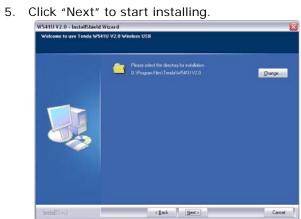
 "Found New Hardware" system dialogue appears, and selects "Cancel" to use the included Setup Wizard for fast installation; of course, you also can select "Next" to install by manual.



- Inert the included CD-ROM into the CD-ROM drive of your computer, and the Welcome screen appears. (If not appear, double click the "Setup.exe" icon.)
- 4. Click "Enter".

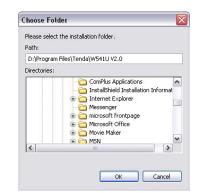
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6. Click "Change ... " to select the directory path, or click "Next".





7. Select "OK" and "Next" in the following window.

Welcome to use Tenda W	/541U V2.0 Wireless USB
	Please confirm the content's that you select and clob. "New" to start copping lifes.
	Directory for installation: D: VProgram File:/Tenda/W541U V2.0 During installation: the system will inform that this drive hash1 passed through the WHQL of Wi please dick "Continue". This driver will not affect your systems stability.
	د) <u>م</u> ارک
InstallShield	< Back Meet > Cancel

 During the installation, the following dialogue maybe appears. Click the "Continue Anyway" to continue. There is no security threat to your

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computer.



9. Click "Finish" to complete the installation.





Chapter 3 Client Utility Interface

This software is for the MWN-USB150N Wireless USB Adapter management. If it does not appear, select "Start"—"All Programs"

---"Medialink"---" MWN-USB150N", or click the shortcut on your PC's desktop.

⚠ Note:

In the Windows XP, you can select the included MWN-USB150N Client Utility Interface or the Windows XP internal wireless application to configure the device.

There are two client utility applications in MWN-USB150N: Station mode and AP mode.

▲ Note:

In this utility interface, Station Mode (Client Mode) is the default access way.

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3.1 Station Mode

3.1.1 Station Mode Topology

In this mode, MWN-USB150N serves as a client to receive the wireless signals to access the Internet.

3.1.2 Status

In the Network Status window, it displays something on wireless adapter and wireless network status, including SSID, Authentication type, Encryption Type, IP address, subnet mask and gateway and so on.

3.1.3 Site Survey

The Site Survey is used to scan the available wireless network around, showing the wireless network's signal strength and other information which provides basis for you to access which wireless network.

Connect: select one entry in the wireless network list and click the button to connect the device with the selected network.

Refresh: rescan the wireless network around.

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3.1.4 Profile Management

This window saves the general wireless parameters for different profiles, which is used to fast connect the wireless network you need.

UP/DOWN: To change the profile's sequence in the list.Connect: To activate one profile.New: To create a new profile and configure the site status and security setting.

Modify: To modify one existing profile.

Delete: To delete one existing profile.

(Security Setting)

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3.1.5 Statistics

Statistics is used to summarize Rx and Tx data packets, including the success and error packet amount.

Clear: click this button to renew the statistics.

3.1.6 WPS Setting

WPS setting is enabled only on WPS-compliant devices.

PIN: Enter the Pin code and click the "PIN" to automatically connect the wireless adapter with wireless devices around.

PBC: Click the "PBC" to complete auto-check and connections between wireless adapter and other wireless device.

Refresh: to update the Pin code.

Rescan: to rescan the WPS-compliant wireless network around.

Disconnect: to disconnect the connected wireless

network.

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3.2 AP Mode

3.2.1 AP Mode Topology

The device also can serve as an access point to transmit wireless signals and create wireless network, allowing other wireless clients to access the network.

Click the AP Mode icon to enter the AP Mode interface.

3.2.2 Basic Setting

This window is used to configure the AP's basic parameters, including SSID, Wireless Mode and Channel.

SSID: Wireless network's ID name scanned by wireless adapter.

Wireless Mode: 802.11b/802.11g/802.11b/g mixed.

Channel: 1~11 channels provided.

Restore Default: to restore the set parameters to default factory default settings.

Apply: to make the changes made take effect.

3.2.3 Security Setting

This window is used to configure the wireless network's security authentication, providing WEP, WPA-PSK, WPA2-PSK, and WPA-PSK/WPA2-PSK encryption methods.

WEP: 10/26 bits Hex or 5/13 ASCII support.WPA-PSK: 8~32 bits ASCII support.WPA2-PSK: 8~32 bits ASCII support.

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WPA-PSK/WPA2-PSK: 8~32 bits ASCII support.

▲ Note:

- The Hex characters include 0~9 numbers and a~f letters.
- 2. ASCII characters include any numbers/letters and characters.

3.2.4 Access Control

Access Control is based on the MAC address to decide that the specified client connects to the wireless network, or disables it to access the wireless network.

Filter Policy:

Disabled: to disable the filter function.

All Permitted: to permit all clients in the list to access the wireless network.

All Blocked: to refuse all clients in the list to access the wireless network.

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MAC Address: to input the client's MAC address to implement the corresponding filter policy. For example: b0000a8cd702.

Add: to add the entered MAC address into the list. **Delete**: to delete one existing MAC address in the list.

Remove All: to delete all clients' MAC address in the list.

Apply: to make the changes made take effect.

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3.2.5 About

This window displays something about software version and wireless adapter.

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Appendix One: Acronyms and Terms

WLAN	Wireless Local Area Network	
802.11	A family of specifications developed by	
	the IEEE for WLAN technology.	
802.11a	An extension to 802.11 WLAN standard	
	that provides up to 54 Mbps transmis-	
	sion in the 5 GHz UNI radio band.	
802.11b	An extension to 802.11 WLAN standard	
	that provides up to 11 Mbps	
	transmission in the 2.4 GHz ISM radio	
	band. 802.11b uses DSSS modulation.	
802.11g	An extension to 802.11 WLAN standard	
	that provides up to 54 Mbps	
	transmission in the 2.4 GHz ISM radio	
	band. 802.11b uses OFDM modulation	
	and is backwards compatible with	
	802.11b.	
Ad-Hoc	A group of computers each with wireless	
	adapters, connected as an independent	
	WLAN.	
AES	Advanced Encryption Standard	

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BSSID	Basic Service Set ID		
DHCP	Dynamic Host Configuration Protocol		
DSSS	Direct Sequence Spread Spectrum.		
	DSSS is one of two types of spread		
	spectrum radio. The other is		
	frequency-hopping spread spectrum		
	(FHSS).		
QoS	Quality of Service		
OFDM	Orthogonal Frequency Division		
	Multiplexing		
RADIUS	Remote Authentication Dial In User		
	Service		
RTS	Request to Send		
SSID	Service Set Identifier. A 32-character		
	unique identifier attached to the header		
	of packets sent over a WLAN that acts as		
	a password when a mobile device tries		
	to connect to the BSS.		
TCP/IP	Transmission Control Protocol/Internet		
	Protocol		
ΤΚΙΡ	Temporal Key Integrity Protocol		
WDS	Wireless Distribution System		

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WEP	Wired Equivalent Privacy. A security		
	protocol for		
	WLANs defined in the IEEE 802.11		
	standard.		
WPA	Wi-Fi Protected Access		
WPA2	Wi-Fi Protected Access 2. The next		
	generation of		
	Wi-Fi security, based on the 802.11i		
	standard.		
WPA2-PSK	Wi-Fi Protected Access 2-Pre-shared		
	Keys		
	Wi Ei Protected Access Dra shared Kovs		

WPA-PSK Wi-Fi Protected Access-Pre-shared Keys

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Standard	IEEE802.11g, IEEE802.11b, IEEE802.11e (QoS)
Port	USB2.0
Frequency Range	2.4~2.4835GHz
Transmission Rate	 130Mbps, 117Mbps, 104Mbps, 78Mbps, 52Mbps, 39Mbps, 26Mbps, 13Mbps, 65Mbps, 58.5Mbps, 52Mbps, 39Mbps, 26Mbps, 19.5Mbps, 13Mbps, 6.5Mbps, 54 Mbps, 48 Mbps, 36 Mbps, 24 Mbps, 18 Mbps, 12 Mbps, 9 Mbps, 6 Mbps, 11 Mbps, 5.5 Mbps, 2 Mbps, 1 Mbps
Transmission Power	Max. 10.5dbm
Modulation Method	OFDM, CCK
Working Temper.	0°C~40°C
Storage Temper.	-40℃~70℃
Working Humidity	10%~90%RH non-condensing

Appendix Two: Product Specification

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Appendix Three: How to connect with PSP

- 1. Topology of PSP connecting with $\ensuremath{\mathsf{MWN-USB150N}}$
- 2. To configure PSP with Ad-Hoc mode

Select Network Settings



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Select Ad-Hoc mode



2.3 Select Channel



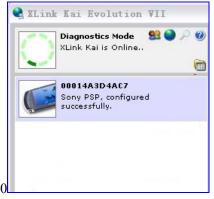
- 3. In MWN-USB150N Utility Interface scan PSP and double-click to connect the wireless network.
- 4. In Site Survey check "enable PSP connection mode" box.
- 5. To configure Xlink Kai

Select "Start" \rightarrow "All programmers" \rightarrow "Xlink Kai Evolution VII" \rightarrow "Start Kai Config" to configure the user name, password and other parameters as follows.

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6. Login Xlink Kai

Select "Start" \rightarrow "All programmers" \rightarrow "Xlink Kai Evolution VII" \rightarrow "Start Kai". PSP will connect with Xlink Kai automatically. The following window will indicate the connection is established well now.



FCC 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,

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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 or more 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.

To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of FCC RF 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 the device.

Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.