

# IEEE802.11n Wireless USB Adaptor

RF Adjustable High Power Adaptor

# NSU-11NP10-2

**User Manual** 

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#### IEEE802.11n High Power USB Adaptor User Manual

#### Section 15.21 Information to user

Caution: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

To comply with FCC RF exposure requirements, the device and the antenna for this device must be installed to ensure a minimum separation distance of 20 cm or more from a person's body. Other operating configurations should be avoided.

#### Section 15.19 Labeling requirements

#### (a)(3)

All other devices shall bear the following statement in a conspicuous location on the device:

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.

#### Section 15.105

Note: 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 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.

#### Rule of 15.247

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitte

# IEEE802.11n High Power USB Adaptor User Manual Table of Contents

Chapter 1: Introduction	5
1-1 Features	5
1-2 Applications	5
1-3 Package Contents	6
Chapter 2: Installation	7
Chapter 3: General Configuration	12
3-1 Profile Management	12
3-1-1 System Configuration	13
3-1-2 Authority / Encryption	14
3-1-3 802.111x	14
3-2 Network Configuration Utility	16
3-2-1 Configuration Utility	17
3-2-2 Connection to Access Points	
3-3 Advanced Settings	19
3-4 Network Statistics	20
3-5 WMM Setting	21
3-6 WPS Configuration	23
3-7 Radio ON/OFF	25
3-8 About	25
Appendix: Glossary	35

# Chapter 1 INTRODUCTION

NSK-11NP10-2 employs the most advanced wireless networking technology, IEEE802.11n. By using the reflection signal, 802.11n's "Multiple In, Multiple Out" (MIMO) technology increases the range and reduces "dead spots" in the wireless coverage area. Unlike ordinary wireless networking of 802.11b/g standards that are confused by wireless reflections, MIMO can actually use these reflections to increase four times transmission range of 802.11p products. Besides, when both ends of the wireless link are 802.11n products, MIMO technology can utilize twice radio band to increase three times transmission speed of ordinary 802.11g standard products, and can comply with backwards 802.11b/802.11g standards.

## 1.1 Feature

- 2.4Ghz ISM unlicensed band.
- Compliant with IEEE 802.11n, IEEE 802.11g & IEEE 802.11b
- Provides USB1.1/2.0 interface
- Provides 150Mbps Uplink and 150Mbps Downlink data rate
- Supports 20MHz/40MHz frequency width
- Auto-detects and changes network transmission rate
- Supports 64/128-bit WEP, WPA, WPA2 encryption methods and 802.1x security authentication standard
- Supports WMM for seamless voice and video transmission
- Supports Windows XP, 2000, Vista & MAC etc.

## 1.2 Deployment

NSU-11NP10-2 Wireless USB Adapter offers a fast, reliable and

cost-effective solution for wireless access. Deployment as follows:

- 1. For company personnel who require wireless mobility and access to network anywhere in the organization.
- 2. Enterprise or residential users who would like to convert from wired to wireless network.
- 3. Limited budgets for cabling and particular locations such as hotels or conference rooms where wired networking is not handy.

## **1.3 Package Contents**

Please check the content of package for items described below:

## NSU-11NP10-2

- One NSU-11NP10

Wireless USB Adapter

- One 2dbi Dipole

Antenna

- One USB cable

If any of listed items are missing or damaged, please contact the reseller or distributor from whom you purchased for replacement immediately.

# **Chapter 2 Installation Guide**

This chapter will assist you in using the included CD-ROM for driver and configuration utility installations. While installing the configuration utility, the driver program will install automatically.

The following installation steps were based on Windows XP. Installation steps on other operating systems please refer to the User Guide and the instructions on OS to follow.

1. Insert the wireless USB adapter into the USB interface of your computer.



2、 "Found New Hardware" system dialogue appears, and selects "Cancel".



3. Insert 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.)



 If there is no wireless USB adapter or incorrect connection, the following window will appear. Click "Yes" to connect the wireless USB adapter mentioned step 1.

Question	N	×
?	Please insert Wireless USB Adapter, click "Yes" to continue installation, click "No" to Cancel.	

5. Click "Next" to select the setup path, or you also can click "Change" to change the path or folders.



IEEE802.11n High Power USB Adaptor User Manual

6、 Click "Next" to confirm the setup path.



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



8、 Click "Finish" to complete the installation.



 The NSU-11NP10-2 will appear on the screen. Please select the AP you would like to connect and press "Connect" button and fill in the security information, then click "OK" to proceed to the wireless network.

Con	ngUl									1
(1)	Profile		Network	Advanced	Statistics		() VPS	Radio On/Off	ADOUT.	
Serted	bu ==	0	\$90	· Charry	el 🦉	Signal.		🗆 Show dite		
) ski W	/vertex LAN			む: む:	890	528 <b>5</b> 28		-		
	escan		Connect	Add to Profile						
	200.5	+ 10	-+ 08-80-40-2	5-60-98			Line	Ought in 1805	_	
	Extra Mb >	+ 1.8	A KUP (ToPose	H118082			Signa	itrangth 1 ++ Whs		
	Channel >	. 1 .	-+ 3412 MPtz; 0	central channel : 0			Stands	Hrongth 2 ++ \$30%		
AF	heidkietkin	+ 1,0	(source)				Neize	Steength +> 28%		
	Escryption +	in Ma	nel.							
1.000	fuen type i	* 14	and success			Trakind	<u> </u>			
- 19								10.40		
	P Address >	** 18	2.168.0.100			LYA	Speed ++ 1907	0 MORO		
	P Address >	10 1Q	2.168.0.100			live Theo	ugtput >> 0.92	9 H0go 9 H0go 9 1000		
Defe	P Address > 3.8 Ait 9 - Jit Gabeway >	·· 校 ·· 25 ·· 校	2.168.0.100			ltva	i Speed ++ 1907 ugtput ++ 0.92	0 HDp1 (,000 8300		
Defe	P Address > 3.8 Arch > .It Gabeway >	+ 12 + 25 + 19	2. 108.0. 100 5. 255. 255.0 2. 108.0.1 HT			Itvo Receive	i Speed 1907 ughput 0.90	9 H0go 9 H0go 9 K0go 8 200	damat	
Defe	IP Address > 3.8 Alexie - JR Gateway > ++ 40	++ 12 ++ 25 ++ 19	2. 168.0. 100 5. 255. 255.0 2. 168.0. 1 HT	940 ++ 30		Lyn Thys Receise Lyn	( Speed 1907 ugtput 0.92	Alleys Alleys	1	

# Chapter 3 How to Use the Wireless Utility Interface (Client Mode)

This Utility Interface is provides basic configuration functions to NSU-11NP10-2 Wireless USB Adapter management. If the UI does not appear automatically, please select from the CD to run the application.

# 3.1 Profile Management

🗘 Con	figUl								
4	Profile	Network	Advanced	) Statistics	WMM	<b>Ø</b> WPS	Radio On/Off	About	
		Profil	e List						
						Profile Name	5>>		
						SSIE	) >>		
						Network Type	3 >>		
						Authentication	1 >>		
						Encryption	1>>		
						Use 802.1>	<>>		
						Channe	l >>		
					Po	wer Save Mode	e >>		
						Tx Power	r>>		
						RTS Threshold	1 >>		
					Frag	ment Threshold	d >>		
-	Add	Edit	Delete	Activate					
-	Add	Edit	Delete	Activate	-				

## Profile List

Profile can book keeping your favorite wireless setting among your home, office, and other public hot-spot. You may save multiple profiles, and activate the correct one at your preference in the profile list.

♦ Add: Click this button to add a new profile

P=	1.1	1	ARE .	Ma	A	$\odot$	53
Profile	Network	Advanced	Statistics	WMM	WPS	Radio On/Off	About
	pes	a List					
	Prois	8 LDL			Profile Name >>		
					ssid >>		
					Network Type >>		
					Authentication >>		
					Encryption >>		
					Use 802.1x >>		
					Channel >>		
				Po	wer Save Mode >>		
					Tx Power >>		
					RTS Threshold >>		
				Frag	ment Threshold >>		
Add	Edit	Delete	Activate				
System Config	Auth. \ Er	ncry. 8	021X				
				_			
Profil	le Name >>  PROF	1			Network Ty	pe >> Infrastructi	Jre 🔻
	SSID >>		-		T× Pow	er>> Auto	•
Power Sav	ve Mode >> 🙆 (	CAM 🥝 PSM			Pream	ole >> Auto	~
RTS Threshold		0			2347	2347	
Fragment Thr	eshold	256 _			2346	2346	

#### IEEE802.11n High Power USB Adaptor User Manual

## System Configuration

- Profile Name: Specify one name for the profile
- SSID: Name of intended wireless network, User can key in the intended SSID name or use pull down menu to select from available APs.
- Network Type: you can select one from Infrastructure and 802.11 Ad-hoc modes
- Tx Power: Transmit power, the amount of power used by the wireless adapter to send the signal out.
- Power Save Mode: Choose from CAM (Constantly Awake Mode) or PSM (Power Saving Mode).
- RTS Threshold: you can adjust the RTS threshold number by sliding the bar or key in the value directly.

Fragment Threshold: you can adjust the Fragment threshold number by sliding the bar or key in the value directly.

## > Authority / Encryption.

Authority / Encryption is to set the wireless authentication type and encryption type. It is by the encrypted AP based on security authentication that the device is connected to wireless network.

Config	UI								Þ
	Profile	Network	Advanced	) Statistics	WMM	<b>Ø</b> WPS	Radio On/Off	About	
		Profik	e List						
						Profile Name	8 >>		
						SSIE	) >>		
						Network Type	8 >>		
						Authentication	1>>		
						Lice 802. 1	())		
						Channe	1>>		
					Po	wer Save Mode	e >>		
						Tx Power	r>>		
						RTS Threshold	1>>		
					Frag	ment Threshold	1 >>		
Ad	id .	Edit	Delete	Activate					
Syste	em Config Authenticatio	Auth. \ Er	nory.	021X Encryption >	> None 🗨		□ 802.1X		
	WD4 Drochou	rod Kou sa	•	Literypeterr	· None •	·		1	
	WFAFICSIG								
Wep K	ey								
0	Key#1	Hexadeo	cimal 🔻 🗌						
0	Key#2	Hexadeo	simal 👻 🗌						
0	Key#3	Hexadeo	simal 👻 🗌						
0	Key#4	Hexadec	cimal 💌 🗌				S	how Password	ł
				OK	Cancel				

### ≻ 802.1X

It is an advanced encryption mode based on Radius server or authentication credentials.

ConfigUI							
Profi	le Network	Advanced	) Statistics	NAMA	<b>Ø</b> WPS	Radio On/Off	About
	Profil	e List					
				Pc	Profile Name SSIC Network Type Authentication Encryption Use 802.1x Channe ower Save Mode	>> >> >> >> >>	
Add	Edit	Delete	Activate	Frag	RTS Threshold	>>  >>	
System ct		ncry. o	0217				
ID	PASSWORD	Client Ce	rtification	Server Ce	-MSCHAP V2	Session	Resumption
Tunnel ID	Identity >>		Password >>			nin Name >>	
	Identity >>		Password >>	Show Pass	word		
			ОК	Cancel			

#### IEEE802.11n High Power USB Adaptor User Manual

- ◆ Edit: Edit an existing profile.
- ◆ Delete: Delete an existing profile.
- Activate: Activate selected profile

#### Note:

 A SSID is the public name of a wireless network. Only the same SSID can communicate with each other on a WLAN.
 You need to know and keep the same authentication mode and encryption method on a WLAN.

# 3.2 Network Configuration Utility

Under this function, system will display the information of surrounding APs from last scan result. List information includes SSID, Signal, and Channel and so on as shown below.



- Rescan: Issue an rescan command to wireless NIC to update information on surrounding wireless network
- ◆ Connect: Click this button to connect to the selected network.
- Add to Profile: Add the selected AP to Profile setting. It will bring up profile page and save user's setting to a new profile.

#### IEEE802.11n High Power USB Adaptor User Manual

Click right corner **I** icon to display the information on Wireless adapter and AP. It contains Status, Authentication, Encryption, Network Type, IP address, Sub Mask, Default Gateway, Link Speed, Channel, signal/Noise Strength as shown below.



Select one wireless network in AP list and double click it, you can view the detailed information about this access point as shown below.

Profile     Network     Advinced Serted by     State     State     Struct     WLAN     Sector	Statistics	Signal se 1208	Ø	Radio On/Off	About.	
Serted by	-1	Signal ** 100%		i Show đồn		
skyvertex 🔥 i WLAN 🕉 c	890 89	HOEN SEX				
WLAN 🕹 t	Ċ.	528				
Acres Count Mittabella						
And the second sec						
Ganeral WPS C						1
150 >> Tenda AwC Address >> 00-10-18-81-08-aF		0	and Character a	- 0%		
authentication Type >> Latezoen	-54	pported Rates pr	epc)			
Enorgation Type >> None	1,2	2, 5.5, 11, 18, 24	, 36, 94, 6, 9, 1	u. #		
Channel an 6 anno 2427 MHz						
Beacon Internet In 180						
	-					

## 3.3 Advanced Settings

The following figure shows Advance function of UI

😳 Conf	igUl								
4	Profile	La Network	Advanced	Statistics	WAWA	<b>Ø</b> WPS	Radio On/Off	About	-
Wireless	; mode >>	802.11 B/G/N m	ix 🔽	Enable C	CX (Cisco Compat	ible eXtension	s)		
				🔲 Turn	on CCKM				
				🔲 Enabl	e Radio Measuren	nents			
Er	able TX Burst				Non-Serving Char	nel Measureme	ents limit 250 ms		
Er	able TCP Wind	ow Size							
🗌 Fa	ast Roaming at	-70 dBm							
□ s⊦	ow Authentica	ition Status Dialog							
	Select Yo	ur Country Region	Code						
11 B/G :	·> [	0: CH1-11	•						
	áonly.								
-									-

- Wireless mode: Select wireless mode. 802.11 B, 802.11 B/G mix, 802.11 B/G/N mix modes are supported;
- Enable TX Burst: Tenda's proprietary frame burst mode;
- Enable TCP Window Size: Enhance throughput;
- ◆ Fast Roaming at: fast to roaming, setup by transmit power;
- Show Authentication Status Dialog: When you connect AP with authentication, choose whether show "Authentication Status Dialog" or not. Authentication Status Dialog display the process about 802.1x authentication;
- Enable CCX (Cisco Compatible eXtensions): support Cisco Compatible Extensions function;
- Enable Radio Measurement: can channel measurement every

0~2000 milliseconds;

- ◆ Select Your Country Region Code: eight countries to choose;
- ◆ Apply: Click Apply to implement changes made.

## **3.4 View Network Statistics**

Statistics page displays the detail counter information based on 802.11 MIB counters. This page translates that MIB counters into a format easier for user to understand

## Show Transmit Statistics

onfigUl								
Profile	Left Network	Advanced	) Statistics	www.	<b>Ø</b> WPS	Radio On/Off	About	0
Transmit	Rece	ive						
Frames Transr	mitted Successfully			-			423	
Frames Retrar	nsmitted Successful	ly		=		222		
Frames Fail To	Receive ACK After	All Retries		-			2	
RTS Frames Su	ccessfully Receive	CTS		-			0	
RTS Frames Fa	ail To Receive CTS						0	
Reset Counter	í							

Show Receive Statistics

#### ConfigUI 6 P= 0 ۲ WPS Radin On/Off Profile Network Advanced Statistics WAAAA About Transmit Receive Frames Received Successfully 164 Frames Received With CRC Error 608 Frames Dropped Due To Out-of-Resource n Duplicate Frames Received 0 Reset Counter

#### IEEE802.11n High Power USB Adaptor User Manual

Reset Counter: Reset counters to zero

### 3.5 WMM Setting

The following figure shows WMM function of UI. It involves "WMM Enable", "WMM - Power Save Enable" and DLS setup. The introduction indicates as follow:

😳 Conf	igUl								×
•	Profile	LLL Network	Advanced	Statistics	WAWA	<b>Ø</b> WPS	Radio On/Off	About	
-WMM S	Setup Status —								
	WMM >> E	nabled	Power Save >>	Disabled			Direct Link >>	Disabled	
, i i i i i i i i i i i i i i i i i i i	🔄 WMM Enable	e							
		- Power Save Enat	ble						
		AC_BK	AC_BE		AC_VI	AC_VO			
	Direc	t Link Setup Enabl	e						
	h	AC Address >>			Timeout Value >>	60 sec	Apply		
		1				1	Tear Down		
							1331 3370		

WMM Enable: Enable Wi-Fi Multi-Media;

- ◆ WMM Power Save Enable: Enable WMM Power Save;
- ◆ Direct Link Setup Enable: Enable DLS (Direct Link Setup).

## Example to Configure to Enable DLS (Direct Link Setup)

- 1、Click "Direct Link Setup Enable"
- Change to "Network" function. And add a AP that supports DLS features to a Profile. The result will look like the below figure in Profile page.

😳 Cont	figUl								
-	Profile	Letwork	Advanced	Statistics	WAWA	<b>Ø</b> WPS	Radio On/Off	About	•
WMM	Setup Status —								
	₩₩₩ >> E	nabled	Power Save >>	Disabled			Direct Link >>	Disabled	
	WMM Enable								
	WMM	- Power Save Enab	le						
		AC_BK	AC_BE		AC_VI	AC_VO			
	Direc	t Link Setup Enable	e						
	6	AC Address >>			Timeout Value >>	60 sec	Apply		
		1				,	Tear Down		
-									•

3、The setting of DLS indicates as the following:

Fill in the blanks of Direct Link with MAC Address of STA. The STA must conform to two conditions as follow:

- a. Connect with the same AP that supports DLS features.
- b. Have to enable DLS.

#### IEEE802.11n High Power USB Adaptor User Manual

Cont	figUl								
	Profile	LLL Network	Advanced	) Statistics	www.	<b>Ø</b> WPS	Radio On/Off	About	
WMM	Setup Status WMM >> Ei	nabled	Power Save >>	Disabled			Direct Link >>	Enabled	
(	WMM Enable	•							
	WMM	- Power Save Enal	ble						
		AC_BK	AC_BE			AC_VO			
	۵	AC Address >> 0	0 0 43 28	60 00	Timeout Value >>	60 sec	Apply		
							Tear Down		

4, Timeout Value means that it disconnects automatically after some seconds. The value is in integer. The integer must be between 0~65535. If the value is zero, it means that the device is always connected. Default value of Timeout Value is 60 seconds.

5、 Click "Apply" button. The result will look like the following figure.

WMM Setu	WM Setup Status WMM >> Enabled		Power Save >> Disabled			Direct Link >> Enabled		
	wжж	Enable						
		WMM - Power Save Enable						
		AC_BK	AC_BE	AC_VI		AC_		
		Direct Link Setup Enable						
		MAC Address >> 00	0c 43 28 60 00	Timeout	Value >>	600 S	ec	Apply
			00-0C-43-28-60-00	600				Tear Down

As the up figure, after configuring DLS successfully, show MAC address of the opposite side and Timeout Value of setting in "DLS Status".

6. Disconnect: Select a direct link STA, Click "Tear Down" button to

disconnect.

# **3.6 WPS Configuration**

WPS: The primary goal of Wi-Fi Protected Setup (Wi-Fi Simple Configuration) is to simplify the security setup and management of Wi-Fi networks. This UI supports the configuration setup using PIN configuration method or PBC configuration method.

😳 Con	figUl								
•	Profile	La Network	Advanced	) Statistics	WAWA	() WPS	Radio On/O	ff About	
-				WPS A	P List				1
	ID :	EC	DIMAX		00-0E-2E-DE-72-04	11	6	Rescan Information Pin Code 0647184 Renew	
		WPS Pr						onfig Mode	
							E	nrollee 💌	
								Connect	
								Rotate	
								Disconnect	
	<u>PIN</u>	WPS Asso	ociate IE		Progress >> 09	6		Export Profile	
	P <u>B</u> C	WPS Prot	be IE				-	Delete	-

- WPS AP List: Display the information of surrounding APs with WPS IE from last scan result. List information includes SSID, BSSID, Channel, ID (Device Password ID), Security-Enabled.
- Rescan: Issue a rescan command to wireless NIC to update information on surrounding wireless network.
- Information: Display the information about WPS IE on the selected network. List information includes Authentication Type, Encryption Type, Config Methods, Device Password ID,

Selected Registrar, State, Version, AP Setup Locked, UUID-E and RF Bands

- PIN Code: 8-digit numbers. It is required to enter PIN Code into Registrar using PIN method. When STA is Enrollee, you can use "Renew" button to re-generate new PIN Code.
- Config Mode: Our station role-playing as an Enrollee or an external Registrar

### Control items on credentials:

- 1. Detail: Information about Security and Key in the credential.
- 2. Connect: Command to connect to the selected network inside credentials.
- 3. Rotate: Command to rotate to connect to the next network inside credentials.
- 4. Disconnect: Stop WPS action and disconnect this active link.
- 5. Export Profile: Export all credentials to Profile.
- 6. Delete: Delete an existing credential.
- ◆ PIN: Start to add to AP using PIN configuration method
- ◆ PBC: Start to add to AP using PBC configuration method

Note: When you click PIN or PBC, please don't do any rescan within two-minute connection. If you want to abort this setup within the interval, restart PIN/PBC or press Disconnect to stop WPS

- WPS associate IE: Send the association request with WPS IE during WPS setup.
- WPS probe IE: Send the probe request with WPS IE during WPS setup.
- Progress Bar: Display rate of progress from Start to Connected status.

◆ Status Bar: Display currently WPS Status.

# 3.7 Radio On/Off

Turn on/off the wireless radio.

# 3.8 About

About function displays the wireless card and driver version information as shown below.

Cost	ngUl								×
4	Profile	Network	Advanced	Statistics	Willia	<b>O</b> WPS	Radio On/Off	About	-
		Recent	1 Version 1 + 2.8.3		Date	+= 01-87-2308			
		Deter	Versteri ++ 1.8.4	8	Dota	07-25-2907	n		
		EEPROA	Wersten ++ 1.2						
		Pitterat	Wittim >> 8.7						
		Phy	Address >> 80-04	-66-11-22-08					

# Appendix One: Glossary

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 transmission 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					
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
TKIP	Temporal Key Integrity Protocol
WDS	Wireless Distribution System
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
WPA-PSK	Wi-Fi Protected Access-Pre-shared Keys