

User Guide



W301A Wireless N300 Ceiling Access Point

WH302A Wireless N300 High Power Access Point



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Preface

Thank you for choosing Tenda! Please read this user guide before you start! This user guide instructs you to install and configure the device.

Convention

Icon	Description
•	This format is used to highlight information of importance or
∧ Note	special interest. Ignoring this type of note may result in ineffective
	configurations, loss of data or damage to device.
Ö	This format is used to highlight a procedure that will save time or
¥ Tip	resources.

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Contents

Contents	4
Chapter 1 Product Overview	6
1.1 Package Contents	6
1.2 Hardware Description	
LEDs, Interfaces and Buttons	6
1.3 Installation Considerations	7
Chapter 2 Installation	8
2.1 Physical Installation	
2.2 Configure Your PC	
2.3 Connect to Your Device Wirelessly	
Windows 7	
Windows XP	
Chapter 3 Advanced Settings	14
3.1 Web Login	14
3.2 Status	
3.2.1 System Status	
3.2.2 Wireless Status	
3.2.3 Traffic Statistics	
3.2.4 Wireless Clients	
3.3 Quick Setup	
3.3.1 AP Mode	
3.3.2 WDS Mode	
3.3.3 AP Client Mode	
3.4 LAN Setup	
3.5 Wireless	
3.5.1 Basic	
3.5.2 Radio	
3.5.3 Advanced	
3.5.4 Access Control	
3.6 SNMP	23
3.7 Tools	
3.7.1 Maintenance	

Tenda

	3.7.2 Time	25
	3.7.3 Logs	26
	3.7.4 Configuration	27
	3.7.5 Username & Password	29
	3.7.6 Diagnostics	29
App	endix	30
1	Configure PC TCP/IP Settings	30
	Win7 OS Configuration	30
	Windows XP OS Configuration	32
2	2. FAQs	35
Э	8. Default Settings	36
Z	I. Safety and Emission Statement	37

Chapter 1 Product Overview

The wireless AP, mini and exquisite, is a best-in-class 802.11n indoor access point designed specifically for wireless projects. With existing structure, the device saves time and costs and provides an adequate level of service for all users who connect with legacy 802.11b/g adapters in addition to the latest 802.11n adapters for faster downloads and instant communication. Versatile and powerful, the wireless AP offers multiple security modes, which makes your data transmission safe.

1.1 Package Contents

Please verify that the package contains the following items:

- Wireless AP
- Power Adapter
- Screws
- Ethernet Cable
- Bracket
- Install Guide

If any of the above items are incorrect, missing, or damaged, please contact your reseller for immediate replacement.

1.2 Hardware Description

LEDs, Interfaces and Buttons



LED	Status	Description
Blinking SYS Off		The device is functioning properly.
		The device is receiving no electrical power or the LED is disabled manually via Web interface.
	Solid	The device is functioning improperly.





- Reset: Press it for over 7 seconds with a needle to restore factory default settings (see <u>Appendix---3</u>.
 <u>Default Settings</u>.
- Power Interface: Used for connecting the included power adapter.
- LAN / PoE: PoE port for connecting to power supply or an IEEE 802.3at compliant PoE switch;

1000M Ethernet port for connecting to an Ethernet device such as a PC or switch, etc.

1.3 Installation Considerations

For better performance, it is advisable to place the device:

- Away from electrical devices that are potential sources of interference, such as ceiling fans, home security systems, microwaves, etc.
- Away from any large metal surfaces, such as a solid metal door or aluminum studs.
- Away from large expanses of other materials such as glass, insulated walls, fish tanks, mirrors, brick, and concrete can also affect your wireless signal.

Chapter 2 Installation

2.1 Physical Installation

Tip-----1. The PoE switch should be IEEE 802.3at compliant.
2. With a PoE device, it is advisable to connect to the PoE device for power supply; Without a PoE device, please use the included power adapter for power supply.

Connect to a PoE Device

Step 1: Insert the Ethernet cable into the bracket (Recommended: Cat5, Cat5e or higher);

Step 2: Install the bracket onto the ceiling (Drill 4 holes on the ceiling, maneuver the bracket until it fits in the holes on the ceiling and then fix the bracket onto the ceiling with the included screws.);



Step 3: Connect the Ethernet cable to the LAN port of the device;

Step 4: Fix the device onto the bracket;



Step 5: Connect the other end of the Ethernet cable to a PoE port on an IEEE 802.3at-compliant switch;





Step 6: Check the network topology as shown below:



Connect to a Power Outlet with the Included Power Adapter

Step 1: Insert the Ethernet cable and power cord into the bracket;

Step 2: Install the bracket onto the ceiling (Drill 4 holes on the ceiling, maneuver the bracket until it fits in the holes on the ceiling and then fix the bracket onto the ceiling with the included screws.);



Step 3: Connect the Ethernet cable and power cord to the device;

Step 4: Fix the device onto the bracket;





Step 5: Connect the other end of the Ethernet cable to a switch and plug the included power adapter into a power outlet;



Step 6: Check the network topology as shown below:



2.2 Configure Your PC

The default IP address of your wireless access point is 192.168.0.254. If you are using the default IP subnet, the computer you are using to connect to the device should be configured with an IP address that starts with 192.168.0.X (2~253) and a Subnet Mask of 255.255.255.0; if you have changed the subnet of the wireless access point, the computer you are using to connect must be within the same subnet. If you are not clear about this configuration, please refer to <u>Appendix ---1. Configure PC TCP/IP Settings.</u>

2.3 Connect to Your Device Wirelessly

Having finished above settings, you can search for the device's default wireless network (SSID) from your wireless devices (notebook, iPad, iPhone, etc) and enter a security key to connect to it wirelessly.

Ö

Тір -----

- 1. The device's SSID is Tenda_XXXXXX by default and XXXXXX is the last six characters of the MAC address which you can find on this device's label.
- 2. To join your wireless network, the PC you use must have an installed wireless network adapter. If not, install one.



Windows 7

P

Tip

1. Click the icon desktop; at the bottom right corner on your desktop;

If you cannot find the icon *internet*, try disabling the wired network adapter or unplug the Ethernet cable from the wired network adapter of your PC and refresh your desktop. If the problem remains unsolved, click **Start > Control Panel > Network and Internet > Network and Sharing Center**, right click **Wireless Network Connection** and click **Connect/Disconnect**. Steps for this are similar to the following.



2. Select the wireless network you wish to connect and click Connect;

Currently connected to: Network 4 Internet access	÷7	4 III
Wireless Network Connection	on 🔺	
Tenda_0FF02D	lin.	
Connect automatically	Connect	
Tenda_5	3 11	
Default_5G	9 11	
Default_2.4G	3 11	
123	9 11	
Tenda_020070	3 11	
WAYOS	<u>\$</u> 41	-
Open Network and Sh	aring Center	



3. Enter the security key and click **OK**;

inore ore,		
Connect to a Net	twork	— X —
Type the netwo	ork security key	
.,,,	,	
<u>S</u> ecurity key:	•••••	
	✓ <u>H</u> ide characters	
		OK Cancel

4. When you see **Connected** displayed next to the wireless network you've selected, you have connected to the wireless network successfully.



Windows XP

1. Right click My Network Places from your PC's desktop and click Properties;





2. Right click Wireless Network Connection and select View Available Wireless Networks;



3. Double click the wireless network you wish to connect;

⁽¹⁷⁾ Wireless Network Connect	tion			×
Network Tasks	Choose	e a wireless network		
🛃 Refresh network list	Click an iter information	n in the list below to connect to a wireless network in range or to get .	more	
Set up a wireless network for a home or small office	((ဓူ))	Tenda_5G_4BC730	2	^
	U	Unsecured wireless network	•000U	
Related Tasks	((0))	Tenda_5G_000058		
(i) Learn about wireless		Unsecured wireless network	e 000]	
" networking	((0))	Test_yanf_w85ap-5		
Change the order of preferred networks		😚 Security-enabled wireless network (WPA)	. 000]	
🍄 Change advanced	((Q))	F2		
settings	U	😚 Security-enabled wireless network (WPA2)	uil	
	((Q))	Tenda_0FF02D		
		🔓 Security-enabled wireless network (WPA)	1000	3
		To connect to this network, click Connect. You might need to enter additional information.		
				~
			Connect	

4. Enter the security key and click Connect;

Wireless Network Conne	ection 🛛 🔀
The network 'Tenda_0FF02D' network key helps prevent ur Type the key, and then click (requires a network key (also called a WEP key or WPA key). A nknown intruders from connecting to this network. Connect.
Network <u>k</u> ey:	•••••
Confirm network key:	••••••
	<u>C</u> onnect Cancel

5. When you see **Connected** displayed next to the wireless network you've selected, you have connected to the wireless network successfully.

⁽⁽)) Wireless Network Connect	ion	
Network Tasks	Choose a wireless network	
🚭 Refresh network list	Click an item in the list below to connect to a wireless network in range o information.	r to get more
Set up a wireless network	((Q)) Tenda_0FF02D	Connected 👷 🛆
	Security-enabled wireless network (WPA)	- 000
Related Tasks	((Q)) ^{tjw_jjj}	
(j) Learn about wireless	Unsecured wireless network	
networking	((Q)) Tenda_00006E	
Change the order of preferred networks	Unsecured wireless network	0000
🍄 Change advanced	((Q)) PTCL-BB-IPTVa	
settings	Unsecured wireless network	•a000
	((Q)) ^{c2}	
	Security-enabled wireless network (WPA2)	0000
	((Q)) Tenda_office	
	C Security-enabled wireless network (WPA2)	addl 🗸
		Connect



Chapter 3 Advanced Settings

3.1 Web Login

1. Launch a web browser, input 192.168.0.254 in the address bar and press Enter.



2. Enter the default Username (admin) and default Password (admin) into the login window.

Username: admin
Password:

3. Click Login and your Web browser shall automatically display the home page.

Tenda				
	System Status		Administrator Name[admin] Version:V1.0.0.6_	_EN (7639)
Status				
> System Status	System Status			Help
Wireless Status	System Time	2013-12-16 11:25:23		
Traffic Statistics	Up Time	00:17:48		
Wireless Clients	Working Mode	AP Mode		
Quick Setup	Number of Clients	1		
LAN Setup	Firmware Version	V1.0.0.6_EN (7639)		
Wireless	Hardware Version	1.0.0.0		
SNMP	LAN Status			
Tools	MAC Address	C8:3A:35:00:0B:18		
	IP Address	192.168.0.254		
	Subnet Mask	255.255.255.0		

`

In order to access the Internet and log in to this device's Web interface at the same time, it is advisable to set this device's LAN IP address to be different but on the same network segment as the remote device(such as a router), and then set your PC to **Obtain an IP address automatically**.



3.2 Status

3.2.1 System Status

Click Status to enter screen below. This screen displays this device's current system status and LAN status.

		Administrator Na	ma[admin] Varcion:V1 0 0 6 EN (7620)
	System Status	Auminisu ator iya	ne[admin] version.v1.0.0.0_EN (7035)
Status	Sustam Status		Ilala
System Status	System Status		нер
Wireless Status	System Time	2013-12-16 11:25:23	
Traffic Statistics	Up Time	00:17:48	
Wireless Clients	Working Mode	AP Mode	
Quick Setup	Number of Clients	1	
LAN Setup	Firmware Version	V1.0.0.6_EN (7639)	
Wireless	Hardware Version	1.0.0.0	
SNMP	LAN Status		
Tools	MAC Address	C8:3A:35:00:0B:18	
	IP Address	192.168.0.254	
	Subnet Mask	255.255.255.0	

3.2.2 Wireless Status

Click **Status > Wireless Status** to enter screen below. This section displays this device's Radio status and SSID status.

Tenda				Kõ		
	Wireless Status		Adı	ministrator Name [adn	nin] Version:V1.0.0.6	6_EN (7639)
▶ Status			De die Gentur			1
System Status		Radio Stat				Неір
Wireless Status	Radio	Radio (On/Off)		On		
Traffic Statistics	Netwo	rk Mode		11b/g/n mixed		
Wireless Clients	Cha	annel		1		
Quick Setup			COTO Chabas			í.
LAN Setup			SSID Status			
Wireless	SSID		MAC Address	Working Status	Security Mode	
SNMP	Tenda_000B19		C8:3A:35:00:0B:19	Enabled	None	

3.2.3 Traffic Statistics

Click **Status > Traffic Statistics** to enter screen below. This section displays current traffic statistics of the device's SSIDs.

Tenda		8	2.C	50		
	Traffic Statistics		Admin	strator Name[admin]	Version:V1.0.0.6	EN (7639)
▶ Status	SSID	Total RX Traffic (MB)	Total RX Packets	Total TX Traffic (MB)	Total TX Packets	Heln
System Status		rotariot manie (mby	rounder delieus	rotal international (rib)	redi ner deletes	neip
Wireless Status	Tenda_000B19	0.34MB	3576	3.12MB	5834	
Traffic Statistics	Tenda_000B1A	0.00MB	0	0.00MB	0	Refresh
Wireless Clients	Tenda_000B1B	0.00MB	0	0.00MB	0	
	T. 1. 00004.0	0.00140		0.00MD	0	



3.2.4 Wireless Clients

Click **Status > Wireless Clients** to enter screen below. This section displays information of connected clients (if any).

Tenda							
	Client I	List		Administr	ator Name[<mark>admin</mark>]	Version:V1.0.0.6	_EN (7639)
Status							
System Status	This se	ction displays information	of connected clients (if	any).			Help
Wireless Status	Host(s)	Connected Currently:			Т	enda_000B19 💌	
Traffic Statistics	ID	MAC Address	IP	Encryption	Bandwidth	Connection	
• Wireless Clients						Duration	
Quick Setup	1	C8:3A:35:C2:CA:E7	192.168.0.23	None	20MHz	00:23:50	
LAN Setup							
Wireless							
SNMP							
Tools							

3.3 Quick Setup

This device supports 3 working modes for expanding wireless network coverage. You can select one as you need.

AP Mode: In this mode, the AP connects to the remote device via an Ethernet cable and then clients can connect to the AP wirelessly, thus achieving the conversion between wired networks and wireless networks. And without any configuration, you can achieve network sharing among multiple clients.

WDS Mode: In the WDS mode, the AP and the remote device should support WDS feature. By scanning each other and keeping their SSIDs, channels, security modes and keys the same, they can bridge successfully. Then clients can connect to the AP wirelessly for Internet access.

AP Client Mode: In this mode, what you need to do is to scan the remote device's signal and bridge it successfully without any configuration on the remote device. Then clients can connect to the AP wirelessly for Internet access.

3.3.1 AP Mode

Click Quick Setup to enter screen below:

Tenda			Nor o	
	Quick Setup		Administrator Name[admin] V	ersion:V1.0.0.6_EN (7639)
Status				
▶ Quick Setup	Mode	AP Mode OWDS Mode	OAP Client Mode	Save
LAN Setup	SSID	Tenda_07A050		Pastara
Wireless	Security Mode	WPA - PSK 🗸		Restore
SNMP	Cipher Type	●AES ○TKIP ◎TKIP&AES		Help
Tools	Security Key	12345678		

Configuration Procedures:

1. **SSID:** This field is optional. You can change your SSID here if you want to;



- 2. Security Mode: Configure the security mode (WPA-PSK is recommended);
- 3. Cipher Type: Select a cipher type according to your need (AES is recommended);
- 4. Security Key: Configure a security key;
- 5. Click Save.

3.3.2 WDS Mode

In this mode, this device can provide access to at most 4 APs. Click **Quick Setup** and select **WDS Mode** to enter screen below:

Tenda		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	Quick Setup	Administrator Name[admin] Version	:V1.0.0.6_EN (7639)
Status	Mode	○ AP Mode	Save
LAN Setup	SSID	Tenda_0D7491	
Wireless	Security Mode	None	Restore
SNMP	MAC Address	(Status:Unknown)	
Tools	MAC Address MAC Address	(Status:Unknown) (Status:Unknown)	Help
	MAC Address Uplink AP Channel	(status:Unknown)	

Configuration Procedures:

- 1. Click Enable Scan;
- 2. Select the remote SSID you wish to connect;
- Configure the security settings, including security mode, cipher type and security key. These settings should be kept the same as the remote device's;
- 4. Click Save.

Chida				O.C.	Ľ	00			
	Quick Setu	p			Adminis	strator Na	me[<mark>admin</mark>] V	/ersion:V1.0.0.6_E	EN (7639)
Status									
Quick Setup		Mode	O AP Mode	WDS Mode	O A	P Client M	lode		Save
LAN Setup		SSID	Tenda_07A0	50					
Wireless		Security Mode	WPA - PSk	· ·					Restore
SNMP		Cipher Type	● AES ○	TKIP OTKIP&AES	5				
Tools		Security Key	12345678						Help
		MAC Address	C8:3A:35:07	:A0:50 (Statu	ıs:Unkn	iown)			
		MAC Address	-	(Statu	ıs:Unkn	iown)			
		MAC Address		(Stati	us Unkn	nown)			
		MAC Address	3	(State	al laba				
		MAC Address		(Stati	IS:UNKN	iown)			
	Upl	ink AP Channel	6 🗸	1					
				Disable Scan	_				
	Select	SSI	D	MAC Address	5	Channel	Security	Signal Strength	
	0	Tenda_2	C1F08	C8:3A:35:2C:1F	:08	11	none	-71dBm	
	۲	Tenda_0	7A050	C8:3A:35:07:A0):50	6	wpa/wep	-24dBm	

5. Log in to the remote device's Web interface and follow steps 1-4 as shown above to configure the same settings on it.

When bridged successfully, Status displays "Connected" next to the corresponding MAC Address field.



<mark>∆</mark>Note

In WDS mode, both the AP and the remote device should support WDS feature and you should keep their SSIDs, channels, security modes and keys the same. As for IP addresses, they should not be the same but on the same network segment.

3.3.3 AP Client Mode

In this mode, the AP negotiates with the remote device successfully and also provides access to clients. The device's SSID won't be changed. Click **Quick Setup** and select **AP Client Mode** to enter screen below:

Tenda				
	Quick Setup		Administrator Name [admin] Ve	rsion:V1.0.0.6_EN (7639)
Status		0.000 L	Que dr	
▶ Quick Setup	Mode	CAP Mode Owds Mode	Client Mode	Save
LAN Setup	SSID			Restore
Wireless	Security Mode	~		
SNMP	Uplink AP MAC Address			Help
Tools	Uplink AP Channel	Enable Scan		

Configuration Procedures:

- 1. Click Enable Scan;
- 2. Select the remote SSID you wish to connect;
- 3. Configure the security settings, including security mode, cipher type and security key. These settings should be kept the same as the remote device's;
- 4. Click Save.

Tenda				82	25	Ø)		
	Quick Setu	q		A	dministrator Na	me[admin] V	/ersion:V1.0.0.6_I	EN (7639)
Status • Quick Setup	_	Mode	O AP Mode	O WDS Mode	AP Client N	lode		Save
LAN Setup		SSID	Tenda_07A	050				
Wireless		Security Mode	WPA - PSI	< 🗸				Restore
SNMP		Cipher Type	O AES	TKIP OTKIP&AES				
Tools	Uplink A Up	Security Key P MAC Address link AP Channel	12345678 C8:3A:35:0 6	7:A0:50				Help
		49453		Disable Scan	100			
	Select	SSI	D	MAC Address	Channel	Security	Signal Strength	
	۲	Tenda_0	7A050	C8:3A:35:07:A0:	50 6	wpa/wep	-26dBm	

∆_{Note}

After finishing settings on **Quick Setup** interface, please refer to <u>Appendix---1. Configure PC TCP/IP Settings</u> to set your PC to **Obtain an IP address automatically**, and then you can surf the Internet.

3.4 LAN Setup

Click LAN Setup and here you can configure address mode, the LAN IP address and subnet mask.



Tenda				
	LAN Setup		Administrator Name[admin] Versio	n:V1.0.0.6_EN (7639)
Status	the second second			
Quick Setup	MAC Address	C8:3A:35:00:0B:18		Save
LAN Setup	Address Mode	Static IP 💌		[Protest]
Wireless	IP Address	192.168.0.254	For example: 192.168.1.1	Restore
SNMP	Subnet Mask	255.255.255.0	For example:255.255.255.0	Help
Tools	Gateway	192.168.0.1		
	Device Name	W302A		

▲_{Note}

1. The default LAN IP address is 192.168.0.254 and subnet mask is 255.255.255.0.

2. In order to log in to the Web interface, make sure LAN IP address and IP of your PC are on the same network segment.

3. If you change this IP address, you must use the new one to re-log in to the device.

4. If in the WDS mode or AP Client mode, address mode of the LAN IP address should not be Dynamic IP.

3.5 Wireless

3.5.1 Basic

Click **Wireless > Basic** to configure the available wireless settings.

Tenda			
	Basic		Administrator Name[admin] Version:V1.0.0.6_EN (7639)
Status Ouick Setup	SSID	Tenda_07A050 🗸	Save
LAN Setup	Enable Hide SSID automatically		Restore
Basic	Broadcast SSID	Enable V	Help
Radio Advanced	Maximum clients	15 (Rangle:1-60)	
Access Control SNMP	SSID Security Mode	Tenda_07A050 WPA - PSK 🗸	
Tools	Cipher Type Key	AES OTKIP OTKIP&AES 12345678	

1. SSID: Select a SSID from the drop-down list. It supports 4 SSIDs at most.

2. Enable: Once checked, the wireless feature will be enabled.

3. Hide SSID Automatically: When number of clients outnumbers the maximum value, SSID will be hidden automatically.

4. Broadcast SSID: This option allows you to have your network name (SSID) publicly broadcast or if you choose to disable it, the SSID will be hidden. It is enabled by default.

5. AP Isolation: Isolates clients connecting to the same SSID.

6. Maximum Clients: Here you can configure the number of clients (1~60) that can connect the current SSID.

7. SSID: Displays the SSID name and you can change the name here.

8. Security Mode: Configure security settings for the current SSID. This device supports WEP, WPA-PSK,



WPA2-PSK and Mixed WPA/WPA2-PSK (To learn more, read the following).

(1) WEP

WEP (Wired Equivalent Privacy): WEP is a security algorithm for IEEE 802.11 wireless networks. Introduced as part of the original 802.11 standard, its intention is to provide data confidentiality comparable to that of a traditional wired network. Wireless speed can reach up to 54Mbps if WEP is used.

Tenda		SCIENT -	
	Basic	Administrator Name[admin] Version:V	71.0.0.6_EN (7639)
Status			
Quick Setup	SSID	Tenda_07A050 V	Save
LAN Setup	Enable		
Wireless	Hide SSID automatically		Restore
Basic	Broadcast SSID	Enable 🗸	Help
Radio	AP isolation	Disable Enable	
Advanced	Maximum clients	15 (Rangle:1-60)	
Access Control	SSID	Tenda_07A050	
SNMP	Security Mode	WEP 🗸	
Tools	Authentication Type	Open 🗸	
	Default Key	Security Key 1 🗸	
	WEP Key 1	ASCII 🗸	
	WEP Key 2	ASCII 🗸	
	WEP Key 3	ASCII 🗸	
	WEP Key 4	ASCII 🗸	

1. Open: Uses "no authentication" + WEP Encryption. Wireless clients can associate with the device without going through authentication. Only data in transmission is encrypted with WEP encryption.

2. Shared: Uses shared key authentication + WEP Encryption. A WEP key that is mutually agreed in advance is required from both sides while wireless clients try to associate with the device. Association is established only if the two sides provide the same WEP key.

3. Default Key: Specify a WEP key from the preset keys for current use. For example, if you select Key 2, wireless clients must join your wireless network using this Key 2.

(2) WPA-PSK, WPA2-PSK

WPA: The WPA protocol implements the majority of the IEEE 802.11i standard. It enhances data encryption through the Temporal Key Integrity Protocol (TKIP) which is a 128-bit per-packet key, meaning that it dynamically generates a new key for each packet. WPA also includes a message integrity check feature to prevent data packets from being tampered with. Only authorized network users can access the wireless network. WPA adopts enhanced encryption algorithm over WEP.

WPA2: WPA2 is based on 802.11i and uses Advanced Encryption Standard (AES) instead of TKIP. It is more secure than WPA and WEP.



Tenda			690	
	Basic	ŝ	Administrator Name[admin] Version:V1.0	.0.6_EN (7639)
Status		T + 074050		
Quick Setup	SSID	Tenda_07A050 V		Save
LAN Setup	Enable	\checkmark		Destaur
▶ Wireless	Hide SSID automatically			Restore
Basic	Broadcast SSID	Enable 🗸		Help
Radio	AP isolation	Disable Enable		
Advanced	Maximum clients	15 (Rangle:1-60)		
Access Control	SSID	Tenda_07A050		
SNMP	Security Mode	Mixed WPA/WPA2 - PSK 🗸		
Tools	Cipher Type	TKIP OTKIP&AES		
	Key	12345678		

1. Security Mode: Supports WPA-PSK, WPA2-PSK and WPA/WPA2-PSK Mixed.

WPA-PSK: Supports AES and TKIP cipher types.

WPA2-PSK: Supports AES, TKIP and TKIP+AES cipher types.

WPA/WPA2-PSK mixed: If selected, both WPA-PSK and WPA2-PSK secured wireless clients can join your wireless network.

2. Cipher Type: Includes AES, TKIP and TKIP&AES.

AES: If selected, wireless speed can reach up to 300Mbps.

TKIP: If selected, wireless speed can reach up to 54Mbps.

TKIP+AES: If selected, both AES and TKIP enabled wireless clients can join your wireless network.

3. Key: Specify the security key.

3.5.2 Radio

Click **Wireless > Radio** to enter screen below. Here you can configure basic wireless settings including network mode, channel, extension channel, channel bandwidth, etc.

Tend a°		SCOS OF	
	Radio	Administrator Name[admin] Version:V1.0.0.6_	EN (7639)
Status Quick Setup	Enable Wireless		Save
LAN Setup	Network Mode	11b/g/n mixed V	Restore
Wireless	Channel Bandwidth	2437 WH2 (Unlament) ▼ ○ 20 ● 20/40	
Radio	Extension Channel	2417MHz (Channel 2)	Help
Advanced	Channel Lockout		
Access Control	WMM Capable	Enable Disable	
SNMP	APSD Capable	O Enable	
Tools	Key Update Interval Channel Scan	3600 Seconds(Rangle:60—99999, If set to 0, key will not be updated.) Enable Scan	

1. Enable Wireless: Check/uncheck to enable/disable the wireless feature.

2. Network Mode: Select a right mode according to your wireless client. The default mode is 11b/g/n mixed.
11b mode: Select it if you have only 11b wireless devices in your wireless network. Up to 11Mbps wireless rate is supported in this mode.

11g mode: Select it if you have only 11g wireless devices in your wireless network. Up to 54Mbps wireless rate is supported in this mode.

11b/g mixed mode: Select it if you have 11b and 11g wireless devices in your wireless network. Up to 54Mbps wireless rate is supported in this mode.

11b/g/n mixed mode: Select it if you have 11b, 11g and 11n wireless devices in your wireless network. In this mode wireless connection rate is negotiated. Up to 300Mbps wireless rate is supported in this mode.

3. Channel: Select from 1~13 channels or Auto. It is recommended to select a channel that is the least used by neighboring networks (Note: Channels 1~11 are for America and Canada, and Channels 1~ 13 are for Europe).

4. Channel Bandwidth: Select a proper channel bandwidth to enhance wireless performance. This option is available only in 802.11b/g/n. Wireless speed in the channel bandwidth of 20/40 is 2 times in 20.

5. Extension Channel: This is used to ensure N speeds for 802.11n devices on the network. This option is available in 11b/g/n mixed mode with channel bandwidth of 20/40.

6. WMM-Capable: WMM is QoS for your wireless network. Enabling this option may better stream wireless multimedia data such as video or audio (recommended).

7. ASPD Capable: Select to enable/disable the auto power saving mode. By default, this option is disabled.

8. Key Update Interval: You can configure security key's update cycle (60—99999 seconds) here. If it's set to 0, key will not be updated.

9. Channel Scan: You can click Enable Scan to scan wireless networks.

3.5.3 Advanced

Click **Wireless > Advanced** and here you can configure advanced wireless settings. If you are new to networking and have never configured these settings before, we recommend you to leave the default settings unchanged.

Tenda		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	Advanced	Administrator Name[admin]	Version:V1.0.0.6_EN (7639)
Status		and the second consecution	
Quick Setup	Beacon Interval	100 (Range: 20 - 999; Default: 100)	Save
LAN Setup	Fragment Threshold	2346 (Range: 256 - 2346; Default: 2346)	-
▶ Wireless	RTS Threshold	2347 (Range: 1 - 2347; Default: 2347)	Restore
Basic	DTIM Interval	1 (Range: 1 - 255; Default: 1)	Help
Radio	TX Power	23 (Range:17 - 23(dBm); Default:23)	
Advanced	Power Lockout		
Access Control	Wireless LED	Enable Obisable	
SNMP	Preamble	Cong Preamble OShort Preamble	
Tools			

1. Beacon Interval: This is a time interval between any two consecutive Beacon packets sent by an Access Point to synchronize a wireless network. Specify a valid value between 20 and 999. The default setting is 100.

2. Fragment Threshold: Specify a valid Fragment Threshold value between 255 and 2346. The default is 2346. Any wireless packet exceeding the preset value will be divided into several fragments before transmission.

3. RTS Threshold: Specify a valid value between 1 and 2347. The default is 2347. If a packet exceeds the preset value, RTS/CTS scheme will be used to reduce collisions. Set it to a smaller value provided that there are distant clients and interference.

4. DTIM Interval: A DTIM (Delivery Traffic Indication Message) Interval is a countdown informing clients of the next window for listening to broadcast and multicast messages. When such packets arrive in the router's buffer, the router will send DTIM (delivery traffic indication message) and DTIM interval to alert clients of the receiving packets. Specify a valid value between 1-255. The default is 1.

5. TX Power: Control TX power. Specify a valid value between 17 and 23. The default is 23.

6. Power Lockout: Once enabled, you cannot change power manually.

7. Wireless LED: You can enable or disable wireless LED manually.

8. Preamble: The 8 bytes of the preamble and the Start of Frame create a pattern of 64 bits. 7 bytes of the preamble are for synchronization and 1 byte is for SFD, which basically says here comes a new frame, being a "get ready" notification. There are two types of preambles: long preamble and short preamble. By default, the device transmits data using the long preamble.

3.5.4 Access Control

Click **Wireless > Access Control** to enter screen below. Specify a list of devices to allow or disallow a connection to your wireless network via the device's MAC addresses. To deactivate this feature, select "Disable"; to activate it, select "Allow" or "Deny".

Tenda			- <u>6</u>	398°) J	
	Wireless A	ccess Control		Administrator Name[admin] Version:V1.0.0.	.6_EN (7639)
Status					June 11 - Pla	
Quick Setup	specity a list	or devices to allow or disallo	w a connection to your	wireless network via the devi	ces MAC addresses. This	Save
LAN Setup	Can be set s	SSID T	enda 07A050 🗸			Pastora
Wireless		MAC Filter Mode	isable 🗸			Restore
Basic	ID	MAC Address	TP	Connection Duration	Add to List	Help
Radio		5C-ER-A1-15-02-D2	0.000	00:00:11	Add	
Advanced	-	JC.F6.A1.13.93.D2	0.0.0.0	00.00.11	Auu	_
Access Control	2	CC:3A:61:71:1B:6E	192.168.0.100	00:00:26	Add	
SNMP						
Tools						

MAC Filter Mode: Select Allow or Deny from the drop-down list.

 To permit a wireless device to connect to your wireless network, select **Allow**, enter its MAC address, click **Add** and then **Save**. Then only devices listed as "Allowed" will be able to connect to your wireless network.
 To disallow a wireless device to connect to your wireless network, select **Deny**, enter its MAC address, click **Add** and then **Save**. Then devices listed as "Denied" will be unable to connect to your wireless network.

3.6 SNMP

The Simple Network Management Protocol (SNMP) is widely used in local area networks (LANs) for collecting information, managing, and monitoring network devices, such as servers, printers, hubs, switches, and routers. Specialized software in each SNMP capable device, known as an Agent, continuously monitors the status of the device and reports the results to the SNMP Manager software, which can then act on the report. This device supports both SNMP v1 and SNMP v2C. Click **SNMP** to enter screen below:



Tenda		- 65.98	Ð.
	SNMP	Administrator Nam	le[admin] Version:V1.0.0.6_EN (7639)
Status			
Quick Setup	Here you can configure SNMP se	ettings. SNMP v1 and v2c are supported.	Save
LAN Setup	SNMP	ODisable Enable	
Wireless	Administrator Name	Administrator	Restore
SNMP	Device Name	W302A	Help
Tools	Location	ShenZhen	
	Read Community	public	
	Write/Read Community	private	

Click **Enable** to enable the SNMP feature.

- 1. Administrator Name: Input the administrator's name.
- 2. Device Name: Input the name of the AP, e.g., WIRELESS AP.
- **3. Location:** Input the AP's location.

4. Read Community: Indicates the community read access string to permit reading this AP's SNMP information. The default is Public.

5. Write/Read Community: Indicates the community write/read access string to permit reading and re-writing this AP's SNMP information. The default is Private.

3.7 Tools

3.7.1 Maintenance

Firmware Upgrade

Firmware upgrade is released periodically to improve the functionality of your device or to add new features.

If you run into a problem with a specific feature of the device, log on to our website (http://www.tendacn.com) to download the latest firmware to update your device.

Click Tools >	Maintenance >	Firmware	Upgrade	to enter	screen	below:
----------------------	---------------	----------	---------	----------	--------	--------

Tenda	
	Firmware Upgrade Reboot Administrator Name[admin] Version:V1.0.0.6_EN (7639)
Status	
Quick Setup	Use this section to update device's firmware for better functionalities or new features.
LAN Setup	Select a Firmware File: Browse Upgrade
Wireless	Current Firmware Version: V1.0.0.6_EN (7639); Release Date: Aug 13 2013
SNMP	Note: DO NOT disconnect the device from power and network connections while upgrade is in process, otherwise
▶ Tools	it may be permanently damaged. When upgrade is complete, the device restarts automatically. Upgrade may take about 90 seconds. Please wait.
Maintenance	
Time	
Logs	
Configuration	
Username & Password	
Diagnostics	

To upgrade device software:

- 1. Launch a web browser and go to http://www.tendacn.com to download the latest firmware.
- 2. Unzip the compressed upgrade file (.ZIP file).
- 3. Click **Browse** to locate and select the upgrade file on your hard disk.
- 4. Click **Upgrade** to upgrade device firmware.



- 5. When the firmware upgrade completes, the device will automatically restart.
- 6. Restore the AP to factory default settings after reboot.

▲_{Note}

When uploading software to the wireless AP, it is important not to disconnect the device from power supply. If the power supply is interrupted, the upload may fail, corrupt the software, and render the device inoperable. When the upload completes, the device will automatically restart. The upgrade process typically takes about several minutes.

Reboot

The Reboot option restarts the device. All connections will be lost while rebooting.

Click **Tools > Maintenance > Reboot** to enter screen below:

Tenda	6	0050
	Firmware Upgrade Reboot	Administrator Name[admin] Version:V1.0.0.6_EN (7639)
Status		
Quick Setup	Click the "Reboot" button to restart your device.	
LAN Setup	Reboot	
Wireless		
SNMP		
▶ Tools		
Maintenance		
Time		
Logs		
Configuration		
Username & Password		
Diagnostics		

3.7.2 Time

System Time

Click **Tools > Time > System Time** to enter the system time screen. This page is used to set the device's system time. System time can be configured using the following 2 methods:

Sync with Internet time servers: If enabled, system automatically connects to NTP server on the Internet to synchronize the time.

Set Time and Date Manually/Sync with Your PC: Specify the time and date manually or click Sync with Your PC to automatically copy your current PC's time to the device.

Tenda	
	System Time Login Timeout Administrator Name[admin] Version:V1.0.0.6_EN (7639)
Status	
Quick Setup	This page is used to set the device's system time. You can select either to set the time manually or get the GMT Save
LAN Setup	Note: System time will be lost when the device is disconnected from power supply. However, it will be updated
Wireless	automatically when the device reconnects to Internet.
SNMP	Sync with Internet time servers Sync Interval: 30 minutes 💌 Help
Tools	Time Zone: (GMT+08:00) Beijing, Chongqing, Hong Kong, Urumuqi, Taipei 🔹
Maintenance	(Note: GMT time will be updated automatically only when the device is connected to Internet)
▶ Time	Set Time and Date Manually:
Logs	2013 Year 12 Month 16 Day 11 h 39 m 34 s Sync with Your PC
Configuration	
Username & Password	
Diagnostics	

To Sync with Internet time servers:

- 1. Check Sync with Internet time servers to enable it.
- 2. Select a Sync Interval from the drop-down list.
- 3. Select your time zone.

To set time and date manually:

- 1. Uncheck Sync with Internet time servers to disable it.
- Specify the time and date manually or click Sync with Your PC to automatically copy your PC's time to the device.

And then go to Status to make sure the system time is correctly updated.

Login Timeout

Click **Tools > Time > Login Timeout** and here you can configure the web login timeout (1-60 minutes). The default is 5 minutes. Device returns to login window automatically depending on the specified login timeout and user name/password will be required.

Tenda				
	System Time Login Tir	neout	Administrator Name[<mark>admin</mark>]	Version:V1.0.0.6_EN (7639)
Status				
Quick Setup	Login Timeout Setup			Save
LAN Setup	Login Timeout:	5	(1~60 minutes)	Postoro
Wireless				Restore
SNMP				Help
Tools				
Maintenance				
> Time				
Logs				
Configuration				
Username & Password				
Diagnostics				

3.7.3 Logs

View Logs

Click **Tools > Logs > View Logs** to enter screen below. Here you can view the history of the device's actions. Click **Refresh** to update current log info or click **Clear** to clear all logs.



Tenda					
	View Logs	Log Setup		Administrator Name[admin] Version:V1.0.0.6_EN	(7639)
Status Quick Setup				Type of logs to display: All 🗸	Refresh
LAN Setup	Index	Time	Туре	Log Content	Clear
Wireless	4	2013-11-05 11:42:37	System	Login time: web free timeout.	
SNMP	3	2013-11-05 09:37:57	System	Login time: web free timeout.	
> Tools	2	2011-05-01 00:00:07	Lan	Lan mode: static ip start.	
Maintenance	1	2011-05-01 00:00:07	System	System start success.	
Time Logs Configuration	Page 1				
Username & Password					
Diagnostics					

Log Setup

Click **Tools > Logs > Log Setup** to configure system logs. Here you can set up number of logs and rules of log settings. Up to 300 entries can be logged. The default is 150.

Tenda			78	JOK	Q)	
	View Logs Log) Setup		Administrator Na	ame[admin] Version:V1.0.	.0.6_EN (7639)
Status				ontantun		
Quick Setup	Number of Logs	150	(Default:150,Range	:100~300)		Save
LAN Setup	Enable (To use	the following rules, yo	ou must check this box.)			Destars
Wireless	ID	Log Server IP	Log Server Port	Enable	Action	Restore
SNMP					Add	Help
Tools					1.00	
Maintenance						
Time						
▶ Logs						
Configuration						
Username & Password						
Diagnostics						

To configure the log server:

- 1. Click **Add** to add a log server.
- 2. Specify the IP address and port of the syslog server on your LAN and enable the log server.
- 3. Check the "To use the following rules, you must check this checkbox." option.

If configured successfully, the system will begin to log events and simultaneously send them to the specified log server on your LAN. You can view all logs there.

3.7.4 Configuration

Backup & Restore

Click **Tools > Configuration > Backup & Restore** to enter screen below. This section allows you to save a copy of the device configurations on your local hard drive or to restore the previous configurations back to the device.



Tend a [®]	
	Backup & Restore to Factory Default Administrator Name[admin] Version:V1.0.0.6_EN (7639)
Status	
Quick Setup	This section allows you to save current settings or restore previous settings.
LAN Setup	Save Settings to Local Hard Backup
Wireless	Load Settings from Local
SNMP	Hard Drive Browse
Tools	
Maintenance	
Time	
Logs	
Configuration	
Username & Password	
Diagnostics	

1. Backup: Once you have configured the device the way you want it, you can save these settings to a configuration file on your local hard drive that can later be imported to your device in case that the device is restored to factory default settings. To do so, click the **Backup** button and specify a directory to save settings on your local hardware.

2. Restore: Click the **Browse** button to locate and select a configuration file that is saved previously on your local hard drive and then click **Restore** to restore it. Configurations will be restored after device reboot.

ÿ _____ The default backup configuration file name is APcfgfile.cfg. It is advisable to keep the filename extension(.cfg) unchanged.

Restore to Factory Default

If the device or clients connected to the device fail to access Internet due to incorrect configurations and you cannot solve the problem, click **Tools > Configuration > Restore to Factory Default** to reset the device and then reconfigure it.

Tenda	188	205°		
	Backup & Restore Restore to Factory Default	Administrator Name[admin] Version:V1.0.0.6_EN (7639)		
Status				
Quick Setup	Click this button to reset the device to factory default values.	Heip		
LAN Setup	Restore to Factory Default			
Wireless				
SNMP				
▶ Tools				
Maintenance				
Time				
Logs				
Configuration				

To restore to factory default settings, two methods are available:

Method 1: Using UI

Click the Restore to Factory Default button and wait until the progress indicator displays 100% completed.



Method 2: Pressing the hardware reset button

Press the **Reset** button on this device with a needle for about 7 seconds.

Factory Default Settings:

- User Name: admin
- Password: admin
- IP Address: 192.168.0. 254
- Subnet mask: 255.255.255.0

3.7.5 Username & Password

Click **Tools > Username & Password** to enter screen below. Here you can change the user name and password for web login. The default password is **admin**. We suggest that you change this password to a more secure password.

Tenda				S.C.	C S O	
	User Name & P	assword		Ad	dministrator Name [admin] V	Version:V1.0.0.6_EN (7639)
Status	Use this section to	o change your login	user name and	naceword		
Quick Setup	Note: User name	and password can	only include 1~3	32 letters, numbers or	r underscore!	Save
LAN Setup	Access Mode	User Name	Enable	Action		Restore
Wireless	Administrator				-	
SNMP	Name	admin	admin 🗹	Change	Help	
▶ Tools	User			Delete Add		
Maintenance						
Time						
Logs						
Configuration						
Username & Password						

- Administrator: If you log in to the device as an administrator, you have all available rights to access the device.
- User: If you log in to the device as a user, you can only view configurations instead of configuring or changing any existing configurations.

3.7.6 Diagnostics

This page allows you to test your network connection. If your network is malfunctioning, click **Tools > Diagnostics** to use the ping utility to test your network and find out where the problem is.

Tenda	
	Ping Administrator Name[admin] Version:V1.0.0.6_EN (7639)
Status	
Quick Setup	Input an IP or a domain name to test network connectivity. Please enter an TP(en: 192-168-0-254) address or a domain name(en: www.noonle.com):
LAN Setup	ping ping
Wireless	
SNMP	
▶ Tools	
Maintenance	
Time	
Logs	\checkmark
Configuration	
Username & Password	
Diagnostics	



Appendix

1.Configure PC TCP/IP Settings

Win7 OS Configuration

1. Right click **Network** on your desktop and select **Properties**;



2. Click Local Area Connection > Properties;

Control Panel Home	Local Area Connection Status	X	tet up connections
Change adapter setti	General		See full r
Change advanced sh settings	Connection IPv4 Connectivity:	No Internet access	Internet
	IPv6 Connectivity:	No Internet access	Connect or discon
	Media State:	Enabled 03:40:31	
	Speed:	1.0 Gbps	ss type: No Internet access lections: Decal Area Connections
	Activity Sent	- N Received	or VPN connection; or set up a
	Bytes: 758,61	8 8,236,680	I-up, or VPN network connection.
See also	Properties 😗 Disable	Diagnose	
and the second			work computers, or change sharin



3. Double click Internet Protocol Version 4 (TCP/IPv4);

Local Area Connection Properties				
Networking				
Connect using:				
Intel(R) PRO/1000 MT Network Connection				
Configure				
This connection uses the following items:				
Client for Microsoft Networks				
QoS Packet Scheduler				
File and Printer Sharing for Microsoft Networks				
Internet Protocol Version 6 (TCP/IPV6)				
Internet Protocol Version 4 (TCP/TPV4)				
✓ Link-Layer Topology Discovery Responder				
Install Uninstall Properties				
Description				
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.				
OK Cancel				

4. Select **Use the following IP address**, enter 192.168.0.X (2~253) in the **IP address** field and 255.255.255.0 in the **Subnet mask** field and then click **OK** to save your configurations.

Internet Protocol Version 4 (TCP/IPv4) Properties				
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
Obtain an IP address automatically				
• Use the following IP address:				
IP address:	192.168.0.25			
Subnet mask:	255.255.255.0			
Default gateway:				
Obtain DNS server address automatically				
O Use the following DNS server addresses:				
Preferred DNS server:				
Alternate DNS server:	· · ·			
Validate settings upon exit	Advanced			
	OK Cancel			



5. Click **OK**.

Local Area Connection Properties		
Networking		
Connect using:		
Intel(R) PRO/1000 MT Network Connection		
Configure		
This connection uses the following items:		
Client for Microsoft Networks QoS Packet Scheduler All Printer Sharing for Microsoft Networks Intermet Protocol Version 6 (TCP/IPv6) Intermet Protocol Version 4 (TCP/IPv4)		
Install Uninstall Properties		
Description Allows your computer to access resources on a Microsoft network.		
OK Cancel		

Windows XP OS Configuration

1. Right click My Network Places and click Properties;



2. Right click Local and click Properties;





3. Find and double click Internet Protocol (TCP/IP);

🕂 Local Properties 🔹 🕐 🔀			
General Authentication Advanced			
Connect using:			
Intel(R) PR0/1000 MT Network Con Configure			
This connection uses the following items:			
☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑ ☑			
Install Uninstall Properties			
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks. ✓ Show icon in notification area when connected			

4. Select **Use the following IP address**, enter 192.168.0.X (2~253) in the **IP address** field and 255.255.255.0 in the **Subnet mask** field and then click **OK** to save the configurations;

Internet Protocol (TCP/IP) Properties			
General			
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.			
🔘 Obtain an IP address automatical	У		
• Use the following IP address:			
IP address:	192.168.0.25		
Subnet mask:	255.255.255.0		
Default gateway:	· · ·		
Obtain DNS server address automatically			
─● Use the following DNS server add	resses:		
Preferred DNS server:			
Alternate DNS server:			
Advanced			
OK Cancel			



<u>Tenda</u>

5. Click OK.

🕂 Local Properties 🔹 🤶 🔀		
General Advanced		
Connect using:		
Intel(R) PRO/1000 MT Network Con Configure		
This connection uses the following items:		
 Client for Microsoft Networks File and Printer Sharing for Microsoft Networks 		
QoS Packet Scheduler September Statemet Protocol		
Install Uninstall Properties		
Description		
Allows your computer to access resources on a Microsoft network.		
Show icon in notification area when connected Notify me when this connection has limited or no connectivity		
OK Cancel		



2. FAQs

This section provides solutions to problems that may occur during installation and operation of the device. Read the following if you are running into problems. If your problem is not covered here, please feel free to go to www.tendacn.com to find a solution or email your problems to: support@tenda.com.cn. We will be more than happy to help you out as soon as possible.

Q: I enter the device's LAN IP address in the web browser but cannot access the utility. What should I do?

a. Check whether device is functioning correctly. The SYS LED should blink a few seconds after device is powered up.

b. Verify physical connectivity by checking whether a corresponding port's link LED lights up. If not, try a different cable.

c. Press and hold the Reset button on your device for over 7 seconds to restore factory default settings, and then re-log in to the device.

d. Check the TCP/IP settings on your PC and verify that the IP address, 192.168.0.X (2-253), is not used by other network devices.

e. Clear the browser cache or try another web browser.

f. Contact our technical support for help if the problem still exists after you tried all the above.

Q: What should I do if I forget the login username and password to my device?

a. Try the default username and password admin/admin.

b. Reset your device by pressing the Reset button for over 7 seconds.

Q: My computer shows an IP address conflict error after having connected to the device. What should I do?

a. Check if there are other DHCP servers present in your LAN. If there are other DHCP servers except your router, disable them immediately.

b. The default IP address of the device is 192.168.0.254; make sure this address is not used by another PC or device. In case that two computers or devices share the same IP addresses, change either to a different address.

Q: After joining your wireless connection, I can access the Internet but unable to log in to this device's Web interface. What should I do?

Please set your PC's IP to 192.168.0.X (2~253), log in to this device's Web interface to modify LAN IP address, which should be different but on the same network segment as the remote device, and then set your PC to **Obtain an IP address automatically**.

3. Default Settings

Parameters		Default Settings	
AP Web Login	Login IP	192.168.0.254	
	Username	admin	
	Password	admin	
Quick Setup	Working Mode	AP Mode	
	Address Mode	Static IP	
LAN Setup	IP Address	192.168.0.254	
	Subnet Mask	255.255.255.0	
	Gateway	192.168.0.1	
	Wireless Setup	Enabled	
	Primary SSID	Tenda_XXXXXX	
	Network Mode	11/b/g/n mixed	
	SSID Broadcast	Enabled	
	AP Isolation	Disabled	
Wireless	Channel	Auto	
	Channel Bandwidth	20/40	
	Channel Extension	Auto	
	WMM Capable	Enabled	
	APSD Capable	Disabled	
	Security Mode	None	
	Access Control	Disabled	
SNMP	SNMP	Disabled	
Tools	Time	Sync with Internet time servers	

4. Safety and Emission Statement

CE

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. This device complies with EU 1999/5/EC.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. (2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.



FCC Statement

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.

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 transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. The manufacturer is not responsible for any radio or TV interference caused by unauthorized



modifications to this equipment.

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator &

your body.

NOTE: (1) The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment.

(2) To avoid unnecessary radiation interference, it is recommended to use a shielded RJ45 cable.

NCC Notice

第十二條

經形式認證合格之低功率射頻電機,非經許可,公司、商號或使用者均不得擅自變更頻率、加大功率或變 更原設計之特性及功能。

第十四條

低功率射頻電機之使用不得影響飛航安全及干擾合法通信;經發現有干擾現象時,應立即停用,並改善至 無干擾時方的繼續使用。

前項合法通信,指依電信規定作業之無線電信。低功率射頻電機須忍受合法通信或工業、科學及醫療用電 波輻射性電機設備之干擾。