C S D S Guide





2.4G Long Range Outdoor Access Point

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Conventions

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

Typographical conventions in this User Guide:

Item	Presentation	Example
Button	Bold	"Click the Save button" can be simplified as "Click Save".
Menu	Bold	"The menu Basic" can be simplified as Basic .
Continuous Menus	>	Click Wireless > Basic

Symbols in this User Guide:

Item	Meaning
Note	This format is used to highlight information of importance or special interest. Ignoring this type of note may result in ineffective configurations, loss of data or damage to device.
💡 тір	This format is used to highlight a procedure that will save time or resources.

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1 Product Overview

Tenda O3 is an advanced and high-performance long-range wireless access point which is suitable for long-range data transmission and video surveillance, especially in WISP CPE solutions. Equipped with built-in 12dBi directional dual-polarized antenna, it offers high data transmission of up to 5km on 2.4GHz band with maximum transmission power of 800mW. With waterproof housing and flexible mounting design, it applies to different harsh environments and provides reliable, secure and wide wireless coverage.

Package Contents



If any item is incorrect, missing, or damaged, please contact your dealer for immediate replacement.

Hardware Description

Front View



Item	Port / Button	Description
1	GND	With the included grounding screw, attach a copper wire here to
		provide proper surge and lightning protection for your device.
2	RST	Pressing and holding the reset button for over 7 seconds restores
		this device to factory defaults.
3	LAN	A 100Mbps LAN port for connecting the Ethernet device such as
		a switch, a computer, etc.
4	PoE LAN/WAN	This port provides power over an Ethernet connection via the PoE
		injector. And it works interchangeably as a WAN port in Router
		mode and a LAN port in other modes.
5	/	Cable access hole cut-outs

Rear View



LED	Status	Description		
CT / C	Off	Malfunction occurs or the device is not powered on.		
515	Blinking	The device is working properly.		
DoE	Off	There is no device linked to this port.		
РОЕ Шамдам	Solid	There is a device linked to this port but no data transmission.		
WAN/LAN	Blinking	Data transmission is occurring on this port.		
	Off	There is no device linked to this port.		
LAN	Solid	There is a device linked to this port but no data transmission.		
	Blinking	Data transmission is occurring on this port.		
Bridge	Off	1) Working in AP or Router mode		
	Oli	2) Failed to connect to remote AP		
	Solid	Bridged to the remote AP successfully		

Label



- 1. IP Address: Default login IP address for web login of this device.
- 2. Default login user name and password (admin for both).
- 3. Power specification of this device.

2 Quick Installation Guide

Step 1: Connect an Ethernet Cable to the AP



- 1 Slide the bottom cover of the AP down to expose the ports.
- **2** Connect an Ethernet cable (≤ 60 m), which will be connected to the PoE injector, to the **PoE**

LAN/WAN port of your AP.

3 Gently replace the cover by sliding it up until it clicks into place.

Step 2: Install the AP

Set up the AP in an outdoor location, usually on the roof, and thread plastic wraps through grooves underneath the brackets. Then attach the device firmly to a solid pole.







- **1** Connect the Ethernet cable in **Step 1** to the **PoE** port of the injector.
- **2** Connect your computer to the **LAN** port of the injector with another Ethernet cable.
- 3 Power on the AP by plugging the included power adapter into the DC jack on the injector, and the other end into a standard power outlet.

Step 4: Quick Setup the AP

1. Verify that your PC is set to **Obtain an IP address automatically**.

🛡 Tip

As the DHCP server of this AP is enabled by default, the first time you log in to this device from your PC, you only need to set your PC to **Obtain an IP address automatically**. Once you finished settings on **Quick Setup** page, the DHCP server will be disabled. At this time, if you want to log in to its web UI, you need to specify an IP address manually to your PC. For specific steps, see Appendix <u>1 Configure PC</u>.

Input 192.168.2.1 in a web browser's address bar, and then press Enter or Return on your keyboard.



3. Enter the default username and password (**admin** for both defaults) and click **Login**.

8	admin	
8		
9	India	•
		Login
		Forget your password?

4. Please select the proper operating mode and follow instructions on the web UI to apply your settings. 7 operating modes are supported on this AP: AP, Station (Client), Universal Repeater, WISP, Repeater, P2MP and Router.

Tenda	
小 Status	Current Mode: AP Mode Quick Setup
💠 Quick Setup	Please select operation mode for CPE:
Metwork	AP Transform your existing wired network to a wireless network.
🛜 Wireless	Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
X Advanced	Universal Repeater Extend your existing wireless coverage by relaying wireless signal.
🖏 Tools	 WISP Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network. Repeater Transform your existing wired network to a wireless network.
	P2MP Combine multi local networks via wireless connection.
	Router Wired connect to ADSL/Cable Modern via WAN port and share Internet to local wireless and wired network.
	Next

AP Mode

In this mode, the device can be connected to a wired network and transform the wired access into wireless that multiple devices can share together.



Configuration Steps:

1 Select **AP** mode and click **Next**.

Te	enda	
.∿	Status	Current Mode: AP Mode
\$	Quick Setup	Please select operation mode for CPE:
۲	Network	() AP Transform your existing wired network to a wireless network.
((i:	Wireless	Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
*	Advanced	Universal Repeater Extend your existing wireless coverage by relaying wireless signal.
\$	Tools	 WISP Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network. Repeater Combine multi networks via wireless connection.
		◎ P2MP Combine multi local networks via wireless connection.
		Router Wired connect to ADSL/Cable Modern via WAN port and share Internet to local wireless and wired network.
		Next

2 Customize SSID (WiFi name), set wireless security settings (Recommended: WPA-PSK, AES) for your local network and then click **Next**.

Te	enda				
*	Status	Quick	Setup >> AP		Current Mode: AP Mode
4	Quick Setup	This sect	tor is used <mark>t</mark> o set wir	eless network name and wireless password for y	your local network,
	Network	please re	emember the wifi pa	ssword.	
((i:	Wireless	Û	SSID	Tenda_000030	
*	Advanced		Channel	Auto 🔻	
Ø,	Tools		Security Mode	WPA-PSK 🔻	
v		2	Encryption Type	● AES ○ TKIP ○ TKIP&AES	
			WiFi Password	12345678	
					Previous Next

3 Click **Save** to apply your changes. Wait until the device restarts automatically.

Tend a		
A Status	Quick Setup >> AP	Current Mode: AP Mode
Quick Setup	You are configuring the device to work as AP mode. If you have confirmed settings,	
Metwork	please click Save to reboot the device and activate the congfiuration.	
🛜 Wireless		Previous Save
🗙 Advanced		
🖏 Tools		

Station (Client) Mode

In this mode, the device can be connected to another device via an Ethernet port and act as an adapter to grant your wired devices access to a wireless network, especially for data transmission or video surveillance.





Configuration Steps:

1 Select Station (Client) mode and click Next.

Tenda Current Mode: AP Mode Quick Setup **小** Status Quick Setup Please select operation mode for CPE: O AP Transform your existing wired network to a wireless network. Network () Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network. Wireless O Universal Repeater Extend your existing wireless coverage by relaying wireless signal. 🗙 Advanced • WISP Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network. ø, Tools Repeater Combine multi networks via wireless connection. P2MP Combine multi local networks via wireless connection. Router Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network. O Next

2 Select the SSID (WiFi name) you wish to connect to and click Next.

Te	enda						
						Current Mode: AP	
≁-	Status	Quick Setup >> Static	Quick Setup >> Station				
47	Quick Setup	Please switch on Scan butte	Please switch on Scan button or click Rescan to scan the wireless signal, then select the remote AP you want to connect, and click Next to continue. Scan Rescan				
	Network	then select the remote AP					
((ı:	Wireless	Scan					
*	Advanced	Remote SSID	Tenda_1C8110				
ø,	Tools	Select SSID	Channel	MAC Address	Encryption	Signal Strength 🔻	
•		Tenda_1C8110	2	C8:3A:35:00:9C:E0	wpa2psk/aes		

3 Enter the key (WiFi password) of the remote device and click **Next**.

		· · · ·	
Te	enda		
			Current Mode: AP Mode
-∿-	Status	Quick Setup >> Statio	<u>n</u>
4	Quick Setup	Please keep Channel, Securi	ity mode,Encryption Type,Frequency bandwidth the same with remote AP,
	Network	then enter the remote AP's	wifi password,and click Next to continue.
((r-	Wireless	Remote AP	Tenda_1C8110
*	Advanced	Remote AP MAC	C8:3A:35:00:9C:E0
~	Taala	Channel	Channel 2 (2417MHz)
~~	TOOIS	Security Mode	WPA2-PSK
		Encryption Type	
			Previous Next

4 Make sure that the IP address is different from that of the remote device but on the same network segment and then click **Next**.

Tenda		
小 Status	Quick Setup >> Station	Current Mode: AP Mode
💠 Quick Setup	Please make sure the IP addr	ress is different from remote AP's IP address but in the same network segment.
Network	IP Address	192.168.2.10
🛜 Wireless	Subnet Mask	255.255.255.0
🗙 Advanced	Default Gateway	192.168.2.254
🖏 Tools	Preferred DNS Server	192.168.2.254
	Alternate DNS Server	8.8.4.4
		Previous Next

5 Click **Save** to apply your changes. Wait until the device restarts automatically.

When the Bridge LED stays solid, it has been bridged successfully!

Te	<i>rend</i> a				
h	Status	Quick Setup >> Station	Current Mode: AP Mode		
4	Quick Setup	You are configuring the device to work as Station mode. If you have confirmed settings,			
۲	Network	please click Save to reboot the device and activate the congfiuration.			
(i:	Wireless		Previous Save		
ж	Advanced				
ø,	Tools				

Universal Repeater Mode

In this mode, the device extends the wireless coverage of another wireless AP or router. The advantage of the universal repeater is that the remote device does not need to have WDS function and may not need to be the same brand. Therefore, it can work with almost any wireless device.



Configuration Steps:

1 Select Universal Repeater mode and click Next.

Tend a	
_	Current Mode: AP Mode
 ↓ Status ↓ Quick Setup 	Please select operation mode for CPE:
Metwork	AP Transform your existing wired network to a wireless network.
🛜 Wireless	Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
🗙 Advanced	() O Universal Repeater Extend your existing wireless coverage by relaying wireless signal.
🍫 Tools	WISP Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network. Repeater Combine multi networks via wireless connection. P2MP Combine multi local networks via wireless connection.
	Router Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.

2 Select the SSID (WiFi name) you wish to connect to and click Next.

Tenda				
A ⊷ Status	Quick Setup >> Universal Repeater			Current Mode: AP Mod
Quick Setup	Please switch on Scan button or click Rescar	to scan the wireless sign	al,	
Metwork	then select the remote AP you want to conn	then select the remote AP you want to connect, and click Next to continue.		
♥ Wireless	Remote SSID Tenda_88888	8		
X Advanced	Select SSID Channel	MAC Address	Encryption	Signal Strength 🔻
* ₀ 10013	Tenda_1C8110 13	00:B0:0C:1C:81:09	none	
	Tenda_888888 13	C8:3A:35:12:34:B0	wpa2psk/aes	

_	2		
TE	enda_		
			Current Mode: AP Mode
∿	Status	Quick Setup >> Unive	rsal Repeater
4	Quick Setup	Please keep Channel, Securi	ity mode,Encryption Type,Frequency bandwidth the same with remote AP,
۲	Network	then enter the remote AP's	wifi password,and click Next to continue.
((ı:	Wireless	Remote AP	Tenda_888888
		Remote AP MAC	C8:3A:35:12:34:B0
Х	Advanced	Channel	Channel 13 (2472MHz)
ಥ್	Tools	Security Mode	WPA2-PSK
		Encryption Type	● AES ○ TKIP ○ TKIP&AES
		С	
			Previous Next

3 Enter the key (WiFi password) of the remote SSID and click Next.

4 Make sure that the IP address is different from that of the remote device but on the same

Te	enda			
4	Status	Quick Setup >> Univer	sal Repeater	Current Mode: AP Mode
4	Quick Setup	Please make sure the IP addr	ress is different from re	remote AP's IP address but in the same network segment.
	Network	IP Address	192.168.2.1	
((ı:	Wireless	Subnet Mask	255.255.255.0	
*	Advanced	Default Gateway	192.168.2.254	
್ಮ	Tools	Preferred DNS Server	192.168.2.254	
		Alternate DNS Server		
				Previous Next

network segment and then click Next.

5 Click **Save** to apply your changes. Wait until the device restarts automatically.

When the **Bridge** LED stays solid, it has been bridged successfully!

Te	<i>Tend</i> a					
4	Status	Quick Setup >> Universal Repeater				
4	Quick Setup	You are configuring the device to work as Universal Repeater mode. If you have confirmed settings,				
۲	Network	please click Save to reboot the device and activate the congfiuration.				
((:-	Wireless	Previous Save				
*	Advanced					
್ಮ	Tools					

WISP Mode

In this mode, the device connects to ISP hotspot wirelessly to share Internet with local devices.



Configuration Steps:

1 Select **WISP** mode and click **Next**.

Tenda	
小 Status	Current Mode: AP Mode Quick Setup
💠 Quick Setup	Please select operation mode for CPE:
Network	AP Transform your existing wired network to a wireless network.
🛜 Wireless	Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
X Advanced	O Universal Repeater Extend your existing wireless coverage by relaying wireless signal.
Ø Tesle	() • WISP Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network.
No Ioois	Repeater Combine multi networks via wireless connection.
	P2MP Combine multi local networks via wireless connection.
	Router Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.
	2 Next

2 Select the SSID (WiFi name) you wish to connect to and click Next.

Tenda						
A Status	Quick Setup >> WISP				Current Mode: AP Mo	de
♣ Quick Setup	Please switch on Scan button	or click Rescan to	scan the wireless sign	al,		
Wireless	then select the remote AP you want to connect, and click Next to continue. Scan Rescan					
🗙 Advanced	Remote SSID	Tenda_1C8100				
🖏 Tools	Select SSID Tenda_1C8110	Channel 13	MAC Address C8:3A:35:00:00:10	Encryption wpa2psk/aes	Signal Strength ▼	

Te	enda		
		1	Current Made: AP Made
.∿-	Status	Quick Setup >> WISP	Current Mode. AF Mode
\$	Quick Setup	Please keep Channel, Securi	ty mode,Encryption Type,Frequency bandwidth the same with remote AP,
۲	Network	then enter the remote AP's	wifi password,and click Next to continue.
((i:	Wireless	Remote AP	Tenda_1C8110
*	Advanced	Remote AP MAC	C635A:55:00/00/10
್ಮ	Tools	Chamer Security Mode	
		Encryption Type	
		() Key	
			Previous

3 Enter the key (WiFi password) of the remote SSID if needed and click Next.

4 Select the WAN connection type, set corresponding parameters if needed and click **Next**.

Te	<i>rend</i> a					
~	Status	Current Mode: AP Mode Quick Setup >> WISP				
4	Quick Setup	Please select WAN connection type,then enter the PPPoE acount or ip address provided by ISP,				
	Network	and click Next to continue.				
((ı:	Wireless	WAN Connection Type				
*	Advanced	Previous Next				
۵,	Tools					

5 Customize the SSID (WiFi name) and wireless security settings (Recommended: WPA2-PSK,

AES) for your local network, and then click Next.

Te	enda					
		Quidt	Satur >> W/ISD		C	Current Mode: AP Mode
∿ 4	Status Quick Setup	This sec	tor is used to set wir	eless network name and wireless pas	sword for vour local network.	
۲	Network	please r	remember the wifi pa	Tenda_002160)]	
≈	Wireless		Channel	Channel 13 (2472MHz)		
۵,	Tools		Security Mode	WPA2-PSK		
			Encryption Type WiFi Password	AES TKIP TKIP&AES		
						Previous Next

6 Make sure that the IP address is different from that of ISP hotspot and on the different network segment. For example, if the ISP hotspot's IP address is 192.168.2.x, this AP's IP can be 192.168.5.x.

Te	enda		
<u>۸</u> ـ	Status	Quick Setup >> WISP	Current Mode: AP Mode
4	Quick Setup	Please make sure the IP addr	ress is different from ISP hotspot's IP address and in the different network segment.
۲	Network	IP Address	192.168.5.1
((¢	Wireless	Subnet Mask	255.255.255.0
*	Advanced		Previous
್ಮ	Tools		

7 Click **Save** to apply your changes. Wait until the device restarts automatically.

When the **Bridge** LED stays solid, it has been bridged successfully!

Te	nd a		
_			
4	Status	Quick Setup >> WISP	Current Mode: AP Mode
4	Quick Setup	You are configuring the device to work as WISP mode. If you have confirmed settings,	
	Network	please click save to reboot the device and activate the congritination.	
((¢	Wireless		Previous Save
*	Advanced		
್ಮ	Tools		

Repeater + P2MP Mode

Both the Repeater mode and P2MP mode support point-to-multipoint bridge connection. Only the base device and remote device scan each other and keep their SSIDs, channels, security modes and keys the same, can they bridge successfully. However, in P2MP mode, wireless clients are not allowed to connect to the device itself. The device only works as a repeater to relay wireless signal.



Before configuring Repeater + P2MP settings, verify the following information:

AP	Mode	SSID	MAC Address	Key
Base AP	P2MP	Tenda_002160	C8:3A:35:00:21:61	11111111
AP1		Tenda_000050	C8:3A:35:00:00:51	11111111
AP2	-	Tenda_000020	C8:3A:35:00:00:21	11111111
AP3	Repeater	Tenda_130507	C8:3A:35:13:05:08	11111111
AP4		Tenda_4EF409	C8:3A:35:4E:F4:10	11111111

ANote:

1. As for IP addresses, they should not be the same but on the same network segment.

2. The base AP's and the remote device's SSIDs, channels, security modes and keys should be kept the same.

3. Up to 4 APs can be bridged at the same time both for both the Repeater and P2MP mode.

Configuration Steps:

- a. Repeat following steps to set AP1, AP2, AP3 and AP4 in Repeater mode to bridge with the base AP respectively
- 1 Select **Repeater** mode on the **Quick Setup** page and click **Next**.

Te	enda	
.∿-	Status	Quick Setup
4	Quick Setup	Please select operation mode for CPE:
۲	Network	AP Transform your existing wired network to a wireless network.
((r	Wireless	Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
*	Advanced	Universal Repeater Extend your existing wireless coverage by relaying wireless signal.
ø,	Tools	 WISP Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network. Repeater Combine multi networks via wireless connection.
		P2MP Combine multi local networks via wireless connection.
		Router Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.
		Next

2 Select the SSID of base AP you want to connect to and click **Next**.

Te	enda						
	<u></u>	Ouick	Setup >> Repea	ter			Current Mode: AP Mo
Ŷ	Status	_					
4	Quick Setup	Please s	witch on Scan butto	n or click Rescan	to scan the wireless sign	al,	
	Network	then se	lect the remote AP ye	ou want to conne	ct, and click Next to con	tinue.	
((ı:	Wireless		Scan	Resc	an		
	Adversed	-	Remote AP MAC 1	C8:3A:35:00:21	:61		
~	Advanced		Remote AP MAC 2				
Φ,	Tools						
			Remote AP MAC 3				
		1	Remote AP MAC 4				
		Select	SSID	Channel	MAC Address	Encryption	Signal Strength 🔻
		۲	Tenda_002160	2	C8:3A:35:00:21:61	wpa2psk/aes	
		0	Tenda_1C8110	13	00:B0:0C:1C:81:09	none	100

3 Enter the key of the base AP and click **Next**.

Te	enda	
≁	Status	Current Mode: AP Mode Quick Setup >> Repeater
4	Quick Setup	Please keep Channel, Security mode, Encryption Type, Frequency bandwidth the same with remote AP,
۲	Network	then enter the remote AP's wifi password, and click Next to continue.
((t-	Wireless	Channel Channel 2 (2417MHz) V
*	Advanced	Security Mode WPA2-PSK •
۵,	Tools	Encryption Type AES TKIP TKIP&AES
		Previous Next

⁽⁴⁾ Make sure the IP address is different from the base AP's IP address but on the same network segment and click **Next**. In this example, the base AP's IP address is 192.168.2.1, and you can set IP addresses of AP1, AP2, AP3 and AP4 to 192.168.2.3, 192.168.2.4, 192.168.2.5 and 192.168.2.6 respectively.

Tenda		
小 Status	Quick Setup >> Repeat	Current Mode: AP Mode
Quick Setup	Please make sure the IP addr	ess is different from remote AP's IP address but in the same network segment.
Network	IP Address	192.168.2.3
🛜 Wireless	Subnet Mask	255.255.255.0
X Advanced	Default Gateway	192.168.2.254
🍫 Tools	Preferred DNS Server	192.168.2.254
	Alternate DNS Server	8.8.4.4
		Previous

5 Click **Save** to apply your changes. Wait until the device restarts automatically.



6 Then you can go to the **Status** page to view that its SSID is identical with the base AP's, which indicates that this AP has bridged with the base AP successfully.

Te	e nd a		
\mathbf{V}	Status	Status	
\$	Quick Setup	System Info	
	Network	Device Name	O3V1.0
((ı-	Wireless	Running Time	7m 8s
ж	Advanced	System Time	2015-08-11 14:24:00
Φ,	Tools	Firmware Version	V1.0.0.2(1578)
		Wireless Info	
		Working Mode	Repeater
		SSID	Tenda_002160
		Security Mode	WPA2-PSK
		Channel/Bandwidth	2/2417
		Wireless Clients	0

b. Set the base AP in P2MP mode and bridge with AP1, AP2, AP3 and AP4.

1 Select **P2MP** mode on the **Quick Setup** page and click **Next**.

Tenda	
小 - Status	Quick Setup
💠 Quick Setup	Please select operation mode for CPE:
Metwork	O AP Transform your existing wired network to a wireless network.
🛜 Wireless	Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
🗙 Advanced	O Universal Repeater Extend your existing wireless coverage by relaying wireless signal.
🍇 Tools	 WISP Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network. Repeater Combine multi networks via wireless connection.
	● P2MP Combine multi local networks via wireless connection.
	Router Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.
	Next

▶ Status	Quick Setup >> P2MP				Current Mode: /
Quick Setup	Please switch on Scan butto	n or click Rescan t	to scan the wireless sign	al,	
Network	then select the remote AP y	ou want to conne	ct, and click Next to con	tinue.	
Wireless	Scan	Resc	an		
• • • •	Remote AP MAC 1	C8:3A:35:00:00	51		
Advanced	Remote AP MAC 2	C8:3A:35:00:00	21		
Tools					
	Remote AP MAC 3	C8:3A:35:13:05	08		
	Remote AP MAC 4	C8:3A:35:4E:F4	:10		
	Select SSID	Channel	MAC Address	Encryption	Signal Strength
	Tenda_002160	2	C8:3A:35:00:00:51	wpa2psk/aes	1000
	 Tenda_002160 	2	C8:3A:35:00:00:21	wpa2psk/aes	llee
		2	C8:3A:35:13:05:08	wpa2psk/aes	
	Tenda 002160	2	C8-34-35-4E-E4-10	wpa2psk/aes	.all

2 Select SSIDs of AP1, AP2, AP3 and AP4 one by one and click Next.

3 Enter the key of the remote APs (Here these APs refer to AP1, AP2, AP3 and AP4) and click **Next**.

Note: As SSIDs, channels and security settings of all devices involved in both Repeater mode and P2MP mode need to be identical, and the remote APs have bridged to the base AP first, SSIDs and keys of all remote APs have been set to be identical with the base AP.

Tenda		
	Current Mode	: AP Mode
小 Status	Quick Setup >> P2MP	
Quick Setup Network	Please keep Channel, Security mode,Encryption Type,Frequency bandwidth the same with remote AP, then enter the remote AP's wifi password,and click Next to continue.	
🛜 Wireless	Channel 2 (2417MHz)	
🗙 Advanced	Security Mode WPA2-PSK •	
🍫 Tools	Encryption Type All ALS TKIP TKIP&AES Key 11111111 Previous	2 Next

Tenda Current Mode: AP Mode Quick Setup >> P2MP ↓ Status 💠 Quick Setup Please make sure the IP address is different from remote AP's IP address but in the same network segment. Network IP Address 192.168.2.1 Wireless 1 255.255.255.0 Subnet Mask 🗙 Advanced 192.168.2.254 Default Gateway Ø, Tools Preferred DNS Server 192.168.2.254 8.8.4.4 Alternate DNS Server Previous Next

5 Click Save to apply your changes. Wait until the device restarts automatically.

When the Bridge LED stays solid, it has been bridged successfully!

TE	enda		
∿	Status	Quick Setup >> P2MP	Current Mode: P2MP Mode
4	Quick Setup	You are configuring the device to work as P2MP mode. If you have confirmed settings,	
	Network	please click Save to reboot the device and activate the congliuration.	
((:-	Wireless		Previous Save
ж	Advanced		
Φ.	Tools		

Router

In this mode, the device enables multi-users to share Internet via ADSL/Cable Modem. And the LAN port of the PoE injector works as the WAN port.



4 Make sure the IP address is different from that of remote APs and click Next.

Configuration Steps

1 Select **Router** mode and click **Next**.

Tenda Current Mode: AP Mode Quick Setup **小** Status 4 Quick Setup Please select operation mode for CPE: ○ AP Transform your existing wired network to a wireless network. Metwork Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network. < Wireless O Universal Repeater Extend your existing wireless coverage by relaying wireless signal. 🗙 Advanced Internet to ISP station/hotspot to share Internet to local wireless and wired network. Φ, Tools O Repeater Combine multi networks via wireless connection. P2MP Combine multi local networks via wireless connection. () Router Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network. O Next

2 Select the WAN connection type, set corresponding parameters if needed and click Next.

Tenda	
	Current Mode: AP Mode
↓ Status	
4 Quick Setup	Please select WAN connection type, then enter the PPPoE acount or ip address provided by ISP,
Network	and click Next to continue.
🛜 Wireless	WAN Connection Type O DHCP(Dynamic IP) Static IP PPPoE
X Advanced	Previous Next
🖏 Tools	

3 Customize the SSID (WiFi name) and wireless security settings (Recommended: WPA2-PSK,

Te	enda			
				Current Mode: AP Mode
≁	Status	Quick S	etup >> Router	<u></u>
4	Quick Setup	This sector	or is used to set win	reless network name and wireless password for your local network,
	Network			Tanda 002160
((r	Wireless		Channel	
*	Advanced		Channel	Auto
್ಮ	Tools		Security Mode	WPA2-PSK •
			Encryption Type	AES TKIP TKIP&AES
			WiFi Password	12345678
				Previous Next

AES) for your local network, and then click Next.

TE	enda						
*	Status	Quick Setup >> Router	Current Mode: AP Mode				
4	Quick Setup	You are configuring the device to work as Router mode. If you have confirmed settings,					
۲	Network	please click Save to reboot the device and activate the congfiuration.					
(îċ	Wireless		Previous Save				
*	Advanced						
\$	Tools						
e Tip							
After finishing operating mode settings mentioned above, please verify that devices connecting to							
the A	the AP are set to Obtain an IP address automatically for Internet access.						

4 Click **Save** to apply your changes. Wait until the device restarts automatically.

3 Advanced Settings

Status

To view system info, wireless info and statistics like throughput, clients info, port info, ARP table,

etc.,	click	Status	to	enter	page	below:
-------	-------	---------------	----	-------	------	--------

∿	Status	Status				
A	Quick Satup					
v	Quick Setup	System Info				
	Network	Device Name	O3V1.0			LAN MAC
((:	Wireless	Running Time	3h 55m 53s		LAN/V	VAN MAC
Ķ	Advanced	System Time	2015-08-07 14:56:04		WLA	N MAC
\$	Tools	Firmware Version	V1.0.0.2(1528)		LAN0,	/LAN1
		Wireless Info				
		Working Mode	AP		Remote AP	MAC
		SSID	Tenda_002160		Signal Str	ength
		Security Mode	None		Noise	floor
		Channel/Bandwidth	2/2417		TX/RX	Link
		Wireless Clients	0		TX/RX I	Rate
		Statistics				
		Throughput	Clients	Interface	ARP Tab	le
		WLANO	TX 1.16Kbps RX 0Kbps		T LAN0	X 2.5 X 3.1
		1.18		3.46		

System Info

- **Device Name ---** Display the remarks or identifier of the device.
- **Running Time ---** This is the total time the device has been running since the latest reboot.
- System Time --- Display the current system date and time. The date and time are displayed in YEAR-MONTH-DAY HOURS: MINUTES: SECONDS format.
- **Firmware Version ---** Display the device's current firmware version.
- **LAN MAC** --- Display the MAC address of the device as seen on the LAN interface.
- LAN/WAN MAC --- Display the MAC address of the device which can be seen on the WAN interface. This is the device's MAC address which can be seen over the Internet.
- WLAN MAC --- Display the wireless MAC address of the device.
- LAN0/LAN1 --- Indicate the current status of the WAN and LAN Ethernet port connections.

This can indicate whether there's an active Ethernet connection on the corresponding port.

Wireless Info

- Working Mode --- Display the operating mode of the device.
- **SSID** --- Display the WiFi name (SSID).
- Security Mode --- Display the wireless security method being used on the device.
- Channel/Bandwidth --- Display the channel number and corresponding operating frequency.
- Wireless client --- Indicate the number of connected wireless clients.
- Remote AP MAC --- In AP/Router mode, it displays as Not Associated. In Station/Universal Repeater/WISP/P2MP/Repeater mode, it displays the MAC address of the remote AP the device is associated with.
- **Signal Strength ---** Display the received wireless signal level.
- Noise floor --- Display the current value (in dBm) of the environmental noise the receiver hears on the operating frequency.
- TX/RX Link --- Display the number of independent spatial data flow the device is transmitting (TX) and receiving (RX).
- TX/RX Rate --- (Available in Station mode only.) Display the current 802.11 data transmission (TX) and data reception (RX) rates.

Statistics

- Throughput --- Display the current date traffic on the LAN and WLAN. The chart scale and throughput dimension change dynamically depending on the mean throughput value. The statistics are updated automatically.
- Clients --- (Available in AP and Router mode) Display clients that are connected to the device.
- AP Information --- (Available in Station/WISP/Universal Repeater/P2MP/Repeater mode.)
 Display the connection statistics of the AP associated with the device.
- Interface --- Display MAC address, IP address, and traffic information of the device's interfaces.
- ARP Table --- List all the entries of the Address Resolution Protocol (ARP) table currently recorded on the device.
- **Routing Table ---** Display all the entries in the system's routing table.

Quick Setup

This section mainly walks you through operating modes of the AP. Click **Quick Setup** to enter page below and you can select the proper operating mode in terms of your network environment. For specific configuration steps and application scenarios of different operating modes, see <u>Step 4</u>: <u>Quick Setup the AP</u>.

Tenda	
小 - Status	Quick Setup
4 Quick Setup	Please select operation mode for CPE:
Metwork	(AP Transform your existing wired network to a wireless network.
🛜 Wireless	Station(Client) Acting as a "Wireless Adapter" to connect your wired devices to a wireless network.
X Advanced	O Universal Repeater Extend your existing wireless coverage by relaying wireless signal.
🖏 Tools	 WISP Wirelessly connect to ISP station/hotspot to share Internet to local wireless and wired network. Repeater Combine multi networks via wireless connection.
	P2MP Combine multi local networks via wireless connection.
	Router Wired connect to ADSL/Cable Modem via WAN port and share Internet to local wireless and wired network.
	Next

Network

How to Change the LAN IP Address

You can choose whether the AP gets its IP address manually (static IP) or automatically (DHCP).

Click **Network > LAN Setup** to enter page below:

Te	e nd a				
					Current Mode: AP Mode
h	Status	LAN Setup			
\$	Quick Setup	MAC Address	C8:3A:35:00:21:60		•
۲	Network	Address Type	Static IP 🔻		
	LAN Setup	IP Address	192.168.2.1		
	DHCP Server				
	DHCP Client	Subnet Mask	255.255.255.0		
((ı:	Wireless	Default Gateway	192.168.2.254		
*	Advanced	Preferred DNS Server	192.168.2.254		
ø,	Tools	Alternate DNS Server			
			Save	Cancel	

To set your AP's IP address in Static IP mode:

1 Address Type: Select Static IP.

2 IP Address: Enter a unique IP address that will be used to login to this AP's web UI.

3 Subnet Mask: Enter the subnet mask of your network.

4 Default Gateway: Enter the IP address of the default gateway for your network.

5 Preferred DNS Server: Specify the IP address of the preferred DNS (Domain Name System) server.

6 Alternate DNS Server: Specify the IP address of the alternate DNS server. This entry is optional and used only if the primary DNS server is not responding.

7 Click **Save** to apply your changes.

Note:

In static IP address mode, once you've changed your LAN IP address, you need to use the new IP address to login to its web UI.

Te	enda				
		· · · · · · · · · · · · · · · · · · ·			
٨.	Status	LAN Setup			Current Mode: AP Mode
4	Quick Setup	MAC Address	C8:3A:35:00:21:60		?
	Network	Address Type	DHCP		
	LAN Setup	IP Address	192.168.2.1		
	DHCP Server DHCP Client	Subnet Mask	255.255.255.0		
((ı:	Wireless	Default Gateway	192.168.2.254		
*	Advanced	Preferred DNS Server	192.168.2.254		
್ಮ	Tools	Alternate DNS Server			
			Save	Cancel	

To set your AP's IP address in DHCP mode:

- **1** Address Type: Select DHCP.
- 2 Click **Save** to apply your changes.

l Note:

In DHCP mode, your LAN IP address is assigned by the DHCP server of your uplink device. Thus, to know your LAN IP address, you need to check it on the DHCP client list of the uplink device.

How to Configure DHCP Server Settings

If you enable DHCP server on the device, it will automatically configure the TCP/IP settings for all your LAN computers (including IP address, subnet mask, gateway and DNS etc.), eliminating the need of manual intervention. Just be sure to set all computers on your LAN to be DHCP clients by selecting **Obtain an IP Address Automatically** respectively on each PC. When turned on, these PCs will automatically load IP information from the DHCP server. By default, the DHCP server on this device is enabled, it will be disabled after you finished quick setup when choosing AP/Station/Universal Repeater/Repeater/P2MP mode. Click **Network > DHCP Server** to enter page below:

e	nda		
			Current Mode: AP Mod
∿ §	Status	DHCP Server	
\$ (Quick Setup	DHCP Server	Enable
	Network	Start IP	192.168.2.2
	LAN Setup	End IP	102 169 2 254
	DHCP Server	End IP	192,106,2,204
	DHCP Client	Subnet Mask	265.255.255.0
	Wireless	Default Gateway	192.168.2.254
* /	Advanced	Preferred DNS Server	192.168.2.254
Ø, 1	Tools	Alternate DNS Server	8.8.4.4
		Lease Time	1 Day 🔻
			Save

- **DHCP Server** --- Check/Uncheck it to enable/disable the DHCP server.
- **Start IP** --- The start IP address that the DHCP server has automatically assigned.
- End IP --- The end IP address that the DHCP server has automatically assigned.
- Subnet Mask --- Define the device IP type for the chosen IP address range.
- Default Gateway --- Typically, this is the IP address of the host router, which provides the access to the Internet.
- **Primary DNS Server ---** Primary DNS server address.
- Alternate DNS Server --- Alternate DNS server address.
- Lease Time --- How long the IP address can be used by the client device.

How to View DHCP Client Info

To view DHCP clients information, click **Network > DHCP Client** to enter page below:

Te	enda					
_					Current Mode: A	P Mode
\mathbf{A}	Status	DHCP Client			current mode. P	(P WOde
4	Quick Setup					?
-		ID	IP Address	MAC Address	Lease Time	
•	Network	1	192.168.2.141	a8:a6:68:14:8c:15	22h 51m 32s	
	LAN Setup					
	DHCP Server					
	DHCP Client					

How to Clone MAC Address

In general, if you cannot access the Internet via your connected computer or smart-phone, meanwhile you find you can only access the Internet via a specified computer directly without a router, you can try cloning the MAC address on the MAC Clone page. It is especially useful if your ISP only assigns one valid IP address and it is associated to a specific MAC address. This is usually used by cable operators or some WISPs. Note that this function is only available in Router mode.

Click **Network > MAC Clone** to enter page below.

Tenda		
♪ Status	MAC Clone	Current Mode: Router Mode
Quick Setup	MAC Address C8 34 35 00 01 21	?
Network		
LAN Setup		
MAC Clone	Save Cancel	
DHCP Server		
DHCP Client		

 If the specified computer connected to your device via an Ethernet cable, and you configure the router on the specified computer, follow the steps below:

1 Click Clone MAC and the specified computer's MAC address will be entered in the MAC

Address field.

2 Click Save.

If the computer connected to your device is not the specified computer, follow the steps below:

1 Enter the MAC address of the specified computer in the MAC Address field.

2 Click Save.

Other Options may help:

Default MAC: Click it to restore the current MAC address to factory default MAC of the Router.

Clone MAC: Click it to copy the MAC address of the connected computer to the MAC Address field.
Wireless

How to Configure Basic Wireless Settings

To configure basic wireless settings, like SSID (WiFi name), network mode, TX power, etc., click

Wireless >	Basic	to enter	page	below:
------------	-------	----------	------	--------

Tend	a		
			Current Mode: AP Mode
小 Status	Basic		
♣ Quick Set	up WiFi	Enable O Disable	2
Network	Country	India 🔻	
🛜 Wireless	SSID	Tenda_002160	
Basic	Broadcast SSID	Enable O Disable	
Advance	d	-	
Access C	ontrol Network Mode	11b/g/n	
🗙 Advanced	Security Mode	None	
🖏 Tools	Channel	Auto 🔻	
	TX Power	28 8dBm 29dBm	
	Bandwidth	○ 20 ● 40 ○ Auto	
	Extension Channel	Auto 🔻	
	AP Isolation	○ Enable	
	TX Rate	auto 🔻	
		Save	

- WiFi --- Check the Enable box to enable the WiFi of your SSID or check the Disable box to disable the WiFi of your SSID.
- **Country ---** Select the country for your WiFi.
- **SSID** --- Customize the SSID as you like.
- Broadcast SSID --- When it is enabled, wireless clients are able to scan the SSID; when it is disabled, wireless clients are unable to scan the SSID. At this time, if you want to connect to it wirelessly, you have to type in the SSID and select the encryption mode manually.
- Network Mode --- Select a proper network mode: 11 b/g/n mixed, 11 b/g mixed, 11g or 11b.
- Security Mode --- Select WEP, WPA-PSK, WPA2-PSK, WPA-PSK&WPA2-PSK, WPA, WPA2.
- (1) WEP: Compliant with the full IEEE 802.11 standard.

Authentication Type: Open or Shared. Enter a WEP key that is either 5 or 13 ASCII characters or 10 or 26 Hex characters when your authentication type is Open and Shared.

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.

WEP Keys: ASCII and Hex are provided for you to configure. When you configure ASCII, you can choose 5 or 13 ASCII codes (only "0~9, a~z, A~Z, @, *, -, _"can be allowed). When you configure Hex, you can choose 10 or 26 hexadecimal numbers. One English letter or an Arabic numeral takes up one ASCII code.

(2) WPA / WPA2 – PSK: A mode based on WPA / WPA2 - PSK.

You can enable personal (PSK) or mixed mode, but you must make sure that the wireless client also supports the selected encryption method.

Encryption Type: Select AES, TKIP and TKIP & AES.

Key: Enter a security key that is either 8 - 63 ASCII characters or 8 - 64 Hex characters.

Key Update Interval: You can configure security key's update interval here within the range from 60 to 99999 seconds. If set to 0, the key will not be updated.

(3) WPA/WPA2: A mode based on Radius server authentication.

Radius Server IP: Display the Radius server's IP address.

Radius Port: Authentication port for Radius server. The default is 1812.

Encryption Type: Select AES, TKIP and TKIP&AES.

Key: Enter a key that is 1-64 ASCII characters.

Key Update Interval: You can configure security key's update interval here within the range from 60 to 99999 seconds. If set to 0, the key will not be updated.

- Channel --- For an optimal wireless performance, you may select the channel with least interference. It is advisable that you select 'Auto' to let the device detect and select the best possible channel for your wireless network to operate on.
- TX Power --- Define the maximum average transmitted output power (in dBm) of the device.
 To specify the output power, use the slider to adjust the output power. Transmitted power regulations differ in different countries.
- Bandwidth --- Display the bandwidth of the radio channel. You can use this option to control the bandwidth occupied by your link.

- Extension Channel --- This is used to ensure radio frequency for 802.11n devices on the network.
- AP Isolation --- When this function is enabled, wireless clients connected to the same SSID won't be able to communicate with each other, which can enhance wireless network security.
- TX Rate --- Define the data rate (in Mbps) at which the device should transmit wireless packets. You can fix a specific data rate between MCS 0 and MCS 7. Do not change the default setting "Auto" unless necessary. If you select 20 MHz Channel Width, the maximum data rate is MCS 7 (65 Mbps). If you select 40 MHz Channel Width, the maximum data rate is MCS 7(150 Mbps).

How to Configure Advanced Wireless Settings

Click **Wireless** > **Advanced** to configure advanced wireless settings. If you are not familiar with these settings, keep the default settings unchanged.

Te	nda				
<u>۸</u> ـ	Status	Advanced			Current Mode: AP Mode
4	Ouick Setup				?
•		Transmission Range	0.1	Km Range: 0.1Km - 20Km, Eg.3.1	
	Network	Beacon Interval	100	Range: 20 - 999ms	
(iċ	Wireless	Fragment Threshold	2346	Range: 256 - 2346bytes	
	Basic	RTS Threshold	2347	Range: 1 - 2347bytes	
	Advanced	DTIM Interval	1	Range: 1 - 255ms	
v	Advanced]	
~	Advanced	Application Scenarios	Urban •		
το <mark>ι</mark> φ	Tools	Signal Reception	Level 2		
		WMM Capable	Enable Disable		
		APSD Capable	Enable Interview Disable		
		Preamble	Short I Long		
		Sensitivity Threshold	◉ Disable ○ Enable		
		Antenna Polarization	 Vertical Horizonta 	I	
			Save	Cancel	

- Transmission Range --- Specify the transmission range for your device between 0.1 km and 20 km.
- 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.

- Fragment Threshold --- Specify a valid Fragment Threshold value between 256 and 2346.
 The default is 2346. Any wireless packet exceeding the preset value will be divided into several fragments before transmission.
- 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. A smaller value is recommended if you have distant clients or interference on your network.
- 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 and 255. The default is 1.
- Application Scenarios --- Select the proper application environment for the device: urban or suburban.
- **Signal Reception-**-- Adjust the signal receiving ability for your device.
- WMM Capable --- Enable Wi-Fi Multimedia feature to configure different minimum and maximum waiting times for the transmission of packets in each queue based on the requirements of the media being sent. Queues automatically provide minimum transmission delay for Voice, Video, multimedia, and mission critical applications, and rely on best-effort parameters for traditional IP data.
- **APSD Capable ---** APSD (Automatic Power Save Delivery) is disabled by default.
- Preamble --- Mainly used for preamble synchronization. It is advisable to keep the default value unchanged.
- Sensitivity Threshold --- Define the minimum client signal level accepted by the AP for the client to connect to. If the client signal level subsequently drops, the client remains connected to the AP.
- Antenna Polarization --- Adjust the angle of antennas for better wireless quality according to your environment.

How to Filter Access to Your Network

Click **Wireless** > **Access Control** to enter page below. This page allows you to specify a list of devices to allow or disallow a connection to your wireless network via these devices' MAC addresses. To deactivate this feature, uncheck **Enable**; to activate it, check **Enable** and select **Forbid only** or **Permit only**.

Te	enda					
<i>۸</i> -	Status	Access Control			Current Mode: AP Mod	de
\$	Quick Setup	SSID	Tenda_002160		•	?
	Network	MAC Filter	🔲 Enable			
((ı:	Wireless	Filter Mode	Forbid only Permit only	y		
	Basic Advanced	MAC Address		: Add	Select from the online device	
	Access Control					
х	Advanced	ID	MAC Address	Status	Action	
۵,	Tools		Save	Cancel		

For Example: To only allow your computer at the MAC address of the A8:A6:68:14:8C:15 to join your wireless network:

1 Check the **Enable** box to enable the MAC Filter feature.

2 Select **Permit only** as the Filter Mode.

3 Enter the MAC address of the device you want to allow, say A8:A6:68:14:8C:15 and click

Add. If the MAC address of the device you wish to control its access has already connected to this

AP, you can directly click **Select from the online device** to add its MAC address.

4 Click **Save** to apply your changes.

Te	enda				
					Current Mode: AP Mod
≁-	Status	Access Control			
\$	Quick Setup	SSID	Tenda_002160		
	Network	MAC Filter	✓ Enable		
((ı:	Wireless	Filter Mode	Forbid only Permit o	nly	
	Basic			,	Or
	Advanced	MAC Address	A8 : A6 : 68 : 14 :	8C : 15 Add	Select from the online device
	Access Control				
*	Advanced	ID	MAC Address	Status	Action
್ಮ	Tools	1	A8:A6:68:14:8C:15	🗷 Enable	8
			Save	Cancel	

Advanced

How to Set LAN Rate

To set the speed and duplex mode for LAN 0 or LAN/WAN port, click **Advanced > LAN Rate** to enter page below. It is advisable to keep the default setting **Auto** so that the device automatically negotiates transmission parameters, such as speed and duplex, with its remote device.

Te	enda				
		-			
.∿-	Status	LAN Rate			
\$	Quick Setup		LAN0	Auto	•
۲	Network		LAN/WAN	Auto	•
((:-	Wireless			Auto 100M Full-Duplex	
*	Advanced			100M Half-Duplex 10M Full-Duplex 10M Half-Duplex	ei
	LAN Rate			Tom Han Duplex	
	Diagnose				
	Network Service				
۵,	Tools				

How to Diagnose Your Network

Three ways are available here to diagnose your network. If there's something wrong with your network, select the proper one as you need. To deactivate this feature, select **Disable**.

Te	end a			
.∿	Status	Diagnose		Current Mode: AP Mode
4	Quick Setup	Network Diagnose	Disable	?
۲	Network		Disable Site Survery	
((t-	Wireless		Ping Traceroute	
*	Advanced			
	LAN Rate			
	Diagnose			
	Network Service			
್ಮ	Tools			

Site Survey

To get an overview of your nearby wireless networks in range on all supported channels, click **Advanced > Diagnose** and then select **Site Survey**.

The Site Survey tool reports the SSID, MAC Address, Channel, Security Mode, Encryption Type, Signal Strength of each SSID in the surrounding environment.

rend a						
小 Status	Diag	nose				Current Mode: Al
♣ Quick Setup		Network Diagnose	Site Survery	•		
Network	ID	SSID	Channel	MAC Address	Encryption	Signal Strength 🔻
🛜 Wireless	1	Tenda_1C8110	13	00:B0:0C:1C:81:09	none	
X Advanced	2	bx_liguangqian1	11	C8:3A:35:12:34:B0	wpapsk/aes	
LAN Rate	3	Tenda_000092	11	C8:3A:35:00:00:93	none	.atl
Diagnose	4	tenda_bx_wm	11	C8:3A:35:00:00:91	none	lie.
Network Service						

Ping

Ping is a computer network administration utility used to test the reachability of a host on an Internet Protocol (IP) network and to measure the round-trip time for messages sent from the original host to a destination computer.

Te	enda				
4	Status	Diagnose			Current Mode: AP Mode
\$	Quick Setup	Network Diagnose	Ping	T	?
	Network	IP Address	192.168.2.29	•	
(i:-	Wireless	Ping Packets		Range: 1 - 10000	
*	Advanced	Packet Size		Byte Range: 1 - 60000	
	LAN Rate	Start			
	Diagnose	Start			
	Network Service				
್ಕ	Tools				

To implement Ping action, click **Tools > Diagnose** and finish settings as shown below:

1 Select **Ping** from the **Network Diagnose** drop-down menu.

2 Select the IP address you wish to diagnose or select Manual to enter the IP or domain name

manually.

3 Set the number of Ping packets within the range from 1 to 10000.

4 Set the packet size within the range from 1 to 60000.

5 Click **Start** to Ping the network.

Then you can view the Ping info below.

ĨE	enda				
		Diagnage			Current Mode: Af
∿	Status	Diagnose			
\$	Quick Setup	1 Network Diag	nose Ping	,	
⊕	Network	IP Add	dress 192.168.2.29	•	
((:	Wireless	3 Ping Pag	ckets 2	Range: 1 - 10000	
×	Advanced	4 Packet	t Size 4	Byte Range: 1 - 60000	
	LAN Rate				
	Diagnose	Start			
	Network Service	Device IP	Time	9	TTL
¢,	Tools	192.168.2.29	1.063	ms	64
		192.168.2.29	0.9471	ns	64
		Ping Result		2 of 2	packets received ,0.00% loss
		Min 0.947ms	s Avg 1.00)5ms	MAX 1.063ms

Traceroute

Traceroute is a computer network diagnostic tool for displaying the route (path) and measuring whether network connection is available or not. When malfunctions occur to the network, you can locate trouble spot of the network with this traceroute test.

Te	enda			
				Current Mode: AP Mode
\mathbf{A}	Status	Diagnose		
\$	Quick Setup	Network Diagnose	Traceroute •	<u></u>
	Network	Destination IP/Domain Name		
((:	Wireless	Start		
Х	Advanced			
	LAN Rate			
	Diagnose			
	Network Service			

To implement Traceroute action, click **Tools > Diagnose** and finish settings as shown below:

1 Select **Traceroute** from the **Network Diagnose** drop-down menu.

2 Enter the destination IP or domain name of the destination host.



Then you can view the traceroute info below.

Te	e nd a			
				Current Made: AD Made
\mathbf{A}	Status	Diagnose		Current Mode. AF Mode
\$	Quick Setup	Network Diagnose	Traceroute	2
	Network	Destination IP/Domain Name	192.168.2.29	
((ı:	Wireless	3 Start		
*	Advanced		IP Address	Time
	LAN Rate	Result	IF Address	Time
	Diagnose	1	192.168.2.29	1.403 ms * 0.969 ms
	Network Service			
್ಮ	Tools			

How to Reboot Your AP Regularly

When some settings you have configured cannot be activated or your device is functioning improperly, you can reboot your device. Once this function is enabled, please make sure that your device is synchronized with the Internet time server.

Tip

- To activate this feature, verify that you have synchronized the device's system time with the Internet or your PC.
- 2. To reboot your AP manually, see <u>How to Reboot your AP Manually</u>.

To reboot your device regularly and automatically, follow steps below:

- 1 Click Advanced > Network Service and locate the Regular Reboot section.
- **2** Check the **Enable** box of **Regular Reboot**.
- **3** Set the specific time to regular reboot your device.
- 4 Set the date (from Monday to Sunday) to regular reboot your device.
- **5** Click **Save** at the bottom of this page to apply your changes.

twork Service	
Regular Reboot	🕑 Enable
Time	23:59
Date	🖉 Mon. 🖉 Tue. 🗹 Wed. 🕑 Thu.
	🖉 Fri. 🖉 Sat. 🖉 Sun. 🖉 Everyday

How to Log in to Web UI in a More Secure Way

This function enables you to log in to its web UI in a more secure way.

Configuration Steps:

- 1 Click Advanced > Network Service and locate the HTTP web service feature.
- **2** Check the **Enable** box to enable HTTP web service feature.
- **3** Enter the HTTP web service port. By default, it is port 80.
- 4 Click **Save** at the bottom of this page to apply your changes.

Web Service	Enable		
WEB Service Port	80		

5 Then you need to enter "http://login IP address: port No." in the address bar to log in to its web UI. Here we enter "http://192.168.2.1:80" in the address bar.

How to Configure the Idle Timeout

You are automatically logged out of the web UI after a period of inactivity. You can set the length of the inactive period. To change the page idle timeout, click **Advanced > Network Service**, locate the Page Timeout field, set the page timeout you wish to (Range: 1~60 minutes) and click **Save**.

Page Timeout	5	Min Range: 1-60 Minutes
--------------	---	-------------------------

How to Configure SNMP Settings

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.

SNMP	🗌 Enable
Device Name	O3V1.0
Read Community	public
Read/Write Community	private
Location	ShenZhen
	Save

- **SNMP ---** Disable/Enable the SNMP function.
- **Device Name ---** Device name of the device.
- Read Community --- Indicate the community string for read access to permit reading this AP's SNMP information. The default is Public.
- Read/Write Community --- Indicate the community string for write/read access to permit reading and re-writing this AP's SNMP information. The default is Private.
- **Location ---** Specify the physical location of the device.

How to Manage Your Device via Telnet

Telnet is another way to manage your device via cmd commands. Click **Advanced > Network Service** and slide to the bottom of the current page to locate the Telnet section.

Telnet	🖉 Enable		
UPNP	🗌 Enable		
		Save	Cancel

How to Enable the UPNP Settings

When UPnP is enabled on your device, a network device possessing a specific purpose, such as a printer, can be identified and used automatically by another computer or device on your network. If the UPNP protocol is disabled, other devices behind this device may have difficulty communicating their identification or purpose. Access your device to turn on UPNP. Click **Advanced > Network Service** and slide to the bottom of this page to locate the UPNP section.

UPNP	🗌 Enable		
		Save	Cancel

How to Prioritize Your Network Bandwidth Usage

The section helps you to improve network performance by specifying the downstream/upstream speed for computers. Note that this function is only available in WISP and Router mode. Click Advanced > Traffic Control to enter page below:

9	e nd a						
						0	
∿-	Status	Traffic Cont	rol			Curr	ent Mode:
ሃ	Quick Setup	ID	Domarka	ID Dange	Unstroam	Downstroom	Action
₽	Network	10	Refficies	IF Kange	opstream	Downstream	Action
(lı-	Wireless			Ad	d		
ś	Advanced						
	LAN Rate						
	Diagnose						
	Traffic Control						
	Port Forwarding						
	MAC Filter						
	Network Service						

For a better and reasonable network bandwidth experience, here you can configure the bandwidth to limit the speed of users with different IPs. Click **Add** to enter page below:

Traffic Control		×
Remarks		
Start IP		
End IP		
Max Upstream	KB/s 🔻	
Max Downstream	KB/s •	
	Save	

- **Remarks ---** Description of the rule.
- Start/End IP --- If you want to specify a rule for several devices which get IPs within an IP range, you need to enter the start IP and end IP to these two fields respectively.
- Max Upstream/Downstream --- Specify an upstream/downstream bandwidth range limit on specified PC(s). Note that maximum upstream/downstream bandwidth should not exceed your router's WAN bandwidth limit. (Consult your ISP if you are not clear.)

How to Visit the Intranet Resource from the Internet by Configuring

Port Forwarding Settings

Port forwarding is useful for web servers, ftp servers, e-mail servers, gaming, and other specialized Internet applications. When you enable Port Forwarding, the communication requests from the Internet to your router's WAN port will be forwarded to the specified IP address.

Note that this function is only available in WISP and Router mode.

Application Example:

Your PC (PC1: 192.168.0.101) connects to the device and runs an FTP server on port number 21. Your friend (PC2: 192.36.244.96) from the Internet wants to access the FTP server on your PC.

Tip

1. Make sure your WAN IP address (Internet IP address) is a public IP address. Private IP addresses are not routed on the Internet.

2. Make sure that the service port number you entered on the router and the service port number you configured on the PC are identical.

3. To ensure that your server computer always has the same IP address, assign a static IP address to your PC.

4. Operating System built-in firewall and some anti-virus programs may block other PCs from accessing resources on your PC. So it is advisable to disable them before using this feature.

rend a						
A. Status	Port Forwardi	ing				Current Mode: WIS
4 Quick Setup						
Network	ID	Internal IP	Internal Port	External Port	Protocol	Action
Wireless				Add		
X Advanced						
LAN Rate						
Diagnose						
Traffic Control						
Port Forwarding						
MAC Filter						
Network Service						

1 Click Advanced > Port Forwarding to enter the page as shown above and click Add to enter

page below.

Port Forwarding		×
Internal IP		
Internal Port		
External Port		
Protocol	TCP/UDP •	
Public Service	None •	
	Save	

2 Internal IP: Specify the internal host's IP address. In this example, enter 192.168.0.101.

3 Internal/External Port: Specify the internal port and external port. Contact the corresponding service provider or google it if you don't know the port number of the service to use.

Protocol: Specify the protocol required for the service utilizing the port(s). Select TCP/UDP if you are not sure.

5 Public Service: Some common public service ports are available here. If the service port you want to use is included in its drop-down list, select the corresponding one. If not, select None.

6 Click **Save** to apply your changes.

Now, your friends only needs to enter **ftp://xxx.xxx.xxx:21** in their browsers to access your FTP server. xxx.xxx.xxx is the router's WAN IP address.

Note:

If you use the port number 80 here, you must set the port number for remote Web access (Click **Advanced > Network Service** to locate the Remote Web Access section) to any port number excluding 80 to avoid conflicts. Otherwise the port forwarding feature may not be effective.

How to Filter Internet Access via MAC Addresses

This section allows you to set that specific clients can or cannot access the Internet via devices' MAC Addresses. Note that this function is only available in WISP and Router mode.

Forbid Only: Specify a list of devices to Forbid access to the Internet. All other devices not listed as Forbidden will be permitted.

Permit Only: Specify a list of devices to Permit access to the Internet. All other devices not listed as Permitted will be forbidden.

Example: To allow the computer (MAC address --- 00:E4:A5:44:35:69) to access the Internet from 13:00~18:00 on Sunday to Saturday, do as steps below.

1 Click Advanced > MAC Filter to enter page below and then click Add.

Te	enda				
					0
.∿-	Status	MAC Filter			Current Mode: WISP Mode
4	Quick Setup				?
	Network	ID Remarks	MAC Address	Time	Filtering Rule Action
6	Wireless			Add	
ž	Advenced				
~	LAN Rate				
	Diagnose				
	Traffic Control				
	Port Forwarding				
	MAC Filter				
	Network Service				
N	IAC Filter		•		×
	Fil	tering Rule	Permit only	•	
		Remarks			
			00-54-45-44-25-60		
	IVI	AC Address	00.E4.A5.44.55.05	,	
		Time	13 🔻 : 00	▼ ~ 18 ▼	: 00 🔻
		Day	Mon. 🔲 Tue.	🗌 Wed. 🔲 Thu.	
			🗌 Fri. 🗹 Sat. 🗹	Sun. 🔲 Everyday	
			Save		

2 Filtering Rule: Select Permit only from the drop-down list.

3 Remarks: Enter a descriptive name for the rule, or leave it blank.

MAC Address: Input the MAC address of the device you want to permit, here 00:E4:A5:44:35:69.

5 Time, Day: Select 13:00~18:00, Sat~Sun.

6 Click **Save** to apply your settings.

How to Configure DDNS Settings

Dynamic DNS or DDNS is a term used for the updating in real time of Internet Domain Name System (DNS) name servers. We use a numeric IP address allocated by Internet Service Provider (ISP) to connect to Internet; the address may either be stable ("static"), or may change from one session on the Internet to the next ("dynamic"). However, a numeric address is inconvenient to remember; an address which changes unpredictably makes connection impossible. The DDNS provider allocates a static host name to the user; whenever the user is allocated a new IP address this is communicated to the DDNS provider by software running on a computer or network device at that address; the provider distributes the association between the host name and the address to the Internet's DNS servers so that they may resolve DNS queries. Thus, uninterrupted access to devices and services whose numeric IP address may change is maintained.

Note that this function is only available in WISP and Router mode.

Click **Advanced > Network Service** to locate the DDNS section.

Network Service			Current Mode: Router Mode
			?
DDNS	Enable		
Service Provider	3322.org	▼ <u>Register</u>	
User Name			
Password			
Domain Name			

Tip

1. To use the DDNS feature, you need to have an account with one of the domain service providers in the drop-down menu first.

2. This device supports 4 DDNS service providers: 88ip.cn, 3322.org, dyndns and no-ip.com.

Application Example:

If your ISP gave you a dynamic (changing) public IP address, you want to access your device remotely but you cannot predict what your device's WAN IP address will be, and the address can change frequently. In this case, you can use a commercial Dynamic DNS service. It lets you register your domain to their IP address and forwards traffic directed at your domain to your frequently changing IP address.

Assume that you obtain the following account from your dyndns.org service provider:

User Name: tenda

Password: 123456

Domain Name: tenda.dyndns.org.

And you want to use the PC at 218.88.93.33 to remotely access this router on port number 8080.

Configuration Steps:

1 DDNS: Check the DDNS box to enable this function.

2 Service Provider: Select your DDNS service provider from the drop-down menu. Here in this example, select dyndns.org.

3 User Name: Enter the DDNS user name registered with your DDNS service provider. Here in this example, enter tenda.

Password: Enter the DDNS Password registered with your DDNS service provider. Here in this example, enter 123456.

5 Domain Name: Enter the DDNS domain name with your DDNS service provider. Here in this example, enter tenda.dyndns.org.

6 Click **Save** at the bottom of this page to save your settings.

Click Advanced > Network Service to locate the Remote Web Access section to enable the Remote WAN function, enter 218.88.93.33 in the IP Address field, and 8080 in the Port field, then click Save to save your settings.

Remote Web Access	Enable
IP Address	0.0.0.0
Port	8080

Now you can access the device from the Internet by entering http://tenda.dyndns.org:8080 in your browser.

How to Manage the Device Remotely

The Remote Web Access function allows the device to be configured and managed remotely from the Internet via a web browser. Click **Advanced > Network Service** to locate the Remote Web Access section. **Note that this function is only available in WISP and Router mode.**

Tip

1. For better security, customize a port number between 1024 and 65535 for the remote WAN interface. Do not use the number of any common service port (1-1024) in case of conflicts.

2. Make sure your WAN IP address (Internet IP address) is a public IP address. Private IP addresses are not routed on the Internet.

3. It is unsafe to make your device remotely accessible to all PCs on external network. For better security, we suggest that only enter the IP address of the PC for remote management.

To access your device (WAN IP address: 102.33.66.88) at your home from the PC (218.88.93.33) at your office via the port number 8080:

Remote Web Access	Enable	
IP Address	0.0.0.0	
Port	8080	

1 Check the **Enable** box to enable the Remote Web Access function.

P Address: Specify the IP address for remote management (When it is set to 0.0.0.0, the device becomes remotely accessible to all the PCs on Internet or other external networks. It is not safe). In this example, enter 218.88.93.33.

OPORT: Specify the management port to be open to outside access. The default setting is 8080. This can be changed.

4 Click **Save** to apply your changes.

Type http://102.33.66.88:8080 into your browser's address or location field and you can access the device at your home remotely.

Tools

How to Configure System Time for Your Device

This section assists you in setting the device's current time; you can select to either set the time and date manually or obtain the GMT time from the Internet automatically. System time can be configured using the following 2 methods:

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

Manual: Specify the time and date manually or click **Synchronized with local time** to automatically copy your current PC's time to the device.

To Sync with Internet time servers:

1 Click **Tools** > **Date & Time** to enter page below.

2 Select **Synchronized with the Internet**.

3 Select a time interval from the drop-down list.

4 Select your time zone.

5 Click Save.

Tenda			
小 Status	Date & Time		Current Mode: AP Mode
✤ Quick Setup	Time Setup	Synchronized with the Internet Manual	
Metwork	Time Interval	30 minutes V	
🛜 Wireless	Time Zone	(GMT+05:30) Madras, Calcutta, Bombay,New Delhi	•
🗙 Advanced			
🖏 Tools		Save	
Date & Time			

To set time and date manually:

1 Click **Tools** > **Date & Time** to enter page below.



3 Specify the time and date manually or click **Synchronized with local time** to automatically

copy your PC's time to the device.

4	Click Save.		
TE	enda		
			Current Mode: AP Mode
4	Status	Date & Time	1
∽ ⊕	Quick Setup Network	Time Setup Synchronized with the Int	vernet Manual
((r-	Wireless	Synchronized with local ti	me
*	Advanced	Save	Cancel
۵,	Tools Date & Time	_	

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

How to Reboot your AP Manually

To reboot your device manually, click **Tools > Maintenance**, locate the Reboot Router section and click **Reboot**.

Reboot Device	Reboot	
	All connections will disconnect during reboo	t.

How to Reset Your AP

If the device or client connected to the device fails to access the Internet due to incorrect configurations and you cannot solve the problem, you can reset the device. Once you reset your AP, all your current settings will be lost and you need to reconfigure it.

To reset your AP, two methods are available:

Method 1: Via Web UI

Click Tools > Maintenance, locate the Reset to Factory Settings and click Reset.

Reset To Factory Settings	Reset	
	All confiugration	ns will restore to default factory setting after reset.

Method 2: Via the hardware RST button

Pressing the **RST** button for over 7 seconds restores this device to its factory defaults.

Factory Default Settings:

- User Name: admin
- Password: admin
- IP Address: 192.168.2.1

How to Upgrade Your AP

If your device is in normal operation, it is not advisable to upgrade your device. If you want to acquire the latest software version or better value-added functions for your device, you can access our official website www.tendacn.com to download the latest software for upgrading.

our official website www.tendaen.com to download the fatest software for up

To upgrade your AP:

1 Launch a web browser and go to <u>http://www.tendacn.com</u> to download the latest firmware.

2 Unzip the compressed upgrade file in the corresponding directory.

3 Click **Tools > Maintenance**, locate the Upgrade Firmware section and click **Upgrade**.

Upgrade Firmware	Upgrade	
	Current Softwar	e Version:V1.0.0.2(1528) Release Date: 2015-07-30

4 Click **Choose File** (in Google browser) to locate and select the upgrade file in the corresponding directory on your hard disk.

Upgrade		×
Current Software Version	V1.0.0.2(1528)	
Select a Firmware File	Choose File No fiosen	
	Upgrade	
Note: While upgrading device with an Etherne	g, please verify that your PC is connected to the et cable and power is delivered on this device.	

5 Click Upgrade.

Note:

1. While upgrading, please verify that your PC is connected to the device with an Ethernet cable and power is delivered on this device. And the upgrading process will take several minutes, please be patient.

2. When the upgrading is completed, your device will be restored to factory default settings automatically and you need to reconfigure your device.

How to Backup and Restore Your AP's Configurations

If you configure many settings on this device, which will make this device work in good status and suitable environment, it's suggested to backup settings for this device, which will be convenient for troubleshooting and saving time for next time's configuration. Click **Tools** > **Maintenance** and locate the Backup/Restore section.

Backup / Restore	Backup / Restore	
	Backup current settir	ngs or import saved settings to device

To backup your configurations:

1 Click Backup / Restore.

2 Click **Backup** on the pop-out window and follow on screen instructions to save your configurations in a directory on your hard disk.

on

		Backup config	urations	Backup		
To restore	your configu	rations:				
1 Click B	ackup / Resto	ore.				
2 Click C	hoose File (i	n Google browser	r) to load cont	iguration files	which you ha	we stored
your hardw	are disk previ	ously.				
3 Click R	estore.					
	I	- Course l'anna	Obsess File	No fi coop		
	import co	ntigurations	Choose File	No IIosen	Restore	

How to Change Your Login Account

Click **Tools** > **Administrator** to enter screen below. Here you can change the user name and password for administrator and guest account. As an administrator, you can modify and view the settings. However, as for the guest account, you can only view the settings. We suggest that you change the administrator password to a more secure one.

Ten	da			
				Current Mode: AP Mode
- A ≁ State	us	Administrator		
🕹 Quic	ck Setup			9
Metw	work			
🛜 Wire	eless			
🗙 Adva	anced			
🖏 Tool	ls	A	dministrator	Guest Account
Dat	te & Time			
Mai	intenance			Edit Icon
Adr	ministrator			
Syst	tem Log			

To change the login user name and password for the administrator, click the Administrator edit icon:

Administrator		×
Old User Name	admin	
Old Password		
New User Name		
New Password		
Confirm Password		
	Save	

To change the login user name and password for the guest, click the Guest Account edit icon:

Guest Account		×
Old User Name	user	
Old Password		
New User Name		
New Password		
Confirm Password		
	Save	

How to View the History of Your AP's Actions

Click **Tools** > **System Log** to enter page below. Here you can view the history of the device's actions. Three types of logs are supported on this device: All, System and WAN. You can select any one of them from the drop-down list. Click **Refresh** to update current log info or click **Clear** to clear all logs.

rend a			
			Current Mode: AP N
小 Status	System Log		
✤ Quick Setup	Refresh Clear		Log Type: ALL
Network			
🛜 Wireless	ID Time	Туре	Log
🗙 Advanced	1 2011-05-01 00:00:01	system	System Start Success
🖏 Tools	2 2011-05-01 00:00:06	system	2.4G Wifi UP
• Date & Time	3 2014-01-01 00:00:00	system	SNMP Stop
Maintenance	4 2014-01-01 00:00:06	system	2.4G Wifi UP
Administrator	5 2015-08-07 11:06:01	system	web 192.168.2.69 login
System Log	6 2015-08-07 11:16:52	system	web 192.168.2.69 login
	7 2015-08-07 11:18:02	system	web 192.168.2.69 login

Appendix

1 Configure PC

Windows 8

1 Right click the icon \blacksquare on the bottom right corner of your desktop.



2 Click **Open Network and Sharing Center**.



3 Click **Ethernet** > **Properties**.



4 Find and double click **Internet Protocol Version 4(TCP/IPv4)**.

Ethernet Propertie	; ×
Networking	
Connect using:	
Intel(R) 82574L Gigabit Network Conne	tion
	Configure
This connection uses the following items:	
File and Printer Sharing for Microsoft Microsoft Network Adapter Multiplexe Microsoft LLDP Protocol Driver A Microsoft LLDP Protocol Driver A Link-Layer Topology Discovery Mapp A Link-Layer Topology Discovery Resp A Link-Layer Topology Discovery Resp A Internet Protocol Version 6 (TCP/IPv) A Internet Protocol Version 4 (TCP/IPv)	Networks r Protocol er I/O Driver onder b) v
Install Uninstall	Properties
Description Transmission Control Protocol/Internet Proto wide area network protocol that provides co across diverse interconnected networks.	col. The default mmunication

5 Select Use the following IP address, type in the IP address: **192.168.2.x** (2~253), Subnet mask: **255.255.255.0** and click **OK**.

Internet Protocol Version	4 (TCP/IPv4) Properties
General	
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.	matically if your network supports o ask your network administrator
Obtain an IP address automatica	illy
• Use the following IP address:	
IP address:	192.168.2.6
Subnet mask:	255,255,255,0
Default gateway:	
Obtain DNS server address auto	matically
• Use the following DNS server ad	dresses:
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Advanced
	OK Cancel

6 Click **OK** on the **Ethernet Properties** window.



					_ D X
🐨 🖓 🗸 🕅 🖉 🗸 Netwo	rk and Internet 🕨 Network and	I Sharing Center 🛛 👻	4 9 Se	earch Control Panel	Q
Control Panel Home	Local Area Connection Stat	us	×	set up connectior	ns 🖉
Change adapter setti	General				See full map
Change advanced sh settings	Connection IPv4 Connectivity:	No Internet acce	ss	Internet	
	IPv6 Connectivity: Media State:	No Internet acce Enable	ss ed	Connec	ct or disconnect
	Duration: Speed: Details	03:40: 1.0 Gb	31 ps	ss type: No Interr lections: 📱 Local Are	ea Connection
	Activity	— 💵 — Receive	ed I	or VPN connection; o	er set up a
	Bytes: 758,	618 8,236,60	80	I-up, or VPN network	connection.
See also	🔞 Properties 🛛 🚱 Disab	le Diagnose		vork computers, or ch	ange sharing
HomeGroup Internet Options		Cle	ose		
•		111			

3 Click Local Area Connection > Properties.

4 Find and 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
✓ ➡ Hie and Printer Sharing for Microsoft Networks
✓ Internet Protocol Version 4 (TCP/IPv4)
🗹 🛥 Link-Layer Topology Discovery Mapper I/O Driver
Link-Layer Topology Discovery Responder
Install Uninstall Properties
Description
Transmission Control Protocol/Internet Protocol. The default
across diverse interconnected networks.
OK Cancel

5 Select **Use the following IP address**, type in the IP address: **192.168.2.x** (2~253), Subnet mask: **255.255.255.0** and click **OK**.

General	
You can get IP settings assigned a this capability. Otherwise, you ne for the appropriate IP settings.	automatically if your network supports ed to ask your network administrator
Obtain an IP address automa	atically
• Use the following IP address	:
IP address:	192.168.2.6
Subnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server address a	automatically
• Use the following DNS server	r addresses:
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Advanced

6 Click OK on the Local Area Connection Properties window.

Windows XP

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



2 Right click **Local Area Connection** and select **Properties**.

Disable Status
Repair
Bridge Connections
Create Shortcut Delete Rename
Properties

3 Scroll down to find and double click **Internet Protocol** (**TCP/IP**).

eneral	Advanced				
Connec	t using:				
1	farvell Yukon	88E 8057 I	PCI-E Giga	abi [Configure
This co	nnection uses	the follow	ing items:		
	QoS Packet	schedule	r In MP		Departies
Deco	intion	Ur	nistali		Propercies
Tran wide acro	smission Contr area network ss diverse inter	al Protoco protocol ti connecte	Minternet nat provide dinetwork	Protocol es comm s.	The default unication
	w icon in notifi	cation are	a when co	nnecled	r.

• Select Use the following IP address, type in the IP address: 192.168.2.x (2~253), Subnet mask: 255.255.255.0 and click OK.

Internet Protocol (TCP/IP) Pr	operties 🔹 💽 🔀
General	
You can get IP settings assigned a this capability. Otherwise, you ne for the appropriate IP settings.	automatically if your network supports ed to ask your network administrator
🔘 Obtain an IP address automa	atically
• Use the following IP address	#
IP address:	192.168.2.6
Subnet mask:	255,255,255,0
Default gateway:	
Obtain DNS server address a	automatically
• Use the following DNS server	r addresses:
Preferred DNS server:	
Alternate DNS server:	
	Advanced
	OK Cancel

5 Click **OK** on the **Local Area Connection Properties** window.

2 Connect to Your WiFi

Tip

1. The PC you use must have an installed wireless network adapter.

2. The device's SSID is "Tenda_XXXXXX" by default (where "XXXXXX" is the last six characters of its MAC address). You can find the MAC address and SSID on the label attached to the device's bottom).

3. The first time you connect to your WiFi to configure the AP, you need to set your PC to **Use the following IP address**. For details, see Appendix <u>1 Configure PC</u>. After finishing configuring the AP, you need to re-connect to your WiFi and set your PC to **Obtain an IP address automatically** for Internet access.

Windows 8

Step 1: Click the icon in the bottom right corner of your desktop.



Step 2: Select your wireless network from the list, click **Connect** and then follow onscreen instructions.

Networks	
Wi-Fi 2	
Ezagoo_FD6D00	atl
qwertyuiopasdfghjklzxcvbnm01	.atl
Tenda_home	.atl
✓ Connect automatically	
Con	ect

Tip

1. If you cannot find the icon and, please move your mouse to the top right corner of your desktop, select Settings > Control Panel > Network and Internet > Network and Sharing Center > Change adapter settings, right click Wi-Fi and select Connect/Disconnect.

2. If you cannot find your wireless network from the list, ensure the Airplane Mode is not enabled on your PC.

Step 3: When your wireless network is connected successfully, the following screen will appear.



Windows 7

Step 1: Click the icon **on** the bottom right corner of your desktop.

Step 2: Double click your SSID (wireless network name) and then follow onscreen instructions.

Not connected	49	
Connections are available		
Wireless Network Connection	^	
Tenda_office	.ul	
Tenda_home	lle.	
123	.ul	
yanfa_ceshi_xhh	.ul	
12#	.all	
1	lle,	
yanfa_ceshi_haotest	lle,	
Tenda_C8DF5D		-
Open Network and Sharing Ce	nter	
🔺 🖾 🍕 🕪 隆		4:16 P 4/11/2

Step 3: When your SSID (wireless network name) displays **Connected** as shown below, you've connected to it for Internet access successfully.

Currently connected t Tenda_home Internet acces	s.	47	• III
Wireless Network Con	nection	^	
Tenda_home	Connected	.all	
yanfa_ceshi_xhh		.ul	
12#		I	
yanfa_ceshi_haotest		.ul	
Tenda_C8DF5D		.ul	
yanfa_ceshi_chenhao_	2.4	.ul	
yanfa_pt_lk_asus		.al	
medialink		at	-
Open Network and Sharing Center			
Windows XP



Step 1: Right click My Network Places, and select Properties.



LAN or High-Speed Internet		
Local Area Connection Virele Networ Connect	Disa <u>b</u> le <u>Yiew Available Wireless Networks</u> Status Repair Bridge Connections Create Shortcut Delete Rename Properties	

Step 3: Select your wireless network from the list and then follow onscreen instructions.

(9) Wireless Netwrok Connection				
Network Tasks	Choose a wireless network			
🛃 Refresh network list	Click an item in the list below to connect to a wireless network in range or to get more information.			
Set up a wireless network for a home or small office	(()) Tenda_home 1 Automatic 🛪			
Related Tasks	To connect to this network, click Connect. You might need to enter additional information.			
Learn about wireless networking				
Change the order of preferred networks	Wireless Network Connection			
Change advanced settings	The network 'Tenda_home' requires a network key (also called a WEP key or WPA key). A network key helps prevent unknown intruders from connecting to this network.			
	Type the key, and then click Connect.			
	Network key: 2 Confirm network key: 2			
	<u>Connect</u> Cancel			
	Connect			

Step 4: When your SSID displays Connected as shown below, you've connected to it

successfully.

(*) Wireless Netwrok Connection				
Network Tasks	Choose a wireless network			
🛃 Refresh network list	Click an item 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	((o)) Tenda_home Co	onnected 👷 📤		
	Security-enabled wireless network (WPA)			
Related Tasks	((Q)) [est0111			
Learn about wireless networking	Unsecured wireless network			
	((@)) Tenda_5_00008C			
Change the order of preferred networks	Unsecured wireless network	. Old 🗸		
Change advanced settings		Disconnect		

3 FAQs

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

1) Verify that the IP address of computer should be a different one but on the same network segment as the LAN IP address of this device. The default LAN IP address of AP is 192.168.2.1 and you need to set your PC to a static IP address within the following range: 192.168.2.X (2~253);

2) Clear the browser cookies or try another web browser;

If you are still unable to login, please restore the device to factory default settings and follow this Install Guide to configure your settings again.

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.