

# **Quick Installation Guide**

Wireless-G



#### A.Run the "One-Stroke Setup" program.

1.Insert the CD-ROM into the CD-ROM drive.

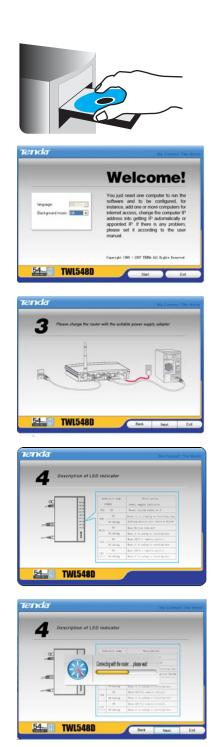
2. The setup program automatically runs (if it does not run automatically, double-click **setup.exe** in the CD-ROM.

### B.Follow the instructions to configure the router.

1.Network topology

#### 2. Description of indicators

#### 3.Connecting the router



- 4. Configuring network parameters
- a.Select country





7	Configure (	7 <i>51</i> .				
	Connection (	a prine enfogitiekiss szzzizttadego connect on D Keep Alive: R	5 emand Max		mins secs	
54	TWL5	48N	-	Back	Next	Đ

55ID	HAR	
Wireless Mode	1 (802. 11g 💌	
Channel	0	
Disable SSID	E.	

b. Select area

c. Configure basic parameters

5. Configuring wireless parameters

6.Configuring wireless security parameters

7.Saving the settings and rebooting the router. The router configuration is completed.

8. Viewing the connection status of the WAN port and the basic wireless configurations.

Security Config		
Security Options	Durable - <u>Plumit</u> ND ND ND ND ND ND	
<u>54-9 TW154</u>	8D Dark	Next 1
nda		
Security Config		
0	Seving_please wort	
54_9 TWL54	18D Beck	tiest
54-9 TW154	18D (net	Next
	18D (Box	Ner .



Please refer to the user's manual when you face the following problems: 1. Fail to configure the router when using the Setup Wizard.

2. To change the IP address of the LAN port of the router.

Manufacturer Address

: Shenzhen Tenda Technology Co., Ltd : SangTai Industrial Zone,Nanshan District,Shenzhen,P.R.China 
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# Guide d'installation rapide

Wireless-G



Model:TWL548D VER:3.0

# I. Fonctionner le logiciel de configuration "Faite par un Clic"

1. Mettez le CD dedans

2.L'ordinateur fonctionne la procédure automatiquement (Si le fonctionnement automatique ne commence pas, double cliquez le fichier "SETUP" dans le CD)

#### II. Configurer le routeur pas à pas en se jouant

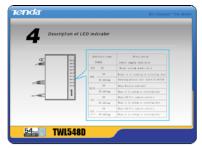
1. Schéma topologique de la connexion de réseau

2、Instructions à propos de l'indicateur

3、Raccorder le routeur







4 Description of	t LED indicator	
-	Tablas and Assessed	
- 🚳	Correcting with the rockerplease wait	anne 19, 611
	108 (P) Rest 10 For each in 2014 (R) Rest 1 is safe a set	nite
	1.01. Which has a first station of the	

- 4、Configurer les paramètres de réseau
- a、Choisir un pays



b、Choisir une zone

Configure DSL Public Isi'd Baltin Public Bandin Ganglin Ganglin Ganglin Canglin Canglin Ganglin Canglin 

Tenda	Wa Contrast The World
7 Configure DSL	
Encapeutation Writerion Unar ID Friedland Passeet Cannection # Cannect in Demand M Cannection # Cannect in Demand M	
54-0 TWL548D	Back Next Ext

55ID	10.00
Wireless Mo	de (802.11# 💌
Channel	1
Disable SSID	E.

- c、Configurer les paramètres de base

5、Configurer les paramètres sans fil

#### 6、Configurer les paramètres de sécurité sans fil

7、Réserver et redémarrer le routeur, et accomplir la configuration

8、Voir l'état de connexion de l'interface de WAN et les paramètres essentiels sans fil

Security Confi	g			
Security Options	Diseaste Norweite Work Work Work	-		
<u>54 0 TW</u>	115480	fait	Next	1
nda			W + 52	ntP
Security Conf	Ig			
Security Options	Dirahle			
(	Seving	piease wat >	-	
( <u>54 0 TM</u>	<b>3</b> –		Nest	
54 I TH Inclar Running Statu	/L548D		Next RX Cuttor	2 21.78



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# Schnelle Installation

Wireless-G



#### Eins, Sie laufen "1 Key Installation" Software-Konfiguration

1.Die CD in das CDROM Laufwerk einlegen.

2. Computer läuft selbst automatisches Programm ( wenn es nicht selbst automatisches Programm läuft, doppelklicken Sie die CD mit dem "SETUP" Daten.)

#### Zwei, Sie installieren leicht Internet-Protokoll-Familie nach dem Schritt.

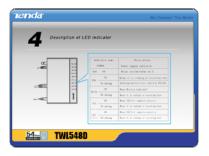
1、Verbindungsschema

2、Die Signal-Lampe wird Angebe gezeigt.

3、Internet-Protokoll-Familie Anschluss







4 Description of	LED indicator	
~	Television and Theorem	
	Connecting with the nucles_please wait	2 11 
-	100000 Karta andre et al.	
	1.01 (5 Permit) (1.01)	

- 4、Der Parameter des Internets wird installiert.
- a、Select country

b、Select area

c、Configure basic parameters

5. Installation kabelloser Parameter





7	Configure DSL		
	Encapsulation 777  VIVIOL VIVII VIVILIALUL VIVIOL VIVIOL VIVIOL VIVIOL VIVIOL V	mina 1903	
54	TWL548D	Next	b

\$\$ID	were the second s
Wireless Mode	1002.114 ·
Channel	
Disable SSID	π.

6、Installation kabelloser und sicherer Parameter

7、Speicherung und Neustart Internet-Protokoll-Familie,die Installation sind fertig.

8、Sie sehen WAN Anschluss und kabelloser Parameter durch

nda		We Canne	17
Security Config			
Security Options	Durahite • Churchite WPA WPA2		
<u>54-</u> TWL54	8D Each	Rest	
enda		No Fe	***
Security Config			
8	Sevingplease wat	_	
54_0 TWL54	ISD Beck	Next	1
		We Control	
nda			
nda Running Status			
	PPPoE 219.134.149.139 219.133.207.1 TENDA 6 802.11g Disable Disable		

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### Guida all`installazione rapida

## Wireless-G

Model:TWL548D VER:3.0

#### A<sub>2</sub> Attivare il software di configurazione per "impostazione pulsante singolo"

1. Inserire il disco

2、II computer attiva automaticamente il programma (se il programma non viene attivato automaticamente, prego cliccare due volte sul file "SETUP" nel disco)

#### B<sub>x</sub> Inserire il canale in accordo alle istruzioni fornite

1. Diagramma topologico della connessione di rete

2、Instruzioni dell'indicatore segnale

3、Connessione del canale



From 1

Background music

Income

and to

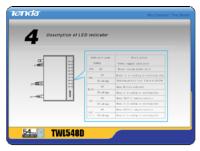
appointed IF

instance, add one or more computers for

met access, change the computer IP ress into getting IP automatically or ointed IP. If there is any problem, se set it according to the user

configured.







- 4、Parametri di configurazione rete
- a. Selezionare un paese



b、Selezionare un distretto

c、Configurare i parametri base

## 5、Parametri di configurazione per la connessione senza fili



7	Configure DSL	
	Encapsualize Tri- VPy/VCI User 10 Profestional Data 10 Profestional Mass Mile Tim Password R 2022/0726/98 Connection IF Connect to Denand Mass Mile Tim C Keep Alive: Reduit Period	
54	TWL548D	Next Ex

SSID	SKCR0	
Wireless Mode	(402.11g .	
Channel	0	
Disable SSID	Π.	

6、Parametri di configurazione automatica per la connessione enza fili

7. Memorizzazione ed inizializzazione del canale per terminare l'impostazione

8、Visualizzazione condizione di connessione della porta WAN e parametro base di configurazione della connessione senza fili

Security Config			
Security Options	Disable Disable WEP WPA	-	
	WA2		

Security Options	Dirahla	
6	Saving please wat	
0		
_		_

WAN LEAK Type	PPPoE	
WAN IP	219.134.149.139	
Gatmway	219.133.207.1	
ISSID	TENDA	
Channel	6	
Wreless Mode	802.11g	
Disable SSID	Disable	
Security Options	Disable	
Key	Disable	



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# Guía de instalación rápida

## Wireless-G

SP Model:TWL548D VER:3.0

#### I Marche el software de configuración "Poner con una sola tecla".

- 1、Inserte el disco
- 2、La computadora marchará automáticamente el programa (si no, da un toque doble en el documento "**SETUP**" del disco.

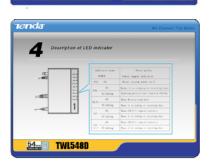
#### II Instala el router con mucha facilidad de acuerdo con los pasos fijos.

### 1、 Gráfico del enlace topológico de la conexión del Internet

2、Sinopsis de las lámparas indicadoras

#### 3、Conexión del router





54

**TWL548D** 

4 Description of	of LED indicator	
~	Testing and Testing	- 1
	Correcting with the numberplease wait	4
-	MUMPle         Rest is it using it is           108         PL         Pum 10 for smaller           108         PL         Rest is it using it is	
	1.01 (P) Description of the sector of the	

- 4. Puesto de los parámetros para Internet
- a、Elige el país

b、Elige la zona

c、Configura los parámetros básicos

5、Configuración de los parámetros inalámbricos.

enda		_		We Chinas	the s
5 Centique	re DSL				
Select y Country	our country of presence	•			
	Aurris Balgin Derkaub Prise Prise Vienard Vienard Tealard Tealard Tealard Tealard Spain Beeteel Lande Polard Spain Deriter and Baiteel Arab Existence Daiteel Arab Existence				Đ
54 111 714			Each		



7	Configure DSL	
	Encapsulation VPI/VCI VII/VCI VIII/VCI VIII/VCI VIIIII VIIII VIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIII VIIIIII	
54_	TWL548D	ck Next Ex

55ID	HALL DE		
Wireless Mod	e 102.114 💌		
Channel	0		
Disable SSID	m.		

6、 Configuración de los parámetros in alámbricos de la seguridad.

7. Conserve las operaciones hechos y reinicie el router. Hasta aquí termina toda la configuración.

8. Revise el estado de la conexión de WAN y los básicos parámetros inalámbricos.

Security Config			
Security Options	Durahis • Receive W7A W7A W7A2		
24-10 TWL54	18D	8 Next	
nda		We fa	ent.
Security Config			
Security Options	Seving please wat		
54_0 TWL54	48D 🕝	ck Next	
nda			
nda Running Status		His Currie	nal The
Running Status Vann LBak Type Vann IP Gateway	PPPoE 219.134.149.139 219.133.207.1	IFK CARN	od The
Valiti LBAK Type Valiti IP	219.134.149.139	Hic Onton	col.The



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### Introdução de Instalação Rápida

Wireless-G



Model:TWL548D VER:3.0

#### I. Opera software instalado de "Dispoisção com um teclado"

1. Mete disco

2. O computador automaticamente opera programa (Se não opera automaticamente, aperta documento "SETUP" no disco duas vezes)

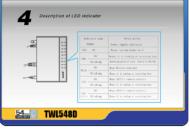
# II. Instala fresadora facilmente de acordo com processos

1、Figuara topologiade ligação

2、Introdução de luz indicador de sinal

#### 3、Ligação de fresadora





Description	of LED indicator		
-	-	Bear Series	
	Connecting with the scalar	plase wat	
		a to be dealing of the local lines of M. Yind research control (in a 1 he handing of second lines)	
		All for interest provide	

- 4. Coeficiente de instalação de internete
- a、Escolha país





renda 7	Configure DSL	The Contract, The Way
	Encapiustini (777)	mina secs
54	TWL548D Each	Next Exit

55ID	NEX IN COLUMN	
Wireless Mode	(402. 11g 💌	
Channel	6	
Disable SSID	IT.	

b、Escolha zona

c、Coeficientes básicos de instalação

5, coeficiente de instalação radiotécnica

6、 coeficiente de instalação radiotécnica de segurança

7, reserva e inicia fresadora outra vez, e a instalação acabou

8, examina estado de ligação de WAN e coeficiente instalação tadiotécnica básica

Security Config			
Security Options	Disrahle <u>Disrahle</u> WPA WPA		
54_0 TWL54	8D Dark	Next	
nda		We fam.	
Security Config			
Security Options	Dirahle .		
-	Seving please wait		
	,	2	
54-9 TWL54	18D East	Next	
	18D	Nest	
54-9 TW154	18D (Berl	Next	1.79
	18D (max)	Net By Cantor	1.77
nda	18D Ent	Teet	
ncla Running Status WAN LEAK Type WAN P	PPPoE 219.134.149.139	Ner The Cambra	1
ncla Running Status VANILBACType VANIP Gateony	PPPoE 219.134.149.139 219.133.207.1	Next The Context	1.7
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Nunning Status VANILBR:Type VANILBR:Type VANILBR:Type VANILBR:Type VANILBR:Type VANILBR:Type	PPPoE 219.134.149.139 219.133.207.1 TENDA 6	Ner	1.7
ncla Running Status VANLERS:Type VANLP GREeny 500	PPPoE 219.134.149.139 219.133.207.1 TENDA	Net	
Running Status VAN LRS: Type VAN URS: Type VARMAY SBO Disobit SSO Security Options	PPPoE 219.134.149.139 219.133.207.1 TENDA 6 902.11g Disable Disable	Tre Cartel	
Running Status VAN LEAKType VAN P Gateway BSO Channel Vareess Mode Disblic SSD	PPPoE 219.134.149.139 219.133.207.1 TENDA 6 802.11g Disable	Ner Fr Code	
Running Status VAN LRS: Type VAN URS: Type VARMAY SBO Disobit SSO Security Options	PPPoE 219.134.149.139 219.133.207.1 TENDA 6 902.11g Disable Disable	Ner Tr Carte	
Running Status VAN LRS: Type VAN URS: Type VARMAY SBO Disobit SSO Security Options	PPPoE 219.134.149.139 219.133.207.1 TENDA 6 802.11g Disable Disable Disable	Need The Control	



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### ОПИСАНИЕ ДЛЯ БЫСТРОГО УСТРОЙСТВА

## Wireless-G



Model:TWL548D VER:3.0

## А.Нажить "устройство клавишей" компоновка софт

1、Поставить диск

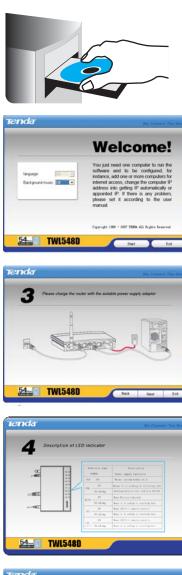
 Компьютер авто проводит операцию (если бы не авто проводить, нажить файл"SETUP"
 в диске)

## В、По шагам установка аппарат направления

1、 схема соединения

2、Описание транспарант

## 3、Соединить аппарат направления



4	LED indicator	
	Tellinese and Territoli	
1 🛞	Correcting with the noterplease wait	41
-	MILE         Name is in contrap, if the           108         M         Resci 10 To contrap, if the           108         M         Resci 10 To contrap, if the           108         M         Resci 10 To contrap, if the	
	1.02 (P) Press 107 Fee converse of	

- компоновка сетевых параметров
- а、выбрать страну

b、 выбрать район

с、компоновка основные параметры

# 5、Компоновка беспроволочных параметров

enda			Re Conner	The su
5 centique	e DSt			
Select y Country	our country of presence:	-		
	Austria Beigrund Beigrund Parland Parland Common Common Common Common Common Common Common Deland Beigrund Poland Spain Seeden Seeden Seeten Lond			
54- TW	Deated Arab Emirates United Kingdom	Each	Next	Ext



7	Configure DSL		
	Encapsualisis 77.000 e VPI/VCI 0000 e VIII/VCI 0000 e VIIII VIIII VIIII/VCI 00000 e VIIII VIIIII VIIII VIIII VIIII VIIII VIIII		
54_	TWL548D	Next	To:

Basic Seting	
	1000
Wireless Mode	(#02.11g ·
Channel	1 <u>.</u>
Disable SSID	F

6. Компоновка беспроволочных безопасных параметров

7. Хранить и включить снова аппарат направления, выполнить компоновку

8、Просмотреть связанное положение WAN и беспроволочные основные параметры

nda		In Cont	and The A
Security Config			
Security Options	Dirahle Dirahle WA WA WA2		
54_10 TWL	i48D	Back Next	D
anda		We Sa	wether
anda Security Config		We far	nt Di

Running Status		
WAN LEAK Type	PPPoE	
WAN IP	219.134.149.139	
Gateway	219.133.207.1	
ISID	TENDA	
Channel	6	
Whreless Mode	802.11g	
Disable SSID	Disable	
Security Options	Disable	
Key	Disable	

Notice:

54\_\_

**TWL548D** 

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# snelle van start

Wireless-G



Model:TWL548D VER:3.0

# A、Instellen met "een knop instellen" software

1、Plaats de CD in de CD-station

2、Het installatieproces start automatisc.(als het niet auto start, dubbelklik op de bestand "SETUP")

# B、Volg de instructies gemakkelijk de basisstation in te stellen

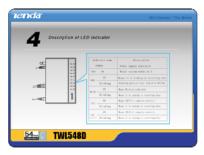
1、Tekening voor instelling van netwerk

2、Toelichtingen voor indicatielampje

3、Verbinding met basisstation







4 Description of	LED indicator	
-	Televise televise	
1	Correcting with the noterplease wait	7 1 
-	MUM/HE         Raw is in earlier           VML         Minimum Distribution           VML         Minimum Distribution           Minimum Distribution         Ream is in earlier	in annually and
	1.01 (P) Base (P For case	

- 4. Instellingen van netwerkelement
- a, Select voor staat



**b**, Select voor het gebied

- Tenda 6 Configure DSL DeiJing T1'AR Ballebin Fallan Guarghou Shangitai Ourgiba StenDen Chenglou 54 TWL548D
- Tenda 7 Configure DSL efcq1790163. 8222127342905 · Connect on Demand Max Id secs 54 TWL548D

SSID	wear.
Wireless Mod	5e [402.11g 💌
Channel	( · · · ·
Disable SSID	m

5、Instellingen van Wireless element

c. Instellingen van gewone parameter

7、Opslaan de instellingen en herstart de basisstation om de configuratie te voltooien.

8、Controleer de status van WAN verbinding en de basis configuratie van Wireless.

Security Config			
Security Options	Decable Person - WP WP WP WPA2		
<u>54-</u> 0 TWL54	18D Back	Next	
nda		No Sec.	ert 7
Security Config			
Security Options	Shing_plase wit	2	
	Seringplease wat	Nert	
Security Options	Seringplease wat	Ner	
Security Options	Seringplease wat	Net	11.77



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All the photos and product specifications mentioned in this manual are for references only, as the upgrading of software and hardware, there will be changes. And if there are changes, Tenda is not responsible for informing in advance. If you want to know more about our products information, please visit our website at <u>www.tenda.cn</u>



### I. Hardware Installation

### 1. Connection of ADSL Router

1.1 Connect one end of the telephone line to the DSL interface of the TWL548D and the other end to the MODEM interface of the splitter.

1.2 Use a Ethernet cable to connect the LAN interface of the TWL548D to the NIC of the computer.

1.3 Connect the power adapter to the POWER interface of the TWL548D.

### 2. USB Installation

To connect the device to the USB interface of the computer, do the following:

2.1 Connect to the USB interface of the DSL gateway through a USB cable.

2.2 Connect the other end of the USB cable to the USB interface of the computer.

### II. Connection with WEB Management Window

### **1.Correctly Implementing Network Configuration of** Your Computer

### Tenda<sup>®</sup> Wireless Broadband Router User's Guide

- On the desktop of your computer, right-click "My Network Places", and then select "Properties" in the shortcut menu.
- 1.2 In the window that appears, right-click "Local Area Connection", and then select "Properties" in the shortcut menu.
- Local Area Connection Connected, Firewalled Readete RTL8139 Family PCT F... Disable Status Repair Bridge Connections Create Shortcut Delete Rename Properties
- In the pop-up dialog box, check "Internet Protocol (TCP/IP)" and then click "Properties".



# Tenda

#### Wireless Broadband Router User's Guide

- 1.4 In the window that appears, select "Obtain an IP address automatically (O)" or "Use the following IP address (S)".
- 1.4.1 When "Obtain an IP address automatically (O)" is selected, the window is as shown in the right figure.
- 1.4.2 "Use the following IP address (S)":

IP address: 192.168.0.XXX

(XXX ranges 2 ~ 254)

Subnet mask:

255.255.255.0

Default gateway:

192.168.0.1

DNS server: Enter the local

DNS server address (for this

address, you can consult

your ISP) or the router as the

DNS server.

At the end of the setting,

click "OK" to submit the

settings. And then click "OK"

eneral Alternate Configuration	
You can get IP settings assigne this capability. Otherwise, you n the appropriate IP settings.	d automatically if your network supports eed to ask your network administrator for
<ul> <li>Obtain an IP address autor</li> </ul>	matically
O Use the following IP addre	55.
IP address:	and the second
Subnet mask:	1
Default gateway:	
Obtain DNS server addres	s automatically
O Use the following DNS ser	ver addresses:
Preferred DNS server:	1
Alternate DNS server:	
	Advanced

ternet Protocol (TCP/IP) P	roperties ?
General	
	d automatically if your network supports red to ask your network administrator for
Obtain an IP address autor	natically
O Use the following IP addres	ar .
IP address:	192.168.0.11
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.0.1
O Obtain DNS server address	automatically
Use the following DNS server	ver addresses:
Preferred DNS server.	192.168.0.1
Alternate DNS server:	
	Advanced
	OK Cancel



in the "Local Area Connection Properties" window.

# 2. Verifying the Connection

- 2.1 elect
   "Start→Programs→Accessories
   →Command Prompt".
- 2.2 According to the format shown in the right figure, enter "Ping 192.168.0.1" and press Enter. If the system gives the result shown in the right figure, the connection between your computer and the router is normal.

1		Accessibly	1
100		Ganes · Comunicators	- 39
0	Documents	* 🖸 Sata 🔹 🛃 Diteranent	- 83
1	Setting	🏉 branet Explorer 👘 Sectors Tools	
U	and .	V His 🔾 Athenbox	
P	Search	<ul> <li>Outoxi Expresi</li> <li>Calulator</li> </ul>	
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0	Tan Of Corputer	😁 vitali at washe 2005 🔹 🏹 vitales Episer	

La E-WBIDOWS\system32\cmd.exe _ D ×
Microsoft Vindows XP (Version 5.1.2600) (C) Copyright 1985-2001 Microsoft Corp.
El\Documents and Settings\sztenda)ping 192.168.0.1
Pinging 192.168.0.1 with 32 hytes of data:
Roply From 192.168.0.1: hyter-32 time(im: TTL-64 Roply From 192.160.0.1: hyter-32 time(im: TTL-64 Roply From 192.160.0.1: hyter-32 time(im: TTL-64 Roply From 192.160.0.1: hyter-32 time(im: TTL-64
Ping statistics for 192.168.0.1: Packets: Sent = 4. Received = 4. Lost = 0 (Rt Less), Approximate round trip times in mill(-seconds: Rinimum = Dms, Paximum = Dms, Rverage = Oms
*

Tenda

# 3. Logging in to the Router

3.1 Open the WEB browser, and enter "http://192.168.0.1" in the

address box, and then press Enter.

- 3.2 In the pop-up login window, enter the user name ("admin") and password ("admin"), and click "OK" (both user name and password are "admin" by default).
- 3.3 If the user name and password entered are correct, the browser displays the administrator window.



Connect to 19	2.168.0.1
DSL Router	🖸 admin 💌
Password:	Remember my password
	OK Cancel



Tenda<sup>®</sup>

# **III. Guide to Fast Installation**

Enter the fast setting window. Select the required options in the "Country" and "Area" drop-down lists. If you cannot find your country and city in these lists, you can consult your ISP and manually enter the VPI and VCI values of your area. After that, click "Next".

- 1. Configure the PPPoE:
  - 1. 1 Select "PPP over Ethernet (PPPoE)".

your ISL Reuter	
ATS PSC Configura	tim
Please salect your o	region, entreatically fill VFI and VCI.
Country:	China 💌
Ares I	Shenzhen w
	Atifier (MTE) and Virtual Channel Identifier (MCE) ag up the ATM INC. So not change MTE and MCE manheer ratis yes otherwise
VPI (0-055)	0
VCE [30-49535]	35
Eashle Quality Of	Service
applications. Newwoo	W improves performance for selected classes of r, since Quf also consume system resources, the he reduced consequently. Yes <b>Advanced</b>
Setup/Quality of	Service to assign priorities for the applications.
Bashis Quality Of S	erics 🗆

Select the type of network protocol for IP over Ethernet as WAM in	derfan.
D PPP over ATM (PPPvA)	
777 over Ethenet (777vE)	
MAC Exception Routing (MER)	
D IP-ave ATM (IPoA)	
D Resident	
Incapeullution Mode	
LLOSNAP-BRIDGING 💌	

- 1.2 Click "Next". Enter the PPP user name and password provided by the ISP. If the ISP also provides the PPPoE service name, you can enter the corresponding value; otherwise, keep this field null. Use the default values for other options. For their details, refer to the description of the advanced settings.
- Click "Next" and enable the WAN service (it is enabled by default).
- 1.4 Click "Next" to display the window listing your settings.

#### ITT Provides and Patroard PPT smally repairs that you have a star mass and parassed to establi-your connection. In the boost balow, outer the user mass and parassed that your IDP has provided to you. PTP Varrages tenda0163.gd III Istoret ..... ITTel Service Base Authentimailen. AUTO ¥ 📋 Bial on decand frith sills timerat timer) Inartivity Tresset Genetes) (1-6222) IT IT If attantion Abranced INC Res 182 17 Address Ren 182 Rat Back T The Distin IF Address 27 Address 255, 255, 255, 255 Setry HT passeerd on authenticuling arrow IT Bridge Pffel France Setsons Will and Local Forty Gadealt Builded) Back Bart

Rolls 1987 Bultinet	
Dealls TAN Service	8
Inruico Baro	pppos_8_35_1

#1 / #11	8.7.35
Connection Type:	111-4
Incrites Bate	annes, M.A.
Service Extensory	Ves.
T Address	Automatically Assigned
Service State:	Indiat
BAT .	Raddad
forwall:	Tankled
Diff Baltiseet	Dendelad
Quality Of Service)	Dissbled
"Beck" to sale up redifie	even takes about I scouts to conjust and



Wireless Broadband Router User's Guide

 Click "Save/Reboot" to activate your settings. The system automatically establishes connection in about 2 minutes.

RSL Reuter	Rebeet
The	251. Restor has been configured and is rebooting
	111111
	Rebooting,please waiting 35seconds

- 2. Configure the PPPoA:
  - 2.1 Select "PPP over ATM (PPPoA)".

Connection Type	
Select the type of nation	th protocal for IP over Ethernet as NAM interface
· 117 ATR (117+A)	
O fff wear Etharnet Of	(1.4)
O BAC Receptation Re-	iting (MER.)
O 17 over 478 (17+4)	
O bridging	
Respondation Rode WC/MIX	
Back Bart	
COLUMN COLUMN	

2.2 Click "Next". Enter the PPP user name and password provided by the ISP. If the ISP also provides the PPPoA service name, you can enter the corresponding value; otherwise, keep this field null. Use the default values for other options. For their details, refer to

your connection. In that your IIP has p	the bores below, enter the user name and parsonal revisided to yes.
ITT Terrisme	tende065.gd
TTT Pataened	
Authenticution Rethind	4070
Advanced INC Res INC 17 Address Res INC Ret Back	132, 108-3, 1 558, 108-248, 0
The Pistie IF A	Alferen .
IF Address	255, 255, 255, 255
A CONTRACTOR OF	ord on authentication error

the description of the advanced settings.

- 2.3 Click "Next" and enable the WAN service (it is enabled by default).
- 2.4 Click "Next" to display the window listing your settings.

0
2
pppoa_0_36_1

intection Type:	FFF 6A
larvi en Bana'	
and the same	111+A.R.M.1
faresce Category	188.
IP Address:	Automatically Assigned
Gervice State	Reshled
IAT .	Enabled
fireedl:	Enabled
ORP Bulticest	Disabled
bullity Of Service:	Disabled

The BSL Bouter has been configured and in re-

Rebooting please waiting 35seconds

- 2.5 Click "Save/Reboot" to activate your settings. The system automatically establishes connection in about 2 minutes.
- 3. Configure the MER:



3.1 Select "MAC Encapsulation Routing (MER)".

rational for 17 over Ribernet as 858 interface
(
: (#EX)

3.2 Click "Next". If your ISP provides the static ]IP address, you should enter the corresponding values in "WAN IP Address" and "WAN Subnet Mask".

	ded to you by your LIP to configure the WAN IF
pattings.	
	aled for PC in MER sods or 17 over Ethernet at
	a an IF address estimatically" is chosen Changing
the default gatesar or	the BEL efforts the shale system Configuring thes
with static values will	divable the automatic assignment from DEP or
other TAN connection.	
If you configure statio	default gateway over this PEC in MIR wode, you
	as of the remote gateway in the "Die IP address".
The "Fie BM interface"	is optional
O Obtain an IF addre	an automatically
· Use the following	
TAN IF Address	58.251.78.7
TAK Subnet Bask	255, 255, 255, 0
Advanced 195	
· China dafarit ent	terms automatically
· Obtain defestt gut	
O Wee the following	
O Wes the following	fefailt prices
O Wee the following	fefeilt piterer
O Wee the following Wee IF Address Use WAN Interfe	64 (m) ( galance) as
Vie the following     Vie IP Address     Use TAN Interfe      Detain DB server	defealt gebrery as: es: es: es: es: es: es: es: es: es: e
<ul> <li>Use the following</li> <li>Use IF Address</li> <li>Use TAN Interfa</li> <li>Obtain DE server</li> <li>The the following</li> </ul>	64 (m) (1, 20) (m)
Ver the following     Ver IF Address     Ver IF Address     Use TAN Interfe     Use TAN Interfe     Ver the following     Fringer INS server	defedit generar ee <u>een generar</u> allerense antansisediy Millerense
<ul> <li>Use the following</li> <li>Use 1P Address</li> <li>Use TAN Interfe</li> <li>Obtain DE server</li> <li>The the following</li> </ul>	defealt generary en <u>ann a 1997 an</u> allerenses antimatically IRE survey allerenses

3.3 If your ISP provides the dynamic IP address, you should select "Obtain an IP address automatically".

settings.	
	for FVC in MER mode or IP over Ethernet at
	IT address astonatically" is chosen Changing
	E effects the shale system. Configuring then
	In the automatic assignment from IMCP or
ther TAX connection.	
	it geteray over this PVC in MER mode, you
out after the IF address of the "Was WAN interface" in on	the resate gateway in the "Nos IF address".
the site of interine in of	TA PERSON
· Ibtain an 17 address er	tentically
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Advanced DMC	
· Btain defmilt gaterny :	automatically
O Tes the following defed	11 gaterap
The IF Address	
	net_2_35/
The MAN Interface	
The MAN Interface	
The NAS Interface     Ottain INC server addres	
	tion estimatically
· Obtain 200 server eldre	tion estimatically
<ul> <li>Obtain DE server eddres</li> <li>O Nue the following DE server</li> </ul>	tion estimatically
<ul> <li>Obtain BHC server eddres</li> <li>Due the following DHC so</li> </ul>	tion estimatically
<ul> <li>Obtain DE server eddres</li> <li>O Nue the following DE server</li> </ul>	men estimatically

TALL IF SH

3.4 Click "Next". In the case of multiple computers share the Internet access service, it is recommended to enable NAT and firewall.

steerk Address Translation	Settings
	(MAT) allows you to share one Fide Area multiple computers on your Local Area
ashis MAT	2
ashis Firwall	2
faable IGBP Bulticast, o faable IGBP Bulticast	
Indle BB Service	
Service Rune:	ner_0_35



 Click "Next" to display the window listing your settings.

RTE / MCE.	0 / 35
Compactions Type:	ett.
Service Rate:	ser_0,25
Service Category:	188.
IF Ableunn)	58.251.79.7
Gervice State:	Indiad
RE .	Enabled
Firee all	Enabled
DRP Bultiment	Dissilat
Quality Of Service.	Dissi2+8
Jack' to make any modification	es settings and rebort restar. Click a takes about 1 singte to complete and

The BSL Router has been configured and in

Rebooting please waiting 35second

- 3.6 Click "Save/Reboot" to activate your settings. The system automatically establishes connection in about 2 minutes.
- 4. Configure the IPoA:
  - 4.1 Select "IP over ATM (IPoA)".

Callant 1	he type of nateory protocol for 17 over Ethernet as FAH interfac
0 m	over A28 (227+A)
0 m	over Ethernet (277-8)
0 10	Enconduction Booting (MED)
© 17 -	ver ATB (IZ-sk)
O bri	614
Incap	nistion Rode
LLC/38	ar-Roviling 💌



Wireless Broadband Router User's Guide

4.2 Click "Next" and enter the fixed IP address and subnet mask.

	reported in 17st ands. Changing the default gaters is shale system. Configuring then with static value			
	waits engineent from other FAH connection.			
Ref 17 Address	58, 251, 78, T			
tal Johnst Buck	255, 255, 255, 0			
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Upe TAN Intert	fate: 1p-rs, 0, 25/ sps, 0, 25 pc			
D for the following	ng DEE server addresses			
Friency 200 Server				
Secondary IRI pers	eer:			

4.3 Click "Next". It is recommended to enable the NAT and firewall.

	. Settings
	(942) allows you to share one Fide dree or multiple computers on your Local dree
nable MAT	e
uable Firerall	e
able 1087 Bulticast,	and TAB Service
Bable 1087 Bulticast	
	R
Inable TAS Service	80

4.4 Click "Next" to display the window listing your settings.

Connection Type:	
Connection, Type	IPsA
Service Subs	1944, D. 20
Service Cologery:	URR.
17 Address	58.251.78.7
Service State:	Indled
mz	Raddled
firmal:	Indiet
DRP Bultinet	Disult+4
Quality Of Service	Dissbled

# **Tenda**°

4.5 Click "Save/Reboot" to activate your settings. The system automatically establishes connection in about 2 minutes.

### The SIX Boster has been configured and is reberting. Rebooting please waiting 35seconds

### **IV. Configuration Description**

- 1. Device information
  - 1.1 Click "Device Info" and then "Summary" to display the "Device Info" and "DSL Info" window.

The device information covers:

- 1.1.1 Hardware version
- 1.1.2 Software version
- 1.1.3 Boot version
- 1.1.4 Wireless driver version
- 1.1.5 LAN MAC address
- 1.1.6 WAN MAC address
- 1.1.7 Running time
- 1.1.8 System time

- 11 C - 12	TR15480 V 0.1
Josef 23.	TVL5483 V 0.1
Software Version:	¥ 1.1
Instituder (CPI) Farming	1.0.27-8.7
Fireless Driver Termion.	3. 131. 35. 6. 1942. 0
LAS MAC	02 10 18 01 00 01
THE RAC	02 10 10 01 00 01
Busing Time	00.08.16
System Time	Set Jan 1 00:00:16 2000

# Tenda

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- 1.2 The DSL information covers:
- 1.2.1 Upstream link rate
- 1.2.2 Downstream link rate
- 1.2.3 LAN IP address
- 1.2.4 Default gateway: In the pure bridge mode, there is no gateway; in other modes such as PPPoE and PPPoA, the gateway address is the IP address of the upstream device.
- 1.2.5 Primary DNS server: In the PPPoA/PPPoE mode, the DNS address is obtained from the upstream device; in the pure bridge mode, it is not required to set the DNS address; in other modes, you can manually enter the DNS address.
- 1.2.6 Secondary DNS server
- Click "WAN" to display the window shown in the right figure.

This information reflects the c of your DSL connection.	wrest state
Line Rate - Upstream (Dhps):	509
Line Rate - Downstream (Dhps):	3070
LAN IP Address:	192.160.1.1
Befault Gateway:	
Prinary DKS Server:	192.168.1.1
Secondary 185 Server:	192.160.1.1

-	2	12	-	denie.	Internet	Perturb	144	- 84	-	(talas	1
**	-			are.1.8.3	10.1.N.1	-		******	-	10	
-	-	1	-	-	-	-					

- Click "Route" to display the window shown in the right figure, displaying the default information.
- 2. Advanced settings
  - 2.1 WAN
  - 2.1.1 Click "WAN". If the WAN information has been set, you can edit or modify such information in this window, or add new WAN information. Caution: After modifying/adding new information, you need to reboot the device to activate the setting.
    - VPI (Virtual Path Identifier): Virtual path between two points in the ATM network. Its value ranges 0 ~ 255.
    - VCI (Virtual Channel Identifier): Virtual channel between two points in the ATM network. Its value ranges 32 ~ 65535 (1 ~ 31 are reserved for the

9	- dynamia	(redirect), #	- 810	ifiel G	redirect)	
Bestinution	Galerar	Salart Bask	flag	Retrie	Service	Interface
192 165 1 D	0.0.0.0	255 255 255 0	U	0		beD.

ATS FWC Configuration	
	a configure an ATM FVC identifiar (NVI and VCI) agony. Otherwise shouse an existing interface by
relating the checklose t	o emails it.
Floane salart your regio	n, automatically fill MYI and MCI.
Centry:	China 🚽
Area 7	Shenghen w
VP2 10-0553	0
WC2 (30-685363	25
TLAS Bur - Inchis Buitt	Die Freitenis Deur a Single FFC
Service Category	IBR Fitheut PCE
Service Category	IBR Fitheut PCE
Service Cologery Rachie Quality Of Sec Raching packet Level Qu	UBR Fithout FCR
Service Category Rachte Quality Of Ser Rachting pathet Level Qu classes of updirections.	THE Without PCE and relies of for a PCC supervex performance for solution Quid caused be set for CHL and Realizer VHL.
Service Calegory Fachle Quality Of Ser Budding packet level 4 classes of upplications. QC communi system to	UBR Fithout FCR
Service Calegory Fachle Quality Of Ser Budding packet level 4 classes of upplications. QC communi system to	TBR. Without PCE (m) relies & for a PIC improve performance for solution Qui connet to art for CDL and Bactine VDL reverse. Checkfort the implice of PCS will be
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Service Cologery Raddle Quality Of Sec Radding putter Loval Qu Garnes of upplications. QG common system ten reduced. Non Advanced 1 for the applications.	THE Fatherst PCE in The State of the State



well-known protocols).

- Service category: Selecting one from five available service categories.
- Enable Quality of Service (QoS): Enabling or disabling it.
- 2.1.2 You can enable the VLAN Mux and QoS. After the VLAN Mux is enabled, the window shown in the right figure is displayed. You can modify the VLAN ID here.
- 2.1.3 Caution: When you click "Next" after enabling the VLAN Mux, the window shown in the right figure is displayed, because the 802.1 VLAN flag is supported only in the PPPoE, MER and bridge modes.



#### VLAN Hur - Inable Hultiple Protocols Over a Single PHC 2 HOL 14 VLAN IN (D-4005) 2

### 2.1.3.1. PPPoA mode

# **Tenda**°

#### Wireless Broadband Router User's Guide

- Select "PPP over ATM (PPPoA)". Encapsulation Mode: VC/MUX LLC/ENCAPSULATION Once you select a mode, the system automatically changes the encapsulation mode into the one matching your setting. Therefore, it is recommended to keep the default setting unchanged.
- 2) Click "Next" to display the window shown in the right figure.
- Authentication Method:
   AUTO/PAP/CHAP/MSCHAP.
   Usually, "AUTO" is selected.
  - b. Dial on demand:
    If you check this option, you need to manually enter the timeout time. If no flow is detected when the timeout time is up, the device interrupts the connection automatically. And when a flow is detected, the device automatically makes dial-up connection again.
    If you disable this option, the

() TTT ATR (TTT-A)	
O TTT over Ribertet (TTT-R)	
O Bill Encagendation Souting (823)	
O 17 vev 178 (1740)	
O Bridging	
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WC/MERE M	

your connection. In that your IIP has pr	the brans balloe, enter the unor name and parament consided to pro-
TT Therman	tenda@163.gd
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kathanti cuti m Retheil	0738
P. Dal in Second	feith idle timerat timer)
Inartisity finant 6	eisertes) (2-4300) 4000
F IT II antennio	•
Advanced Int	
tes INC IF Address	192, 168, 1, 100
in 285 Bet Saik	258, 258, 259, 0
Wee Statis IF &	direct
IF Address	58, 251, 78, T
Zatry HT gaine	ord on authentication error

device is always in online status until device power-off, connection failure or other failures occur.

- c. PPP IP extension: When the integrated gateway is connected with a computer, the IP address obtained through the upstream link is directly allocated to this computer connecting with the device. After the PPP IP extension is enabled, you can enable the advanced DMZ. At this time, you need to enter your DMZ host and subnet mask.
- d. Use Static IP Address:
   After this option is checked, the device uses this IP address as the WAB IP address and does not need to obtain it through the upstream link.
- e. Retry PPP password on authentication error
- f. Enable PPP debugging mode.



#### Wireless Broadband Router User's Guide

- Click "Next" to display the window shown in the right figure.
- Enable IGMP Multicast: IGMP agent. For example, to enable the IPTV in the PPPoE mode, you need to check this option.
- Enabled WAN Service: Checked by default. It is recommended to keep this default setting, unless you do not need to activate your WAN.
- Click "Next" to display the window shown in the right figure. This window lists your settings.

 Click "Save" to display the window shown in the right figure.

Eachin 1087 Belticert,	and BAR Service	
faults DBT Bulticest	8	
Reality FAR Services	8	
Dervice Res	pppc4_0_35_1	
Back (Kert)		

RE / 901	8.7.26
Connection Type	112+6
Inertical Bane	U.S. Lower
Service Delegen	188
17 Address	16.051.78.7
lervice State	Institut
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Budity Of Service	Rendered
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			Sec.						-	-
-	-	-	-	all.	-	-	-	-	0	0440



 Click "Save/Reboot" to activate your settings.

### 2.1.3.2. PPPoE mode

 Select "PPP over Ethernet (PPPoE)".

> Encapsulation Mode: VC/MUX LLC/SNAP-BRIDGING Once you select a mode, the system automatically changes the encapsulation mode into the one matching your setting. Therefore, it is recommended to keep the default setting unchanged.

144	or the type of asterik protocil for 17 over Dimensit as MAR interfac
0	777 year ATR (275-ak)
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- 2) Click "Next" to display the window shown in the right figure.
- Authentication Method:
   AUTO/PAP/CHAP/MSCHAP.
   Usually, "AUTO" is selected.
- b. Dial on demand: If you check this option, you need to manually enter the timeout time. If no flow is detected when the timeout time is up, the device interrupts the connection automatically. And when a flow is detected, the device automatically makes dial-up connection again. If you disable this option, the device is always in online status until device power-off, connection failure or other failures occur.
- PPP IP extension:
   When the device is connected with a computer, the IP address obtained through the upstream link is directly allocated to this

rear matrix bit han bits, etc. "Is are han al gammer" dia rea UT is any other is you. If I haven is If I haven is Ministration and bits into inserve transf Bondry Tarres Market (1997) District Tarres Market District Tarres M	PPP annually resources	that you have a more and assured to establish
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Advanced SHE           Ras DE 17 Advects           1902.165.1.100           Ras DE 18 Nature           205.705.200.0           Was Database           27 Address           28 Address		
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computer connecting with the device. After the PPP IP extension is enabled, you can enable the advanced DMZ. At this time, you need to enter your DMZ host and subnet mask.

d. Use Static IP Address:

After this option is checked, the device uses this IP address as the WAB IP address and does not need to obtain it through the upstream link.

- e. Retry PPP password on authentication error
- f. Enable PPP debugging mode.
- Click "Next" to display the window shown in the right figure.
- Enable IGMP Multicast: IGMP agent. For example, to enable the IPTV in the PPPoE mode, you need to check this option.
- b. Enabled WAN Service: Checked by default. It is recommended to keep this default setting, unless you do not need to activate your WAN.

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# Tenda

#### Wireless Broadband Router User's Guide

4) Click "Next" to display the window shown in the right figure. This window lists your settings.

- Click "Save" to display the window shown in the right figure.
- Click "Save/Reboot" to activate your settings.

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### 2.1.3.3. MER mode

 Select "MAC Encapsulation Routing(MER)".
 Encapsulation Mode: VC/MUX LLC/SNAP-BRIDGING Once you select a mode, the system automatically changes the encapsulation mode into the one matching your setting. Therefore, it is recommended to keep the default setting unchanged.



# **Tenda**°

- Click "Next" to display the window shown in the right figure.
- a. Obtain an IP address automatically:
  If your device automatically obtains the IP address, the DHCP client mode is enabled already.
- b. Use the following IP address: To manually specify an address, you need to check this option and enter your static IP address and subnet mask.
- c. Advanced DMZ:
   Enter the IP address and subnet mask for the DMZ host.
- d. Obtain default gateway automatically: If this option is checked, the device automatically obtains the default gateway address from the upstream device.
- Use the following default gateway:

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To manually enter a gateway, check this option.

- a. Use IP Address:
   After checking "Use the following default gateway", you can enter a value here.
- b. Use WAN Interface: For the broadband access device, you need to enter the IP address of the downstream link interface.
- Obtain DNS server address automatically: If this option is checked, the device automatically obtains the DNS address.
- 5) Use the following DNS server address:

To manually enter a DNS address, check this option.

- a. Primary DNS server
- b. Secondary DNS server

# **Tenda**°

- 6) Click "Next".
- Enable IGMP Multicast:
   IGMP agent. For example, to enable the IPTV in the PPPoE mode, you need to check this option.
- Enable WAN Service:
   Checked by default. It is recommended to keep this default setting, unless you do not need to activate your WAN.
- Click "Next" to display the window shown in the right figure. This window lists your settings.

- Click "Save" to display the window shown in the right figure.
- Click "Save/Reboot" to activate your settings.

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Tenda Wireless Broadband Router User's Guide

### 2.1.3.4. IPoA mode

- Select "IP over ATM (IPoA)". Encapsulation Mode: VC/MUX LLC/SNAP-ROUTING Once you select a mode, the system automatically changes the encapsulation mode into the one matching your setting. Therefore, it is recommended to keep the default setting unchanged.
- Click "Next" to display the window shown in the right figure.
- WAN IP Address:
   Enter the IP address provided by your ISP.
- WAN Subnet Mask:
   Enter the subnet mask provided by your ISP.
- c. Use the following default gateway:

You can check this option.

d. Use IP Address:

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# **Tenda**°

Enter the IP address provided by your ISP.

- e. Use WAN Interface:
   For the broadband access device, you need to enter the IP address of the downstream link interface.
- Use the following DNS server address:

You can check this option.

- a. Primary DNS server
- b. Secondary DNS server
   Caution: In the IPoA mode,
   DHCP is not supported, so you
   need to manually enter the
   WAN IP address, subnet mask,
   default gateway, DNS server
   and other settings.

# Tenda

- 4) Click "Next".
- a. Enable NAT:

NAT enables multiple computers in your LAN to use the same WAN IP address for Internet access. It is recommended to check this option.

- Enable Firewall
   It is recommended to check this option to avoid some attacks.
- c. Enable IGMP Multicast: IGMP agent. For example, to enable the IPTV in the PPPoE mode, you need to check this option.
- Enable WAN Service:
   Checked by default. It is recommended to keep this default setting, unless you do not need to activate your WAN.





 Click "Next" to display the window shown in the right figure. This window lists your settings.

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- f. Click "Save" to display the window shown in the right figure.
- g. Click "Save/Reboot" to activate your settings.

#### 2.1.3.5. Bridging mode

 Select "Bridging".
 Encapsulation Mode: VC/MUX LLC/SNAP-BRIDGING
 Once you select a mode, the system automatically changes the encapsulation mode into the one matching your setting.
 Therefore, it is recommended to keep the default setting unchanged.



te M. Bester has been configured a

- Enable Bridge Service: To select the bridge mode, you need to check this option. By default, this option is checked.
- Click "Next" to display the window shown in the right figure. This window lists your settings.

- Click "Save" to display the window shown in the right figure.
- 5) Click "Save/Reboot" to activate your settings.

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2.2 LAN

2.2.1 IP Address: IP address used by the router to connect to the LAN. This option is set to 192.168.0.1 upon device delivery. You can change it as required.

Caution: After changing this IP address, you need to use the new IP address to access the WEB management window upon next login to the router. In addition, you must set the default gateway in each computer in your LAN to this IP address, to ensure normal Internet access. 2.2.2 Subnet Mask: Setting your subnet mask. 2.2.3 Enable IGMP Snooping: Used in the bridge mode. 2.2.4 Standard Mode 2.2.5 Blocking Mode 2.2.6 Configure the second IP Address and Subnet Mask for

LAN interface

 
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#### 2.2.7 Click "Save/Reboot".



- 2.3. NAT
- 2.3.1 Virtual server
  - 1) Click "NAT" → "Virtual Server" to display the window shown in the right figure. Here, you can add or delete your virtual server settings. By default, the external networks cannot access the IP address of your internal network. However, if you need such access by the external networks (for example, you need to set up the server or support some special applications), you should enable this function to allow the access by external networks.





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- Click "Add" to display the window shown in the right figure.
- a. Select a Service: Selecting the service to be enabled.
- b. Custom Server: Manually entering the server name.
- c. Server IP Address: LAN IP address for the server.
   Caution: After a service is selected, the system automatically opens the corresponding port. After you manually entering a customized service, you need to manually enter the port to be opened.
- Click "Save/Apply" to display the service added, as shown in the right figure.

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2.3.2. Port triggering

- Click "Port Triggering" to display the window shown in the right figure. Here, you can add or delete your port triggering service settings.
   For some special applications, you need to enable some application ports. Through the port triggering, you can enable the automatic opening of the ports required by applications.
- Click "Add" to display the window shown in the right figure.
- Select an application: Selecting the name of the service to be enabled.
- b. Custom application: Manually entering the service name.

Caution: After a service is selected, the system automatically sets the corresponding port. After you manually entering a customized service, you need to manually enter



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the port to be triggered.

- Click "Save/Apply" to display the service added, as shown in the right figure.
- 2.3.3 DMZ host
  - Click "DMZ Host" to display the window shown in the right figure.
  - DMZ Host IP Address: Entering the LAN IP address for the DMZ host.
     Caution: Opening DMZ means to open all ports. In this case, your computer is totally exposed to the public network. Be cautions to use

this function.

Click "Save/Apply" to activate the settings.

- 2.3.4 ALG
  - Click "ALG" to display the window shown in the right figure.

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- SIP Enabled: Enabling or disabling the SIP (Session Initiation Protocol) function.
   SIP is an application-layer control protocol, used for creating/modifying/terminating the multimedia sessions, such as Internet call.
   Click "Save/Apply" to activate the settings.
- 2.3.5 UPNP
  - Click "UPNP" to display the window shown in the right figure.

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# **Tenda**°

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- 2) Enable UPnP: Enabling or disabling the UPnP (Universal Plug and Play) function. UPnP is a kind of architecture of common network connection between the computer and intelligent devices/instruments. It is especially common in the family application. Based on the Internet standards and technologies (such as TCP/IP, HTTP and XML), UPnP enables automatic connection and cooperation between such devices, thus to make more people can access the network (especially the family network). Click "Save/Apply" to activate the settings.
- 2.4 Security
- 2.4.1 IP filtering
  - Click "Security" → "IP
     Filtering" to display the

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Ears/Apply		

window shown in the right figure.

By default, all outgoing traffic is allowed. However, you can set IP filtering to restrict external network access by some computers in the internal network.

- Click "Add" to display the window shown in the right figure.
- a. Filter Name: Setting the filtering name to facilitate identification.
- b. Protocol: Selecting one from four available protocols: TCP/UDP; TCP; UDP; ICMP.
- Source IP address: Entering the internal network IP address to be filtered.
- d. Source Subnet Mask: Entering the subnet mask corresponding to the internal network IP address to be filtered.

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- e. Source Port: Entering the port number of the internal network
   IP address to be filtered.
- f. Destination IP address:
   Entering the external network
   IP address to be filtered.
- g. Destination Subnet Mask:
   Entering the subnet mask
   corresponding to the external
   network IP address to be
   filtered.
- Destination Port: Entering the port number of the external network IP address to be filtered.

Based on the above settings, you can add your filtering rules.

You can select your WAN interface. However, it is recommended to keep the default setting unchanged.

3) Click "Save/Apply".

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 Click "Incoming" to display the window shown in the right figure.

> By default, all incoming traffic is restricted. However, you can set IP filtering to allow internal network access by some external computers.

- Click "Add" to display the window shown in the right figure.
- a. Filter Name: Setting the filtering name to facilitate identification.
- b. Protocol: Selecting one from four available protocols: TCP/UDP; TCP; UDP; ICMP.
- Source IP address: Entering the external network IP address to be filtered.
- d. Source Subnet Mask: Entering the subnet mask corresponding to the external network IP address to be filtered.



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- Source Port: Entering the port number of the external network IP address to be filtered.
- f. Destination IP address:
   Entering the internal network
   IP address to be filtered.
- g. Destination Subnet Mask:
   Entering the subnet mask
   corresponding to the internal
   network IP address to be
   filtered.
- Destination Port: Entering the port number of the internal network IP address to be filtered.
- Based on the above settings, you can add your filtering rules. You can select your WAN interface. However, it is recommended to keep the default setting unchanged.

- 6. Click "Save/Apply".
- 2.4.2. Parent control
  - Click "Time of Day Restriction" to display the window shown in the right figure.
  - Click "Add" to display the window shown in the right figure.

Here, you can set a specific period to restrict Internet access of a MAC address.

3) Click "Save/Apply".

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- 2.5. Routing
- 2.5.1 Default gateway

 Click "Routing" → "Default Gateway" to display the window shown in the right figure.

Enable Automatic Assigned Default Gateway:

You can check/uncheck this option. If you uncheck this option, you need to manually enter the default gateway address and WAN service. It is recommended to keep the default setting unchanged.

- 2) Click "Save/Apply".
- 2.5.2 Static route
  - Click "Static Route" to display the window shown in the right figure. Here, you can add/delete the items of the static route.



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 Click "Add" to display the window shown in the right figure.

> Destination Network Address: Entering the network or host for static route.

Subnet Mask: Entering the

subnet mask corresponding

to the network or host for

static route.

Use Gateway IP Address:

Entering the gateway

address to be passed by the

static route.

Use Interface: Selecting the

interface corresponding to

your connection mode.

Click "Save/Apply".





#### Wireless Broadband Router User's Guide

 Click "RIP" to display the window shown in the right figure.

> Here, you can enable or disable the global RIP mode. To enable this mode, you can select the version: 1; 2; both. You can also select the operation mode: Active; Passive.



## Click "Save/Apply".

#### 2.6.DNS

- 2.6.1 DNS server
  - Click "DNS Server" to display the window shown in the right figure.
  - Enable Automatic Assigned DNS: After checking it, the DNS settings are activated. And the DHCP server of the router allocates the added DNS address to the client submitting the request.
  - Primary DNS server: Entering the DNS address provided by

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the ISP.

- Secondary DNS server: If your ISP provides two DNS addresses, you can enter the other address here.
- 2.6.2 Dynamic DNS
  - Click "Dynamic DNS" to display the window shown in the right figure. Here, you can add/delete the dynamic DNS settings.
     Dynamic DNS can make your applied domain name correspond to your IP address, so that the other users only

need to remember your domain

name for accessing your

server.



# Tenda

#### Wireless Broadband Router User's Guide

2) Click "Add" to display the

window shown in the right figure.

D-DNS provider: Selecting a specific provider of dynamic DNS.

Hostname: Domain name

applied by you.

Interface: Selecting one from

two available interface modes.

Username: Your user name

registered on the website of the

dynamic DNS provider.

Password: Password

corresponding to your user

name registered on the website

of the dynamic DNS provider.

3) Click "Save/Apply".





# **Tenda**

# 2.7 DSL

Click "DSL" to display the window shown in the right figure. Here, you can enable a service as required. By default, the system checks the status of G.dmt, G.lite, T1.413, ADSL2, ADSL2+, READSL2, Bitswap and SRA services. The device can automatically negotiate with the upstream device.



### 2.8 Port mapping

- 2.8.1 Click "Port Mapping" to display the window shown in the right figure.
- 2.8.2 Enable virtual ports on: Select or clear it.
  Port mapping supports the mapping from multiple ports to PVC and bridging group.
  Each group will serve as an independent network.



2.8.3 Click "Add" to display the

window shown in the right figure.

Group Name: Customizing a name.

Select the interface to be added into the group and click "Add".

To automatically add a LAN customer to the PVC of a new group, you need to add the ID character string of a DHCP provider. After configuring the ID character string for the DHCP provider, the request of any customer with the specified provider ID (DHCP as "60") from the IP address from the local DHCP server will be rejected.

Caution: The customer possibly obtains the IP address of the public network. In this case, the

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selected interface is removed from the existing groups and added into a new group.

2.8.4 Click "Save/Apply" to activate the settings.

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#### 2.9 IPSec

2.9.1 Click "IPSec" to display the window shown in the right figure.



- 2.9.2 Click "Add New Connection" to display the window shown in the right figure.
- 1) Remote IPSec Gateway Address
- 2) Tunnel access from local IP

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#### address

- IP Address for VPN: Setting the local VPN address
- IP Subnet mask: Setting the subnet mask corresponding to the local VPN address.
- 5) Tunnel access from remote IP address
- IP Address for VPN: Setting the remote VPN address
- IP Subnet mask: Setting the subnet mask corresponding to the remote VPN address.
- Key Exchange Method: Auto (IKE); manual.
- Authentication Method: Selecting the authentication method corresponding to the key exchange method selected
- 10) Pre-Shared Key: Setting the password
- 11) Perfect Forward Secrecy: Enable; Disable. You can click "Show



Advanced Settings" to modify advanced parameters to mater your

connection.

Click "Save/Apply".

#### 2.10 Certificate

- 2.10.1 Click "Certificate" to display the window shown in the right figure. Here, you can create/view/delete certificates.
- 2.10.2 Click "Create Certificate Request" to display the window shown in the right figure.

Enter the request details,

such as certificate name,

common name,

organization name,

state/province and country.

Click "Apply".

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#### Wireless Broadband Router User's Guide

2.10.3 Click "Import Certificate" and "Important Certificate" to display the window shown in the right figure. Enter your certificate name and paste the certificate content. Click "Apply".

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- 3. DHCP
  - Click "DHCP Server" to display the window shown in the right figure.
  - 3.1.1 You can click "Disable DHCP Server" or "Enable DHCP Server".
  - 3.1.2 Start IP Address: Start address of the DHCP server IP pool
  - 3.1.3 End IP Address: End address of the DHCP server IP pool
  - 3.1.4 Leased Time: Validity period of the IP address obtained.

Click "Save".

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Wireless Broadband Router User's Guide

3.2 Click "DHCP Client List" to view the list of the clients with allocated DHCP service.

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- 4. WLAN
- 4.1 Basic settings
  - 4.1.1 Click "WLAN" to display the window shown in the right figure.
  - Enable Wireless: Enabling or disabling the wireless feature.
  - Hide Access Point: Hiding your access point to avoid detection by the passive scanning.
  - SSID: Service Set ID. It is the network name of the wireless signal, supporting change.
  - Country: The device can automatically adapt itself to the channel frequency specifications in each

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country.

- BSSID: Physical address of wireless signals Enable Wireless Guest Network
- Guest SSID: This value should be unique and same in the shared guest network.
- 4.1.2 Click "Save/Apply".
- 4.2 Security
  - 4.2.1 Click "Security" to display the window shown in the right figure.
  - 4.2.1.1 Select SSID
  - 4.2.1.2 Network Authentication: Open; Shared; 802.1X; WPA; WPA-PSK; WPA2; WPA2-PSK; Mixed WAP/WPA2; Mixed WPA2/WPA-PSK.
    4.2.1.3 WEP Encryption: Enabled; Disabled



# **Tenda**<sup>®</sup>

1) After "Network

Authentication" is set as "Shared", the system displays the window shown in the right figure.

- a. Encryption Strength:64-bit; 128-bit
- key description: You need to enter 10 hexadecimal digits or 5 ASCII characters for 64-bit encryption keys. You need to enter 26 hexadecimal digits or 13 ASCII characters for 128-bit encryption keys.
- Current Network Key: Only one key can be selected for activation, but up to 4 keys can be saved.
- d. Network Key 1 ~ 4: Enter the key with proper length and within the valid character range.

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# Tenda

- After "Network Authentication" is set as "802.1X", the system displays the window shown in the right figure.
- RADIUS Server IP
   Address: IP address of the target server of 802.1X
   authentication
- b. RADIUS Port: Port number of the target server of 802.1X authentication
- c. RADIUS Key
- d. Encryption Strength: 64-bit; 128-bit.
- e. Key description: You need to enter 10 hexadecimal digits or 5 ASCII characters for 64-bit encryption keys. You need to enter 26 hexadecimal digits or 13 ASCII characters for 128-bit encryption keys.
- f. Current Network Key: Only

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one key can be selected for activation, but up to 4 keys can be saved.

- g. Network Key 1 ~ 4: Enter the key with proper length and within the valid character range.
- 4.2.2 After "Network Authentication" is set as "WPA", the system displays the window shown in the right figure.
- WPA Group Rekey Interval: Once this interval times out, the key will change. If this value is set to 0, the key will not change.
- RADIUS Server IP Address: IP address of the target server of 802.1X authentication
- RADIUS Port: Port number of the target server of 802.1X authentication

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- 4) RADIUS Key
- 5) WPA Encryption: TKIP; AES; TKIP+AES
- WEP Encryption: Enabled;
   Disabled
- 4.2.3 After Network Authentication" is set as "WPA-PSK", the system displays the window shown in the right figure.
- WPA Group Rekey Interval: Once this interval times out, the key will change. If this value is set to 0, the key will not change.
- 2) WPA Encryption: TKIP; AES; TKIP+AES
- WEP Encryption: Enabled;
   Disabled
- 4) WPA Pre-Shared Key

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4.2.4 After "Network

Authentication" is set as "WPA2", the system displays the window shown in the right figure.

- 1) WPA2 Preauthentication: Enabled; Disabled
- Network Re-auth Interval: Once this interval times out, the system make authentication again.
- RADIUS Server IP Address: IP address of the target server of 802.1X authentication
- RADIUS Port: Port number of the target server of 802.1X authentication
- 5) RADIUS Key
- 6) WPA Encryption: TKIP; AES; TKIP+AES
- WEP Encryption: Enabled;
   Disabled

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4.2.5 After "Network

Authentication" is set as "WPA2-PSK", the system displays the window shown in the right figure.

- WPA Group Rekey Interval: Once this interval times out, the key will change. If this value is set to 0, the key will not change.
- WPA Encryption: TKIP; AES; TKIP+AES
- WEP Encryption: Enabled; Disabled
- 4) WPA Pre-Shared Key
- 4.2.6 After "Network Authentication" is set as "Mixed WPA2/WPA", the system displays the window shown in the right figure.







- 1) WPA2 Preauthentication: Enabled; Disabled Network Re-auth Interval
- 2) WPA Group Rekey Interval
- RADIUS Server IP Address: IP address of the target server of 802.1X authentication
- A) RADIUS Port: Port number of the target server of 802.1X authentication
- 5) RADIUS Key
- WPA Encryption: TKIP; AES; TKIP+AES
- 7) WEP Encryption: Enabled; Disabled
- 4.2.7 After "Network Authentication" is set as "Mixed WPA2/WPA -PSK", the system displays the window shown in the right figure.

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- 1) WPA Pre-Shared Key
- WPA Group Rekey Interval: Once this interval times out, the key will change. If this value is set to 0, the key will not change.
- WPA Encryption: TKIP; AES; TKIP+AES
- 4) WEP Encryption: Enabled; Disabled

- 4.3. MAC address filtering
  - 4.3.1 Click "MAC Filter" to display the window shown in the right figure.

MAC Restrict Mode:

Disabled; Allow; Deny.

Here, you can also

add/delete items.





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4.3.2 Click "Add" to display the

window shown in the right figure.

MAC Address: Entering the MAC address to be controlled

Click "Save/Apply".

- 4.4 Wireless network bridge
  - 4.4.1 Click "WLAN Bridge" to display the window shown in the right figure.
  - AP Mode: Access Point; WLAN Bridge. The default setting is "Access Point".
  - Bridge Restrict: Enabling or disabling the automatic search for the wireless network bridge within the area.

WDS (Wireless Distribution System): Enlarging your network. However, you can only set up the WDS link with the device with enabled WDS function.



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# Tenda

- 4.5. Advanced
  - 4.5.1 Click "Advanced" to display the window shown in the right figure.
  - 4.5.2 AP Isolation: On; Off. When you enable this function, each wireless client connected to this device can form a virtual network, which cannot access another virtual network.
  - 4.5.3 Band: 2.4 GHz by default
  - 4.5.4 Channel: Auto; any channel among set channels 1 ~ 13
  - 4.5.5 Auto Channel Timer: Available when "Auto" is selected in "Channel"
  - 4.5.6 54gTM Rate: Auto by default. You can select another rate.
  - 4.5.7 Multicast Rate: Auto by default. You can select another rate.
  - 4.5.8 Basic Rate: Default by default. This device

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multicast this value to other wireless devices within the LAN to select the optimal transmission rate.

- 4.5.9 Fragmentation Threshold:2346 by default. It is the size of the fragments of each packet.
- 4.5.10 RTS Threshold: 2347 by default. Once the packet exceeds this value, the CTS/RTS mechanism is adopted to lower the conflict possibility.
- 4.5.11 DTIM Interval: Interval of AP sending the broadcast channel
- 4.5.12 Beacon Interval: Frequency of the device sending broadcast packets to the wireless network
- 4.5.13 Maximum Associated Clients: 128 by default. You can change it as required.
- 4.5.14 XPress<sup>™</sup> Technology:



Enabled; Disabled

- 4.5.15 54g<sup>™</sup> Protection: 54 g Auto by default
- 4.5.16 Preamble Type: long; short. It indicates the type of the preamble adopted by the network. "long" means 128-bit synchronization field; "short" means 56-bit synchronization field.
- 4.5.17 Transmit Power: 100% by default. You can change it as required. A higher power means longer transmission. Click "Save/Apply".
- 4.6 Quality of Service



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- Click "Quality of Service" to 4.6.1 display the window shown in the right figure. WMM (Wi-Fi Multimedia): Enabled: Disabled WMM No Acknowledgement: Enabled: Disabled WMM (Wi-Fi Multimedia) comprehensively defines 4 types of connection contents: Voice, video, best effort and background, thus to improve the network communication quality and ensure stable connection between such applications and network resources.
- 4.6.2 After "WMM (Wi-Fi Multimedia)" is set as "Enabled", the system displays the window shown in the right figure.





# **Tenda**°

Wireless Broadband Router User's Guide

4.6.3 Click "Add QoS Entry" to display the window shown in the right figure. Traffic Class Name: Setting the traffic name to facilitate identification. Wireless Transmit Priority: 0 by default. You can change it as required. Protocol: TCP/UDP; TCP; UDP: ICMP Source IP Address: Entering the source IP address Source Subnet Mask: Entering the subnet mask corresponding to the source IP address TCP/UDP Source Port: Entering the port number of the source IP address Destination IP Address: Entering the destination IP address

**Destination Subnet Mask:** 

Entering the subnet mask

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corresponding to the destination IP address TCP/UDP Destination Port: Entering the port number of the destination IP address

4.6.4 Click "Save/Apply" to view the saved status information.



#### 4.7 Status information

- 4.7.1 Click "Authenticated Station" to display the window shown in the right figure. Here, the station of your settings is displayed.
- 5. Management
- 5.1 Setting
  - 5.1.1 Click "Backup" to display the window shown in the right figure. Here, you can back up the current settings of the router.

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5.1.2 Click "Update" to display the window shown in the right figure.

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Here, you can restore the router settings from the backup file.

5.1.3 Click "Restore Default" to display the window shown in the right figure.

Click "Restore Default Settings" to restore the default settings before device delivery.

Caution: After restoring the default settings, you need to reboot the router to activate this modification.

- 5.2. System log
  - 5.2.1 Click "System Log" to display the window shown in the right figure.
  - 5.2.2 Click "View System Log" to display the window shown in the right figure.

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- 5.2.3 Click "Configure System Log" to display the window shown in the right figure.
- 1) Log: Enable; Disable
- Log Level: Selecting the required level, Debugging by default.
- Display Level: Error by default.
- Mode: Local by default. If you select "Remote" or "Local/Remote", the system transmits the log UDP packets to your log server. Click "Save/Apply".

#### 5.3. SNMP agent

5.3.1 Click "SNMP Tool" to display the window shown in the right figure. You can enable or disable the SNMP agent here.

> If you click "Enable", you need to set the values in "Read Community", "Set Community", "System

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# **Tenda**°

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Name", "System Location", "System Contact" and "Trap Manager IP".

### 5.4. Internet time

5.4.1 Click "Internet Time" to display the window shown in the right figure. If you enable this function, the system can automatically obtain the time when accessing the Internet.

#### 5.5. Access control

- 5.5.1 Service
- Click "Access Control" to display the window shown in the right figure. You can enabledisableFTP/HTTP/ICMP /SNMP /SSH/TELNET/TFTP.

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 Click "Save/Apply" to activate the settings

#### 5.5.2 IP address

- Click "IP Address" to display the window shown in the right figure. Here, you can add/delete items. Access Control Mode: Enable; Disable. When you enable it, the IP address allowed can access the management page.
- Click "Add" to display the window shown in the right figure. You can enter an IP address, which is allowed by the system for accessing the management page. Click "Save/Apply" to activate the settings.

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- 5.5.3 Password
- Click "Password" to display 1) the window shown in the right figure. Here, you can modify the password for logging in to the management page. Enter the former login password, and then the new login password. If the former login password is correctly entered, you can click "Save/Apply" to successfully modify the login password. Caution: For the sake of security, we highly recommend you to change the initial user name and password. Click "Save/Apply" to
- 2) Click "Save/Apply" to activate the modification.
- 5.6 Software update

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5.6.1 Click "Update Software" to display the window shown in the right figure. Click "Browse" to select your update file, and then click "Update Software".

# Table 2017 - Specific Section 2017 - Specific Section

- 5.7 Save/reboot
  - 5.7.1 Click "Save/Reboot" to display the window shown in the right figure. Rebooting device can activate the changed settings. However, the ADSL connection is automatically interrupted before the reboot.

