

User Guide



AV1000 Gigabit Powerline Adapter

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Preface

Thank you for purchasing our product. This user guide will help you finish installation and configuration.

Technical Support

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Chapter 1 About the PLC Product

1.1 Overview

Gigabit Powerline adapter is designed for online video/audio player, web camera, IPTV and other high bandwidth applications. It adopts electrical circuit to transmit Internet data with electrical power, which in a sense reduces the Ethernet cable cost and easily extends network coverage to where the electrical power can get within the valid range. The rate of this powerline adapter is up to 1000Mbps, giving a guarantee of a more fluent online playing experience.

1.2 Package Contents

- > AV1000 Gigabit Powerline Adapter
- Install Guide
- Ethernet Cable

If any of the items above is missing or damaged, please contact the dealer for immediately replacement.





LED	Status	Description			
Off		The device is NOT receiving electrical power.			
Domon	Solid	The device is receiving electrical power correctly.			
Power	Blinking	The device is working in energy saving mode.			
2	Off	The device has not paired with other powerline adapter(s).			
PLC	Solid	The device has paired with a powerline adapter.			
	Blinking	The device is pairing with a powerline adapter.			
-	Off	Ethernet cable is connected improperly, or not connected.			
ظم LAN	Solid	Ethernet cable is connected properly, but no data is being transmitted.			
	Blinking	Transmitting data			



1.4 Interface/Button



LAN: For connecting to the Internet, a PC, or other network device via an Ethernet cable.

Pair/Reset: Press it for 1-3 seconds to pair with other adapters; and press it for more than 6 seconds, the PLC LED will blink 3 times continually and the adapter restores to factory default settings.

1.5 Installation Notes

Read this guide before you operate this device, pay close attention to below notes.

- ➤ Make sure that there are no flammable objects or conductive objects around the device.
- The device will produce amount of heat during its running. Please make sure it is placed in a well-ventilated environment and keep it away from water or any other liquid.
- > DO NOT expose the device to the sun or other strong heat source directly.
- DO NOT expose the device to corrosive substances (such as acid and alkali, etc.).
- > DO NOT place any object on the device.
- Keep ventilator clean and unblocked. The foreign substances may cause short circuit, even worse, cause fire or damage to the device.



- If you plug the powerline adapter into an outlet of a power strip, for better performance, ensure no other devices like hair drier, electric iron, or fridge are connecting to the same power strip.
- > Remember to unplug the device from power supply when:
 - 1) In a lightning and storm weather.
 - 2) You are ready to clean the device.
 - 3) The device is out of use.
- > Without professional help, do not open the device's shell/outer case.



Chapter 2 Hardware Installation

After finishing this part settings, you can get to the Internet.

Attention

Do not use the Powerline adapter in this way (vents straight down):



The powerline adapter can only be used in this direction:





2.1 Preparation

Before connecting, please prepare the followings:

➤ At least two Powerline adapters

> Ethernet cables for connecting to the Internet, PC, etc.

 \succ User client, such as PC (desktop or laptop), and set-top box to enjoy Internet experience. (not included in the package)

2.2 Connection

The followings are two application examples. Take the corresponding one to refer according to your needs.

A. PC Application Connection

Scene Reconstruction:

You live in a two-story house. And you have a networked router which is placed on the first floor, a desktop PC located on the second floor, and two powerline adapters not installed. You want to connect the PC to the networked router for Internet access without long and complex cabling. Now you can make the PC access the Internet through powerline adapters.

Procedure:

Step 1: Connect the LAN port of Adapter 1 (Powerline Adapter 1) to a LAN port of networked router using an Ethernet cable. And then plug the adapter to a power socket.





Step 2: Connect the LAN port of Adapter 2 (Powerline Adapter 2) to the network interface of your desktop PC using an Ethernet cable. And then plug the adapter to a power socket.





Step 3: Once both two adapters are connected to the same power electrical circuit, they are pairing with each other automatically. When both PLC LEDs display solid, the two adapters can access the Internet.



Step 4: If you cannot access the Internet after above connection, configure your PC to Obtain an IP address automatically and Obtain DNS server automatically. Please refer to <u>Appendix 1 Configure Your</u> <u>PC</u> for details.

B. Set-top Box Application Connection

Scene Reconstruction:

You live in a two-story house. You have a set-top box and a TV which are located in the sitting room of the second floor, and a networked router which is located on the first floor. Now you want to enjoy an online movie.

Precedence:

Step 1: Connect the LAN port of Adapter 1 (Powerline Adapter 1) to the LAN port of networked router using an Ethernet cable. And then plug the adapter to a power socket.



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Step 2: Connect the LAN port of Adapter 2 (Powerline Adapter 2) to the network interface of set-top box using an Ethernet cable. And then plug the adapter to a power socket.





Step 3: The two adapters will automatically negotiate with each other once

you turn on them. When LEDs on both adapters display solid, it indicates that the two adapters have paired with each other successfully and you can enjoy an online movie now.



襸 Tip

After the cable connection, you may need to configure your IPTV for specific application. Please refer to your manual guide of IPTV.

2.3 Verify Physical Connection

If cable connection and PC/IPTV configurations are successfully finished, and you still cannot share an Internet playing. You need to check the followings:

- Connection to power supply: If U LED displays normal, it indicates the powerline adapter connects to power source correctly; if not, please check.
- ➤ LAN connection: If LED displays normal, it indicates the powerline adapter has connected to a device like a PC, or a router, etc.
- PLC connection: If A LED displays normal, it indicates the powerline adapter has paired with other powerline adapter(s) successfully. If not, please reset the powerline adapter to factory default.



Chapter 3 Management Software

3.1 UI Installation

This section instructs how to install the device's UI.

If you are a Windows 8 user, simply follow steps below. If you are using other operation systems, instructions herein are also good for your references. **PLC-Config Installation:** (Make sure that you have downloaded P1000 management software from http://www.tendacn.com)

1. Double click setup.exe file you have downloaded from our website to run P1000 management software.

🗾 setup.exe

2. Click **Next** on below screen.





3. After you read the license agreement shown as below, and then select "I accept the agreement" and click Next.

ß	Setup - PLC-Config -		×
	License Agreement Please read the following important information before continuing.	Ő	
	Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.		
		^	
		•	
	Tenda Powerline Utility for Windows XP/Vista/Win7/Win8 Copyright (C) Tenda TECHINOLOGY, CORP. All Rights Reserved.		
	Thank you for purchasing Tenda Powerline product!	v	
	● I accept the agreement		
	\bigcirc I do not accept the agreement		
	< Back Next >	Cano	cel

4. Click **Browse...** on below screen to locate where to install and click **Next** to go forwards.





5. Keep clicking **Next** till below screen displays. And then check **Create a desktop icon** and click **Next**.



6. Click Install to install PLC-Config.

1	Setup - PLC-Config -	×
	Ready to Install Setup is now ready to begin installing PLC-Config on your computer.	
	Click Install to continue with the installation, or click Back if you want to review or change any settings.	
	Destination location: C:\Program Files\PLC-Config Start Menu folder: PLC-Config Additional tasks: Additional icons: Create a desktop icon	^
		Concel
		Cancer



7. WinPcaP Setup Wizard will be displayed as below. Click Next to go forwards.



8. Click I Agree.

🗑 WinPcap 4.1.3 Setup	_ □	×
VinPeap License Agreement Please review the license terms before installing W	nPcap 4.1	l.3.
Press Page Down to see the rest of the agreement.		
Copyright (c) 1999 - 2005 NetGroup, Politecnico di Torino (Italy). Copyright (c) 2005 - 2010 CACE Technologies, Davis (California). Copyright (c) 2010 - 2013 Riverbed Technology, San Francisco (California). All rights reserved.		^
Redistribution and use in source and binary forms, with or without modification, permitted provided that the following conditions are met:	are	
 Redistributions of source code must retain the above copyright notice, this lis conditions and the following disclaimer. Redistributions in binary form must reproduce the above copyright notice, thi 	t of slist of	~
If you accept the terms of the agreement, dick I Agree to continue. You must ac agreement to install WinPcap 4.1.3.	cept the	
Vullsoft Install System v2.46		
< Back I Agree	Cano	el





(WinPcap 4.1.3 Setup	— ×
WinPcap	Installation options Please review the following options before insta 4, 1, 3	alling WinPcap
☑ Automatically start th	e WinPcap driver at boot time	
Nullsoft Install System v2.46 -	< Back Install	Cancel

10. Click Finish.





11. Click Finish to complete the PLC-Config setup wizard.



12. To run the utility, simply double c	clic
---	------

on your desktop.

3.2 Device List

This section instructs you how to configure advanced settings on the P1000 utility by using PLC-Config. Besides, you can also view other powerline adapters and their link rates on the powerline network.



PLC-Config icon on your desktop to After the utility is installed, double-click start the configuration of powerline adapters. The main interface is shown as below:

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Tenda			? – ×
Device List	.⇒ ۞	Device Info	
Name:PLC Adapter (CCO) (Local) MAC:c8:3a:35:a1:07:33			ateria
Name:PLC Adapter MAC:c8:3a:35:a1:07:31 Rate(Tx/Rx):732 Mbps / 699 Mbps		1	-
· · · · · · · · · · · · · · · · · · ·		Device Name:	PLC Adapter
		Network Name:	HomePlugAV
		MAC Address:	c8:3a:35:a1:07:33
		Up Time:	00:10:42
		Software Version:	3.1.4_US

In the Device List, you can view the adapters under the same electrical circuit which have negotiated with each other.

Knowledge Center

- CCO: Displays the adapter for managing other adapters within a powerline network. When attempting to connect to each other, adapters automatically negotiate with each other to select an adapter as CCO.
- Device Name: Displays the name of adapter. The default name is PLC Adapter.
- HomePlugAV: Displays local powerline network name. To establish a powerline network, powerline adapters must share an identical network name. Based on the network name, the powerline network is classified into 2 types: a public network, which is named "HomePlugAV"; and a private network, which is not named "HomePlugAV".
- > MAC Address: Displays MAC address of adapter.

3.3 Change Device Name

For better management, you can change the adapter's name if there are multiple adapters managed by Utility.



1.

Configuration Procedure:

- Click 💿 –
- to start configuration.
- 2. Select Change Device Name.

vice List	© -	Device Into	
Name.PLC Adapt	Change Device Name		
MAC:c8:3a:05:a1	Change Network Name		
Name:PLC Adapt MACrc8:3a:35ra1	🐑 QoS		-
Rate(Tx/Rx):754	🛞 Reset	Device Name:	PLC Adapter
	₫ Upgrade	Network Name:	HomePlugAV
		MAC Address:	c8:3a:35:a1:07:33
		Up Time:	00:47:21
		Software Version.	3.1.4_US

- 3. Select the adapter whose name you want to change.
- 4. Specify a new name in the Device Name edit box.



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Device List	© -	Device Info	
Name:PLC Adapter (CCO) (Local) MAC:c8:3a:35:a1:07:33			and the second second
MAC:c8:3a:35:a1:07:31 Rate(Tx/Rx):708 Mbps / 722 Mbps			-
		Device Name:	PLC Adapter
		Network Name:	HomePlugAV
		MAC Address:	c8:3a:35:a1:07:33
		Up Time:	01:03:53
		Software Version:	3.1.4_US
Select All Device Name: PLC Ad	apter	OK	Cancel

5. Click OK.

🧳 Tip

You can click Select All to change adapter names uniformly.

3.4 Change Network Name

Only adapters with the same network name can form a network. Note that keep all adapters with the same network name if you want to form a network.

Configuration Procedure:

- 1. **Click** to start configuration.
- 2. Select Change Network Name.





Tenda			2 – X
Device List	Ø -	Device Info	
Name-PLC Adapt	Change Device Name		
MAC:c8:3a:36:a1	Change Network Name		1
Name.PLC Adapt MAC:c8:3a:35:a1	🕙 QuS		P
Rate(Tx/Rx):/53	🛞 Reset	Device Name:	PLC Adapter
	🏝 Upgrade	Network Name:	HomePlugAV
i.		MAC Address:	c8:3a:35:a1:07:33
		Up lime:	01:21:18
		Software Version:	314_US

3. Specify a new network name in Network Name edit box. It is recommended to keep adapters you want to form a network with the same network name.

Tenda			? - ×
Device List	() =	Device Info	
MamerPLC Adapter MAC(c8:3a:35ra1:07:31		1	
Name.PLC Adapter (CCO) (Local) MAC:c0:3a:35:a1:07:33 Rate(1x/Hx):736 Mbps / 730 Mbps		Device Name: Notwork Namo: MAC Acdress:	PLC Adapter HomePlugAV c8:3a:35:a1:07:31
		Up lime:	01:31:17
		Software Version:	314_US
SelectAl Network Name. HomePl	VAçu	ОК	Cancel
Use the default(I lomePlugAV)			

4. Click **OK**.



🏹 Tip

After successful network name configuration, "Private" will be displayed as Network Name, which means it is a private network.

evice List	<u>ن</u>	Device Into	
Name:PLC Adapter MAC:c8:3a:35:a1:07:31 Rate(Tx/Rx).753 Mbps / 733 Mbps			-
Name:PLC Adapter (CCO) (Local) M/(C:c8:3a:35 a1 07:33		Device Name:	PLC Acapter
		Network Name:	Private
		MAC Address:	cB:3a:35:a1:07:33
		Up Time:	00:01:23
		Software Version.	3.1.4_US

3.5 QoS

QoS prioritizes bandwidth-intensive and latency-sensitive applications and services such as Internet/IPTV/audio/video/VoIP/online game services, guaranteeing high reliability and least latency in real-time transmission of such data.

Configuration Procedure:

- 1. Click to start configuration.
- 2. Select QoS.



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Tenda		? – ×
Device List	Ø ▼ Device info	
Name: PLC Adap MAC: c8:3a:35:a1 Rate(Tx/Rx):543	Name k Name	0
MAC c8:3a:3b:a1	Device Na Network Na	me: PLC Adapter ame: Private
	MAC Addre Up Time: Software V	ess: c8:3a:35:a1:07:33 C0:21:67 /crsion: 3.1.4_US
Sclect All GoS: Nene	~	OK Gancel

3. Extend the drop-down list and select the application you want to give a priority to, like "Surfing".

Tenda			? - ×
Device List	Ø =	Device Info	
Name:PLC Ac MAC:c8:3a:35 Rate(Tx/Rx).6	lapter :a1:07:31 85 Mops / 713 Mops		-
Name:PLC Ac MAC:c8:3a:36	lapter (CCC) (Local) :a1:07:33	Device Name: Network Name:	PLC Adapter HomePlugAV
		MAC Address: Up Time:	c8:3a:35:a1:07:33 00:01:44
		Software Version:	3.1.4_US
🔲 Select All	QoS: None None	• ОК	Cancel
Version:1.1.2	Surfino IPTV Audio/Video VoIP Gatters		www.tendacn.com



4. Click OK.

Knowledge Center

- Surfing: Select it to prioritize HTTP data and improve Internet surfing experience. (Note: Applications/services such as web video and web gaming, etc., which using HTTP protocol will also be prioritized.)
- IPTV: Select it to prioritize IPTV data. The device supports RTSP-compliant IPTV data prioritization. However, some IPTV devices from other manufacturers may not adopt the RTSP protocol. So if the device does not prioritize IPTV data from your IPTV device, consult your manufacturer for the protocol and port info and send it to our technical staff so that we can include it in later version for better compatibility.
- > Video/Audio: Select it to prioritize video/audio data streaming.
- VoIP: Select it to prioritize VoIP data. The device supports SIP-compliant and H.32 3-compliant data prioritization. However, some VoIP devices from other manufacturers may use different protocols other than the above two. So if the device does not prioritize VoIP data from your VoIP device, consult your manufacturer for the protocol and port info and send it to our technical staff so that we can include it in later version for better compatibility.
- Games: Select it to prioritize and smooth gaming traffic. Please be noted that not all gaming traffic can be prioritized due to limited QoS entries.

3.6 Reset

Device name will be PLC Adapter, and network name will be HomeplugAV once the device resets to factory default.

Reset config:



to start configuration.

2 Select Reset.



	Tenda			? - ×
Dev	ice List	Ø -	Device Info	
	Name: PLC Adapt MAC c8 3a 35 a1 Rate(Tx/Rx):721	 Change Device Name Change Network Name 		
12	Name: FLC Adapt	🐑 QoS		-
		🚱 Reset 💽	Device Name:	FI C Adapter
		🏥 Upgrade	Network Name:	Private
			MAC Address:	c8:3a:35:a1:07:33
			Up Time	00 56 16
			Software Version:	3.1.4_US
	Select Al	QoS: None	✓ OK	Cancel

3 Select the adapter you want to reset or you can click Select All.

© =	Device Info	
al)		-
's	Device Name:	PLC Adapter
	Network Name:	Private
	MAC Address	c8:3a:35:a <mark>1:07:31</mark>
	Up Time:	01:00:39
	Software Version:	3.1.4_US
	() = () s	Device Info Device Name: Network Name: MAC Address: Up Time: Software Version:



.



Pevice List	(2)	Device Info	
Name: PLC Adapter (CCO) MAC:c0:3a:35:a1:07:31 Rate(1x/Rx):695 Mbps / 691 Mbps			
Name PLC Adapter (Local) NAC r.8 3a 35 at 07:33		Device Name Network Name:	PI C Adapter Private
		MAC Address.	c8.3a.35.a1.07.33
		Software Version	3.1.4_US

5 Click **Yes** on the popup dialog.

Factory Reset	×
Do you want to reset the adapter to factory defaults?	
Yes(Y) No(N)



3.7 Upgrade

Upgrading the management software may get new functions. Please go to our website (http://www.tendacn.com) to download upgrade file.

Upgrade Procedure:

0

1. Click

to start configuration.

2. Select Upgrade.

evice List	÷ @	Device info	
MAC c8 3a 35 a1 Rate(Tx/Rx):751	Change Device Name Change Network Name		
Name:PLC Adap	🕘 QoS		F.
	👸 Reset	Device Name:	PI C Adapter
	🏝 Upgrade 📡	Network Name:	Private
		MAC Address:	c8:3a:35:a1:07:33
		11p Time	00 38 10
		Software Version:	3.1.4_US

3. Click Browse to locate and upload the upgrade file you have downloaded.



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Tenda			? – 🗙
Device List	⇒ ۞	Device Info	
Name:PLC Adapter (CCO) (Local) MAC:c8:3a:35:a1:07:33 Rate(Tx/Rx):684 Mbps / 733 Mbps			and a large
Mame:PLC Adapter MAC:c8:3a:35:a1:07:31			m
		Device Name:	PLC Adapter
		Network Name:	Private
		MAC Address:	c8:3a:35:a1:07:31
		Up Time:	00:49:08
		Software Version:	3.1.4_US
Upgrade			Cancel
opgrade		OWSIN OK	Cancer

4. Click **OK** to start upgrading.



Chapter 4 Using the Pair Button

This section presents how to use the Pair hardware button to create a secure Powerline network.

襸 Tip

Two or more powerline adapters under the same electrical circuit will automatically interconnect to create an unencrypted public network (Named "HomePlugAV").

A. To create an encrypted private network between two adapters (Adapter 1 and Adapter 2), do as follows:



Configuration Procedure:

- Press the Pair button on Adapter 1 for 1-3 seconds and then release it. The Adapter 1 will start blinking.
- 2. Within 2 minutes upon releasing Adapter 1's Pair button, press the Pair button on Adapter 2 for 1-3 seconds and then release it. The LED on the Adapter 2 will start blinking.



3. Observe the two adapters' LED status. If both **Conduct** LEDs on the two adapters display solid, it indicates an encrypted private powerline network is successfully created between Adapter 1 and Adapter 2.

B. To add more adapters to the encrypted private network, do as follows:



Now Adapter 1 and Adapter 2 have created a network, say Network1, and you're trying to add Adapter 3 to this network, do as follows:

- 1. Press the Pair button on Adapter 1 (or Adapter 2) for 1-3 seconds and then release it. The final LED starts blinking, which indicates it is waiting for other powerline adapter to join Network1.
- 2. Within 2 minutes upon releasing Adapter 1's (or Adapter 2's) Pair button, press the Pair button on Adapter 3 for 1-3 seconds and then



release it. The LED on Adapter 3 starts blinking, which indicates that it is negotiating with other adapter.

3. Observe the three adapters' LED status. If all in LEDs on three adapters display solid, that indicates Adapter 3 has joined Network1 successfully.

C. To disconnect an adapter from the existing powerline network, do as follows:

As displayed above, a private powerline network has been created within Adapter1, 2 and 3. And now you want to disconnect Adapter 3 from Network1. Do as follows:

Press the Pair button on Adapter 3 for at least 6 seconds and then release it.

The fine LED on Adapter 3 will blink three times, which indicates the Adapter 3 will exit from Network 1, reset to the default settings and restart.



Appendix 1 Configure Your PC

Windows 8

Step 1: Right click the icon **a** on the bottom right corner of your desktop.

Step 2: Click Open Network and Sharing Center.



Step 3: Click Ethernet -> Properties.

		Network an	d Sharing Cente	er		- C X
I (⊕) = ↑ 👿 + Contro Control Panel Listne Change adapter settings	el Panel 🕨 Network and D General	Ethernet E Neb	work and Sharing C tus	enter X Corrine	v o > -ctions	eerch Control F ,0
Charge advanced shaling settings	Connection L +1 Connectivity 19-6 Connectivity Nexts State: Duration: ::pood: Details. Activity Svites:	Sent — 📕 2.075.511 🕅 Tsabe	No Internet acc No Internet acc Brad 02:15 100.0 M 100.0 M 1,273,8 Nagnose	ess stype aux nection: Isul 211 2005 21. up of 21. up of 21. up of 21. up of 21. up of 22. up of 23. up of 24. up of 25. up of	y <u>No Internet</u> of Efficience	cc35
See also			d	lose		



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

)	Ethernet Prop	perties		
Networking				
Connect us	ing:			
👰 Real	ek PCIe FE Family Controlle	er		
			<u>C</u> onfigure	·
This conne	ction uses the following item	ns:		
	e and Printer Sharing for Mi crosoft Network Adapter Mi crosoft LLDP Protocol Drive ki-Layer Topology Discover iki-Layer Topology Discover emet Protocol Version 6 (Tr emet Protocol Version 4 (T	crosoft N ultiplexor er ny Mappe ny Respor CP/IPv6) CP/IPv4)	etworks Protocol r I/O Driver nder	^
Insta	I Uninstall		Properties	5
Descriptio Transmis wide are across d	in sion Control Protocol/Intern a network protocol that pro- verse interconnected network	net Protoc vides con orks.	col. The defau	lt
	[ок	Ca	ancel

Step 5: Select Obtain an IP address automatically and Obtain DNS server

address automatically and click OK.

General	Alternate Configuration				
You car this car for the	n get IP settings assigned a ability. Olf erwise, you net appropriate IP settings.	eutomatically i ed to ask you	fycur i netwo	network s rkaunini	upports Strator
	ntain an 1P address automa	etcally			
OL	e the following IP address	;			
IP ec	ldr e ss:	S	1.19	1.1	
Subr	et mask:				
Defa	ult gateway:		1	Si .	
() (i	blain DNS sarver address a	adoratedly			
()U:	ic the following DNS server	r addresses:			
Pref	erred DN5 server	1		- 28	
plter	mate DNS server:	1	-	1	1
V	aidate settings upon exit.			Adva	inced

Step 6: Click **OK** on the **Ethernet Properties** window (see **Step 4** for the screenshot).





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

Step 2: Click Open Network and Sharing Center.





If you cannot find the icon an on the right bottom corner of your desktop, follow steps below: Click Start -> Control Panel -> Network and Internet -> Network and Sharing Center.

Step 3: Click Local Area Connection -> Properties.



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Step 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						
Uninstall Uninstall Properties						
Description Transmission Control Protocol /Internet Protocol The default						
wide area network protocol that provides communication						
across diverse interconnected networks.						
OK Cancel						



Step 5: Select Obtain an IP address automatically and Obtain DNS server

address automatically and click OK.



Step 6: Click OK on the Local Area Connection Properties window (see Step 4 for the screenshot).



Windows XP

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



Step 2: Right click Local Area Connection and select Properties.

* 1*
Disable
Status
Repair
Bridge Connections
Create Shortcut
Delete
Rename
Properties
Rename Properties

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



onn	ect using:					
¥)	Marvell Yuk	on 98E	8057 PCI-	E Gigabi		Configure
his	connection u	ses the	following	tems:		
~	Client for	Microso	ft Networ	ks		
N	File and f	Printer S	haring for	Microsoft	Netwo	orks
	a uos Pac	ket Sch	eduler (TOD AD)			
-	• Internet i	1010001	(IGEVIE)			
	Install		Unins	lall		Properties
De	cription					
Tr wi ac	ansmission Ci de area netw ross diverse i	ontrol Pr ork prot ntercon	otocol/Ini ocol that p nected ne	ternet Prot provides c stworks,	ocol " ommu	The default nication
	w icon in n	otificatio	in area wi	hen conne	cted	
A 3	tifu me wher	n this co	nnection	has limited	l or no	connectivity
	any me miler					

Step 4: Select **Obtain an IP address automatically** and **Obtain DNS server address automatically** and click **OK**.

eneral	Alternate Configuration	
r'ou car his cap he app	n get IP settings assigne ability. Otherwise, you n ropriate IP settings.	d automatically if your network supports eed to ask your network administrator for
⊙ Ol	stain an IP address autor	matically
OU	e the following IP addre	\$\$
IP address;		1 14 14 14 T
Subnet mask:		
Defa	ult gateway:	1 14 14 14
⊙ 0ł	tain DNS server addres	s automatically
OU	e the following DNS ser	ver addresses:
Prefe	ared DNS served	
Alten	nate DNS server	1 1 1 1 T
		Advanced.

Step 5: Click **OK** on the **Local Area Connection Properties** window (see **Step 3** for the screenshot).



Appendix 2 FAQs

Here some questions come with solutions. If your problem is still unsolved, please go to our website (<u>www.tendacn.com</u>) for help or mail your questions to our support (*support@tenda.com.cn*).

Q1: What is powerline networking?

A1: Powerline network technology upgrades your existing electric wiring, enabling transmission of both network data and electric power in a single powerline at a high speed of up to 1000Mbps. It characterizes low cost, high-speed and better stability without new network cable required.

Q2: Can a single powerline adapter establish a powerline network?

A2: Sorry, it cannot. A minimum of two powerline adapters are required. One is used to connect to an ADSL Modem or Router, and the other is to a PC.

Q3: Can I just plug one powerline adapter into a wall outlet to access the Internet?

A3: Sorry, you cannot. You must connect one more such adapter to an Internet-enabled ADSL Modem or Router, and another one to a PC. When the two adapters interconnect successfully, you can access the Internet.

Q4: Do I need to install a utility to use the device?

A4: No. The device is plug-and-play powerline adapter. Two such devices connected to the same electricity meter are able to interconnect automatically, no configuration required. Yet, there is still an included utility for advanced features such as QoS, private network, etc. See **User Guide** for details.

Q5: How many powerline adapters at most can be included under a single electricity meter?

A5: Up to 9 adapters. However, you can create numerous private networks under the same electrical circuit.

Q6: What is the maximum distance that two powerline adapters can transfer?

Tenda

AV1000 Gigabit Powerline Adapter

A6: Up to 300m can be reached with least interference. However transmission rate decreases gradually beyond 100m.

Q7: What main advantages does a powerline adapter have over a wireless device?

A7: The powerline adapter is a plug-and-play device, requiring no configuration. While, wireless signal not only is easily to be affected adversely by obstacles like walls and ceilings but also delivers harmful electromagnetic wave.

Q8: Can powerline devices of different brands communicate with each other? **A8**: Yes. This Tenda powerline adapter complies with HomePlugAV standard and thus can communicate with other manufacturers' HomePlugAV-compliant powerline devices.

Q9: Will the powerline network get disconnected upon blackout?

A9: Yes. The powerline network delivers data over electric wiring via electricity. Without presence of electricity, data transmission by powerline adapters is impossible.

Q10: Would it be dangerous to use the powerline adapter in a thunderstorm? **A10**: The adapter's internal thunder-/lightning-proof facility protects PC or other devices connected from any potential and harmful thunder or lightning attacks even when the building where the adapter lies is unfortunately thunderstorm-struck.



Appendix 3 Technical Specifications

Hardware Specifications						
Standards		RJ45: IEEE 802.3, IEEE 802.3u; IEEE 802.3ab PLC: HomePlugAV2				
Max Transmi Distance	ission	300m powerline				
Max Number adapters (und electricity me	of powerline ler a single ter)	Up to 9				
Compatibility	7	HomePlugAV IEEE1901				
Transmission	Rate	PLC:1000Mbps; RJ45:10/100/1000Mbps				
Button		1*Pair/Reset				
LEDs		1*Power LED 1*PLC LED 1*LAN LED				
Input Power		AC 100V-240V 50/60Hz				
	L (mm)	82				
Dimensions	W (mm)	60				
	H (mm)	54.5				
Security		128-bit AES encryption				
Operating Te	mperature	0°C~40°C				
Storage Temp	erature	-40°C~70°C				
Operating Hu	ımidity	10%~90%RH Non-condensing				
Storage Hum	idity	5%~90% RH Non-condensing				



Appendix 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.

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.



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 when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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 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.

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.