TP-LINK®

User Guide

TC-7620 DOCSIS 3.0 High Speed Cable Modem



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FCC STATEMENT

FC

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

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.
- 2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Safety Information

- When product has power button, the power button is one of the way to shut off the product; when there is no power button, the only way to completely shut off power is to disconnect the product or the power adapter from the power source.
- Don't disassemble the product, or make repairs yourself. You run the risk of electric shock and voiding the limited warranty. If you need service, please contact us.
- Avoid water and wet locations.
- Adapter shall be installed near the equipment and shall be easily accessible.
- The plug considered as disconnect device of adapter.

Explanation of the symbols on the product label

Symbol	Explanation
	DC voltage
	RECYCLING This product bears the selective sorting symbol for Waste electrical and electronic
	equipment (WEEE). This means that this product must be handled pursuant to European directive 2012/19/EU in order to be recycled or dismantled to minimize its impact on the environment.
	User has the choice to give his product to a competent recycling organization or to the retailer when he buys a new electrical or electronic equipment.

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Package Contents

The following items should be found in your package:

- > One cable modem
- > One power adapter for the cable modem
- > One RJ45 cable
- > One Quick Installation Guide
- One Information Card

Note:

Make sure that the package contains the above items. If any of the listed items are damaged or missing, please contact with your distributor.

Chapter 1. Introduction

Thank you for choosing the TC-7620 DOCSIS 3.0 High Speed Cable Modem.

1.1 Product Overview

TP-LINK's TC-7620 DOCSIS 3.0 High Speed Cable Modem is designed for delivers ultra-high speed data through coax used in HFC networks. It's an incredibly robust device allowing users to access Internet with over 600 Mbps downstream data rates, 120 Mbps upstream data rates and share it with a Gigabit Ethernet port.

This modem complies with DOCSIS 3.0, supports channel bonding of up to 16 downstream channels and 4 upstream, combined with Enhanced security of AES encryption, IPv4 and IPv6 dual stack, make it future-Proof.

1.2 Main Features

- Complies with DOCSIS 3.0 and backwards compatible to DOCSIS 1.0, 1.1 and 2.0 provides users comprehensive network compatibility
- Channel bonding of up to 16 downstream channels and 4 upstream channels provide data rates over 600 Mbps for downstream, and 120 Mbps for upstream
- > IPv4 and IPv6 dual stack make it future-Proof
- > Gigabit port ensure ultimate fast transfer speeds
- Remotely configurable and monitorable using TFTP
- > Well-defined LEDs clearly display device and network status
- Quick and hassle free installation

1.3 Conventions

The modem or device mentioned in this User Guide stands for TC-7620 without any explanations. Parameters provided in the pictures are just references for setting up the product, which may differ from the actual situation.

Chapter 2. Hardware Installation

2.1 Front Panel



The modem's LEDs are located on the side panel (View from top to bottom). They indicate the device's working status. For details, please refer to LEDs Explanation.

LEDs Explanation:

Name	Status	Indication	
ڻ ا	Off	The modem is powered off.	
(Power)	On	The modem is powered on.	
	Off	The initialization is not started, or has failed.	
Ŭ	White	The modem is synchronized with one channel.	
(Downstream)	Green	The modem is synchronized with more than one channel.	
	Flashing	The modem is scanning for downstream channels.	
	Off	The initialization is not started, or has failed.	
9	White	The modem is synchronized with one channel.	
(Upstream)	Green	The modem is synchronized with more than one channel.	
	Flashing	The modem is scanning for upstream channels.	

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Name	Status	Indication
Ø	Off	Internet service is not available.
Ŭ	On	Internet service is available.
(Internet)	Flashing	The modem is initializing.
	On	The LAN port is connected.
Ū	Off	The LAN port is not connected.
(LAN)	Flashing	The LAN port is sending or receiving data.

2.2 Back Panel



- Reset: With the modem powered on, use a pin to press and hold the Reset button until all LEDs turn on momentarily. And the modem will be reset to its factory default settings.
- LAN: Through this port, you can connect the modem to your PC or the other Ethernet network device.
- **Cable:** Through this port, you can connect the modem to coaxial cable.
- > **Power**: The power plug where you will connect the power adapter.

2.3 Installation Environment

- > The product should not be located where it will be exposed to moisture or excessive heat.
- Place the modem in a location where it can be connected to the various devices as well as to a power source.

- Make sure the cables and power cord are placed safely out of the way so they do not create a tripping hazard.
- > The modem can be placed on a shelf or desktop.
- Keep away from the strong electromagnetic radiation and the device of electromagnetic sensitive.

Chapter 3. Quick Start

3.1 System Requirements

- > Broadband Internet Access Service (Cable).
- > PCs with a working Ethernet Adapter and an Ethernet cable with RJ45 connectors.
- > TCP/IP protocol on each PC.
- > Web browser, such as Microsoft Internet Explorer, Mozilla Firefox or Apple Safari.

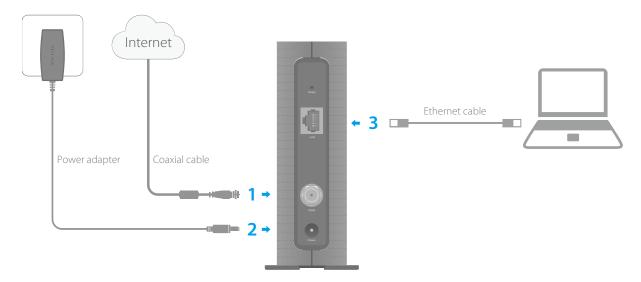
3.2 Connecting the Hardware

Before installing the device, please make sure your broadband cable service provided by your ISP is available. If there is any problem, please contact your ISP. Before cable connection, cut off the power supply and keep your hands dry. You can follow the steps below to install it.

- 1. Connect the coaxial cable to the modem.
- 2. Connect the power adapter to the modem.
- 3. Connect your computer to the modem using an Ethernet cable.
- 4. Wait until the Internet LED Ø turns solid on. The modem has synchronized with your ISP's server.

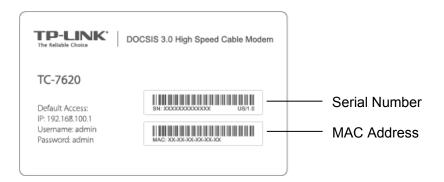
Note:

- 1. If the Internet LED is blinking or off after about 1 minute, call your ISP's customer service.
- The product should be connected to cable distribution system that grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93 - Grounding of Outer Conductive Shield of a Coaxial Cable.



3.3 Activating the Cable Modem

1. Get your Internet service account information and the modem's Information Card ready.



- 2. Make sure your computer is set to dynamically obtain an IP address.
- 3. Launch a web browser, and visit any website. You will be automatically redirected to your ISP's self-activation page.

If the self-activation page does not show up, call your ISP's customer service.

For Comcast and Time W	arner Cable (TWC):
Comcast Xfinity	1-800-934-6489	www.comcast.com
Time Warner Cable	1-855-704-4503	www.timewarnercable.com
The contact information monthly Internet service b	0 0	e. You can also find the contact number in your

4. Follow the on-screen instructions to activate the modem, and wait for about 10 minutes till the

LEDs $\overleftarrow{\mathbf{b}}$ \mathbf{P} \mathbf{O} become solid on.

5. Now you can use your computer to surf the Internet.

If you want to share the Internet access, connect a router to the modem instead. You need to reboot the modem to get the router connected to the Internet.

Note:

- 1. If the Internet is not accessible, contact your ISP and make sure that the modem is activated.
- 2. For advanced configuration, log into the modem's web interface at http://192.168.100.1, and enter admin (all lowercase) for both username and password when prompted.

Chapter 4. Software Configuration

This User Guide recommends using the Quick Installation Guide for first-time installation. If you want to know more about this device, maybe you will get help from this chapter to configure the advanced settings through the Web-based Utility.

4.1 TCP/IP Configuration

The default IP address of the modem is 192.168.100.1. And the default subnet mask is 255.255.255.0. We use all the default values for description.

Connect the local PC to the LAN port of the modem. And then you can configure your PC in the following way.

- 1) Set up the TCP/IP Protocol in **"Obtain an IP address automatically**" mode on your PC. If you need instructions as to how to do this, please refer to <u>Appendix C: Configure the PC</u>.
- 2) Then the built-in DHCP server will assign IP address for the PC.

Now, you can run the Ping command in the command prompt to verify the network connection. Please click the **Start** menu on your desktop, select **run** tab, type **cmd** or **command** in the field and press **Enter**. Type **ping 192.168.100.1** on the next screen, and then press **Enter**.

If the result displayed is similar to the screen below, the connection between your PC and the modem has been established.

Pinging 192.168.100.1 with 32 bytes of data: Reply from 192.168.100.1: bytes=32 time<1ms TTL=64 Ping statistics for 192.168.100.1: Packets: Sent = 4, Received = 4, Lost = 0 <0% loss), Approximate round trip times in milli-seconds: Minimum = 0ms, Maximum = 0ms, Average = 0ms

If the result displayed is similar to the screen shown below, it means that your PC has not connected to the modem.

```
Pinging 192.168.100.1 with 32 bytes of data:
Request timed out.
Request timed out.
Request timed out.
Request timed out.
Ping statistics for 192.168.100.1:
Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),
```

You can check it following the steps below:

1) Is the connection between your PC and the modem correct?

The LAN LED on the modem and the LED on your PC's adapter should be lit.

2) Is the TCP/IP configuration for your PC correct?

Make sure the computer connected to the modem is set to dynamically obtain an IP address.

4.2 Login

To access the configuration utility, open a web-browser and type the default address **192.168.100.1** in the address field of the browser.

|--|

After a moment, a login window will appear. Enter **admin** for the Username and Password, both in lower case letters. Then click the **Login** button or press the Enter key.

A	Username Password	
ē	Login	

4.3 Basic

Under the **Basic** menu, you can see the system information, including the device information and network information.

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TP-LINK TC-7620	Basic A	dvanced 👸 💥
🐼 System Information	Device Information	
Device Information	Standard Specification Compliant	DOCSIS 3.0
Network Infomation	Hardware Version	V1.0
	Software Version	v1.0.0 Build 20150911 Rel345400
	Cable Modem MAC Address	C4:E9:84:F8:B6:D0
	Cable Modem Serial Number	TPLT001212363
	CM certificate	Installed

4.3.1 Device Information

Choose menu "Basic > Device Information", you can view the device information.

DOCSIS 3.0
V1.0
v1.0.0 Build 20150911 Rel345400
C4:E9:84:F8:B6:D0
TPLT001212363
Installed

4.3.2 Network Information

Choose menu "Basic > Network Information", you can view the network information.

etwork Information	
System Up Time	0 days 00h:04m:32s
Network Access	Allowed
Cable Modem IP Address	192.168.250.101

4.4 Advanced

Under the **Advanced** menu, you can see the system tools, including the connection status, account management, and system log.

TP-LINK		В	asic	Adv	anced		boot
🐼 System Tools	Startup P	rocedure	2				
Connection Status		Pro	ocedure		Status	Comn	nent
Account Management	Ac	quire Dow	nstream Chani	nel	843000000 Hz	Lock	ked
System Log		Connec	tivity State		ОК	Operat	ional
		Boo	ot State		ОК	Operat	ional
		Config	uration File		ОК	default_	sec.cfg
		Se	ecurity		Enabled	BPI	+
	Downstre	am Bon	ded Channel	s			
	Channel	Status	Modulation	Channel ID	Frequency	Power	SNR
	1	Locked	QAM256	16	843000000 Hz	1.7 dBmV	40.1 dB
	2	Locked	QAM256	1	753000000 Hz	2.6 dBmV	41.8 dB
	3	Locked	QAM256	2	759000000 Hz	3.0 dBmV	41.8 dB
	4	Locked	QAM256	3	765000000 Hz	3.1 dBmV	41.3 dB
	5	Locked	QAM256	4	771000000 Hz	3.3 dBmV	41.7 dB
	6	Locked	QAM256	5	777000000 Hz	1.1 dBmV	40.7 dB

4.4.1 Connection Status

Choose menu "Advanced > Connection Status", you can view the information of startup procedure, downstream bonded channels, upstream bonded channels, and time information.

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up Procedure		
Procedure	Status	Comment
Acquire Downstream Channel	843000000 Hz	Locked
Connectivity State	ОК	Operational
Boot State	ОК	Operational
Configuration File	ОК	default_sec.cfg
Security	Enabled	BPI+

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Channel	Status	Modulation	Channel ID	Frequency	Frequency Power	
1	Locked	QAM256	16	843000000 Hz	1.7 dBmV	40.1 dB
2	Locked	QAM256	1	753000000 Hz	2.6 dBmV	41.8 dB
3	Locked	QAM256	2	759000000 Hz	3.0 dBmV	41.8 dB
4	Locked	QAM256	3	765000000 Hz	3.1 dBmV	41.3 dB
5	Locked	QAM256	4	771000000 Hz	3.3 dBmV	41.7 dB
6	Locked	QAM256	5	777000000 Hz	1.1 dBmV	40.7 dB
7	Locked	QAM256	6	783000000 Hz	0.8 dBmV	40.4 dB
8	Locked	QAM256	7	789000000 Hz	0.3 dBmV	40.2 dB
9	Locked	QAM256	8	795000000 Hz	-0.1 dBmV	39.2 dB
10	Locked	QAM256	9	801000000 Hz	-1.1 dBmV	37.7 dB
11	Locked	QAM256	10	807000000 Hz	-0.7 dBmV	39.6 dB
12	Locked	QAM256	11	813000000 Hz	-0.3 dBmV	39.6 dB
13	Locked	QAM256	12	819000000 Hz	0.3 dBmV	40.0 dB
14	Locked	QAM256	13	825000000 Hz	1.7 dBmV	37.6 dB
15	Locked	QAM256	14	831000000 Hz	1.7 dBmV	39.4 dB
16	Locked	QAM256	15	837000000 Hz	1.6 dBmV	40.0 dB

lpstrear	n Bonde	ed Channels				
Channel	Status	Channel Type	Channel ID	Symbol Rate	Frequency	Power
1	Locked	ATDMA	3	5120 ksym/sec	23800000 Hz	40.0 dBmV
2	Locked	ATDMA	1	5120 ksym/sec	11000000 Hz	40.0 dBmV
3	Locked	ATDMA	2	5120 ksym/sec	17400000 Hz	39.8 dBmV
4	Locked	ATDMA	4	5120 ksym/sec	30200000 Hz	40.3 dBmV

Time Information	
CM IP Address	192.168.250.100
Duration	D: 00 H: 00 M: 02 S: 00
Expires	Mon Nov 02 01:48:56 2015
Current System Time	Mon Nov 02 01:48:30 2015

4.4.2 Account Management

Choose menu "Advanced > Account Management", you can see the screen below. Here you can set a new login password for the modem's web-based management page.

Account Management		
Old Password:		
New Password:		
	Low Middle High	
Confirm New Password:		
		Save
		- Ourc

4.4.3 System Log

Choose menu "Advanced > System Log", you can view and clear the logs of the modem.

Time	Priority	Description
Time Not Est	Critical	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol timi
ablished	(3)	ng;;CM-MAC=c4:e9:84:f8:b6:d0;CMTS-MAC=00:00:00:00
Time Not Est	Critical	SYNC Timing Synchronization failure - Failed to acquire FEC framing;CM-MAC=
ablished	(3)	c4:e9:84:f8:b6:d0;CMTS-MAC=00:00:00:00:00;CM-QO
Time Not Est	Critical	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol tim
ablished	(3)	ng;;CM-MAC=c4:e9:84:f8:b6:d0;CMTS-MAC=00:00:00:00
Time Not Est	Critical	SYNC Timing Synchronization failure - Failed to acquire FEC framing;CM-MAC=
ablished	(3)	c4:e9:84:f8:b6:d0;CMTS-MAC=00:00:00:00:00;CM-QO
Time Not Est	Critical	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol tim
ablished	(3)	ng;;CM-MAC=c4:e9:84:f8:b6:d0;CMTS-MAC=00:00:00:00
Time Not Est	Critical	SYNC Timing Synchronization failure - Failed to acquire FEC framing;CM-MAC=
ablished	(3)	c4:e9:84:f8:b6:d0;CMTS-MAC=00:00:00:00:00;CM-QO
Time Not Est ablished	Critical (3)	SYNC Timing Synchronization failure - Failed to acquire QAM/QPSK symbol tim ng;;CM-MAC=c4:e9:84:f8:b6:d0;CMTS-MAC=00:00:00:00

Clear Log

4.5 Logout and Reboot

Click the **Logout** icon Solution to log out of the web management page.

Click the **Reboot** icon 3 to reboot the modem.

Appendix A: Specifications

Product Description	ct Description DOCSIS 3.0 High Speed Cable Modem				
Physical Specification	ns				
	1 F-Connector (female 75 Ω)				
Interface	1 10/100/1000 Mbps Ethernet Interface (RJ45)				
	1 Power Jack				
Button	1 Reset Button				
DOCSIS Features					
Standards	DOCSIS 3.0				
Capture Bandwidth	Full Band Capture w	indows			
MoCA Reject Filter	Internal MoCA Rejec	t Filter			
Downstream					
Channel Bonding	Up to 16				
Modulation	64 or 256 QAM				
Maximum Data Rate	DOCSIS	Up to 686 Mbps			
Bandwidth	DOCSIS	96 MHz(16 channels) / 6MHz (single channel)			
Symbol Rate	DOCSIS	64 QAM 5.057 Msym/s; 256 QAM 5.361 Msym/s			
Operating Level Range	-15 to 15 dBmV				
Bonded Channel RF	Input Impedance	75 Ω			
Frequency Range	DOCSIS	88 to 1002 MHz (edge to edge)			
Frequency Plan	DOCSIS	Annex B			
Security	DOCSIS 3.0 Security	DOCSIS 3.0 Security (BPI+, EAE, SSD)			
Upstream					
Channel Bonding	Up to 4				
Modulation	QPSK and 8, 16, 32, 6	54, 128 QAM, optional 256 QAM			
Maximum Data Rate	aximum Data Rate DOCSIS Up to 131.072 Mbps				
Channel Width	200 kHz, 400 kHz, 80	00 kHz, 1.6 MHz,3.2 MHz, 6.4 MHz			
Symbol Rate	160, 320, 640, 1280, 2560, 5120 ksym/s				
		Pmin to +57 dBmV (32 QAM, 64 QAM)			
	TDMA	Pmin to +58 dBmV (8 QAM, 16 QAM)			
		Pmin to +61 dBmV (QPSK)			
	Note: A - TDMA max output power reduced 3dB when transmitting two				
	channels and 6dB when transmitting 3 or 4 channels				
Level range		Pmin to +56 dBmV (all modulations), where:			
	S-CDMA	Pmin=+17 dBmV, 1280 kHz modulation rate			
		Pmin=+20 dBmV, 2560 kHz modulation rate			
		Pmin=+23 dBmV, 5120 kHz modulation rate			
	Note: S-CDMA max output reduced 3dB when transmitting 2 or more				
	channels				

Output Impedance	75 Ω					
Frequency Range	DOCSIS	5-42 MHz (edge to edge),				
Network Function						
IP Stack	Supports IPv4 and IPv6 dual stack					
DHCP	DHCP Client					
VPN Passthrough	PPTP, L2TP, IPSec					
Multicast	Support IGMP v1/v2	/v3				
Flow Control	802.3x flow control a	t the UNI				
Management and Maint	Management and Maintance					
Managed by Web and TFTP						
Reset to Factory default by Re	set button					
Real-time statistics, System I	og					
Others						
Safety, Emission and	FCC, UL					
others	Cablelabs					
others	RoHS compliant					
	Network: IP, ICMP, ARP					
Protocol Support	Transport: TCP, UDP					
	Application: TFTP,DHCP, ToD					
Power	Input	12VDC/1A				
	Operating	32 °F to 104 °F (0 °C to 40 °C)				
	Temperature					
	Storage	–22 °F to 158 °F (–30 °C to 70 °C)				
Environment	Temperature					
	Operating	5 to 95% R.H. (non-condensing				
	Humidity					
	Storage Humidity	5%~95% non-condensing				

Appendix B: Troubleshooting

T1. What can I do if I cannot access the Internet?

- 1) Make sure that all cables are connected properly and securely to the modem.
- 2) Contact your ISP to verify the modem is activated. If the modem is not activated, your ISP will activate it for you.
- 3) Make sure that your computer is set to obtain an IP address automatically.
- 4) Power cycle the modem by unplugging the power adapter from the electrical outlet and plugging it back in.
- 5) Reset the modem. Please refer to T4 for instruction.
- 6) Contact our Technical Support if the problem persists.

T2. What can I do if the login page of the modem's web interface does not appear?

- 1) Check if the computer is set to a static for fixed IP address. If so, change the setting to obtain an IP address automatically.
- 2) Make sure http://192.168.100.1 is correctly entered in the web browser.
- 3) Use another web browser.
- 4) Unplug and reconnect both ends of the Ethernet cable.

T3. How can I reset the password to the modem's web interface?

If you have changed the password and have forgotten it, refer to T4 to reset the modem. This will reset the password back to **admin**.

T4. How do I restore the modem to its factory default settings?

With the modem powered on, press and hold the **Reset** button on the rear panel until all LEDs turn on momentarily, then release the button.

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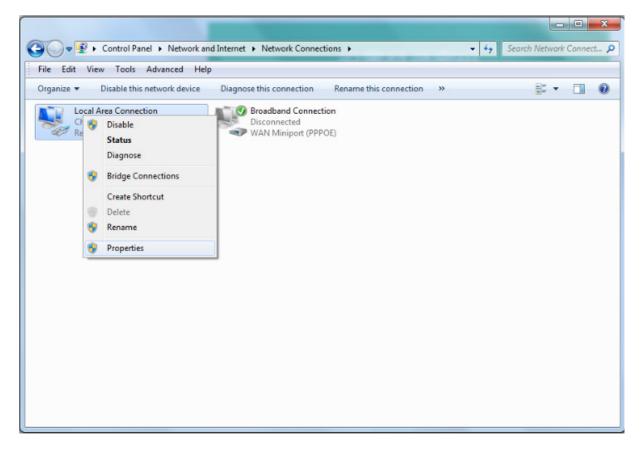
Note:

For more details about Troubleshooting and Technical Support contact information, please visit the support page at our official website: <u>http://www.tp-link.com</u>

Appendix C: Configure the PC

In this section, we'll introduce how to install and configure the TCP/IP correctly in Windows 7. First make sure your Ethernet Adapter is working, refer to the adapter's manual if needed.

- 1. On the Windows taskbar, right-click the Network icon **here**, and select **Open Network and Sharing Center > Change adapter settings**.
- 2. Right-click your wired network connection (Local Area Connection or Ethernet by default), and select **Properties**.



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

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Local Area Connection Properties	X							
Networking								
Connect using:								
Realtek PCIe GBE Family Controller								
Configure This connection uses the following items:								
✓ Client for Microsoft Networks ✓ QoS Packet Scheduler ✓ File and Printer Sharing for Microsoft Networks ✓ Internet Protocol Version 6 (TCP/IPv6) ✓ Internet Protocol Version 4 (TCP/IPv4) ✓ Link-Layer Topology Discovery Mapper I/O Driver ✓ Link-Layer Topology Discovery Responder								
Install Uninstall Properties								
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.								
OK Can	cel							

4. Select Obtain an IP address automatically and Obtain DNS server address automatically.

Internet Protocol Version 4 (TCP/IPv4)	Propertie	s		? X			
General Alternate Configuration							
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.							
Obtain an IP address automatical	у						
Ouse the following IP address:							
IP address:							
Subnet mask:							
Default gateway:		1					
Obtain DNS server address autom	atically						
Ouse the following DNS server add	resses:						
Preferred DNS server:		1.					
Alternate DNS server:		1					
Validate settings upon exit			Advar	nced			
		ОК		Cancel			

5. Click **OK** to save the settings.