

OV504R (TR069)

User manual

Ver: 2.00

Important Safety Instructions

Please read these instructions carefully:

1. Unplug the ADSL2+ Router Ethernet Adaptor from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
2. Do not use the ADSL2+ Router Ethernet Adaptor near water.
3. Make sure the working platform is flat. Do not put heavy objects on the ADSL2+Router.
4. Use the AC/DC power adapter that matches the ADSL2+ Router.
5. Disconnect the power supply and all wires from the ADSL2+ Router in lightning storm, to avoid lightning strike.
6. Take water proof measures during the storage, transportation and running of the ADSL2+ Router.
7. Avoid direct sunlight.

Note: When the ADSL2+ Router is used for a long time, temperature of the shell will rise. This is normal.

Contents

Chapter 1	Introduction	1
	Features	1
	ADSL standard supports	1
	Encapsulation supports	2
	System requirements	2
	LED status description.....	3
	Rear panel layout.....	4
Chapter 2	Hardware Installation	5
Chapter 3	Modem Parameters Setting	6
	Configuring computer network card IP address.....	6
	Web setting interface	6
	Ethernet over ATM (RFC1483 Bridge) setting	7
	PPP over Ethernet (RFC2516) setting.....	10
	TR069 setting.....	14
Chapter 4	Questions & Answers	16

Chapter 1 Introduction

The device is a well-designed high-speed ADSL modem/router.

Features

- Full rate ADSL router, support Bridge/Router
- Provides 24Mbps downstream and 1Mbps upstream
- Maximum transmission range: 5.4 Kilometers
- Four Ethernet ports, 10/100 Mbps Auto-MDI/MDIX
- Friendly GUI for web configuration.
- Configurable as a DHCP Server on Your Network
- Compatible with all standard Internet applications
- Industry standard and interoperable DSL interface
- Simple web-based status page displays a snapshot of your configuration, and links to the configuration pages.
- Downloadable flash software upgrades
- Support up to 8 Permanent Virtual Circuits (PVC)
- Support up to 8 PPPoE sessions
- Support TR069

ADSL standard supports

- ITU G.992.1 (G.dmt) Annex A
- ITU G.992.2 (G.lite)

- ANSI T1.413 Issue 2
- ITU G.992.3(ADSL2)
- ITU G.992.5(ADSL2+)

Encapsulation supports

- RFC 1483 bridge
- RFC 1483 Router
- Classical IP over ATM (RFC 1577)
- PPP over ATM (RFC 2364)
- PPP over Ethernet (RFC 2516)

System requirements

Recommended system requirements are:

- Pentium 233MHZ or above
- Memory: 64MB or above
- 10M Base-T Ethernet or above
- Win9X, Win2000, WinXP, WinMe, WinNT
- Ethernet Network Card

Please collect the following information from your ADSL service provider. This information will be very helpful for your ADSL configuration. To keep a record for reference, you can fill in the column as follow:

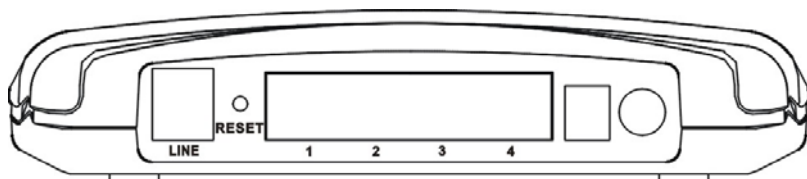
VPI	
VCI	

Encapsulation: VCMUX or LLC	
Protocol	
Standard	
User name	
Password	
Password protocol	

LED status description

INDICATOR	STATUS	Description
Power	Off	No power
	ON	Power supplied
ADSL	Quick Blink	DSL line is training
	ON	DSL line is connected
Data	Blink	DSL data transferring
LAN (4-1)	ON	Ethernet connection is OK
	Blink	Ethernet data transferring

Rear panel layout

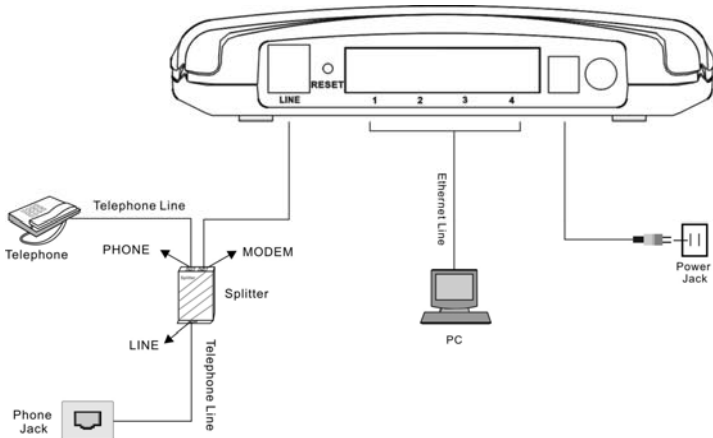


Interface	Description
SWITCH	Power on/off switch
POWER	Plug in for power adaptor
RESET	Modem Reset button Press and hold around 5~10s to reset the hardware. The modem will auto restart. This action will recover the modem's default configuration.
Ethernet(1-4)	Ethernet interface for connecting to computer or Switch
LINE	ADSL connector for connecting to ADSL telephone line

Chapter 2 Hardware Installation

Please connect the device to you computer as follow:

- If connecting to the splitter, connect the “Line” splitter to wall jack using one telephone cable
- Use the other telephone cable to connect “MODEM” port of the splitter and “LINE” port of the modem. The “phone” port of the splitter can be use to connect the telephone by a telephone cable.
- Use Ethernet cable to connect “Ethernet” port of the modem and “Ethernet” port of your computer.



If do not need to connect to the splitter,

- Connect the modem to wall jack with a telephone cable
- Use Ethernet cable to connect “Ethernet” port of the modem and network adaptor of your computer

Chapter 3 Modem Parameters Setting

Configuring computer network card IP address

Configure your network card's TCP/IP properties to **Obtain an IP address automatically** from modem, or set the computer's IP with the same network mask of the modem.(For example: modem's IP is 192.168.1.1/255.255.255.0,

Then you can set computer's IP to:

192.168.1.x/255.255.255.0.

The range for x is from 3 to 253)

Web setting interface

Open IE or Netscape Web browser, Input **http://192.168.1.1**(MODEM default IP address) in the address column, then click <ENTER> button, access the following setting interface:

Input user name and password, then click **Login** key to enter WEB setting interface.

Default setting:

IP Address: **192.168.1.1**

Subnet Mask: **255.255.255.0**

Username: **admin**

Password: **admin**

Main interface

After type right user name and password, the following window will pop up:

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Solutions

Device Info
Advanced Setup
Diagnostics
Management

Device Info

Board ID:	96338E
Software Version:	3.00L.03.A2pB0171.d15h
Bootloader (CFE) Version:	1.0.37-0.7

This information reflects the current status of your DSL connection.

Line Rate - Upstream (Kbps):	
Line Rate - Downstream (Kbps):	
LAN IP Address:	192.168.1.1
Default Gateway:	
Primary DNS Server:	192.168.1.1
Secondary DNS Server:	192.168.1.1

Here provide the most common RFC1483 Bridge and PPP over Ethernet (RFC2516) setting for reference. If you want to know more about other protocol, please contact your ADSL service provider for details

Ethernet over ATM (RFC1483 Bridge) setting

1. From the Home page, click on “**Quick Setup**”, See the following:

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Ethernet
Solutions

Device Info
Quick Setup
Advanced Setup
Diagnostics
Management

Quick Setup

This Quick Setup will guide you through the steps necessary to configure your DSL Router.

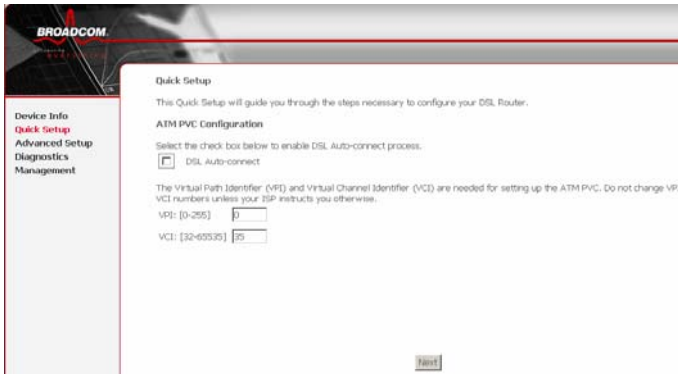
ATM PVC Configuration

Select the check box below to enable DSL Auto-connect process.

DSL Auto-connect

Next

2. Unselect the check box to enable DSL Auto-connect process. Set any PVC channel, Click on VPI/VCI, see the following:



The screenshot shows the 'Quick Setup' interface for a BroadCOM DSL router. On the left is a navigation menu with 'Quick Setup' highlighted. The main content area is titled 'ATM PVC Configuration' and includes instructions to unselect the 'DSL Auto-connect' checkbox. Below this, there are input fields for VPI (set to 0) and VCI (set to 25). A 'Next' button is located at the bottom right.

Quick Setup

This Quick Setup will guide you through the steps necessary to configure your DSL Router.

ATM PVC Configuration

Select the check box below to enable DSL Auto-connect process.

DSL Auto-connect

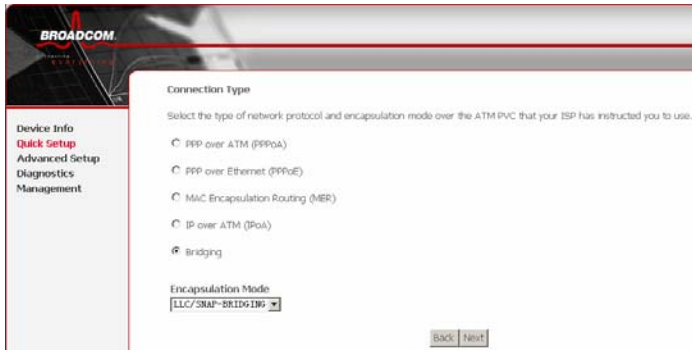
The Virtual Path Identifier (VPI) and Virtual Channel Identifier (VCI) are needed for setting up the ATM PVC. Do not change VPI/VCI numbers unless your ISP instructs you otherwise.

VPI: [0-255]

VCI: [32-65535]

[Next](#)

3. Click the “Next” button, and you can set the encapsulation which get from your ADSL service provider, see the following:



The screenshot shows the 'Connection Type' configuration page. It lists five options for network protocols and encapsulation modes: PPP over ATM (PPPoA), PPP over Ethernet (PPPoE), MAC Encapsulation Routing (MER), IP over ATM (PoA), and Bridging. The 'Bridging' option is selected with a radio button. Below the list is a dropdown menu for 'Encapsulation Mode' set to 'LLC/SRAE-BRIDGING'. 'Back' and 'Next' buttons are at the bottom.

Connection Type

Select the type of network protocol and encapsulation mode over the ATM PVC that your ISP has instructed you to use.

PPP over ATM (PPPoA)

PPP over Ethernet (PPPoE)

MAC Encapsulation Routing (MER)

IP over ATM (PoA)

Bridging

Encapsulation Mode

[Back](#) [Next](#)

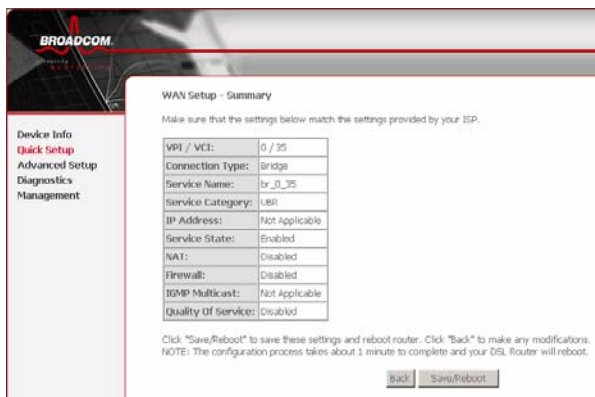
4. Click the “Next” button , select the check box below to enable this WAN service, see the following:



5. Click the “Next” button, configure the DSL Router IP Address and Subnet Mask for your Local Area Network (LAN) , please use the default configurations, see the following:



6. Click the “Next” button, make sure that the settings below match the settings provided by your ISP., see the following:



7. Click the “Save/Reboot” button, save your configurations.

NOTICE:

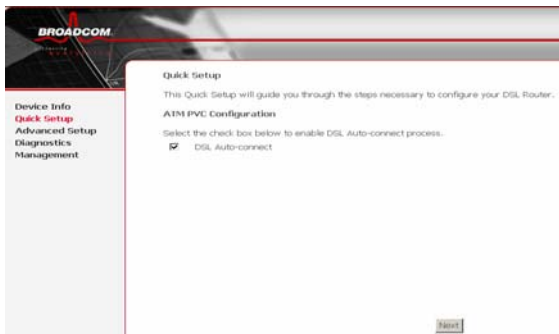
If you select Dial-UP link, after configuring your ADSL modem, please install the third-party dial up program to access Internet (For example: Ethernet 300/Ethernet 500/WinPoet). If your system is WinXP, you can use its own Internet access program without any other additional programs.

PPP over Ethernet (RFC2516) setting

PPPoE is also named as RFC 2516. It is a method of encapsulating PPP packets over Ethernet. PPP or Point-to-Point protocol is a method of establishing a network connection/session between network hosts. It usually provides a mechanism of authenticating users.

To configure the MODEM for PPPoE:

1. From the Home page, click on “**Quick Setup**”, see the following:



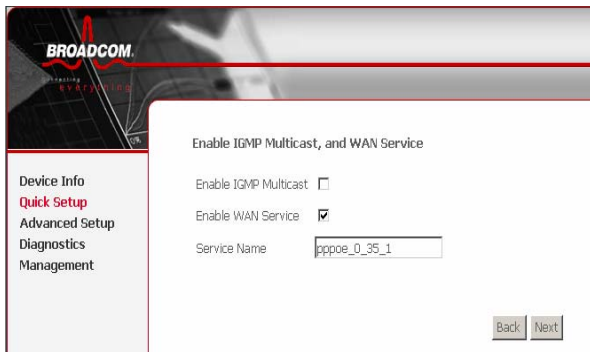
2. Unselect the check box to enable DSL Auto-connect process. This Quick Setup will guide you through the steps necessary to configure your DSL Router., and you can set the PVC which get from your ADSL service provider, see the following:



3. Click the “Next” button , select the type of network protocol and encapsulation mode over the ATM PVC that your ISP has instructed you to use, see the following:



4. Click the “Next” button, unenable IGMP Multicast, and enable WAN Service, see the following.



5. Click the “Next” button, Configure the DSL Router IP Address and Subnet Mask for LAN interface, please use the default configurations, see the following.

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Device Setup

Configure the DSL Router IP Address and Subnet Mask for LAN interface.

IP Address:

Subnet Mask:

Disable DHCP Server
 Enable DHCP Server

Start IP Address:

End IP Address:

Leased Time (hour):

Configure the second IP Address and Subnet Mask for LAN interface

- Click the “Next” button, make sure that the settings below match the settings provided by your ISP. see the following:

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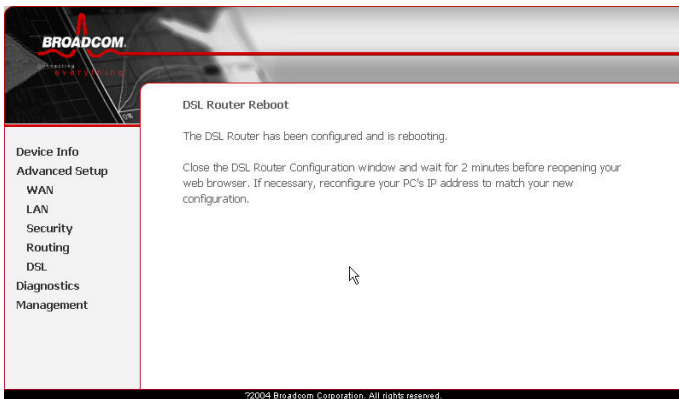
WAN Setup - Summary

Make sure that the settings below match the settings provided by your ISP.

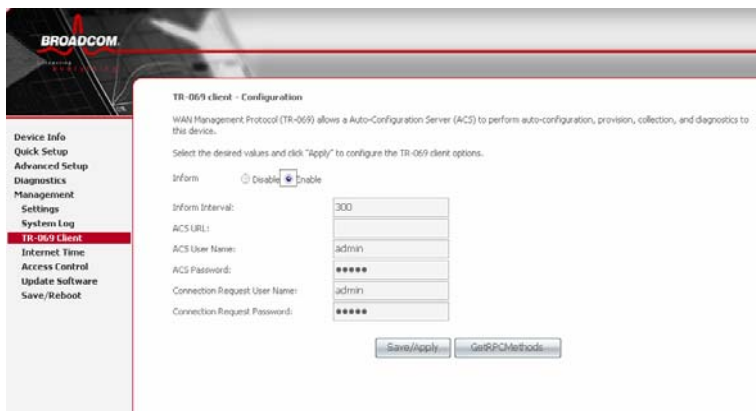
VPI / VCI:	0 / 35
Connection Type:	pppoe
Service Name:	pppoe_0_35_1
Service Category:	UBR
IP Address:	Automatically Assigned
Service State:	Enabled
NAT:	Enabled
Firewall:	Enabled
IGMP Multicast:	Disabled
Quality Of Service:	Disabled

Click "Save/Reboot" to save these settings and reboot router. Click "Back" to make any modifications.
NOTE: The configuration process takes about 1 minute to complete and your DSL Router will reboot.

- Click the “Save/Reboot” button, save your configurations, then finish the Setting for PPPoE.



TR069 setting



Inform:

Disable: modem cannot automatically send out the request to the TR069 server

Enable :modem can automatically send out the request to the TR069 server,
Select "Enable", all items below are effective

Inform Interval: Each modem how many seconds sends out the connection request to the TR069 server

ACS URL: the path of modem sending out the request the TR069 server

ACS User Name:the username of modem logging in TR069 server

ACS Password: the password of modem logging in TR069 server

Connection Request User Name: the username of the TR069 server visits modem TR069 process.

Connection Request Password:the password of the TR069 server visits modem TR069 process.

Chapter 4 Questions & Answers

1. Question: Why all LED indicators are off?

Answer: Check the connection between the power adaptor and the power socket

- Check the power switch is on or not

2. Question: Why Ethernet LED is not lighting?

Answer:

- Check the connection between the ADSL modem and your computer or Hub/Switch
- Check your PC or Hub/Switch running status and make sure them are working normally.

3. Question: Why DSL LED is not lighting?

Answer: Check the connection between the ADSL “line” port and the wall jack.

4. Question: Why cannot visit Internet with DSL LED is on?

Answer: Make sure following information has been input correctly:

VPI/VCI

User/password.

5. Question: Why cannot open the Modem configuring web page?

Answer:

Follow below steps to check the communication between the computer and Modem:

Click start -> run (input ping demands)-> Ping 192.168.1.1 (MODEM IP address).

If cannot reach the modem, please check following configuration:

- The type of the network cable
 - The connection between the modem and computer
 - You computer's TCP/IP configuration
6. **Question: How to load the default setting after incorrect configuration?**

Answer: Press "reset" button 5s-10s to load the default configuration.

The modem's default IP address: 192.168.1.1/255.255.255.0,

Username/password: admin/admin