

UTStarcom UT-300R2U

ADSL Modem USER GUIDE

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Doc. Code:

UTStarcom, Inc.





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UTStarcom, Inc. USA	30
1275 Harbor Bay Parkw	ay Alameda, CA 94502, USA30
Tel: 510-864-8800	Fax: 510-864-880230
http://www.utstar.com.	30

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Introduction

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

Features

- One 10/100 Ethernet port
- One USB 1.1 Full Speed port
- Friendly GUI for web configuration
- Configurable as a DHCP Server on your Network
- Compatible with virtually all standard Internet applications
- Industry standard and interoperable DSL interface
- Address Filtering, DMZ Hosting, and Much More
- Simple web based status page displays a snapshot of your system configuration, and links to the configuration pages.
- Downloadable flash software upgrades

- Support for up to 8 Permanent Virtual Circuits (PVC)
- Support for up to 8 PPPOE sessions

Supporting Protocol

- ITU G.992.1 (G.dmt) Annex A
- ITU G.992.2 (G.lite)
- ANSI T1.413 Issue 2
- ITU G.992.3 ADSL2 (G.dmt)
- ITU G.992.4 ADSL2 (G.lite)
- 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 Requirement

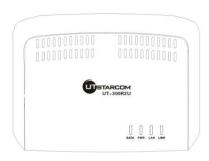
Recommended system requirements are:

- Pentium 233MHz or above
- Memory: 64MB or above
- 10M Base-T Ethernet or above
- WIN9X WIN2000 WINXP WINME WINNT
- Ethernet Network Interface 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 below:

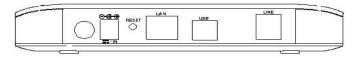
VPI	
VCI	
Encapsulation: VCMUX or LLC	
Protocol	
Standard	
Username	
Password	
Password protocol	

LED Indicator



Indicator	Status	Description	
PWR	OFF	Power not supplied	
PVVR	ON	Power supply is on	
	ON	Have linked to HUB	
LAN	Blink	Be transmitting data to HUB	
	ON	Have connected to CO physical layer	
LINK	Slow Blink	Be trying to connect to physical link	
	Quick Blink	Be handing with CO physical link	
DATA	Blink	Be receiving and sending data	

Rear Pane Layout



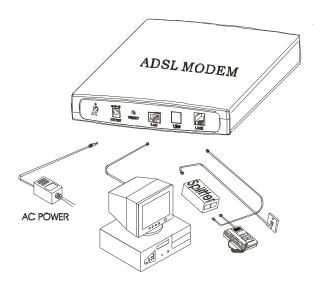
Interface	Function
SWITCH	POWER on/off
POWER socket	PLUG in for power
	Modem Reset button.
RESET	Press three times, hardware will reset, modem LED will be all on, then off, then auto-restart and recover the default configuration.
LAN	Plug in for RJ45, Can connect to HUB or computer
USB	USB port can connect to PC USB.
LINE	Connect to ADSL telephone line interface

Hardware Installation

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Please connect your ADSL MODEM to computer as the following description:

- 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 used to connect the telephone and the splitter by a telephone cable.
- Use Ethernet cable to connect LAN port of the modem and LAN port of your computer.



If do not need to connect to the splitter,

- Connect the modem to wall jack using one telephone cable.
- Use Ethernet cable to connect LAN port of the modem and LAN port of your computer.

Modem Parameters Setting

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Configuring Computer Network Card IP Address

Configuring 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 255)

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:

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Input username 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: utstar or admin

Main interface

When correct username and password have been typed, the following window will pop up:



Here provide the most common configuration for PPPoE and Bridge mode for reference. The CPE shall be configured as following (Advanced Setup – WAN) for <u>MTNL network</u>



PPP over Ethernet (RFC2516) PPPoE Setting

PPPoE is also known 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:

 From the Home page, click on "Advanced setup ->Wan ", see the following:



Click on Edit button having VPI/VCI = 32, Check the following options:

- 1. VPI = 0
- 2. VCI = 32
- 3. Service category "UBR without PCR"



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:



3. Select PPP over Ethernet (PPPoE), Click the "Next" button.



- 4. Type the username password given by the MTNL
- 5. Type service name as MTNL . It is optional you can leave it as blank also.
- 6. Authentication method "AUTO"
- 7. Click on next

Following window will come.

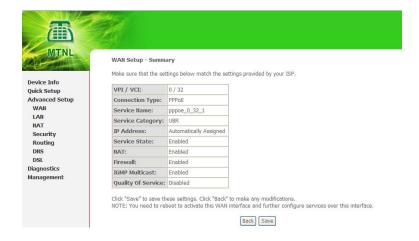
8. Enable IGMP Multicast, and enable WAN Service, see the following.



 Click the "Next" button, configure the DSL Router IP Address and Subnet Mask for LAN interface, please use the default configurations, and see the following.



Click the "Next" button; make sure that the settings below match the settings provided by your ISP. See the following:



10. Click on the "Save/Reboot" button, save your configurations, and then finish the Setting for PPPoE.

Ethernet over ATM (RFC1483 Bridge) Setting

From the Home page, click on "Advanced Setup -> Wan", see the following.



Click on Edit button having VPI/VCI = 0/33, Check the following options:

- 4. VPI = 0, VCI = 33
- 5. Service category "UBR without PCR"

Click on next button



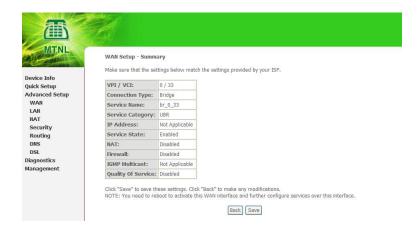
 Click the "Next" button, and you can set the encapsulation which get from your ADSL service provider, see the following:



2. Click the "Next" button, select the check box below to enable this WAN service, see the following:



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



Click on the "Save/Reboot" button, save your configurations.



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 dialer.

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USB Software Setup



The software setup process for all supported operating systems is described in this section with operating system specific differences noted. The USB ADSL Modem should be connected to your PC prior to installing the software. No other Windows programs should be running on your PC during the software install process.

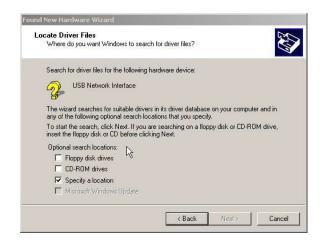
Before installing driver program, you must confirm ADSL MODEM has been connected to computer via USB slot; Once the PC powers up, a new device will be will be detected by Windows .the computer will give a message finding new hardware. Below picture will be shown



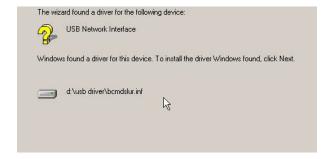
Just click next, new web will be shown below



Select "Search for a suitable driver for my device (recommended)", then press next button



If you ADSL Modem USB driver is in CD-ROM, please select CD –ROM driver, And If USB driver is other a location, please select Specify a location. Then press next. Windows will search and find the USB driver and automatically install the driver.



Wait for a few seconds, below picture will display and you can press the "Finish" button to complete the USB driver installation.



When you have completed USB driver, Your PC will add new adapter networks connect .It means you have success install ADSL modem USB driver .You can configure your modem like Ethernet, and connect internet. When you insert your driver CD in your PC CD-ROM,

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 ACT 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.
- Check your network cable for connecting the Modem with other device:

For PC, you should use the crossover cable.

For Hub/Switch, you should use straight through cable.

3. Question: Why Link LED is not lighting?

Answer:

Check the connection between the ADSL LINE port and the wall jack.

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

Answer:

Make sure following information has been input correctly:

VPI/VCI

Username/password

5. Question: Why cannot open the Modem configuration 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
- Your computer's TCP/IP setting
- 6. Question: How to load the default setting after incorrect configuration?

Answer:

Press Reset button and holds around 15s to load the default configuration.

The modem's default IP address: 192.168.1.1/255.255.255.0

Username/password: admin/utstar.



UTStarcom, Inc. USA

1275 Harbor Bay Parkway Alameda, CA 94502, USA

Tel: 510-864-8800 Fax: 510-864-8802

http://www.utstar.com