



Broadband Pakistan

ADSL Installation Guide

ZTE - ZXDSL-831D

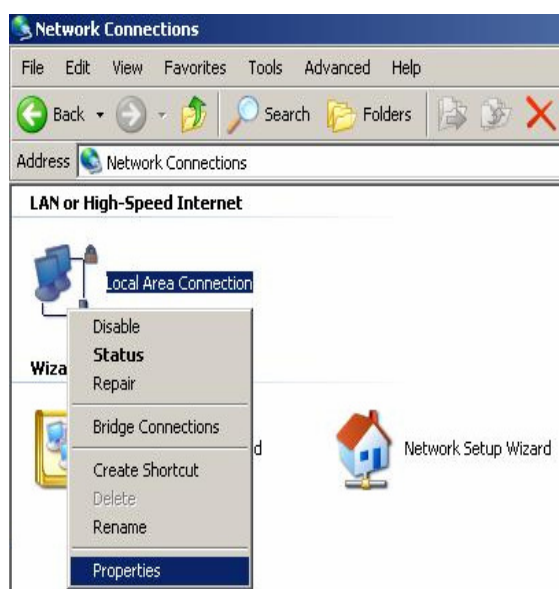
PTCL introduces DSL service for our valued subscribers. We are committed to provide you quality internet services. Please follow the installation instructions and log on to your ADSL broadband link.

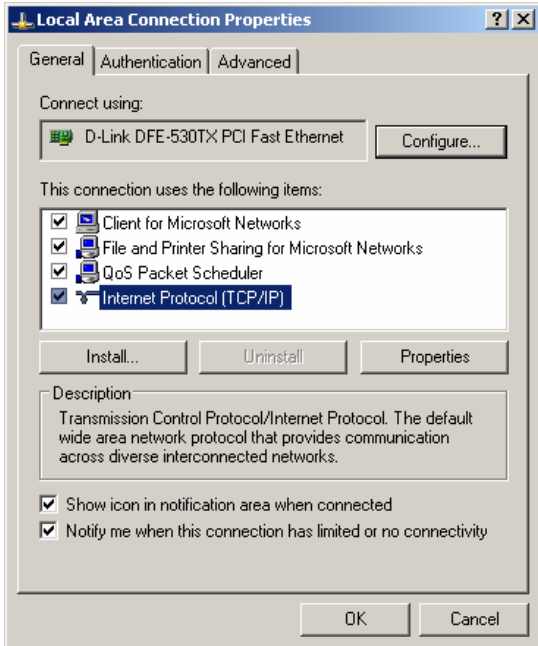
Step 1: Connecting to the Splitter, Power Connection & LAN cable.

- 1 Line hole connects to PTCL wire or Wall phone Jack (RJ-11 Jack).
- 2 Modem hole connects to the DSL jack of the ADSL CPE (Customer Premises Equipment).
- 3 Phone hole connects to a telephone set.
- 4 Connect the Power Adapter to the AC power plug and attach the connector of adapter to the CPE and switch it on.
- 5 Attach one end of LAN wire (RJ-45) to the LAN interface of CPE and the other end to the LAN wire to the LAN interface of computer's LAN card.
- 6 Link Indicator lights will lit up and show the connectivity. ADSL light will start blinking and soon will be static as a sign of connectivity with our system, if the line is properly jumpered in PTCL premises with the DSLAM (Digital Subscriber Line Access Multiplexer). Joint less and direct cable line from the nearest PTCL pole or cabinet must be connecting to your splitter and then all the phone extensions must be taken from the phone hole of splitter. The Drop wire distance from PTCL pole or Cabinet must not be ideally more than 50 meters.(Twisted pair wire can be longer)

Step 2: ADSL Configuration in CPE and Computer

1. Go to Start Menu < Control Panel < Network and Internet Connections < Network Connections. Check that the Local Area Connection is enabled. Right click local Area network and click properties. Following window will be shown.



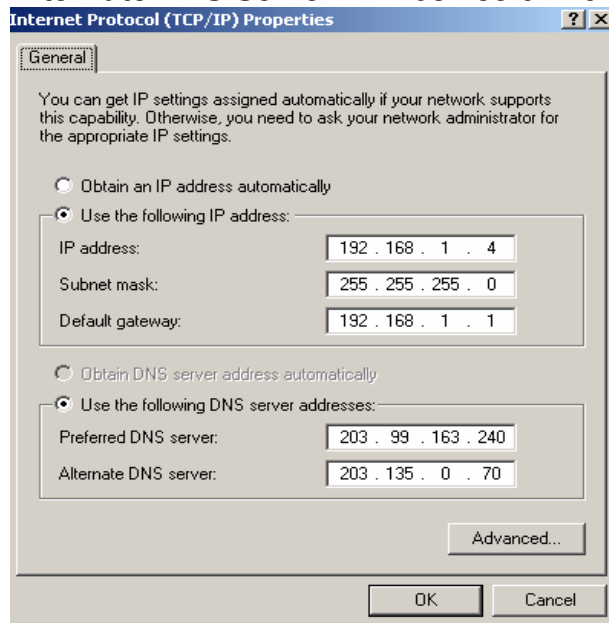


2. Double click “internet protocol (TCP/IP)”, Check “**Use the following IP address**” and make the following settings:

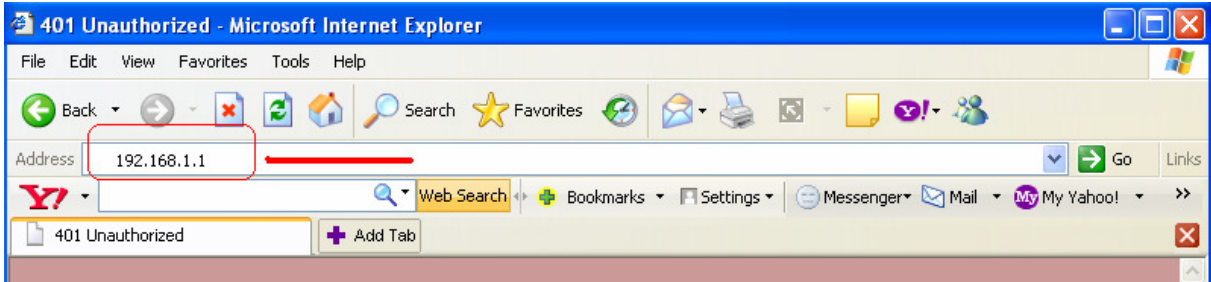
IP Address: 192.168.1.3
Subnet Mask: 255.255.255.0
Gateway: 192.168.1.1

Then, check “**Use the following DNS server addresses**” and make the following settings:

Preferred DNS Server: 203.99.163.240
Alternate DNS Server: 203.135.0.170



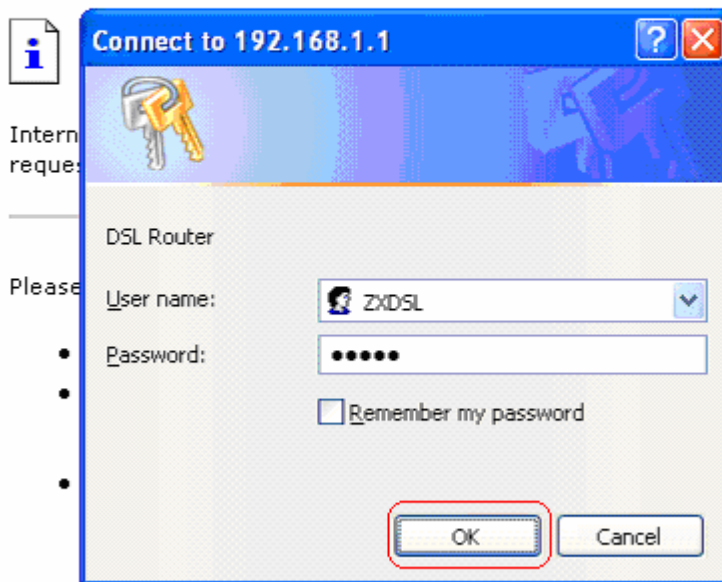
3. Now open Internet Explorer and write “192.168.1.1” in address bar and press enter. There must not be any proxy setting in the internet Explorer.



A small pop up window will open as shown in the figure below and ask “User Name” and “Password” for opening the CPE’s interface.

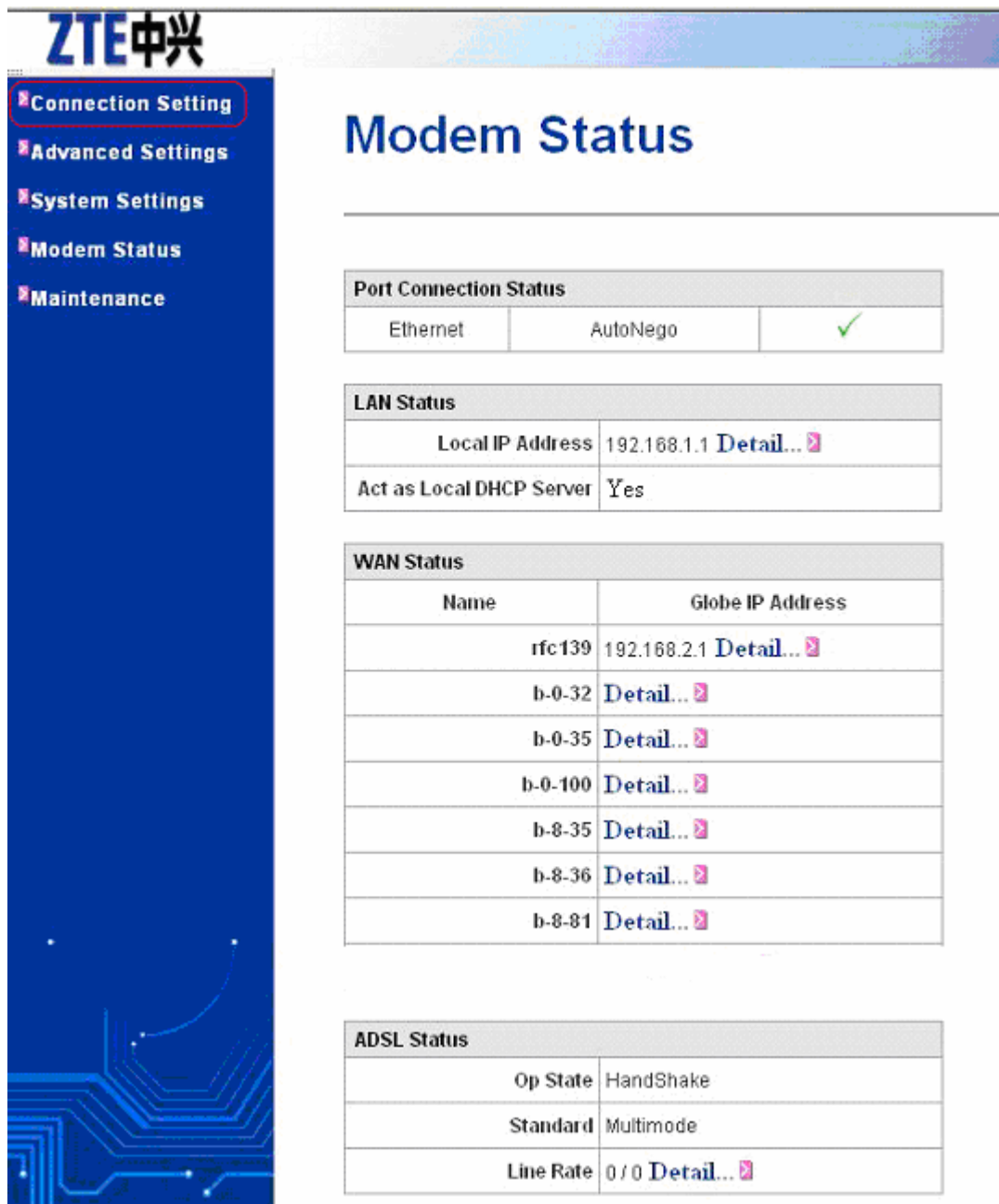
Enter **User Name: ZXDSL** and **Password: ZXDSL** and press OK.

Note: “Both username & password must be written in capital letters.”



Internet Explorer

- CPE configuration will be opened. This will show Modem Status. Click the **Connection Setting**.



The screenshot shows the ZTE Modem Status page. On the left is a navigation menu with the following items: Connection Setting (highlighted), Advanced Settings, System Settings, Modem Status, and Maintenance. The main content area is titled "Modem Status" and contains several status tables.

Port Connection Status

Ethernet	AutoNegotiation	✓
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LAN Status

Local IP Address	192.168.1.1 Detail...
Act as Local DHCP Server	Yes

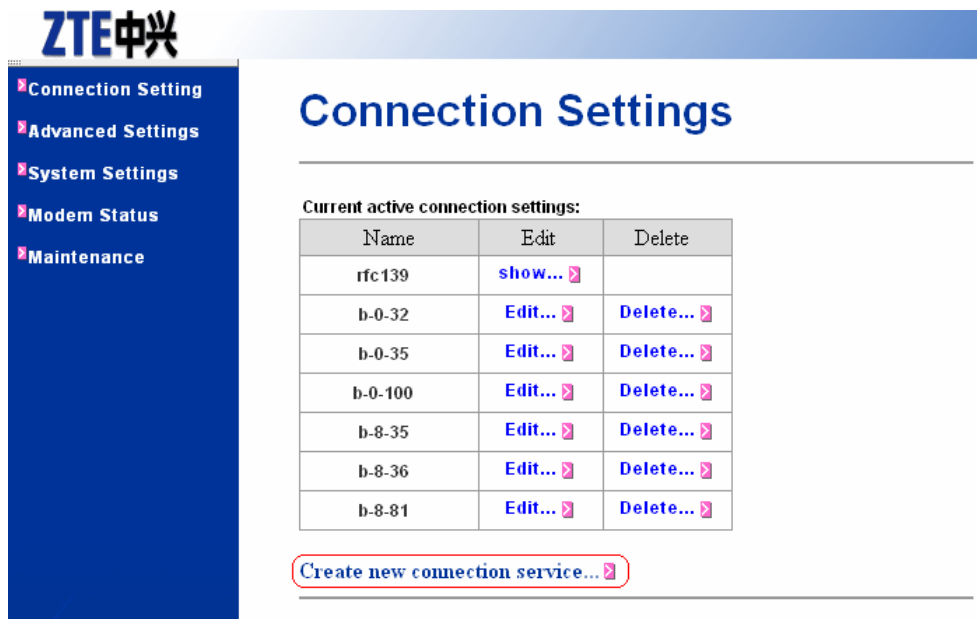
WAN Status

Name	Globe IP Address
rfc139	192.168.2.1 Detail...
b-0-32	Detail...
b-0-35	Detail...
b-0-100	Detail...
b-8-35	Detail...
b-8-36	Detail...
b-8-81	Detail...

ADSL Status

Op State	HandShake
Standard	Multimode
Line Rate	0 / 0 Detail...

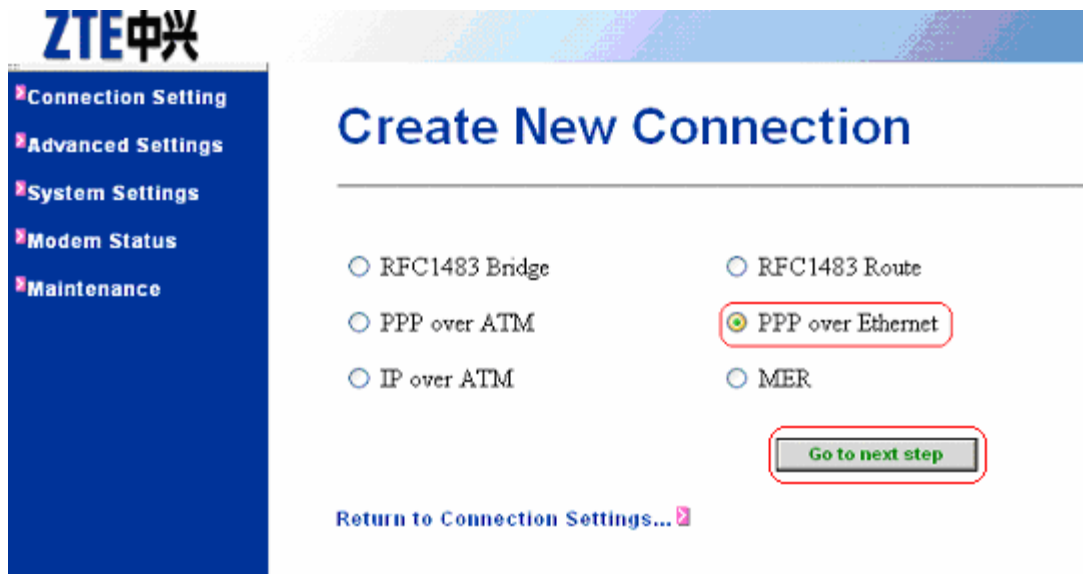
5. Connection Settings show current active connection as shown in the figure. Click **create new connection service**



The screenshot shows the ZTE web interface for Connection Settings. On the left is a blue navigation menu with the ZTE logo and the following items: Connection Setting, Advanced Settings, System Settings, Modem Status, and Maintenance. The main content area is titled "Connection Settings" and displays a table of "Current active connection settings". The table has three columns: Name, Edit, and Delete. Below the table is a button labeled "Create new connection service...".

Name	Edit	Delete
rfc139	show...	
b-0-32	Edit...	Delete...
b-0-35	Edit...	Delete...
b-0-100	Edit...	Delete...
b-8-35	Edit...	Delete...
b-8-36	Edit...	Delete...
b-8-81	Edit...	Delete...

6. In create new connection window. Select **“PPP over Ethernet”**



The screenshot shows the ZTE web interface for the "Create New Connection" window. On the left is the same blue navigation menu as in the previous screenshot. The main content area is titled "Create New Connection" and features a list of radio button options: RFC1483 Bridge, RFC1483 Route, PPP over ATM, PPP over Ethernet, IP over ATM, and MER. The "PPP over Ethernet" option is selected and highlighted with a red box. Below the options is a "Go to next step" button, also highlighted with a red box. At the bottom, there is a link "Return to Connection Settings..." with a right-pointing arrow.

- Enter **VPI=0** and **VCI=103** for Copper number & **VPI=8** and **VCI=81** for ONU Fiber Optics number. Select Authentication protocol as “**PAP**” and enter username and Password. Click “**Create this new service**”.

ZTE中兴

- Connection Setting
- Advanced Settings
- System Settings
- Modem Status
- Maintenance

Create New Connection

Change your Internet connection settings

VPI:	0
VCI:	103
Qos:	UBR
Connection type:	PPP over Ethernet

PPP options

Authentication:	PAP
Username:	test
Password:	●●●

[Create this new service](#)

[Return to Connection Settings...](#)

- Now Connection settings window will be opened and shows current active connections

ZTE中兴

- Connection Setting
- Advanced Settings
- System Settings
- Modem Status
- Maintenance

Connection Settings

Current active connection settings:

Name	Edit	Delete
rtc139	show...	
b-0-32	Edit...	Delete...
b-0-35	Edit...	Delete...
b-0-100	Edit...	Delete...
b-8-35	Edit...	Delete...
b-8-36	Edit...	Delete...
b-8-81	Edit...	Delete...
ppp-0	Edit...	Delete...

[Create new connection service...](#)

9. Click **Advance settings** and then on **Security** .Security Interface Configuration is shown. Click **Add Interface**.

The screenshot shows the ZTE web interface with the 'Security' menu item highlighted in the left sidebar. The main content area is titled 'Security Interface Configuration'. It contains several sections:

- Security State:** Firewall (radio buttons for Enabled and Disabled, with Disabled selected), Intrusion Detection (radio buttons for Enabled and Disabled, with Disabled selected), and Security Level (n/a (Enable Firewall to set level)).
- Security Interfaces:** A table with columns Name, Type, and NAT. One entry is shown: 'iplan' with Type 'internal'. An 'Add Interface...' button is located to the right of this table.
- Current Security Policies:** A table with columns Policy Type and Policy Configuration. One entry is shown: 'external - internal' with Policy Configuration 'Policy Rules...'.

10. Following figure will be shown. Click **Apply**.

The screenshot shows the ZTE web interface with the 'Security' menu item highlighted in the left sidebar. The main content area is titled 'Security: Add Interface'. It contains a form with a 'Name:' label and a dropdown menu showing 'ppp-0'. Below the form is a green 'Apply' button. At the bottom, there is a link 'Return to Interface List...'.

11. Security Interface Configuration will be opened. Click **Enable NAT to interface**.

The screenshot shows the ZTE Security Interface Configuration page. The left sidebar contains a menu with 'Security' highlighted. The main content area has a title 'Security Interface Configuration' and several sections:

- Security State:** Firewall (radio buttons for Enabled and Disabled), Intrusion Detection (radio buttons for Enabled and Disabled, with a 'Configuration Setting...' link), and Security Level (n/a (Enable Firewall to set level)).
- Security Interfaces:** A table with columns 'Name', 'Type', and 'NAT'. It lists 'iplan' (internal) and 'ppp-0' (external). A green button 'Enable NAT to internal interfaces' is highlighted in a red box in the 'ppp-0' row. There is also a 'Delete Interface...' link in the same row and an 'Add Interface...' link at the bottom right.
- Current Security Policies:** A table with columns 'Policy Type' and 'Policy Configuration'. It shows 'external - internal' with a 'Policy Rules...' link.

12. Following window will be opened.

The screenshot shows the ZTE Security Interface Configuration page, similar to the previous one, but with different button states:

- Security State:** Firewall (radio buttons for Enabled and Disabled), Intrusion Detection (radio buttons for Enabled and Disabled, with a 'Configuration Setting...' link), and Security Level (n/a (Enable Firewall to set level)).
- Security Interfaces:** A table with columns 'Name', 'Type', and 'NAT'. It lists 'iplan' (internal) and 'ppp-0' (external). A grey button 'Disable NAT to internal interfaces' is highlighted in a grey box in the 'ppp-0' row. There is also a 'Delete Interface...' link in the same row and an 'Advanced NAT Configuration...' link below it. An 'Add Interface...' link is at the bottom right.
- Current Security Policies:** A table with columns 'Policy Type' and 'Policy Configuration'. It shows 'external - internal' with a 'Policy Rules...' link.

13. Click **System Settings** and then on **DHCP Server**. In DHCP Server Configuration, Click on **Enable DHCP Server** and **Apply**

ZTE中兴

- Connection Setting
- Advanced Settings
- System Settings
 - Local LAN IP
 - DHCP Server
 - Management
 - ADSL
 - Ethernet
- Modem Status
- Maintenance

DHCP Server Configuration

Enable DhcpServer

Dhcp Name	Delete	Edit...
item0	<input type="checkbox"/>	Edit...

Apply

14. Click on **ADSL**. ADSL Configuration Window will be opened. Select **Standard: G.DmtBisPlus** and **ActiveLine: Start**. Click **Startup**.

ZTE中兴

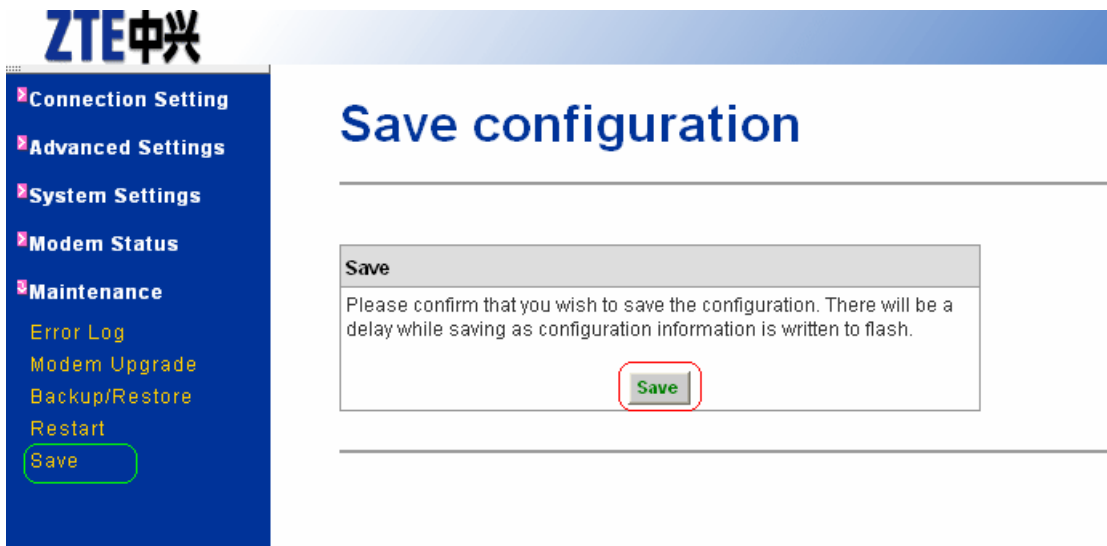
- Connection Setting
- Advanced Settings
- System Settings
 - Local LAN IP
 - DHCP Server
 - Management
 - ADSL
 - Ethernet
- Modem Status
- Maintenance

ADSL Configuration

Name	Value
AnnexType	G.Dmt.Bis
standard	G.Dmt
CodingGain	auto
EcFdmMode	EC
TxAttenuation	Bis_0DB
ActivateLine	Start

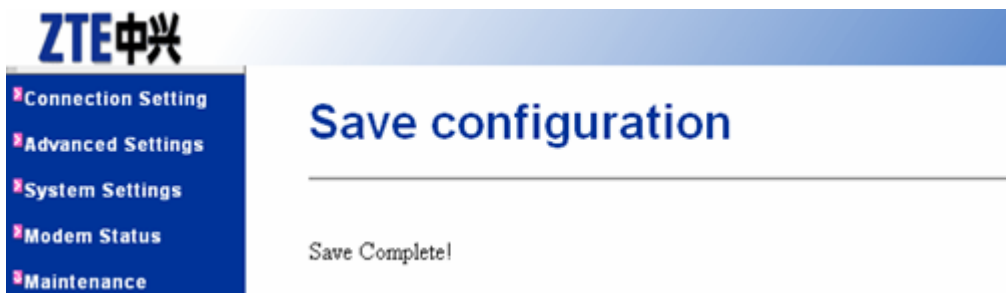
startup

15. Click **Maintenance** and then on **save**. In save configuration, click **save**



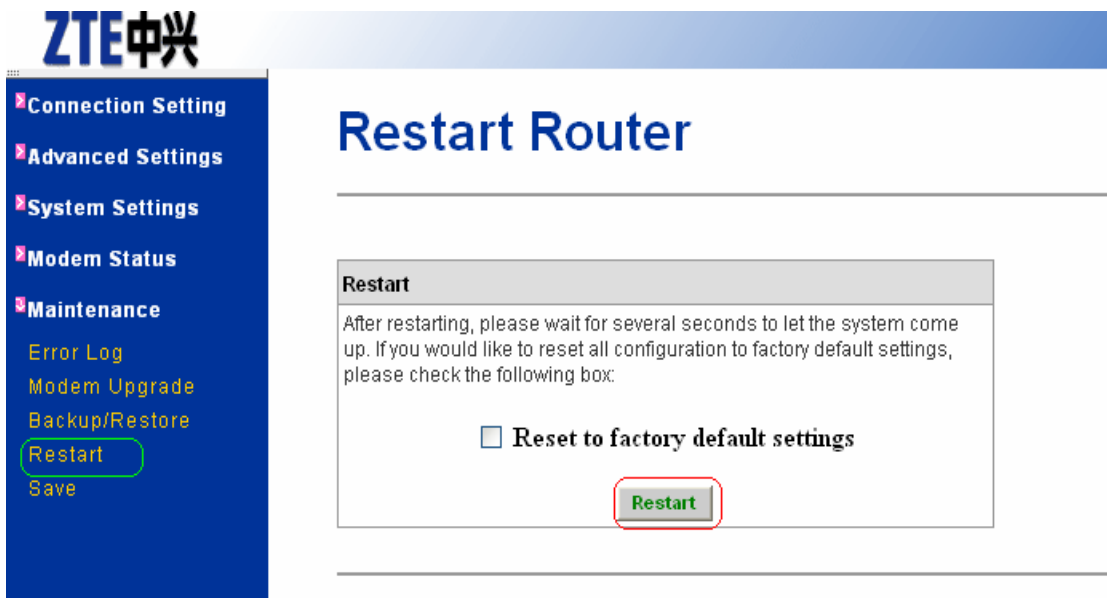
The screenshot shows the ZTE router web interface. On the left is a blue navigation menu with the ZTE logo at the top. The menu items are: Connection Setting, Advanced Settings, System Settings, Modem Status, Maintenance, Error Log, Modem Upgrade, Backup/Restore, Restart, and Save. The 'Save' option is highlighted with a green circle. The main content area is titled 'Save configuration' and contains a dialog box with the following text: 'Please confirm that you wish to save the configuration. There will be a delay while saving as configuration information is written to flash.' Below the text is a green 'Save' button, which is also highlighted with a red circle.

16. Finally, save configuration will be completed showing the following window.



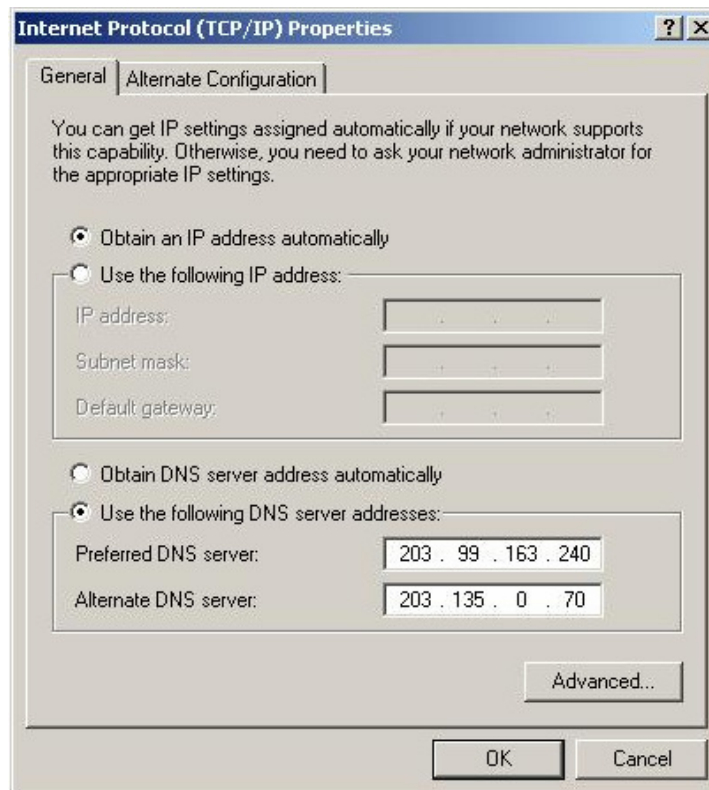
The screenshot shows the ZTE router web interface. The navigation menu is the same as in the previous screenshot, but the 'Save' option is no longer highlighted. The main content area is titled 'Save configuration' and displays the message 'Save Complete!'.

17. Now restart the Router. Click on **Restart**.



The screenshot shows the ZTE router web interface. The navigation menu is the same as in the previous screenshots, but the 'Restart' option is highlighted with a green circle. The main content area is titled 'Restart Router' and contains a dialog box with the following text: 'After restarting, please wait for several seconds to let the system come up. If you would like to reset all configuration to factory default settings, please check the following box:'. Below the text is a checkbox labeled 'Reset to factory default settings'. Below the checkbox is a green 'Restart' button, which is also highlighted with a red circle.

18. Go again to Internet Protocol (TCP/IP) Properties and Select Obtain an IP address automatically and leave the DNS server addresses unchanged as shown in the picture below and press Ok.



Now, open the Internet Explorer and start browsing the sites for successful configuration and DSL connection establishment.