# ZXV10 W300 Wireless ADSL Router

# **Quick Installation Manual**

**ZTE CORPORATION** 

#### ZXV10 W300 Wireless ADSL Router

**Quick Installation Manual** 

Manual version 20060810-R1.0

Product version

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## **1 Product Introduction**

Welcome you to use the ZXV10 W300 Wireless ADSL Router.

ZXV10 W300 series products are home user oriented wireless broadband router integrating ADSL, AP and LAN Switch. The ZXV10 W300 router acts as the center of a home network and lets all of the devices in a home network share the same Internet connection, providing the users with Triple play services integrating wired or wireless communications, voice and video. It supports the classification of message contents based on service traffic and priority tagging for different service requirements, provides superior QoS based on ATM and IP, and meets the requirement of access bandwidth for different services. It provides secure wireless encryption and powerful firewall to prevent unauthorized users access. In addition, it uses the TR069 system providing unified management to meet different requirements of carrier-level and user-level network management. Besides all of the previous SNMP functions, the TR069 system is added with terminal device and user management functions to provide the overall remote network management capability.

#### **1.1 Product Features**

- Provide ADSL/ADSL2/ADSL2+ high-speed Internet access over ordinary telephone wire.
- Support ITU G.992.1, G.992.2, G.992.3, G.992.5 and ANSI T1.413 Issue 2.
- Provide four 10/100Base-T Ethernet interfaces supporting automatic identification of crossover cable and straight-through cable.
- Provide one IEEE 802.11g/b wireless interface
- Provide wireless data security using WEP-64/128/256, WPA/WPA2 and MAC address filtering.
- Provide functional features including subscriber isolation, ESSID hiding and multi-ESSID
- Support Bridge and Router modes
- 5



- Support eight PVC connections and auto-negotiation
- Support PPPoE, PPPoA, Static, DHCP, Bridge and CLIP connections.
- Support NAT, IP filtering and firewall functions.
- Support network configuration using DHCP
- Support UPnP, SNTP, DMZ, IGMP Snooping, IGMP Proxy and DNS Proxy.
- Support ATM QoS and IP QoS functions
- Support configuration via web and SNMP management
- High reliability, ease of use and low power consumption
- High compatibility and interoperability with various office-end DSLAMs



Corresponding ISP services are required for the above functions.

#### **1.2 Packing List**

The package of the W300 product should contain the following components:

•	W300 ADSL Router	1
•	External splitter	1
•	Power supply adapter	1
•	Telephone wires	2
•	Straight-through cables	1
•	Warranty card	1
•	Quality certificate	1
•	ZXV10 W300 Wireless ADSL Router Quick Manual	Installation

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If any of the above components is missing or damaged, please contact your dealer. In case of replacement, please keep the package and existing components of the product well.

#### **1.3 System Requirement**

Before using the ZXV10 W300 product, please ensure the following system requirements:

- You have subscribed the ADSL service. Your ADSL Service Provider must provide you with at least one legal IP address (allocated dynamically via dial-up or statically)
- One or more PCs with 10/100 M Ethernet Network Interface Card (NIC)
- For wireless access, an external or built-in 802.11g/b wireless NIC is required.
- To set up the system via web, a browser is required, e.g. Internet Explorer V5.0 or later, or Netscape V4.7 or later.

# 2 Introduction to the Hardware

### **2.1 Indicators**



There area eight indicators on the front panel of the ZXV10 W300. These indicators indicate the service running status of the ZXV10 W300. The indicates are described in the table below.

No.	Indicators	Identification	Color	Description
1	Power supply	Ċ	Red	Steady ON: Indicates the power supply is connected and turned on. OFF: Indicates the power supply is disconnected or a failure.
2	Internet	@	Green	Steady ON: The device is connected to the Internet successfully via built-in dial-up.
3	Running	*	Green	Flashing: Indicates the device operates normally. OFF:

#### Chapter 2 Introduction to the Hardware

No.	Indicators	Identification	Color	Description	
				Indicates a device	
				operation failure.	
	WLAN			Steady ON: Indicates	
			Green	WI-FI IS SWITCHED ON.	
		wlan ))		ridsning. The	
4				according to the	
				network traffic flow	
				OFF: Indicates Wi-Fi	
				is switched off	
				Steady ON: Indicates	
		. <b>뿤</b> 루1		the device has been	
		<b>**</b> 2		connected to the	
				LAN. Flashing: The	
-		<b>₽₽</b> 3		indicator flashes	
5	LAN		Green	according to the	
				network traffic flow.	
				OFF: Indicates the	
		<del>***</del> 4		device has not been	
				connected to the LAN	
				Steady ON: Indicates	
				an ADSL connection	
				is established and	
				activated. Slow	
	ADSI	~		flashing: Indicates a	
6	link	$\odot$	Green	connection is being	
		шк		established on the	
				ADLS line. OFF:	
					Indicates no ADSL
					connection can be
				established.	



### 2.2 Ports and Buttons



There are nine ports and buttons on the side of the ZXV10 W300 device. Ports and buttons are described in the table below.

No.	Port identification	Description	
1	DSL	Connected to the ADSL line or splitter via RJ-11 telephone wire	
2	LAN1~ LAN4	Connected to the PC NIC via RJ-45 cable	
3	Wi-Fi	WLAN radio frequency ON/OFF switch	
4	Reset	The device is power on. Holding on the button for more than 10 seconds will reset the current settings to the factory default settings, and the system will then restart automatically.	
5	On/Off	Power switch	
6	18V~	Connected to the associated power adaptor	

# **3** Quick Installation

It is assumed that you have signed up for the ADSL service from the Service Provider. In addition, this chapter contains the basic product configuration only, which is applicable to the network environment of general subscribers or enterprise users.

#### **3.1 Hardware Connections**

The following diagram illustrates the recommended connections and installation.



If a telephone needs to be installed in front of the splitter, you must install a microfilter (the splitter cannot be used to replace the microfilter). The following diagram illustrates the connections.







Phone sets connected in parallel before the splitter will cause many problems, e.g. the ZXV10 W300 device cannot be connected to office-end devices; networks cannot be accessed or the network access speed will be slow. To connect phone sets before the splitter, a microfilter should be connected in serial in front of the phone sets (In general, only one microfilter can be connected in front of the splitter to reduce interference).

1. Installation position

The ZXV10 W300 device can be placed on a plane surface like desktop, or installed on the wall. It is recommended to place the device on the center of the network to be established and keep it far away from possible interference sources, e.g. metal wall and microwave oven, for the highest efficiency. It is also recommended to place it on a relatively higher position so that it covers all of the physical space.

# ▲ Note:

In the case it is installed on the wall, you must secure the device to prevent it from being damaged due to fall-off. Enough space should be reserved around of the device for normal heat dissipation.

2. Connect the DSL port of the device to the MODEM port of the splitter using a telephone wire. Connect the phone set to the PHONE port of the splitter using another telephone wire, and then connect the subscriber telephone line providing the ADSL service to the LINE port of the splitter, as shown in the hardware connection diagram.

The splitter has three ports, including:

- LINE: Port connected to the subscriber telephone line providing the ADSL service
- MODEM: Port connected to the DSL port of the ZXV10 W300 device

- Chapter 3 Quick Installation
- PHONE: Port connected to a phone set
- 3. Connect the LAN port of the device to a PC with a NIC using an RJ45 cable.
- 4. Connect the power adapter to the Power port of the device, and plug the adapter to the AC power socket. The device will be powered on and operate after you pushing the power switch button.



Please use the power adaptor we provided. Other power adaptor may make the device unable to work normally or even damage it.

#### **3.2 Factory Defaults**

Factory defaults of the ZXV10 W300 device are as follows:

- IP address: 192.168.1.1; Subnet mask: 255.255.255.0
- Use DHCP server by default. The IP address can be obtained from the device via DHCP.
- Line coding: AUTO (T1.413/G.DMT/G.LITE/ADSL2/ADSL2+ auto-sensing)
- WLAN default ESSID: BAVO
- Username and password for logging on to the device: admin, admin.



In the cases the device does not work due to configuration errors, or you forget the password, just insert a needle into the Reset hole of the device and hold down the button for more than 10 seconds when the device is powered on. This will restore the current settings to the factory defaults and then the system will restart automatically.



#### **3.3 Computer Setup**

#### 3.3.1 Checking Computer Settings

If your computer uses a proxy server to access the Internet, first you must disable the proxy service. You must also close the VPN software and the firewall running on your computer. In the Microsoft Internet Explorer, check the proxy service settings as follows:

- 1. In the browser window, select **Tools > Internet Options**.
- 2. Click the Connections tab and then the LAN Settings button.
- 3. Make sure the **Use a proxy server for your LAN** box is unchecked. If it is checked, uncheck it and click **OK**.

#### 3.3.2 Configuring TCP/IP

If your computer uses Windows 95/98/ME/2000/XP, set up your computer using one of the following two methods of which the first one is recommended. The following examples use Windows XP as the operating system. The setup of computers using other operating systems is similar.

1. The PC can obtain an address from the device via DHCP.

From the Windows taskbar, select Start > Control Panel.

2) Double-click the Network Connection icon.

3) From the right-button menu, select Local Area Connection > Properties. Select Internet Protocol (TCP/IP) > Properties.

4) From the **Internet Protocol (TCP/IP) Properties** dialog box:

Ensure that Obtain IP address Automatically is checked.

5) Ensure that **Obtain DNS server address** automatically is checked.

- 6) Click **OK** twice to confirm and save your settings.
- 2. Configure the PC to use a static address:

- Chapter 3 Quick Installation
- From the Windows taskbar, select Start > Control Panel.
- 2) Double-click the **Network Connection** icon.

3) From the right-button menu, select Local Area Connection > Properties. Select Internet Protocol (TCP/IP) > Properties.

4) In the Internet Protocol (TCP/IP) Properties dialog box, click Use the following IP address to specify the local computer's IP address to the same network segment as the LAN port address of the device, i.e. 192.168.1.x (in which the "x" is a decimal integer between 2~254). For example, 192.168.1.2, subnet mask 255.255.255.0. The Default Gateway is set to 192.168.1.1.

5) Configure Use the following DNS server addresses. To set the DNS server IP addresses, please contact your local Service Provider, or set it to 192.168.1.1.

6) Click **OK** twice to confirm and save your settings.

3. After completing the above configuration:

1) If the device is set to the bridging mode, you can access the Internet using the service (e.g. PPPoE dial-up) provided by the your service provider.

2) If the device is set to the routing mode, you can access the Internet directly when it has been connected to the office-end device successfully.

3) To check the ZXV10 W300 device settings, visit http://192.168.1.1 via a browser and log on to the device using admin as both the username and the password.

# 4 Wizard

You need relevant technical knowledge and experience for configuring the ZXV10 W300 device. To simplify your operations, it is recommended to use the wizard for quick configuration. A little configuration will allow you to establish the connection for basic use. However, to use advanced functions of the device, you need to configure other options.

Make sure the following issues before configuration:

- The computer has been connected to the Ethernet port of the device using a network cable.
- TCP/IP is set properly on your computer.
- All the running firewall and VPN software have been closed.
- The proxy server setting of the browser you use, e.g. IE, has been disabled.
- Your service provider has provided you with required data. You can contact your service provide for help.

#### 4.1 Logging on to the ZXV10 W300 Device

The ZXV10 W300 device provides a web-based configuration tool that allows you to configure and manage the device via a web browser. Open IE. Type in http://192.168.1.1 into the address bar and then press the Enter key. A login page as shown below appears.

Chapter 4 Wizard

	<b>•</b> 1	前体中文	/English
请登录后继续			
	用户名称: admin		
	登录密码:  *****		
			祭寺
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Select the language for web configuration. Enter your **Username** and **Password** (which are admin and admin by default), and then click the **Login** button to enter the configuration main page.

### 4.2 Setting ATM PVC

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Click the **Wizard** button on the main page to enter the quick configuration wizard which allows you to configure the DSL Modem quickly.

In the first step, the page displays the PVC default value of the WAN interface. The VPI/VCI value depends on the operational environment. Please contact your service provider for the data. After completing the setting, click **Next** on the page.





	快速配置 基本配置 高级配置 网络安全 无线配置 工具	/ 状态 / 简体中文 / English
快速配置>第一步		
1	快速配置	
-	快速配置将指导您一步一步地完成ADSL无线路由器设置。	
	因转网访问设置 ATM PVC 设置	
	您可以选择"自动搜索"选项或者向运营商咨询您所在地区的VPI/VCI。	
	自动搜索:	
	VPI: 8 (0-255)	
	VCI: 35 (32-65535)	
		下一步
	中兴通讯服份有限公司版权所有©2006	

#### **4.3 Connections**

You can select one of the ADSL access modes, including PPPoE, PPPoA, Bridge, DHCP, Static Bridged, Static Routed and CLIP, and then configure data encapsulation. Please contact your service provider for the settings of connection and encapsulation. After completing the setting, click **Next** on the page.

#### Chapter 4 Wizard



#### 4.4 Setting Configurations

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The configuration page you enter may be different depending on the type of connection you selected. The configuration sequences in the cases of the seven types of connections are as follows, respectively:

- PPPoA and PPPoE: ATM PVC Setting > Connection Type
   > PPP Username and Password > Configuration Information > configuration completed.
- DHCP and Bridge: ATM PVC Setting > Connection Type
   > Configuration Information > configuration completed.
- Static Bridged and Static Routed: ATM PVC Setting > Connection Type > WAN Setting > Configuration Information > configuration completed.
- CLIP: ATM PVC Setting > Connection Type > CLIP Setting > Configuration Information > configuration completed.

The following procedure takes the most common PPPoE as an example to illustrate how to set the PPP user account and password. Please contact



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your service provider for the specific parameters. After completing the setting, click **Next** on the page.

快速配置>第三	5		· 注销	
3	因特网访问设置 PPP连接的	用户帐号和密码		
	请输入由运营商提供建立PPP连接	的用户帐号和密码。		
	PPP 用户帐号: username			
	PPP 用户密码: ****			
		配置 / 高级配置 / 网络安全 /	无线配置 工具 状态	简体由文 / English
				MALLY CLUBIO
	快速配置>第四步			注销
	快速配置>第四步	快速配置 - 配置信息		注销
	快速配置>第四步	<b>快速配置 - 配置信息</b> 请确定以下设置状态为运营商所提供	2 】 供的服务设置。	· 注销
	快速配置>第四步	<b>快速配置 - 配置信息</b> 请确定以下设置状态为运营商所提供 <b>广域网设置:</b>	<b>〕</b> ま 共的服务设置。	注销 注销
	快速配置>第四步	<b>快速配置 - 配置信息</b> 请确定以下设置状态为运营商所提供 <b>广域阿设置:</b> C1	<b>〕</b> 其的服务设置。	注销 / 注销
	快速配置>第四步 VPI/// 注援方	快速配置 - 配置信息         i 確确定以下设置状态力运营商所提供           j 请确定以下设置状态力运营商所提供         「域网设置:           CI         8/35           式         PPPOE	<b>3</b> 供的服务设置。	注销
15 Con	快速配置>第四步 VPI/V 连接方 PPP月	<b>快速配置 - 配置信息</b> 请确定以下设置状态力运营商所提供 <b>厂域网设置:</b> CI 8/35 式 PPPoE iF帆号 username	3 其的服务设置。	(g) FT 人 Crynol 注销
4.5 Con	快速配置>第四步 VPI/V 连接刃 广域网	快速配置 - 配置信息           请确定以下设置状态为运营商所提供           「城村役置:           CI         8/35           式         PPPoE           JP帆号         username           IP地址         自动分配	<b>3</b> 共的服务设置。	注销
1.5 Con	快速配置>第四步 VPI/V 连接方 PPP用 厂 <sup>「</sup> 城网 缺省网	<b>快速配置 - 配置信息</b> 请确定以下设置状态力运营商所提供 <b>广城阿设置:</b> CI 8/35     式 PPPoE     JP帐号 username     IP地址 目动分配     关 自动分配	a 性的服务设置。	注销

### 4.6 Configuration Completed

After clicking the **Submit** button, the device will prompt it is submitting the data and checking the connection status. If the connection fails, check the failure cause according to the prompt message. To modify or check the entered parameters, click the **Back** button. To exit the wizard, click the **Back to Main Menu** button. To view the latest connection status, click the **Update Status** button.





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快速配置>第六步
连接状态
您的DSL网关的广城网连接已经配置,状态信息显示在下面。点击制新状态"按钮得到最新的连接状态,如果想修 改或者检查已经输入的参数,点击"返回修改"按钮,点击"返回主架单"进出向导配置。
请检查DSL线是否插好。如果靠在向导的第一步配置中选择了PVC'自动搜索'选项,请返回重试或者改为手 工输入本地区的VPI/VCI的值。如果其他多数输入有问题,请返回直接做改。
Modem连接状态 <del>斯开</del> 广域网连接状态 <del>斯开</del>
返回修改 返回主来单 剧新状态
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#### 4.7 Other Common Configurations

#### 4.7.1 Creating New WAN Connections

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If you have created a connection (e.g. Internet access) via the wizard, you can also create another WAN connection (service subscription required) for the access to the services like IPTV.

Click the **Basic Configuration** button on the main page, and then click **Create WAN Connection** on the left side of the page to configure WAN connections, including Bridge, CIP, PPPoA, PPPoE, Static and DHCP. The following procedure takes PPPoE connection as an example to describe the WAN connection parameters and operations.

	整配置 ) <mark>/ 基本配置 )</mark> / 高级配置 ) / 网络安全 / 行我說置 ) / 工具 / 状态 / / 前体中文 // Englis
配置->新建广域网连接->	PPoE // (RP / 注销
局域网配置	PPPoE连接设置
以太网端口配置	名称: PPPoE1 类型: PPPoE 🖌 共享: VLAN 🗸
DSL调制类型	选项: 🔽 NAT 🔽 防火墙 1 VLAN ID: 1 3 优先级: 3 🖌
新建广域网连接	PPP设置 O PVC设置
PPPoE1	用户名称: lusername Z 4 PVC: 8:35 -
	登录密码: **** VPI: 8
	空闲超时: 60 秒 VCI: 35
	按需拨号: □ QoS: UBR 🔽
	认证: ● Auto 〇 CHAP 〇 PAP PCR: <mark>0 c</mark> ps
	保持连接: <mark>10    分</mark>
	强制MTU: ✔ MTU: 1492 字节 MBS: 0 cells
	局域网: LAN group 1 🚽 CDVT: D usecs
	PPP Unnumbered:  F
	连接。断开
	提交 删除
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#### **PPPoE** parameter description

- 1. Globally unique parameters of the WAN connection
  - Name: Specifies the name of the connection to be created
  - Type: Specifies the type of the connection to be created
  - Options: Enables firewall and NAT
- 2. PPP parameter description
  - Username: Specifies your username for the PPPoE access
  - Password: Specifies your password for the PPPoE access
  - Idle time: Specifies the idle time allowed when no flow occurs on the PPPoE connection. The connection will be disconnected if the idle time is exceeded. The option cannot be configured unless the **Dial as needed** option is enabled.
  - Dial as needed: Indicates the connection should be disconnected if no flow occurs on the connection during the **idle time**.
  - Authentication: Provides three authentication options: Auto, CHAP and PAP.



#### Chapter 4 Wizard

- Hold connection: This option can be configured when the **Dial as needed** option is not selected. It specifies the waiting time for connecting your service provider before the connection is terminated.
- MTU: Maximum transmission unit of the DSL connection, i.e., the maximum number of bytes of data packets transmitted using TCP/IP. The greater the MTU value, the larger the encapsulated package, which improves the transmission rate in theory. However, the error rate during the transmission may increase also.
- Constrained MTU: Constrains all the TCP flow changes to match the PPP MTU
- LAN: LAN cannot be configuration unless the PPP Unnumbered option is selected. This option specifies the LAN groups to which data packets are sent.
- Default gateway: Specifies the default gateway. The WAN is connected to the Ethernet via the default gateway.
- PPP Unnumbered: Enabling this option will allow the ISP to specify the user a public IP address area. IP addresses in the area are allocated to the LAN side statically. It is essentially like a network bridge.
- 3. VLAN parameter description

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• Sharing: Provides three options

Disable: Disable the sharing of connection

Enable: Enables the sharing of connection

VLAN: Selects a VLAN. You can create VLANs, configure VLAN ID and priority levels.

- VLAN ID: All the members of the same VLAN have one VLAN ID, forming a virtual LAN. Packets sent by each host supporting the 802.1Q protocol contain this field to indicate the VLAN of the host.
- Priority level: Selects the VLAN priority from Level 0~7.

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- 4. PVC parameter description
  - PVC: PVC (permanent virtual circuit) provides a permanent logical connection between two terminals within a packet network during the contract application period. PVC does not require the call setup or clear procedure.
  - VPI: VPI (virtual path identifier) contains the first part of the ATM routing address to identify the virtual path between users or between user and ATM network.
  - VCI: VCI (virtual channel identifier) contains the second part of the ATM routing address to identify the virtual channel between users or between user and ATM network.
  - QoS: AMT QoS is the quality convention for information transmission and sharing between network and user and between the users communicated with each other on the network. QoS provides three types of services:

UBR: It does not guarantee any available bandwidth. The user can only use the unoccupied bandwidth. Data are transmitted on the basis of "best-effort".

CBR: Ensures to provide the user with the preset, fixed bits of available bandwidth on the entire virtual circuit.

VBR: Suitable for the services allowing bursting traffic

- PCR: Peak cell rate, the maximum rate of sending cells.
- SCR: Sustainable cell rate, the average cell transmission rate in a long time
- MBS: Maximum burst size. Specifies the maximum number of cells allowed to be sent at the peak cell rate.
- CDVT: Cell delay variation tolerance. Applicable to time-sensitive services. It specifies the maximum cell delay variation tolerance allowed between two sites.
- Obtain PVC automatically: Auto-sensing permanent virtual circuit

To create a new PPPoE connection, perform the following steps:

- Chapter 4 Wizard
- 1. Click the **Basic Configuration** button on the main page, and then click the **Create WAN Connection** on the left side of the page to enter the **PPPoE Connection Settings** page.
- 2. Type in the name of the PPPoE connection to be created in the **Name** box, e.g. "PPPoE1".
- 3. Set the NAT and Firewall options to default (enable).
- 4. If you select VLAN from Sharing, please configure VLAN ID and **Priority** according to the parameter description.
- 5. Input parameters in the **PPP settings** area. Please contact your service provider for the specific values.
- 6. Input the VPI and VCI values in the **PVC settings** area. Please contact your service provider for the specific values.
- 7. Select an option from **QoS**. If you are not sure of the setting or your service provider cannot provide you the required information, use the default.
- 8. Click Submit to complete the PPPoE connection configuration.

After the new connection is created, the connection name is displayed on the left side of the page. You can use the **Connect**, **Disconnect**, **Submit** and **Delete** buttons to manage this connection.

- 9. Click the **Save** button on the page.
- 10. Click the **Status** button on the main page, and then the **Connection Status** button on the left side of the page.

	央速配置	記畫(高級		网络安全 无线	北配置 )(	工具 状态 (简体中文	/English
状态->连接状态							]
连接状态				连接状态	5		
Modem状态					\		
DHCP客户端			i -	DNS 1 : N/4	4		
网络统计				DNS 2 : N/4	1		
产品信息			1	DNS S .JN/A	•		
	描述	类型	WAN I	p状态	在线时间	连接断开原因	
	pppoe	pppoe	N/A	Not Connected	0	DSL Line is Disconnected	1
							刷新
		中兴通道	【形份有	限公司版权所有©	2006		

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#### 4.7.2 UPnP

In the case the ZXV10 W300 works in the routing mode, if the terminal user runs special applications, e.g. BitComet and BitSpirit, you must enable UPnP on the device to optimize the performance.

Click the **Advanced Configuration** button on the main page, and then **UPnP** on the left side of the page to enter the UPnP configuration page. In this page, enable or disable the UPnP function and specify the UPnP WAN and LAN connections. To enable this function, check the **Enable UPnP** check box.

#### Chapter 4 Wizard



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- Enable UPnP: Enables/disables the UPnP function. The • default is disabled.
- WAN connection: Selects the WAN side connection
- LAN connection: Selects the LAN side connection

#### 4.7.3 DMZ

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When the device operates in Routing mode, if you try to access a service on a host placed in the intranet from an external network, the DMZ host function should be enabled.

Click the Advanced Configuration button on the main page, and then DMZ on the left side of the page to enter the DMZ configuration page. Select the LAN host IP address to be accessed from the WAL side. Check the Enable DMZ check box to enable this function.





- Enable DMZ: Enables/disables the DMZ function. The default is disabled.
- Select WAN connection: Selects the WAN connection using DMZ.
- Select LAN: Selects the LAN connection using DMZ
- Select a LAN IP address: DMZ host IP address. This host is open to the external network. Meanwhile, you must consider the security risk of the local network.

#### 4.7.4 Dynamic DNS

Dynamic domain name server (DNS) maps the use's dynamic IP address to a fixed domain name resolution server. Every time when the user is connected to the network, the client program will send the IP address, which the host has obtained dynamically via information transmission, to the dynamic domain name resolution server provided by the ISP. The dynamic domain name resolution server provides the DNS service and allows dynamic domain name resolution.

Click the **Advanced Configuration** button on the main page, and then **Dynamic DNS** on the left side of the page to enter the **Dynamic DNS Client** configuration page, where you can select the WAN connection for



the ZXV10 W300 device and configure DDNS (requires service subscription from your service provider and network carrier).

	央速配置	
高级配置->动态DNS	(保存)(注销)	
UPnP	动态 DNS 客户端	
DMZ	通过DDNS客户端设置,即使您的地址是动态的,您也可以访问您自己的网站,邮件服务器,FTP站点以及其她服务等。	
端口转发 局域网客户端	广域网连接: PPPoE1 ▼	
IGMP Snooping	DDNS 服务器: GNUDIP http 💌	
IGMP Proxy	动态DNS:	
QoS 入口规则	服务器:	
QoS 出口规则	用户名:	
QoS 整形	登录密码:	
策略路由	城名:	
静态路由		
动态路由		
动态DNS		
SNTP		
SNMP		
TR069		
	提交	
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- WAN connection: The default is the WAN connection for the ZXV10 W300.
- DDNS server: Specifies the DDNS server.
- Dynamic DNS: Enables/disables DDNS client for the WAN connection.
- Server: DDNS server URL (This option is displayed and needs to be configured only when **GNUDIP http** is selected. The default URL is http://ns.eagleeyes.com.cn/cgi-bin/gdipupdt.cgi).
- Username: Username assigned by the DDNS server vendor.
- Logon Password: Password assigned by the DDNS server vendor.
- Domain name: Domain name registered for the DDNS server.

#### 4.7.5 TR069

TR069 is the CPE WAN-side management protocol used for the

communications between CPE and ACS. CPE WAN management protocol defines its own mechanism. It allows the automatic CPE security configuration, and additionally, incorporates other CPE management functions into a common framework. The TR069 protocol allows remote device management.

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Click the **Advanced Configuration** button on the main page, and then **TR069** on the left side of the page to enter the **TR-069** configuration page, where you can configure the URL and account for connecting CPE and ACS.

	快速配置 / 基本配置 / 高级配置 / 网络安全 / 无线配置 / 工具 / 状态 / 简体中文 / English			
高级配置->TR069	「「「「「「「「「」」」」(「「「」」」)(「「」」)(「」」)(「」」)(「			
UPnP	TR-069			
DMZ				
端口转发	ACS URL: http://192.108.1.2:99			
局域网客户端	用户名:			
IGMP Snooping	密码:			
IGMP Proxy	连接请求URL:			
QoS 入口规则	连接请求用户名:			
QoS 出口规则	连接请求密码:			
QoS 整形	默认WAN连接: pppoe ▼			
策略路由	使能周期Inform: ▼			
静态路由	Inform 周期时间: 300			
动态路由				
动态DNS				
SNTP				
SNMP				
TR069				
	ACS 连接			
	提交			
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- ACS URL: ACS URL address provided by ISP. You can also use the default.
- Username: Username of the ACS.
- Password: Password of the ACS
- URL of connection request: Displays the URL that the CPE provides to the ACS for reverse access.
- Username for connection request: Username of the ACS for the authentication by CPE.
- Password for connection request: Password of the ACS for

#### Chapter 4 Wizard

the authentication by CPE.

- Default WAN connection: The default WAN connection that TR069 uses.
- Enable periodic Inform: Enables/disables the periodic connection from the ZXV10 W300 to the ACS. If it is enabled, you must input a value in the **Inform cycle time** field.
- Inform cycle time: Check the Enable periodic Inform check box and configure the time between a successful connection and a new connection attempt to the ACS server.

# **5** Technical Specifications

### 5.1 Hardware Specifications

- 1. ADSL interface
  - Compliant standards: ITU G.992.1, G.992.2, G.992.3, G.992.5 and ANSI T1.413 Issue 2.
  - Line impedance: 100 Ù
  - Connection line: A pair of ordinary telephone wires
  - Connector: RJ-11
- 2. LAN interface
  - Interface: 4 10/100 Base-T, IEEE 802.3/802.3u
  - Connector: RJ-45
  - Automatic recognition of crossover cable and straight-through cable
- 3. WLAN interface
  - Working frequency band: 2.4GHz~2.4835GHz
  - Compatible standards: IEEE 802.11g, IEEE 802.11b
  - Rates: 1/2/5.5/11/6/9/12/18/24/36/48/54Mbps
- 4. Operation and Maintenance
  - WEB, SNMP, TR069
- 5. Power specification
  - Power adapter: 220 VAC/50Hz input, 18 VAC/500 mA output
  - Power < 9 W
- 6. Security

CE FCC

#### Chapter 5 Technical Specifications

- 7. Enviroment requirement
  - Working temperature: -5 °C  $\sim$  45 °C
  - Storage temperature:  $-40 \text{ °C} \sim 70 \text{ °C}$
  - Working humidity: 5% ~ 95%
  - Storage humidity:  $10\% \sim 100\%$
- 8. Hardware specification
  - Dimensions: 220mm  $\times$  145mm  $\times$  39mm (W  $\times$  L  $\times$  H)
  - Weight: 0.5kg (without power supply)

#### 5.2 Software Specifications

- 1. ATM
  - VPI: 0~255; VCI: 32~65535
  - Support 8 PVC connections and auto-negotiation
  - ATM Cell over ADSL, AAL5
  - Support UBR, CBR and VBR
  - Support OAM F4/F5
  - IPoA
  - PPPoA
  - **PPPoE**
- 2. Bridging
  - Transparent bridging (IEEE 802.1D)
  - RFC 2684
  - Spanning-tree protocol (IEEE 802.1D)
  - Support 2048 MAC learning addresses
  - Support bridge filter

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- 3. Routing
  - Static routing
  - Dynamic routing and policy routing
  - NAT, ALGs
  - Firewall
  - DNS Proxy, IGMP Proxy
  - UPnP DMZ
- 4. NM
  - WEB
  - SNMP
  - TR069
- 5. WLAN
  - IEEE 802.11g/b
  - WEP, WPA/WPA2 and MAC address filtering
  - Hidden ESSID, multiple ESSID domains
  - Subscriber isolation

# 6 Qs and As

This chapter describes how to troubleshoot problems in the ZXV10 W300 installation and operations. For other problems not contained in this chapter, please contact your Service Provider for help.

Problem	Troubleshooting
The indicator is OFF when the device is powered on	Make sure that you use the power adapter included in the package and the adapter is connected properly to the device and power socket on the wall
DSL indicator is OFF when the telephone wire is connected	Make sure you use standard telephone lines (e.g. those contained in the device package). Make sure the lines are connected properly according to the hardware connection procedure described in Chapter 3. Check all the ports to see if there are any loose connections. Wait for 30 seconds for the device to establish a connection to your ADSL service provider.
When the telephone wire is connected, the DSL indicator alternates between slow and fast flashing.	The symptom indicates the failed connection between the device and the office-end ADSL. Make sure cables are connected properly according to the hardware connection procedure described in Chapter 3. If a telephone is required in front of the splitter, make sure a microfilter is installed properly.
LAN indicator is OFF when the Ethernet cable is connected	Make sure the Ethernet cable is connected properly to the hub/Ethernet switch/computer and the ZXV10 W300 device. Make sure the hub/Ethernet switch/computer are powered on.

Problem	Troubleshooting
PC unable to access the network	Use the Ping command to check if the network interface IP address (preset to 192.168.1.1) of the device can be pinged from the computer. If not, check the Ethernet cable connection. Check if the indicator status is normal. If the computer uses a private IP address (not a registered illegal IP) specified manually, please check if the computer's gateway IP address is an illegal address. If not, use a correct gateway, or set the computer to obtain IP information automatically. All the running firewall and VPN software have been closed. The proxy server setting of the browser you use, e.g. IE, has been disabled. Contact your ADSL Service Provider to confirm the DNS server designated for the computer is valid. Otherwise, use the correct DNS, or set the computer to obtain IP information automatically. Make sure you have set the NAT rule to convert the private IP address into the legal address. The computer IP address you specified must be contained in the range set in the NAT rule. A problem may occur in the office-end device of the ADSL Service Provider.
WLAN unable to be connected	Make sure the WLAN radio frequency is turned on and the WLAN indicator is ON.
Unable to browse Internet web pages on the computer	Make sure the DNS server designated for the computer is correct. You can use the Ping command to check if the computer can be connected to the DSN server of the ADSL Service Provider.

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#### Statement:

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