



## **FCC Certifications**

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

## CE Mark Warning

This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

User Manual ADSL2+ Modem Router Model No. SP3361

Web: www.micronet.com.tw ; www/micronet.info

# CE F©

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# **Chapter 1. Introduction**

This device is a full-featured ADSL2+ modem router that provides Ethernet direct connections to individual PCs or local area network with 10/100 Base-T Ethernet. This product uses advanced ADSL chipset solution with complete set of industry standard features and high-speed ADSL, ADSL2 and ADSL2+ Internet access solution for SOHO and residential users. User can enjoy higher quality multi-media and real-time applications such as Video-on-Demand, online gaming and other bandwidth consuming services. Also the feature-rich routing functions are integrated to ADSL/ADSL2+ service for existing corporate or home users seamlessly.

## 1.1 System Requirements

- Pentium III 266 MHz processor or higher
- 128 MB RAM minimum
- 20 MB of free disk space minimum
- Ethernet Network Interface Controller (NIC) RJ45 Port
- USB Port
- CD drive

## 1.2 Packag e Contents

- ADSL2+ Modem Router
- RJ-45 Ethernet cable
- RJ-11 Phone cable

- USB Cable (for dual mode router only)
- Powe r Adapter
- Driver and Manual CD
- Quick Installation Guide

If any of above items is missing or d amaged, please contact your local dealer immediately.

# **Chapter 2. Features**

## 2.1 ADSL Compliant

- ANSI T1.413 issue 2
- ITU-T G.992.1 (G.dmt)
- ITU-T G.992.2 (G.lite)
- G.994.1 (G.hs, Multimode)
- ITU-T G.992.3 (ADSL2 G.dmt.bis)
- ITU-T G.992.4 (ADSL2 G.lite.bis)
- ITU-T G.992.5 (ADSL2+, Annex A, B, I, J, L & M)

## 2.2 ATM Protocols and Encapsulations

- Support up to 8PVCs
- ATM Forum UNI 3.1/4.0 PVC
- Traffic Shaping UBR, CBR, VBR-nrt
- Multi Protocol over AAL5 (RFC1483 / 2684)
- Classical IP over ATM (RFC 1577)
- OAM F4 and F5 segment end-to-end loopback, AIS, and RDI OAM cells
- VC and LLC Multiplexing
- VPI is 0~255 and VCI is 32~65535

## 2.3 PPP Support

- PPP over Ethernet (RFC 2516)
- PPP over ATM (RFC 2364)
- PPP over PAP (Password Authentication Protocol; RFC1334)
- PPP over CHAP (Challenge Authentication Protocol; RFC1994)

## 2.4 Bridging / Routing Support

- Ethernet to ADSL self-learning Transparent Bridging (IEEE 802.1D)
- IP routing-RIPv2 (backward compatible with RIPv1)
- Static IP routing
- IGMP Proxy
- IP Multicast IGMP v1/v2
- ICMP support
- MIB II support (RFC 1213)

## 2.5 IP Management

- NAT (Network Address Translation)
- PAT (Port Address Translation)
- DHCP Server / Relay / Client
- Virtual Server and DMZ
- DNS Proxy / Relay
- DD NS
- UPnP

## 2.6 Securit y

- PAP (Password Authentication Protocol; RFC1334)
- CHAP (Challenge Authentication Protocol; RFC1994)
- Password Protected System Management
- VPN (IPSec, PPTP, L2TP) Pass-Through
- Built in NAT Natural Firewall
- Web page Content Filtering

## 2.7 Device Management

- Web-based GUI Configuration / Management
- Command-line Interpreter (CLI)
- Telnet Remote Management
- Firmware upgrade via FTP / TFTP
- SNMP Support
- Built-in Diagnostic tool

## 2.8 Interface

- One USB port compliant with USB v1.1, full speed (12Mbps)
- One RJ45 port compatible with IEEE 802.3/802.3u, 10/100Mbps auto selection
- One RJ11 port for ADSL connection
- One power switch button for turn ON/OFF
- One reset button for restoration of factory default setting

# **Chapter 3. Hardware**

## 3.1 Front Panel

Front panel has LED indicators to display the operating status.

Microne			USB	PWR	
SP3361 ADSL 2+ /	Modem Route	er			

#### **Descriptions of LED status**

ADSL	When connection with Internet (ADSL Connected) is established, this LED will light up. When this LED is flashing: NO ADSL physical connection
DATA	When router is transferring data between Internet and router, this LED will be flashing.
LAN	When connection 10/100MB with end user is established, this LED will light up. When router is transferring data between router and end user, this LED will be flashing.
USB	When an active USB cable is connected with router, this LED will light up.
PWR	When an active power adapter is connected with router, this LED will light up.

## 3.2 Back Panel



#### **Descriptions of All Connectors**

LINE	Connect with telephone line.
USB	Connect with USB cable.
RESET	Reset button.
LAN	Connect with Ethernet Cable to Switch Hub or PC
POWER	Connect with power adapter
ON/OFF	Power switch button

## **3.3 Connect Related Devices**

1) Connect Router to LINE

Plug the provided **RJ-11 phone cable** into **LINE port** on the back panel of the router and insert the other end into splitter or wall phone jack.

2) Connect Router to LAN

Plug **RJ-45 Ethernet Cable** into **LAN port** on the back panel of the router and insert the other end of the Ethernet cable on your PC's Ethernet port or switch / hub.

3) Connect Router to Power Adapter

Plug Power Adapter to POWER port on the back panel of

the router and the other end to a power outlet.

- 4) Press ON/OFF button to start the router
- If connect the router via USB cable, plug the provided USB cable into USB port on the back panel of the router and insert the other end of the USB cable on your PC.

Warning! Only use the power adapter provided in the package, otherwise it may cause hardware damage.

# **Chapter 4. Connection**

This ADSL modem router can be connected with PC through either Ethernet cable or USB cable. After connection is established, configure the host PC to be a DHCP client. Repeat the same steps for every host PC on the network which uses DHCP function on this router. It also accepts host PC using fixed virtual IP which is resided in the same sub network of this router.

#### 4.1 Setup ADSL router via Ethernet Cable

If there is an available LAN card present on PC, simply connect ADSL router and PC through the Ethernet cable. Once Internet connection is established, you could browse the Web through the Ethernet cable.

### 4.2 Setup ADSL router via USB Cable

PC can be connected ADSL router via USB cable while no LAN card present on it. USB cable acts as another LAN connection in this scenario. Once Internet connection is established, you could browse the Web through the USB cable.

#### **USB Device Driver Installation**

#### For windows 98SE and ME:

- Step 1: Connect ADSL Router and PC with USB cable.
- Step 2: Once "Add New Hardware Wizard" window pops out, click

#### "Cancel".



Step 3: Browse your installation CD and direct the device drive path which depends on your operating system. Then, double-click "Setup.exe" to execute the installation process.



#### Step 4: Choose Setup Language and click "Next" to continue.



#### Step 5: Click "Next" to continue.



Step 6: Select the setup type to install and click "Next" to continue.



#### Step 7: Click "Next" to continue.



Step 8: Select "Yes, I want to restart my computer now" to restart your

computer and click "OK".



#### Step 9: Click "Finish" to exit the wizard.



Step 10: After complete the installation process, the system will ask to restart your computer. Please click "**Yes**" to reboot it.

System S	ettings Change 🛛 🔀
?	To finish setting up your new hardware, you must restart your computer. Do you want to restart your computer now?
	Yes <u>N</u> o

After OS boots up, go through **"Start → Settings → Control Panel** 

→ System → Device Manger" to check if USB device is installed properly,

System Properties	?   ×
General Device Manager Hardware Profiles Performance	
· · · ·	
• View devices by type • • • • • • • • • • • • • • • • • • •	
Disk drives	
Eloppu disk controllers	
E Hard disk controllers	
E C Keyboard	
🗄 🖳 💭 Monitors	
🗄 🗄 Mouse	
🖶 🗐 Network adapters	
Dial-Up Adapter	
TrendChip USB ADSL Modem	
Ports (COM & LPT)	
En Sound, video and game controllers	
System devices	
Properties Befresh Bemove Print.	1
	1
OK Cance	

#### For Windows 2000 and XP:

Step 1: Connect ADSL Router and PC with USB cable.

Step 2: Once "Found New Hardware Wizard" window pops out,

chooses "Install from a list or specific location

(advanced)" and click "Cancel":

Found New Hardware Wiz	ar d	
	Welcome to the Found New Hardware Wizard This wizard helps you install software for: USB Device	
	If your hardware came with an installation CD or floppy disk, insert it now. What do you want the wizard to do?	
1	<ul> <li>[Install the software automatically [Recommended]</li> <li>Install from a list or specific location (Advanced)</li> <li>Click Next to continue.</li> </ul>	
	K Back Next > Cancel	

Step 3: Browse your installation CD and direct the CD drive path.

Then, double-click "Setup.exe" to execute the installation process.



Step 4: Choose Setup Language and click "Next" to continue.

Choose Setup Language Select the language for the inst	allation from the choices below.	
	Endith French (Standard) German Spanich	
InstallShield	< Back Next >	Cancel

#### Step 5: Click "Next" to continue.



#### Step 6: Select the setup type to install and click "Next" to continue.



## Step 7: Click "Next" to continue.



#### Step 8: Click "Finish" to exit the wizard.



#### For Windows XP:

Go through "Start  $\rightarrow$  Control Panel  $\rightarrow$  System  $\rightarrow$  Hardware  $\rightarrow$  Device Manager" to check if USB device is installed properly.

#### FOR Windows 2000:

Go through "Start → Settings → Control Panel → System → Hardware → Device Manager" to check if USB device is installed properly.



## 4.3 Configure TCP/IP

#### For Windows 98SE and ME

Step 1: Click Start then Settings and choose Control Panel

Step 2: Double click Network icon.

Step 3: Select **Configuration** tab, then choose **TCP/IP** from the list of installed network components and click **Properties** button.

Step 4: You can setup the following configurations in **two** methods:

Network ?X				
Configuration   Identification   Access Control				
The following network components are installed:				
Bealtek RTL8139/810X Family Fast Ethernet NIC				
TCD/ID > DistUs Adaptes				
CF/IP -> Dial-Op Adapter      TCP/IP -> Dial-Op Adapter      TCP/IP -> Bealtek BTI 9129/910Y Family Fact Ethernet N				
TCP/IP -> TrendChip USB ADSL Modem				
Add Remove Properties				
Primary Network Logon:				
Microsoft Family Logon				
File and Print Sharing				
TCP/IP is the protocol you use to connect to the Internet and				
wide-area networks.				

**Option1:** Get an IP from router automatically.

"

Choose **Obtain an IP address automatically** option in the next window.

TCP/IP Properties				?)	<
Bindings	Adv.	anced	N	etBIOS	ļ
DNS Configuration	Gateway	WINS Confi	guration	IP Address	Ш
An IP address can If your network do your network admi the space below.	be automati as not autom nistrator for a	ically assigne natically assig an address, a	d to this c n IP addre nd then ty	omputer. esses, ask ipe it in	
Obtain an IP	address aut	omatically			П
C Specify an IF	address:				
[P Address:					
S <u>u</u> bnet Mas	k:				
		OK		Cancel	

## 1) Select Gateway tab and click OK.

TCP/IP Properties		? ×
Bindings DNS Configuration	Advanced Gateway WINS Conf	NetBIOS
The first gateway i The address order machines are used	n the Installed Gateway li in the list will be the orde I.	st will be the default. r in which these
New gateway:	. <u>A</u> do	
_ Installed gatewa	ys:	ve
	10	Cancel

2) Select DNS Configuration tab and select Disable DNS then click OK.

TCP/IP Properties				? ×
Bindings	Adv Gatawaw	anced	Ne Netronal	etBIOS
<ul> <li>Disable DNS</li> </ul>	dialeway	WIND CUTII	guration	
C Enable DNS				
<u>H</u> ost:		D <u>o</u> main:		
DNS Server Sea	rch Order —			
	•		<u>A</u> dd	
		B	emove	
Domain Suffix Sa	arch Order			
			A <u>d</u> d	1
		B	emove	
		OK		Cancel

**Option2:** Configure IP manually.

 Select Specify an IP address, set default IP address for the router is 192.168.1.1, so use 192.168.1.x (x is a number between 2 to 254) for IP Address field and

255.255.255.0 for Subnet Mask field.

тср/ір	Properties				? ×
E	Bindings	) Adv	anced	N	etBIOS
DNS (	Configuration	Gateway	WINS Config	guration	IP Address
An I If yo your the :	P address can our network doo network admi space below.	be automat es not auton nistrator for a	ically assigned hatically assign an address, ar	d to this c n IP addro nd then ty	omputer. esses, ask vpe it in
0	<u>O</u> btain an IP	address aut	omatically		
- •	<u>Specify</u> an IF	) address:—			
	IP Address:	192	.168.1	. 9	
	S <u>u</u> bnet Mas	k: <b>255</b>	. 255 . 255	. 0	
			OK		Cancel

 Select Gateway tab and add default router IP address (192.168.1.1) in the New gateway field and click Add.

TCP/IP Properties		? >
Bindings DNS Configuration	Advanced Gateway WINS Cont	NetBIOS
The first gateway i The address order machines are used	n the Installed Gateway I in the list will be the orde I.	ist will be the default. Ir in which these
<u>N</u> ew gateway: 192.168.	1.1 <u>A</u> d	
Installed gatewa	ys:	ive
	01	K Cancel

 Under DNS Configuration tab, select Enable DNS and add DNS values which provides by your local ISP in DNS Server Search Order field then click Add.

CP/IP Properties	? ×
Bindings Advance	ed NetBIOS NS Configuration IP Address
Djsable DNS     Enable DNS     DIS     DIS     DIS     Server Search Order     192.168.1.1	omain:
Domain Suffix Search Order —	A <u>d</u> d Re <u>m</u> ove
	OK Cancel

#### For Windows 2000

#### Step 1: Right click My Network Places and select Properties in the

main window screen.



Step 2: Right click Local Area Connection (the local network hooked

up with ADSL router) and select Properties:



#### Step 3: Select Internet Protocol (TCP/IP) then click Properties.

Local Area Connection 2 Properties
General
Connect using:
TRENDCHIP USB ADSL Modem
Configure
Components checked are used by this connection:
File and Printer Sharing for Microsoft Networks      Internet Protocol (TCP/IP)
Install Uninstall Properties
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
Sho <u>w</u> icon in taskbar when connected
OK Cancel

Setup the following configurations in two methods:

#### **Option1: Configure IP automatically**

Select Obtain an IP address automatically and Obtain DNS server address automatically then click OK to complete IP configuring process.

ou can get IP settings assigned ; is capability. Otherwise, you nee e appropriate IP settings.	automaticalļ ed to ask you	y if yo Ir net	our nel work	twork su administ	ipports rator fo
Obtain an IP address autom	atically				
Use the following IP address	8:				
[P address:		3	35	53	_
Sybnet mask:		÷	47	-	-
Default gateway:		4 <u>4</u>	¥ř.	2	-
Obtain DNS server address	automaticall	y)			
C Use the following DNS serve	er addresses	x			
Ereferred DNS server:		:1:	±1:	-	
Alternate DNS server:		*		10	
				Adv	anced.

#### **Option2:** Configure IP Manually

Select Use the following IP address and Use the following DNS server addresses.

**IP address**: Fill in IP address 192.168.1.x (x is a number between 2 to 254).

Subnet mask: Default value is 255.255.255.0.

**Default gateway**: Default value is 192.168.1.1.

Preferred DNS server: Fill in preferred DNS server IP address.

Alternate DNS server: Fill in alternate DNS server IP address.

nternet Protocol (TCP/IP) Propertie	s ?X
General	
You can get IP settings assigned autom this capability. Otherwise, you need to a the appropriate IP settings.	natically if your network supports ssk your network administrator for
<u>U</u> btain an IP address automaticall	y
IP address:	192.168.1.9
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
Default gateway:	192.168.1.1
C Obtain DNS server address autor	natically
Use the following DNS server add	Iresses:
Preferred DNS server:	· · ·
<u>A</u> lternate DNS server:	· · ·
	Ad <u>v</u> anced
	OK Cancel

#### For Windows XP

Step 1: Click **Start** then select **Control Panel** in the main window screen.



Step 2: Double click Network Connections icon.



Step 3: Right click Local Area Connection (local network your ADSL hooked up with) then select Properties:



Step 4: Sele ct Internet Protocol (TCP/IP) then click Properties to configure IP with either option below.

	Authenticatio	n Aav	/anced			
Connec	t using:					
	RENDCHIP L	JSB AD	SL Moder	i:		
This c <u>o</u>	nnection uses	the follo	owing item	s:		onfigure
	File and Prin QoS Packet Internet Prot	ter Shar Schedu ocol (TC	ing for Mic uler (P/IP)	rosoft M	Vetwork	
Desc	iption		<u>o</u> rin to con			oporado
Tran wide acro	smission Contr area network ss diverse inte	ol Proto protoco rconnec	col/Intern I that prov ted netwo	et Proto ides co ırks.	icol. Thi mmunic	e default ation
			area when	conner	ted	

#### **Option1:** Configure IP address automatically

Select Obtain an IP address automatically and Obtain DNS server

#### address automatically:

You can get IP settings assigned automatically if your network support this capability. Otherwise, you need to ask your network administrator is the appropriate IP settings. IP address:         IP address:         IP address:         Subnet mask:         Default gateway:         O Use the following IP address automatically         IP address:         IP addr	eneral	Alternate Configuration	
Dbtain an IP address automatically   Uge the following IP address:   IP address:   Sybnet mask:   Default gateway:     O Dbtain DNS server address automatically   O Use the following DNS server addresses:   Preferred DNS server:   Alternate DNS server:	íou car his cap he appi	n get IP settings assigne ability. Otherwise, you n ropriate IP settings.	d automatically if your network supports eed to ask your network administrator fo
Use the following IP address: IP address: Use fault gateway: Obtain DNS server address automatically OUse the following DNS server addresses: Preferred DNS server: Alternate DNS server:	00	tain an IP address auto	matically
IP address:       Image: Constraint of the second sec	OUs	e the following IP addre	\$\$:
Subnet mask:	IP ad	dress:	the second
Default gateway:	Sybn	et mask:	· · · · · · · · · · · ·
Obtain DNS server address automatically     Use the following DNS server addresses:     Preferred DNS server:     Alternate DNS server:	<u>D</u> efa	ult gateway:	
Use the following DNS server addresses:         Preferred DNS server:         Alternate DNS server:	0 O E	tain DNS server addres	s automatically
Preferred DNS server:	OUs	<u>e</u> the following DNS ser	ver addresses:
Alternate DNS server:	Prefe	rred DNS server:	
	Alterr	nate DNS server:	· · · · · · · ·
Adyance			Advanced.

#### **Option2:** Configure IP address manually

Step 1: Select Use the following IP address and Use the following

#### DNS server addresses.

Internet Protocol (TCP/IP)	Properties 🛛 🛛 💽
General	
You can get IP settings assigne this capability. Otherwise, you r the appropriate IP settings. O Obtain an IP address auto	ed automatically if your network supports need to ask your network administrator for omatically
Ose the following IP address	
<u>I</u> P address:	192.168.1.9
S <u>u</u> bnet mask:	255 . 255 . 255 . 0
<u>D</u> efault gateway:	192.168.1.1
O Obtain DNS server addres	ss automatically
OUSE the following DNS se	
Preferred DNS server:	
<u>A</u> lternate DNS server:	
	Ad <u>v</u> anced
	OK Cancel

**IP address**: Fill in IP address 192.168.1.x (x is a number between 2 to 254).

Subnet mask: Default value is 255.255.255.0.

**Default gateway**: Default value is 192.168.1.1.

**Preferred DNS server**: Fill in preferred DNS server IP address. **Alternate DNS server**: Fill in alternate DNS server IP address. You can use ping command under DOS prompt to check if you have setup TCP/IP protocol correctly and if your computer has successfully connected to this router.

Type **ping 192.168.1.1** under DOS prompt and the following messages will appear:

Pinging 192.168.1.1 with 32 bytes of data: Reply from 192.168.1.1: bytes=32 times<2ms TTL=64 Reply from 192.168.1.1: bytes=32 times<1ms TTL=64 Reply from 192.168.1.1: bytes=32 times<10ms TTL=64

If the communication link between your computer and router is not setup correctly, after you type **ping 192.168.1.1** under DOS prompt following messages will appear:

Pinging 192.168.1.1 with 32 bytes of data:

Reques	t timed out.
Reques	t timed out.
Reques	t timed out.

This failure might be caused by cable issue or something wrong in configuration procedure.

## 4.4 USB Device Driver Installation on MAC OS

Step 1: Once you insert the device driver CD disk, direct the path of your MAC OS. Double-click the compressed ".zip" file to unzip the file. Then, you will get a ".pkg" file.



Step 2: Double-click the "**.pkg**" file, the Trendchip ADSL modem installer windows will appear. Click "**Continue**" to go next process.



Step3: Select a Destination to install the Trendchip ADSL Modem software and click "**Continue**".



#### Step 4. Click "Continue" to go next process.



#### Step 5: Click "Install" to begin the installation process.



Step 6: Enter your Name and Password for the system. Then, click "**OK**" to continue.

	Authenticate
	staller requires that you type your password.
Name:	1234
Password:	
Details	
?	Cancel OK

Step7: Click "Continue Installation" to start installation.



Step 8: Click "Restart" to finish installing the software.

00	Install Trendchip ADSL Modem
	Install Software
<ul> <li>Introduction</li> <li>Select Destination</li> <li>Installation Type</li> <li>Installing</li> <li>Finish Up</li> </ul>	The software was successfully installed
	Click Restart to finish installing the software.
	Go Back Restart

Step 9: After restart the PC, click "**System Preferences**" on the bottom of the desktop.



#### Step 10: Click "Network" icon on the System Preferences windows.

$\bigcirc \bigcirc \bigcirc \bigcirc$		Sy	stem Prefere	ences		C
Personal						
File New				3	Ô	
Appearance	Desktop & Screen Saver	Dock	Exposé	International	Security	
Hardware						
$\bigcirc$		$\mathbf{Q}$	B		۵	
CDs & DVDs	Displays	Energy Saver	Keyboard & Mouse	Print & Fax	Sound	
Internet &	Network					
		0				
.Mac	Network	QuickTime	Sharing			
System						
11	9	Ch	()	0	2	
Accounts	Classic	Date & Time	Software Update	Speech	Startup Disk	Universal Access

Step 11: Once your Ethernet Adapter's button is " Green", it means

your ADSL Router is successful installed.

	Locatio	n: Automatic	
	Sho	w: Network Status	
Θ	Ethernet Adaptor (en1)	Ethernet Adaptor (en1) is currently active and has the IP add 192.168.1.25. You are connected to the Internet via Etherne Adaptor (en1).	ress t
0	Internal Modem	Internal Modem is configured, but is not connected.	
•	Built–in Ethernet	The cable for Built-in Ethernet is not plugged in.	
		Company Command	

Step 12: Fill in TCP/IP IP address.

**IP address**: Fill in IP address 192.168.1.x

(x is a number between 2 to 254).

Subnet mask: Default value is 255.255.255.0.

Router: Default value is 192.168.1.1

0	Network	
w All Displays Sou	Startup Disk Network	
Lo	cation: Automatic	\$
	Show: Ethernet Adaptor (en1)	•
TCP/	P PPPoE AppleTalk Proxies Eth	nernet
Configure IPv4:	Manually	
IP Address:	192.168.1.25	
Subnet Mask:	255.255.255.0	
Router:	192.168.1.1	
DNS Servers:	168.95.1.1	
Search Domains:		(Optional)
IPv6 Address:	fe80:0000:0000:0000:0201:02ff:fe03:04	05
	Configure IPv6	(?)
0		
📕 Click the lock to pr	event further changes. Assist m	e) ( Apply Now

#### Step 13: Go to "Applications" $\rightarrow$ double-click "Internet Explorer"

icon.



Step14: Enter the default IP address http://192.168.1.1



Step15: Entry of the username and password will be displayed. Enter the default **User ID** and **Password**. The default login **User ID** of the administrator is **admin**, and the **default admin login password** is **trendchip**. Then, click "**OK**" to enter.

Connect to	"192.168.1.1" as:
User ID:	admin
Password:	
Realm:	TrendChip ADSL Router
Remember Passv	vord Cancel OK

After you enter User ID and Password, the main webpage will show as below.

tter and casier Netw	VORS	Trendchip Moden
Status	Quick Interface Advanced Access Start Setup Setup Management Ma	aintenance <mark>Status</mark> Help
	Device Info System Log Statistics	
evice Information	1	
	Firmware Version : 2.2.31(UE0.B2)3.2.0	
	MAC Address : 00:06:4f:00:00:05	
LAN		
	IP Address : 192.168.1.1	
	Subnet Mask : 255.255.255.0	
	DHCP Server : Enabled	
WAN		
	Virtual Circuit : PVC0 💌	
	Status : Connected	
	Connection Type : PPPoE	
	IP Address : 61,229,40,168	
	Subnet Mask : 255.255.255.255	
	Detault Gateway: 61.229.24.254	
	DING Server, 100.95.1.1	

# **Chapter 5. Configuration**

ADSL Router supports a web-based (HTML) GUI to allow users to configure router setting via Web browser.

## 5.1 Login

- 1) Launch the Web browser.
- 2) Enter the default IP address http://192.168.1.1
- Entry of the username and password will be displayed. Enter the default login

#### User Name and Password:

The default login **User Name** of the administrator is **admin**, and the default **login password** is **trendchip**.

TrendChip ADSL	Router	
User name:	😰 admin	~
Password:	•••••	

The main webpage will be displayed as below:

Faster and Easier Netwo	et.				Trendchi	p Moden
Status	Quick Interface Start Setup	Advanced Setup	Access Managem	ent Maintenand	ce Status	Help
Grando	Device Info Syst	tem Log	Statistics			
Device Information						
	Firmware Version	i: 2.2.31(UE0.I	B2)3.2.0			
Lan	MAC Address	; 00:06:4f:00:0	00:05			
	IP Address	: 192.168.1.1				
	Subnet Mask	: 255.255.255	.0			
	DHCP Server	r ; Enabled				
WAN						
	Virtual Circuit	PVC0 -				
	Status	: Connected				
	Connection Type	: PPPoE				
	IP Address	: 61.229.40.18	58			
	Subnet Mask	: 255.255.255	.255			
	Default Gateway	: 61.229.24.25	54			
	DNS Server	r: 168.95,1.1				
ADSL						
	ADSL Firmware Ver.	: FwVer:3.2.0	.4_A_TC3084 H	lwVer:T14.F7_0.0		
	Line State	: Showtime				
	Modulation	i ; G.DMT				
	Annex Mode	: ANNEX_A				
	Max TX Power	r: -38 dBm/Hz				
		Downstream	n Upstream			
	SNR Margin	1: 46.0	29.0	db		
	Line Attenuation Data Rate	10.5	64	kbps		

## 5.2 Quick Start

Click **Quick Start** to guide you to configure the device to connect your ISP and have Internet access within minutes. This Quick Start helps you connect to the Internet as easily as possible.

NOTE: It is a strong recommendation that using Quick Start to set your ADSL settings.



 Welcome to the Setup Wizard. The Wizard will guide you through these four guick Start

 Welcome to the Setup Wizard. The Wizard will guide you through these four guick steps. Begin by clicking on Next.

 Step 1. Set your new password

 Step 2. Choose your time zone

 Step 3. Set your Internet connection

 Step 4. Re-start your ADSL router

The Quick Start setup wizard includes four quick steps:

- 1) Set your new password.
- 2) Choose your time zone.
- 3) Set your Internet connection.
- 4) Re-start your ADSL router.

Please follow the quick start step by step to configure the device. If ISP provides DNS, after complete Quick Start configuration, please go to **Interface Setup**  $\rightarrow$  **Internet** to configure the DNS settings.

## 5.3 Interface Setup

Click **Interface Setup** to set ATM VC values, setup Encapsulation, configure PPPoE/PPPoA connection settings and LAN configuration.

#### 5.3.1 Interne t

**Virtual Circuit: VPI** (Virtual Path Identifier) and **VCI** (Virtual Channel Identifier).

VPI – The valid range for the VPI is 0 to 255.

VCI – The valid range for the VCI is 32 to 65635.

**Encapsulation**: Select the method of encapsulation used by your ISP from the list. Choices vary depending on the mode selected in the **Mode** field.

**PPPoE/PPPoA:** Enter your username, password and Encapsulation. Then check the proper **Connection Setting** and **IP Address** which are used to define how the router to control the Internet status.

NEXT EXIT

ramer and easier right		i renachip Mod
Interface	Quick         Interface         Advanced         Access           Start         Setup         Setup         Management           Internet         LAN	Status He
ATM VC	Virtual Circuit : PVCD  PVCs Summary Status :  Activated  Deactivated VPI:  (range: D~255) VO:  P	
QoS	ATM QoS : CBR PCR : O Cells/second SCR : O Cells/second MBS : O Cells	
Encapsulation	ISP: C Dynamic IP Address C Static IP Address © PPPoA/PPPoE C Bridge Mode	
PPPoE/PPPoA	Username :  85238998(@hinet.net Passward :  ******* Encapsulation :  PPPoE LLC  Connection : C Always On (Recommended)	
IP Address	© Connect On-Demand (Close if idle for Get IP Address: ○ Static © Dynamic Static IP Address: ○ 0.0.0 IP Subnet Mask: ○ 0.0.0 Gateway: ○ 0.0.0 NAT: Enabled ▼ Default Route: © Yes ⊂ No Dynamic Route: ℝIP1 ▼ Direction Both ▼ Multicast: ○ Disabled ▼	minutes)

Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

#### 5.3.2 LAN

Quick Start       Interface Setup       Advanced Setup       Access Management       Maintenance Status       Help         Router Local IP       IP Address:       192.168.1.1       IP Address:       192.168.1.1         IP Subnet Mask :       256.256.266.0       Dynamic Route:       RP2-B • Direction       None •         Multicast:       Disabled •       DHCP:       C Disabled •       IP Poil Count:       IP Poil Count:         DHCP Server       Starting IP Address:       192.168.1.33       IP Pool Count:       IP Pool Server:       IP Pool Server:       IB Best to default value of 259200)       IP Poil Server:       IB Best to default value of 259200)       IP Poil Server:       IB Best to default value of 259200)       IP Poil Server:       IB Best to default value of 259200)       IP Poil Server:       IB Best to default value of 259200)       IP Poil Server:       IB Best to default value of 259200)       IP Poil Server:       IB Best to default value of 259200)       IP Best to default value of 259	Microne Faster and Easier Netwo	rt. rks			Trendchip Modem
Internet     LAN       Router Local IP     IP Address: 192.168.1.1 IP Subnet Mask: 255.255.255.0 Dynamic Route: RIP2-B • Direction None • Multicast: Disabled •       DHCP     DHCP: C Disabled •       DHCP Server     DHCP: C Disabled • Relay       DHCP Server     Starting IP Address: 192.168.1.33 IP Pool Count: 32 Lease Time: 259200 seconds (0 sets to default value of 259200)       DNS Relay: User_DNS • Primary DNS Server: 168.95.1.1 Secondary DNS Server: 168.95.192.1	Interface	Quick Interface Ad Start Setup S	vanced Acc Setup Manag	ess Maintenance	Status Help
Router Local IP       IP Address: [92.168.1.1]         IP Subnet Mask: 255.255.255.00       Dynamic Route: RIP2.8 • Direction None •         Multicast: Disabled •       DHCP         DHCP Server       DHCP: C Disabled • Enabled C Relay         DHCP Server       Starting IP Address: [92.168.1.33         IP Pool Count: 32       Lease Time: 259200 seconds: (0 sets to default value of 259200)         DNS Relay: User_DNS •       Primary DNS Server: 168.95.1.1         Secondary DNS Server: 168.95.192.1       Secondary DNS Server: 168.95.192.1		Internet LAN			
IP Address:       192.168.1.1         IP Subnet Mask:       255.255.256.0         Dynamic Route:       RP2.B           Multicast:       Disabled           DHCP       DHCP:         DHCP Server       Starting IP Address:         Starting IP Address:       192.168.1.33         IP Pool Count:       32         Lease Time:       259200         DNS Relay:       User_DNS •         Primary DNS Server:       168.95.1.1         Secondary DNS Server:       168.95.192.1	Router Local IP				
DHCP DHCP DHCP Server DHCP Server DHCP Server DHCP Server DHCP Server DHCP Server DHCP: C Disabled C Relay DHCP: C Disabled C Relay DHCP: C Disabled C Relay DHCP: Server Starting IP Address: [192.168.1.33 IP Pool Count: 32 Lease Time: 259200 seconds (0 sets to default value of 259200) DNS Relay: User_DNS • Primary DNS Server: 168.95.1.1 Secondary DNS Server: 168.95.192.1		IP Address : 19	92.168.1.1		
DHCP DHCP Server DHCP Server DHCP Server DHCP Server DHCP Server DHCP : C Disabled C Relay DHCP : C DISABLE DHCP : C DISA		IP Subnet Mask : 25	5.255.255.0		
DHCP         DHCP Server         DHCP Server         DHCP Server         DNS         DNS         DNS Relay:         User_DNS v         Primary DNS Server:         168.95.192.1		Dynamic Route : R	IP2-B 🗾 Direction	None 💌	
DHCP Server DHCP Server Starting IP Address: 192.166.1.33 IP Pool Count: 32 Lease Time: 259200 seconds (0 sets to default value of 259200) DNS DNS Relay: User_DNS  Primary DNS Server: 166.95.1.1 Secondary DNS Server: 166.95.192.1		Multicast : D	isabled 💌		
DHCP: C Disabled C Relay DHCP Server Starting IP Address: 192.168.1.33 IP Pool Count: 32 Lease Time: 259200 seconds (0 sets to default value of 259200) DNS Relay: User_DNS • Primary DNS Server: 168.95.1.1 Secondary DNS Server: 168.95.192.1	DHCP				
DICF Selver         Starting IP Address:         IP Pool Count:         32         Lease Time:         259200         seconds:       (0 sets to default value of 259200)         DNS         DNS Relay:       User_DNS •         Primary DNS Server:       168.95.1.1         Secondary DNS Server:       168.95.192.1	DHCD Server	DHCP: C	Disabled 💽 Enable	d C Relay	
IP Pool Count: 32 Lease Time: 259200 seconds (0 sets to default value of 259200) DNS Relay: User_DNS <b>v</b> Primary DNS Server: 168.95.1.1 Secondary DNS Server: 168.95.192.1	DITCF Server	Starting IP Address : 19	2 168 1 33		
DNS Elay: User_DNS v Primary DNS Server: 168.95.192.1		IP Pool Count : 32	2		
DNS Relay : User_DNS V Primary DNS Server : 168.95.1.1 Secondary DNS Server : 168.95.192.1		Lease Time : 25	9200 seconds	(O sets to default value of 2	59200)
DNS Relay : User_DNS 💌 Primary DNS Server : 168.95.1.1 Secondary DNS Server : 168.95.192.1	DNS				
Primary DNS Server : [168.95.1.1 Secondary DNS Server : [168.95.192.1		DNS Relay : U	ser_DNS 💌		
Secondary DNS Server: 163:55-152.1		Primary DNS Server : [18	8.95.1.1		
		Secondary DNS Server : [16	0.95,192,1		
APPLY Cancel					

#### [Router Local IP]

**IP Address:** Enter the IP address of your router in dotted decimal notation, for example, 192.168.1.1 (default setting).

**IP Subnet Mask:** Your ADSL router will automatically calculate the subnet mask based on the IP address that you assign. Unless subnet mask is assigned, use the subnet mask computed by the router.

**Dynamic Route:** Select the Dynamic Route from **RIP-1**, **RIP-2B** and **RIP-2M**.

**Direction:** Select the RIP direction from **None**, **Both**, **In Only** and **Out Only**.

Multicast: IGMP (Internet Group Multicast Protocol) is a

session-layer protocol used to establish membership in a multicast group. The router supports both **IGMP-v1** and **IGMP-v2**. Select **None** to disable it.

#### [<u>DHCP]</u>

DHCP: The LAN port DHCP role – Disabled, Enabled or Relay.

**IP Pool Count:** This field specifies the size or count of the IP address pool.

**Size of Client IP Pool:** This field specifies the size or count of the IP address pool.

**Primary DNS Ser ver:** Enter the IP addresses of the DNS se rvers. The DNS servers are passed DHCP clients along with the IP address and the subnet mask.

Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

### 5.4 Advanc ed Setup

#### 5.4.1 Rou ting

This table displays the IP address of Internet destinations commonly accessed by your network. When a computer requests to send data to a listed destination, the device uses the Gateway IP to identify the first Internet router it should contact to route the data most efficiently.

Advanced	Quick Start	Interface Setup	Advanced Setup	Access Manageme	nt Mair	ntenance	Statu	s	He
	Routin	g NAT							
Routing Table List		Dest IP	Mask	Gateway IP	Metric	Device	Use	Edit	Dro
	"		the second se						
	1	61.229.24.254	32	61.229.24.254	1	poeO	0	1	1
	" 1 2	61.229.24.254 192.168.1.0	32 24	61.229.24.254 192.168.1.1	1	poe0 enet0	0 397		-

#### 5.4.2 NAT

**Network Address Translation** (NAT) is a method for disguising the private IP addresses used on the LAN as the public IP address used on the Internet. It rules that specify exactly how and when to translate between public and private IP addresses.

**Virtual Circuit (VC):** The virtual circuit (VC) properties of the ATM VC interface identify a unique path that the ADSL modem router uses to communicate via the ATM-based network with the telephone company central office equipment.

Cares and Eduler Herm	-			1000 C 1000		rendch	ip woden
Advanced	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
	Routing	NAT					
NAT							
		Virtual Circuit	: PVC0 💌				
		NAT Status	: Activated				
		Number of IPs	: 🖲 Single (	C Multiple			
		0	DMZ				
		0	Virtual Ser	ver			

**DMZ**: DeMilitarized Zone (DMZ) is cited from military phraseology. Used in network technology, saying a computer or small sub-network that sits between a trusted internal network, such as a corporate private LAN, and an untrusted external network, such as the public Internet. When there is a suspected packet coming from WAN, the router will forward this packet to the DMZ host.

**Virtual Server:** This feature allows Internet users to access standard Servers on your LAN, via the router. Normally, Internet users would not be able to access a server on your LAN because your Server does not have a valid external IP Address.

Attempts to connect to devices on your LAN are blocked by firewall in this device. The "Virtual Server" feature solves these problems and allows Internet users to access to your servers.

Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

#### 5.5 Access Management

5.5.1 ACL

Access	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Management	ACL	IP Filter	SINMP	UPnP	DONS		
Access Control Setup							
Remote Web Access							
	Remot	te Web Access	Enabled	C Disabled			
Remote Telnet Access		IF Address	s . jo.o.o.o				
	Remote	e Telnet Access	: 🖲 Enabled	O Disabled			
		IP Address	s: 0.0.0.0				

Access Control Setup: This page allows you to manage the router remotely through Web UI and Telnet Access.

**IP Address:** The default 0.0.0.0 allows any client to use this service to remotely manage the router. Type an IP address to restrict access to the client with a matching IP address.

Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

#### 5.5.2 IP Filter

The **IP Filter** feature enables you to control the forwarding of incoming and outgoing data between your LAN and the Internet and within your LAN.

Access	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Management	ACL	IP Filter	SNMP	UPnP	DONS		
IP Filter							
		Telnet	: 🗖 Telnet tra	affic is blocked from	n the WAN to the L	AN	
		FTP	: 🗆 FTP traff	ic is blocked from t	he WAN to the LAI	N	
		TFTP	: 🗆 TFTP tra	ffic is blocked from	the WAN to the LA	AN	
		Web	: 🗖 Web traf	fic is blocked from	the WAN to the LA	N	
		SNMP	: D SNMP tr	affic is blocked fror	n the WAN		

Telnet/FTP/TFTP/Web/SNMP: Select Telnet, FTP, TFTP, Web and

**SNMP** to block incoming WAN requests for the corresponding service.

Apply: Click this button to save these settings back to the router.

Note: Every time you change one setting, you must click APPLY

button once, then go to next setting's change.

#### 5.5.3 SNMP

The **Simple Network Management Protocol (SNMP)** enables a host computer to access configuration, performance and other system data that resides in a database on the modem. The host computer is called a *management station* and the modem is called an *SNMP agent*. The data that can be accessed via SNMP is stored in a *Management Information Database* (MIB) on the modem.

Access	Quick	Interface	Advanced	Access	Maintenance	Trendchi Status	ip Modem Help
Management	ACL	IP Filter	Setup	UPnP	DDNS		V.
SNMP	ĺ						
	(	Get Community	r : public				
	5	Set Community	: public				
	*		APPLY				

Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

#### 5.5.4 UPnP

ruster und custer Netwo	irks.					Trendchi	ip Modem
Access	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Management	ACL	IP Filter	SNMP	UPnP	DDNS		
	,	UPnP Auto-configured	: C Activated : C Activated	I	(by UPnP-enabld A	opplication)	

Universal Plug and Play (UPnP): You can choose "Activated" or "Deactivated" option from this session.

Auto-Configured (by UPnP Application): Choose "Activated" option to allow UPnP-enabled applications to automatically configure the router so that they can communicate through the router, for example by using NAT traversal, UPnP applications automatically reserve a NAT forwarding port in order to communicate with another UPnP enabled device; this eliminates the need to manually configure port forwarding for the UPnP enabled application. If you don't want to make configuration changes through UPnP, just choose "Deactivated".

Apply: Click Apply to save the setting to the router.

Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

#### 5.5.5 DDNS

The Dynamic Domain Name System lets you use a static host name with a dynamic IP address.

Access	Quick Start	Interface Setup	Advanced Setup	Access Management	Maintenance	Status	Help
Management	ACL	IP Filte	SNMP	UPnP	DDNS		
Dynamic DNS	2						
		Dynamic DNS	S: C Activated	Deactivated			
	3	Service Provide	r : www.dyndns	. org			
		My Host Nam	e : [	~			
		E-mail Addres	в : [				
		Usernam	e :				
		Passwor	1 : [				
	V	/ildcard suppor	t: C Yes @	No			

**Dynamic DNS**: Choose the option for **Activated** or **Deactivated** DDNS.

Service Provider: The default Dynamic DNS service provider is\_

#### www.dyndns.org.

**My Host Name:** Type the domain name assigned to the router by your Dynamic DNS provider.

E-mail Address: Type your e-mail address.

Username: Type your user name.

**Password:** Type your password of the DDNS account.

Wildcard support: Select Yes or No to turn on DYNDNS Wildcard. Apply: Click Apply to save your changes. Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

## 5.6 Maintenance

#### 5.6.1 Administr ation

This field allows user to change new password.

laintenance	Quick Start	Interface Setup	Advanced Setup	Access Manageme	Mainten	ance Status	Help
	Administa	tion 🕴 Tim	ie Zone 🕴 F	Firmware	SysRestart	Diagnostic	
Administrator	[						
		Username	admin				
	N	ew Password	1:				
	Confi	rm Password	12				

Note: Every time you change one setting, you must click APPLY

button once, then go to next setting's change.

#### 5.6.2 Time Zone

#### [Time Zone]

**Current Date/Time:** This field displays an updated Date and Time when you reenter this menu.

#### [Time Synchronization]

Synchronization with: You can choose "NTP Server automatically",

"PC's Clock", or "Manually" to coordinate the time.

**Time Zone:** Choose the Time Zone of your location. This will set the time difference between your time zone and Greenwich Mean Time (GMT).

**Daylight Saving:** Choose **"Enabled"** or **"Disabled"** to use daylight savings time.

**NTP Server Address:** Type the IP address or domain name of your time server. Check with your ISP/network administrator if you are unsure of this information.

Maintananaa	Quick Interface Advanced Access Start Setup Setup Management Maintenance S	Status Help
Maintenance	Administation Time Zone Firmware SysRestart Diago	hostic
Time Zone		
	Current Date/Time : 01/01/2000 01:05:14	
Fime Synchronization		
	Synchronize time with : 💿 NTP Server automatically	
	C PC's Clock	
	C Manually	
	Time Zone : (GMT+08:00) Beijing, Hong Kong, Perth, Singapore	Taipei 📃
	Daylight Saving : C Enabled 💿 Disabled	
	NTP Server Address :	

Note: Every time you change one setting, you must click APPLY

button once, then go to next setting's change.

#### 5.6.3 Firm ware

Download the firmware, save it and then extract it. The upload process uses TFTP (Trivial File Transfer Protocol).

It takes a few minutes, don't power off it during upgrading. Device will restart after the upgrade!

After a success upload, the system automatically restarts. Please wait for the device to finish restarting (the SYS LED is on steady). This should take about 2 minutes. You need to log in again if you want to access the device.



**Current Firmware Ver.:** This filed displays the current firmware version.

**New Firmware Location:** Type in the location of the file you want to upload in this field or click **Browse...** to find it.

**Upload:** Click **Upload** to begin the upload process. This process may take up to 2 minutes.

Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

#### 5.6.4 Sy stem Restart

Click **RESTART** at the bottom of the web page if you want to make the default setting.

Faster and Easier Netwo	rts -	Trendchip Mod	lem
Maintenance	Quick Interface Advanced Access Start Setup Setup Management Maintenance	Status He	elp
	Administation Time Zone Firmware SysRestart Dia	gnostic	
System Restart			
	System Restart with :  Current Settings		
	C Factory Default Settings		
	RESTART		

Note: Every time you change one setting, you must click APPLY button once, then go to next setting's change.

#### 5.6.5 Diagno stic

The **Diagnostic** page allows you to run a series of diagnostic tests of your system software and hardware connections. From the **Virtual Circuit** drop-down list, select the name of the Virtual Circuit on which the diagnostics are to be shown.

Maintenance	Quick Interface Advanced Access Start Setup Setup Managem	ent Maintenance	Status Help
	Administation Time Zone Firmware	SysRestart Dia	gnostic
Diagnostic Test	i <u></u>		
	Virtual Circuit: PVC0 💌		
	>> Testing Ethernet LAN connection	PASS	
	>> Testing ADSL Synchronization	PASS	
	>> Testing ATM OAM segment ping	PASS	
	>> Testing ATM OAM end to end ping	PASS	
	>> Ping Primary Domain Name Server	PASS	
	>> Ping www.yahoo.com	PASS	

#### Note: 1) User ONLY can view PVC0's Diagnostic Test connection.

2) **"Testing ADSL Synchronization"** might take 30 sec to pass the Diagnostic Test.

## 5.7 Status

#### 5.7.1 Dev ice Info

The **Device Info** screen is a tool that you use to monitor your modem. Note that these fields are read-only and are not meant for diagnostic purposes. Except the Virtual Circuit, click the drop-down list and select the name of the Virtual Circuit on which the system status is to be shown.

	Quick	Interface	Advanced	Acces	S .			e meac
Status	Start	Setup	Setup	Managen	nent N	laintenance	Status	Hel
	Device	nfo 📔 Sys	tem Log 📄 🤅	Statistics				
Device Information								
	Firr	nware Version	n : 2.2.31(UEO.I	32)3.2.0				
LAN		MAC Address	s ; 00:06:4f:00:0	0:05				
		IP Address	s : 192.168.1.1					
		Subnet Masl	<: 255.255.255	0				
		DHCP Serve	r : Enabled					
WAN								
		Virtual Circui	t: PVC0 💌					
		Status	s : Connected					
	Co	nnection Type	e : PPPoE					
		IP Address	s : 61.229.40.18	8				
		Subnet Masl	<: 255.255.255	255				
	De	fault Gateway	r: 61.229.24.25	i4				
		DNS Serve	r: 168.95,1.1					
ADSL	-							
	ADSL	Firmware Ver	: FwVer:3.2.0.	4_A_TC3084	HwVer:T	14.F7_0.0		
		Line State	e : Showtime					
		Modulation	n : G.DMT					
		Annex Mode	e: ANNEX_A					
	i i	Max TX Powe	r:-38 dBm/Hz					
			Downstream	n Upstream	i			
	128	SNR Margin	n: 46.5	29.0	db			
	Lit	ne Attenuation Data Rate	n: 19.0 s: 1024	11.5 64	db khns			

#### [Device Information]

**Firmware Version:** This filed displays current firmware version. **MAC Address:** The MAC (Media Access Control) or Ethernet address unique to your modem.

#### [LAN]

IP Address: The LAN port IP address

Subnet Mask: The LAN port IP subnet mask.

DHCP Server: The status of DHCP Server (Enabled or Disabled)

#### [WAN]

Virtual Circuit: Click the drop-down list and select the name of the

Virtual Circuit on which the system status is to be shown.

Status: Connected or Not Connected

Connection Type: The WAN Connection Type.

IP Address: The WAN port IP address

Subnet Address: The WAN port IP subnet mask.

**Default Gateway:** The IP address of the default gateway, if applicable.

DNS Server: The IP address of the DNS Server

## [ADSL]

**ADSL Firmware Version:** This field displays current ADSL firmware version.

Line States: This is the status of tour WAN Line.

Modulation: The type of the modulation.

Annex Mode: The type of Annex mode.

#### 5.7.2 Sy stem Log

The **System Log** displays data generated or acquired by routine system communication with other devices, such as the results of negotiations with the ISP's computers for DNS and gateway IP addresses. This information does not necessarily represent

unexpected or improper functioning and is not captured by the system traps that create alarm.

You can click **Save Log** to display a Windows File Download dialog box that enables opening or saving the contents of the log to your PC. To remove all entries from the list, click **Clear Log**. New entries will begin accumulating.

Status       Quick Interface Advanced Access Maintenance Status       Help         Device Info       System Log       Statistics         System Log       Status       Help         1/1/2000       0:0:1> MPOA Link Down       1/1/2000         1/1/2000       0:0:1> LAN promiscuous mode <1>       1/1/2000         1/1/2000       0:0:1> Last errorlog repeat 1 Times       1/1/2000         1/1/2000       0:0:1> SMMP TRAP 1: warm start       1/1/2000         1/1/2000       0:0:1> SMMP TRAP 3: link up       1/1/2000         1/1/2000       0:0:1> SMMP TRAP 3: link up       1/1/2000         1/1/2000       0:0:1> SMMP TRAP 3: link up       1/1/2000         1/1/2000       0:0:1> SMP TRAP 3: link up       1/1/2000         1/1/2000       0:0:1> Accept() fail       1/1/2000         1/1/2000       0:3:1> SMP TRAP 3: link up       1/1/2000         1/1/2000       0:3:1> Accept() fail       1/1/2000         1/1/2000       0:3:1> Accept() fail       1/1/2000		et vorka Trendchip Ma	odem
Device Info         System Log         Statistics           System Log           1/1/2000 0:0:1> MPOA Link Down           1/1/2000 0:0:1> LAN promiscuous mode <1>           1/1/2000 0:0:1> LASt errorlog repeat 1 Times           1/1/2000 0:0:1> SMMP TRAP 1: warm start           1/1/2000 0:0:1> main: init completed           1/1/2000 0:0:3> SMMP TRAP 3: link up           1/1/2000 0:0:5> MPOA Link Up           1/1/2000 0:0:3> SMMP TRAP 3: link up           1/1/2000 0:0:3> SMMP TRAP 3: link up           1/1/2000 0:0:3> SMMP TRAP 3: link up           1/1/2000 0:2:59> ppp_ready: ch:80460ef4, iface:80367880           1/1/2000 0:3:1> SMMP TRAP 3: link up           1/1/2000 0:3:1> Accept() fail           1/1/2000 0:3:1> Accept() fail	Status	Quick Interface Advanced Access Start Setup Setup Management Maintenance Status	Help
System Log 1/1/2000 0:0:1> MPOA Link Down 1/1/2000 0:0:1> Last errorlog repeat 1 Times 1/1/2000 0:0:1> SNMP TRAP 1: warm start 1/1/2000 0:0:1> snin: init completed 1/1/2000 0:0:3> SNMP TRAP 3: link up 1/1/2000 0:0:5> MPOA Link Up 1/1/2000 0:2:35> mpoaChannDown: ch<0> null iface 1/1/2000 0:3:1> SNMP TRAP 3: link up 1/1/2000 0:3:1> SNMP TRAP 3: link up 1/1/2000 0:3:1> Accept() fail		Device Info System Log Statistics	
<pre>1/1/2000 0:0:1&gt; MPOA Link Down 1/1/2000 0:0:1&gt; LAN promiscuous mode &lt;1&gt; 1/1/2000 0:0:1&gt; Last errorlog repeat 1 Times 1/1/2000 0:0:1&gt; sNMP TRAP 1: warm start 1/1/2000 0:0:3&gt; SNMP TRAP 3: link up 1/1/2000 0:0:3&gt; sNMP TRAP 3: link up 1/1/2000 0:0:5&gt; MPOA Link Up 1/1/2000 0:0:5&gt; mpoaChannDown: ch&lt;0&gt; null iface 1/1/2000 0:2:59&gt; ppp_ready: ch:80460ef4, iface:80367880 1/1/2000 0:3:1&gt; SNMP TRAP 3: link up 1/1/2000 0:3:1&gt; Accept() fail 1/1/2000 0:3:1&gt; Accept() fail</pre>	System Log		
		<pre>1/1/2000 0:0:1&gt; MPOA Link Down 1/1/2000 0:0:1&gt; Last errorlog repeat 1 Times 1/1/2000 0:0:1&gt; SNMP TRAP 1: warm start 1/1/2000 0:0:3&gt; SNMP TRAP 3: link up 1/1/2000 0:0:3&gt; adjtime task pause 1 day 1/1/2000 0:0:55&gt; MPOA Link Up 1/1/2000 0:2:35&gt; mpoaChannDown: ch&lt;0&gt; null iface 1/1/2000 0:3:1&gt; SNMP TRAP 3: link up 1/1/2000 0:3:1&gt; SNMP TRAP 3: link up 1/1/2000 0:3:1&gt; SNMP TRAP 3: link up 1/1/2000 0:3:1&gt; Accept() fail 1/1/2000 0:3:1&gt; Accept() fail</pre>	

#### 5.7.3 Statis tics

You can view performance statistics for Ethernet/ADSL router's

number of packets transmit/receive.

Status	Quick Interface Advan Start Setup Setu	iced Acc ip Manag	ess Maintenance S ement	Status	Help
	Device Info System Log	Statistics			
Traffic Statistic	S				
Traffic Statistic	s Interface : @ Eth	ernet CADSL			
Traffic Statistic	Interface : • Eth	ernet C ADSL	Resolus Statistics	1	
Traffic Statistic	s Interface : • Eth Transmit Statistics	ernet CADSL	Receive Statistics	201	_
Traffic Statistic	s Interface : © Eth Transmit Statistics Transmit Frames	ernet C ADSL 396	Receive Statistics Receive Frames	306	5
Traffic Statistic	s Interface : © Eth Transmit Statistics Transmit Multicast Frames Transmit Multicast Frames	ernet C ADSL 396 1 220670	Receive Statistics Receive Frames Receive Multicast Frames	300	5
Tratific Statistic	s Interface : • Eth Transmit Statistics Transmit Frames Transmit Multicast Frames Transmit Collison	emet C ADSL 396 1 220670 0	Receive Statistics Receive Frames Receive Multicast Frames Receive total Bytes Receive CRC Errors	300 12 4462 0	5 26

If you have any trouble to configure or setup this router, please

contact us.

Before contacting us, make sure collect following information.

Submit complete detailed information of your problem will help us to provide you accurate answer.

Model	Name:
Serial	Number:
PC	Settings:
Other:	