



# **Vigor2930 Series Dual-WAN Security Firewall Quick Start Guide**

**Version: 1.0**

**Date: 2007/05/15**

## Copyright Information

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## Safety Instructions and Approval

### Safety Instructions

- Read the installation guide thoroughly before you set up the router.
- The router is a complicated electronic unit that may be repaired only by authorized and qualified personnel. Do not try to open or repair the router yourself.
- Do not place the router in a damp or humid place, e.g. a bathroom.
- Do not stack the routers.
- The router should be used in a sheltered area, within a temperature range of +5 to +40 Celsius.
- Do not expose the router to direct sunlight or other heat sources. The housing and electronic components may be damaged by direct sunlight or heat sources.
- Do not deploy the cable for LAN connection outdoor to prevent electronic shock hazards.
- Keep the package out of reach of children.
- When you want to dispose of the router, please follow local regulations on conservation of the environment.

### Warranty

We warrant to the original end user (purchaser) that the router will be free from any defects in workmanship or materials for a period of two (2) years from the date of purchase from the dealer. Please keep your purchase receipt in a safe place as it serves as proof of date of purchase. During the warranty period, and upon proof of purchase, should the product have indications of failure due to faulty workmanship and/or materials, we will, at our discretion, repair or replace the defective products or components, without charge for either parts or labor, to whatever extent we deem necessary to restore the product to proper operating condition. Any replacement will consist of a new or re-manufactured functionally equivalent product of equal value, and will be offered solely at our discretion. This warranty will not apply if the product is modified, misused, tampered with, damaged by an act of God, or subjected to abnormal working conditions. The warranty does not cover the bundled or licensed software of other vendors. Defects which do not significantly affect the usability of the product will not be covered by the warranty. We reserve the right to revise the manual and online documentation and to make changes from time to time in the contents hereof without obligation to notify any person of such revision or changes.

### Be a Registered Owner

Web registration is preferred. You can register your Vigor router via <http://www.draytek.com>.

### Firmware & Tools Updates

Due to the continuous evolution of DrayTek technology, all routers will be regularly upgraded. Please consult the DrayTek web site for more information on newest firmware, tools and documents.

<http://www.draytek.com>

## European Community Declarations

Manufacturer: DrayTek Corp.  
Address: No. 26, Fu Shing Road, HuKou County, HsinChu Industrial Park, Hsin-Chu, Taiwan 303  
Product: Vigor2930 Series Router

DrayTek Corp. declares that Vigor2930 Series of routers are in compliance with the following essential requirements and other relevant provisions of R&TTE Directive 1999/5/EEC.

The product conforms to the requirements of Electro-Magnetic Compatibility (EMC) Directive 2004/108/EEC by complying with the requirements set forth in EN55022/Class B and EN55024/Class B.

The product conforms to the requirements of Low Voltage (LVD) Directive 2006/95/EEC by complying with the requirements set forth in EN60950-1.

## Regulatory Information

### Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the use is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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 may accept any interference received, including interference that may cause undesired operation.

Please visit [http://www.draytek.com/about\\_us/R\\_TTE\\_Certification.php](http://www.draytek.com/about_us/R_TTE_Certification.php).



This product is designed for the ISDN and 2.4GHz WLAN network throughout the EC region and Switzerland with restrictions in France. Please see the user manual for the applicable networks on your product.

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# 1. Introduction

Vigor2930 is a broadband router with dual-WAN interface. It provides policy-based load-balance, fail-over and BOD (Bandwidth on Demand), also it integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

By adopting hardware-based VPN platform, hardware encryption of AES/DES/3DS and hardware key hash of SHA-1/MD5, the router increases the performance of VPN greatly, and offers several protocols (such as IPSec/PPTP/L2TP) with up to 100 VPN tunnels.

The Object-based design used in SPI (Stateful Packet Inspection) firewall allows users to set firewall policy with ease. CSM (Content Security Management) provides users control and management in IM (Instant Messenger), P2P (Peer to Peer), URL Content Filter and Web Content Filter more efficiency than before. By the way, DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside.

Vigor2930 V models provide twin analogue phone ports. S models support ISDN ports. Combining the characteristics of V and S models can offer two ISDN ports additionally besides analogue phone ports. ISDN S0 port is dedicated for ISDN phone; the other ISDN port is configurable for ISDN line and phone. It supports multiple SIP registrars with highly flexible configuration and call handling options.

## Definitions for ISDN Ports

Below shows the names that displayed on front panel of the device and the WEB UI of this device.

**ISDN TE** (Terminal Equipment) means an interface for transmitting analog signal through Internet between Switching and router. Such interface is also named with **ISDN S0 extern** in Germany.

**ISDN NT** (Network Terminator) is a port that used to connect general phone. Such interface is also named with **ISDN S0 intern** in Germany.

The **ISDN S0 1** port on Vigor2930 series is fixed to connect phone forever and the LED on the connector will light orange always. However **ISDN S0 2** port on this device is configurable for connecting phone or accessing Internet according to the settings that you adjust on WEB UI (please refer to **VoIP>>Phone Setting** for detailed information).



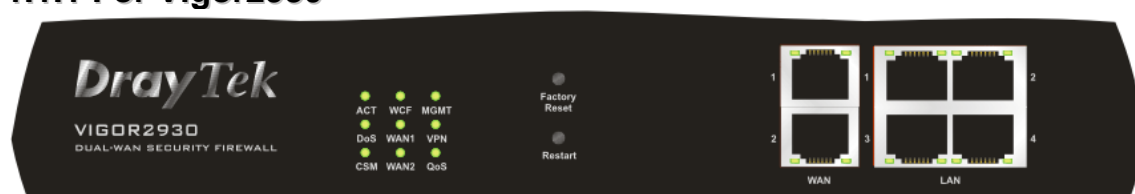
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**Warning:** When the orange LED lights (means ISDN NT mode), the ISDN port can be used to connect phone only. Wrong ISDN connection might cause severe damage on your device.

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## 1.1 Panel Explanation

### 1.1.1 For Vigor2930



LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while deleting an attack.
CSM	On	The profile of CSM (Content Security Management) for IM/P2P filter application is enabled.
WCF	On	The Web Content Filter is active. (It is enabled from <b>Firewall &gt;&gt; Web Content Filter</b> )
WAN1/2	On	The WAN1 or WAN2 connection is ready.
	Blinking	It will blink while transmitting data.
MGMT	On	The router is managed (handled) by Telnet.
	Blinking	It will blink while being managed by IE browser.
VPN	On	The VPN tunnel is active.
QoS	On	The QoS function is active.

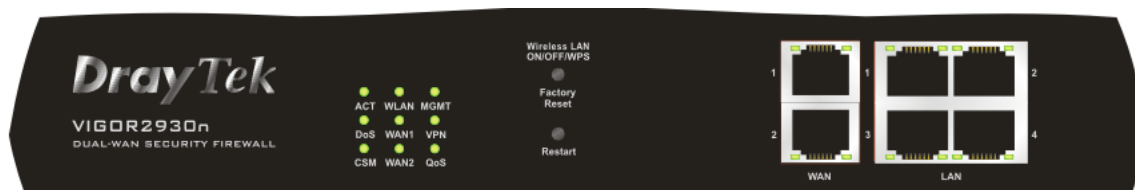
#### LED on Connector

WAN 1/2	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
LAN 1/2/3/4	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
LAN 1/2/3/4	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is disconnected with 10Mbps.



Interface	Description
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
Restart	Restart the router forcefully.
WAN(1/2)	Connecters for remote networked devices.
LAN (1-4)	Connecters for local networked devices.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

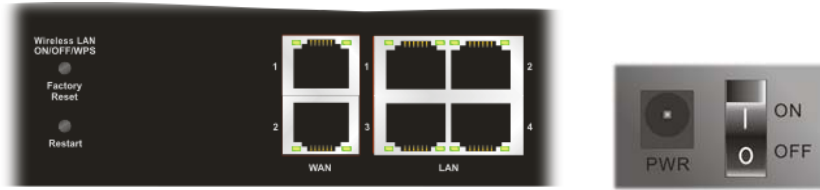
## 1.1.2 For Vigor2930n



LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while deleting an attack.
CSM	On	The profile of CSM (Content Security Management) for IM/P2P filter application is enabled.
WLAN	On	Wireless access point is ready.
	Blinking	It will blink slowly while wireless traffic goes through. If ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and it will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN1/2	On	The WAN1 or WAN2 connection is ready.
	Blinking	It will blink while transmitting data.
MGMT	On	The router is managed by Telnet.
	Blinking	It will blink while being managed by IE browser.
VPN	On	The VPN tunnel is active.
QoS	On	The QoS function is active.

### LED on Connector

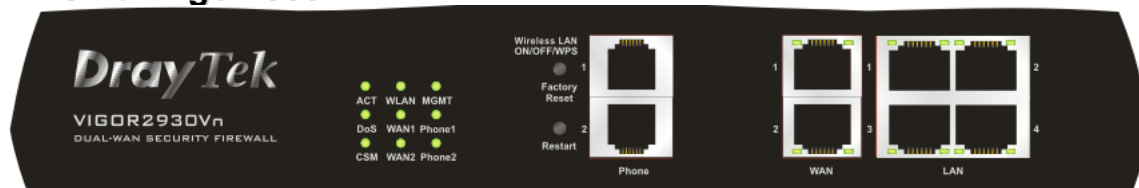
WAN 1/2	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is disconnected with 10Mbps.
		Blinking	The data is transmitting.
LAN 1/2/3/4	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is disconnected with 10Mbps.
		Blinking	The data is transmitting.



Interface	Description
Wireless LAN ON/OFF/WPS /Factory Reset	<p>Press "Wireless LAN ON/OFF/WPS" button once to wait for client device making network connection through WPS.</p> <p>Press "Wireless LAN ON/OFF/WPS" button twice to enable (WLAN LED on) or disable (WLAN LED off) wireless connection.</p> <p>Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.</p>
Restart	Restart the router forcefully.
Phone (1/2)	Connecters for PSTN phones.
WAN (1/2)	Connecters for remote networked devices.
LAN (1-4)	Connecters for local networked devices.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.



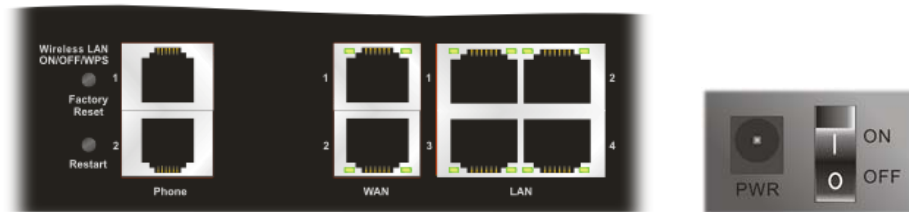
### 1.1.3 For Vigor2930Vn



LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while deleting an attack.
CSM	On	The profile of CSM (Content Security Management) for IM/P2P filter application is enabled.
WLAN	On	Wireless access point is ready.
	Blinking	It will blink slowly while wireless traffic goes through. If ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and it will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN1/2	On	The WAN1 or WAN2 connection is ready.
	Blinking	It will blink while transmitting data.
MGMT	On	The router is managed (handled) by Telnet.
	Blinking	It will blink while being managed by IE browser.
Phone 1/2	On	The phone connected to this port is off-hook.
	Off	The phone connected to this port is on-hook.
	Blinking	A phone call comes.

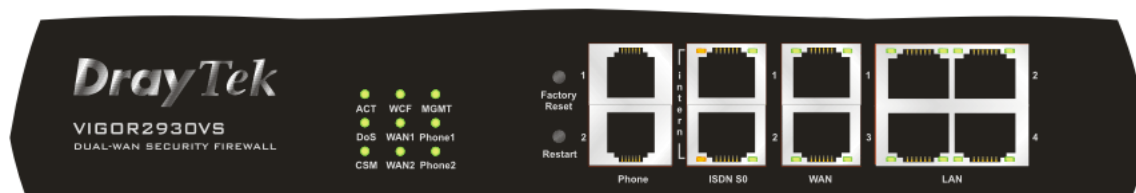
#### LED on Connector

WAN 1/2	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is connected with 10Mbps.
		Blinking	The data is transmitting.
LAN 1/2/3/4	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is connected with 10Mbps.



Interface	Description
Wireless LAN ON/OFF/WP /Factory Reset	Press "Wireless LAN ON/OFF/WPS" button once to wait for client device making network connection through WPS. Press "Wireless LAN ON/OFF/WPS" button twice to enable (WLAN LED on) or disable (WLAN LED off) wireless connection. Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
Restart	Restart the router forcefully.
Phone (1/2)	Connecters for PSTN phones.
WAN (1/2)	Connecters for remote networked devices.
LAN (1-4)	Connecters for local networked devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

## 1.1.4 For Vigor2930VS

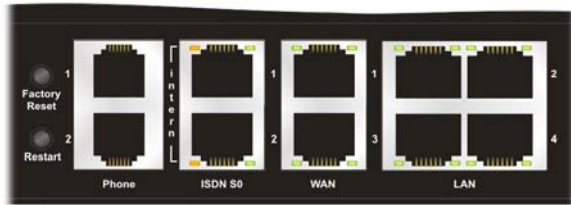


LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while deleting an attack.
CSM	On	The profile of CSM (Content Security Management) for IM/P2P filter application is enabled.
WCF	On	The Web Content Filter is active. (It is enabled from <b>Firewall &gt;&gt; Web Content Filter</b> )
WAN1/2	On	The WAN1 or WAN2 connection is ready.
	Blinking	It will blink while transmitting data.
MGMT	On	The router is managed by Telnet.
	Blinking	It will blink while being managed by IE browser.
Phone 1/2	On	The phone connected to this port is off-hook.
	Off	The phone connected to this port is on-hook.
	Blinking	A phone call comes.

### LED on Connector

ISDN S0 1	Left LED (Orange)	On	ISDN NT (ISDN S0 intern) mode is active and an ISDN phone adapter is connected.
		Blinking	ISDN NT (ISDN S0 intern) mode is active and an ISDN phone adapter is not connected.
	Right LED (Green)	On	A phone has been connected. If not, green LED will be off.
		Blinking	An ISDN phone is off-hook or a phone call comes.
ISDN S0 2	Left LED (Orange)	On	ISDN NT (ISDN S0 intern) mode is active configured from <b>VoIP&gt;&gt;Phone Settings</b> and an ISDN phone adapter is connected.
		Blinking	ISDN NT (ISDN S0 intern) mode configured from <b>VoIP&gt;&gt;Phone Settings</b> is active and an ISDN phone adapter is not connected.
		Off	It means ISDN TE mode is active which is configured from <b>VoIP&gt;&gt;Phone Settings</b> .
	Right LED (Green)	On	A phone adapter with phone set has been connected (ISDN S0 intern mode) or ISDN line has been connected (ISDN S0 extern mode). It will be off if there is nothing connected.
		Blinking	In ISDN NT (ISDN S0 intern) mode, it means an ISDN phone is off-hook or a phone call comes. In ISDN TE mode, it means data, fax or voice (phone call) is transmitting.
WAN 1/2	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is connected with 10Mbps.

LAN 1/2/3/4	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is connected with 10Mbps.



Interface	Description
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
Restart	Restart the router forcefully.
Phone (1/2)	Connecters for PSTN phones.
ISDN S0 1	Connector for ISDN phone(s) only via ISDN phone adapter. Do not connect any other device to such port or connect ISDN line, otherwise the router might be damaged.
ISDN S0 2	Connector for ISDN line or ISDN phone adapter in particular condition. Refer to section 2.2 for more details.
WAN (1/2)	Connecters for remote networked devices.
LAN (1-4)	Connecters for local networked devices.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

## 1.1.5 For Vigor2930VSn

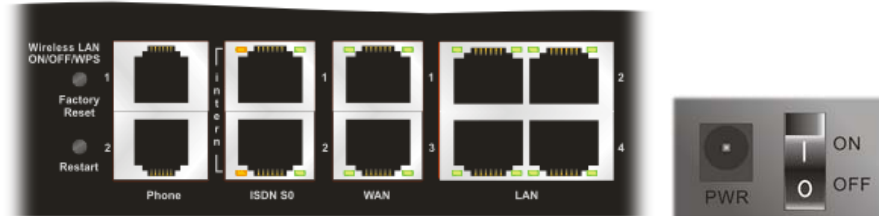


LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
DoS	On	The DoS/DDoS function is active.
	Blinking	It will blink while deleting an attack.
CSM	On	The profile of CSM (Content Security Management) for IM/P2P filter application is enabled.
WLAN	On	Wireless access point is ready.
	Blinking	It will blink slowly while wireless traffic goes through. If ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and it will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN1/2	On	The WAN1 or WAN2 connection is ready.
	Blinking	It will blink while transmitting data.
MGMT	On	The router is managed by Telnet.
	Blinking	It will blink while being managed by IE browser.
Phone 1/2	On	The phone connected to this port is off-hook.
	Off	The phone connected to this port is on-hook.
	Blinking	A phone call comes.

### LED on Connector

ISDN S0 1	Left LED (Orange)	On	ISDN NT (ISDN S0 intern) mode is active and an ISDN phone adapter is connected.
		Blinking	ISDN NT (ISDN S0 intern) mode is active and an ISDN phone adapter is not connected.
	Right LED (Green)	On	A phone has been connected. If not, green LED will be off.
		Blinking	An ISDN phone is off-hook or a phone call comes.
ISDN S0 2	Left LED (Orange)	On	ISDN NT (ISDN S0 intern) mode is active configured from <b>VoIP&gt;&gt;Phone Settings</b> and an ISDN phone adapter is connected.
		Blinking	ISDN NT (ISDN S0 intern) mode configured from <b>VoIP&gt;&gt;Phone Settings</b> is active and an ISDN phone adapter is not connected.
		Off	It means ISDN TE mode is active which is configured from <b>VoIP&gt;&gt;Phone Settings</b> .
	Right LED (Green)	On	A phone adapter with phone set has been connected (ISDN S0 intern mode) or ISDN line has been connected (ISDN S0 extern mode). It will be off if there is nothing connected.
		Blinking	In ISDN NT (ISDN S0 intern) mode, it means an ISDN phone is off-hook or a phone call comes. In ISDN TE mode, it means data, fax or voice (phone call) is transmitting.
		Off	
WAN 1/2	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.

		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is connected with 10Mbps.
LAN 1/2/3/4	Left LED (Green)	On	The port is connected.
		Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right LED (Green)	On	The port is connected with 100Mbps.
		Off	The port is connected with 10Mbps.

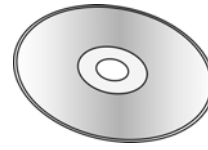


Interface	Description
Wireless LAN ON/OFF/WPS /Factory Reset	Press "Wireless LAN ON/OFF/WPS" button once to wait for client device making network connection through WPS. Press "Wireless LAN ON/OFF/WPS" button twice to enable (WLAN LED on) or disable (WLAN LED off) wireless connection. Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
Restart	Restart the router forcefully.
Phone (1/2)	Connecters for PSTN phones.
ISDN S0 1	Connector for ISDN phone(s) only via ISDN phone adapter. Do not connect any other device to such port or connect ISDN line, otherwise the router might be damaged.
ISDN S0 2	Connector for ISDN line or ISDN phone adapter in particular condition. Refer to section 2.2 for more details.
WAN (1/2)	Connecters for remote networked devices.
LAN (1-4)	Connecters for local networked devices.
PWR	Connector for a power adapter.
ON/OFF	Power Switch.

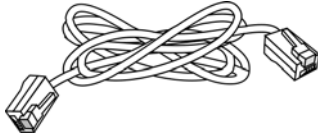
## 1.2 Package Content



**1** Quick Start Guide



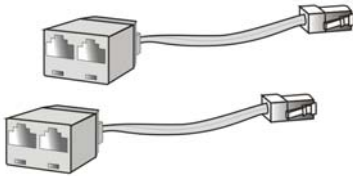
**2** CD



**3** RJ-45 Cable (Ethernet)

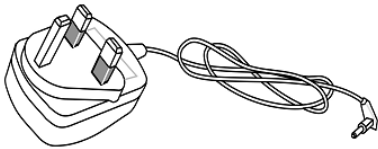


**4** RJ-45 to RJ-45 Cable for S models

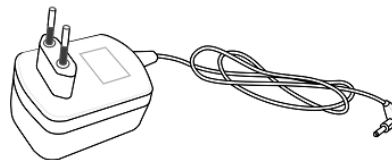


**5** ISDN Phone Adapter

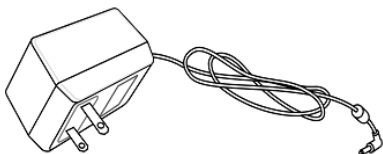
**6** The type of the power adapter depends on the country that the router will be installed:



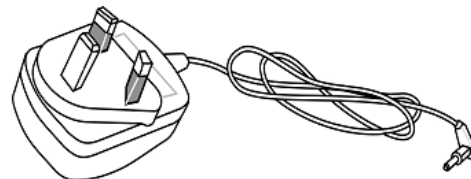
**UK-type Power Adapter**



**EU-type Power Adapter**



**USA/Taiwan-type Power Adapter**



**AU/NZ-type Power Adapter**

\* The maximum power consumption is *17-23 Watt*.

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## 2. Installing Your Router

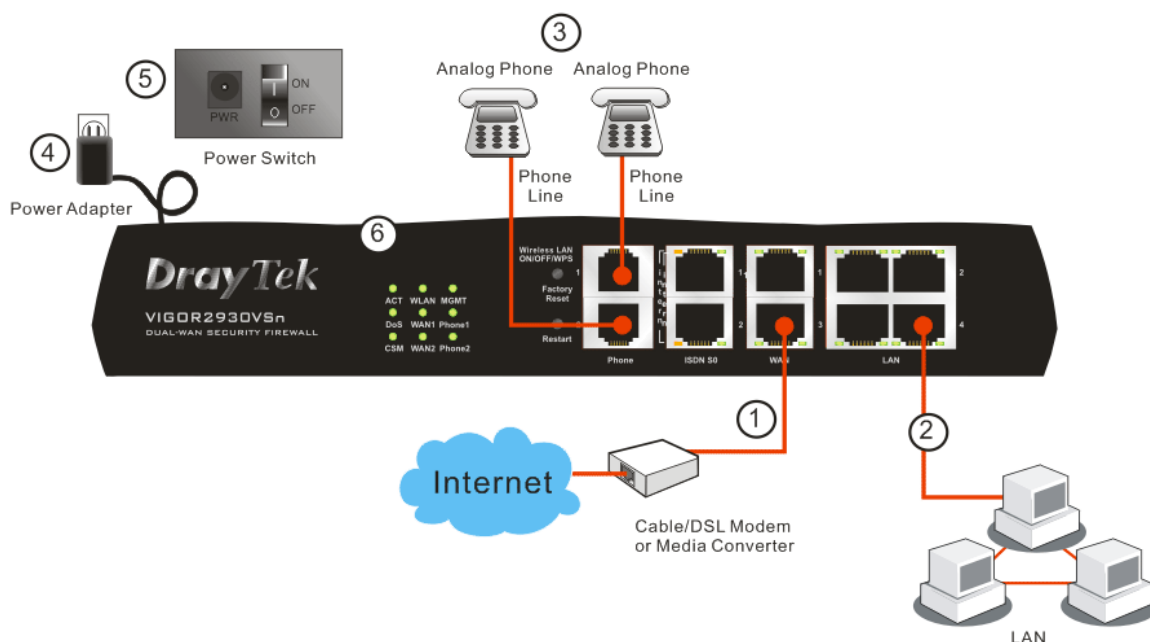
This section will guide you to install the router through hardware connection and configure the router's settings through web browser.

### 2.1 Hardware Installation

Before starting to configure the router, you have to connect your devices correctly.

1. Connect the cable Modem/DSL Modem/Media Converter to any WAN port of router with Ethernet cable (RJ-45). The **WAN1/WAN2** LED (Left or Right) will light up according to the speed (100 or 10) of the device that it connected.
2. Connect one end of an Ethernet cable (RJ-45) to one of the **LAN** ports of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer. The **LAN** LED (Left or Right) will light up according to the speed (100 or 10) of the device that it connected.
3. Connect the telephone sets with phone lines (for using VoIP function). For the model without phone ports, skip this step.
4. Connect one end of the power adapter to the router's power port on the rear panel, and the other side into a wall outlet.
5. Power on the device by pressing down the power switch on the rear panel.
6. The system starts to initiate. After completing the system test, the **ACT** LED will light up and start blinking.

(For the detailed information of LED status, please refer to section 1.1.)



---

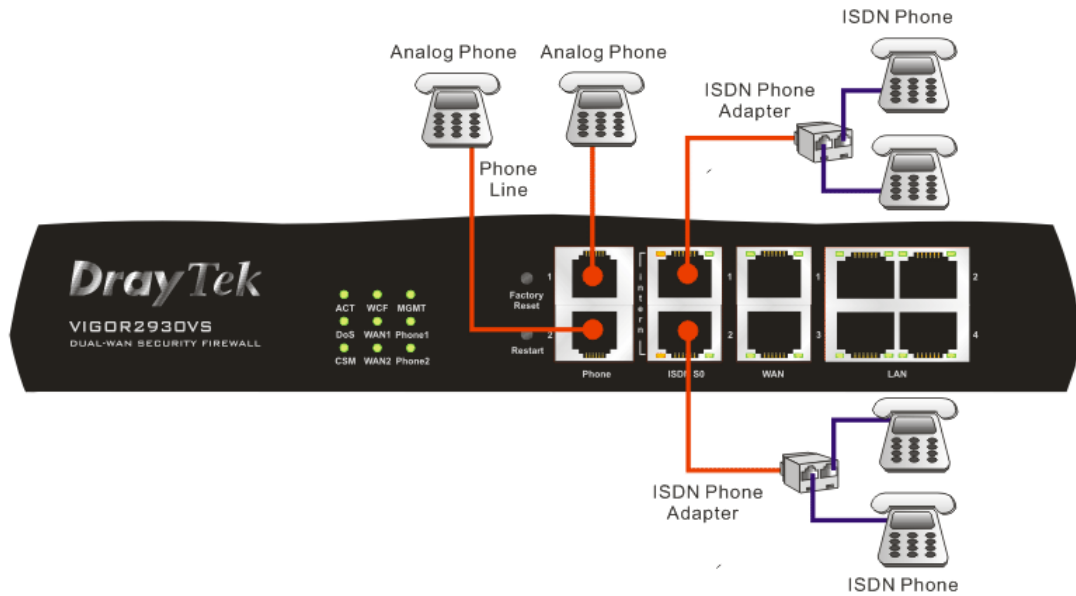
**Caution:** Each of the Phone ports can be connected to an analog phone only. Do not connect the phone ports to the telephone wall jack. Such connection might damage your router.

---

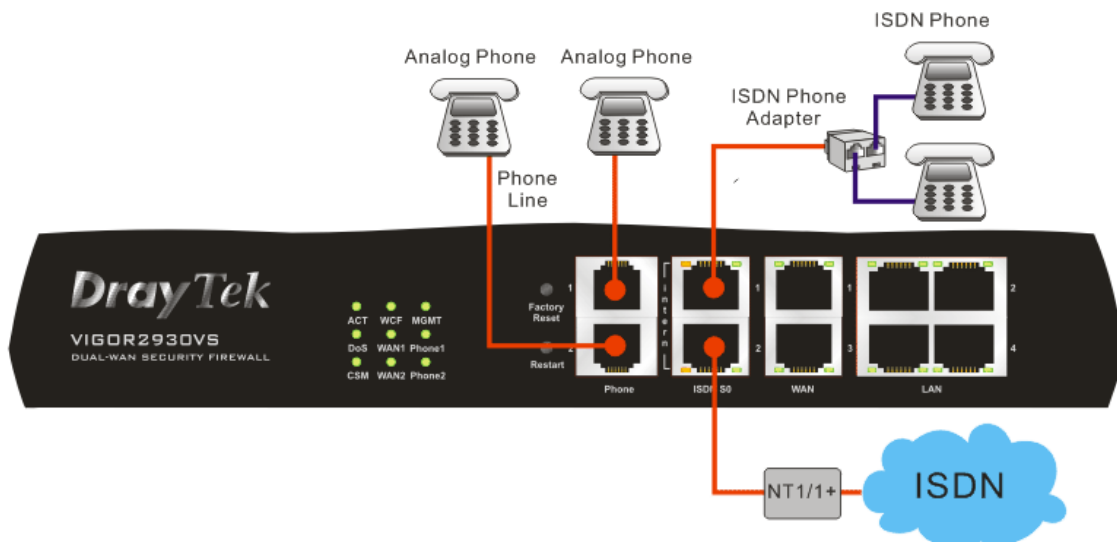
## 2.2 ISDN Phone Adapter Installation

Such information is provided for Vigor2930 S models (e.g., Vigor2930VS).

ISDN S0 1 is always fixed to connect ISDN phone. However, ISDN S0 2 is configurable as NT (ISDN S0 intern) or TE (ISDN S0 extern) mode. When the user configures ISDN S0 2 as NT mode in **VoIP>> Phone Settings**, the **orange LED** will light on to indicate **ISDN2-S0** is selected. And by using ISDN phone adapters (coming from the router package), the user can connect several phones to Vigor2930VS for communication. Refer to the following figure for reference.



Yet, if the user configures ISDN S0 2 as TE Mode in **VoIP>> Phone Settings**, the **green LED** will light on to indicate **ISDN2-TE** is selected. Then, the port is specified for ISDN line only. Refer to the following figure for reference.



## 3. Configuring Web Pages

To access Internet, please finish basic configuration after completing the hardware installation.

### 3.1 Basic Configuration

The **Quick Start Wizard** is designed for you to easily set up your router for Internet access. You can directly access the **Quick Start Wizard** via Web Configurator.

1. Make sure your PC connects to the router correctly.



---

**Notice:** You may either simply set up your computer to get IP dynamically from the router or set up the IP address of the computer to be the same subnet as **the default IP address of Vigor router 192.168.1.1**. For the detailed information, please refer to the later section - Trouble Shooting of the guide.

---

2. Open a web browser on your PC and type **http://192.168.1.1**. A pop-up window will open to ask for username and password. Do not type any word on the window and click **OK** for next screen.



---

**Notice:** If you fail to access to the web configuration, please go to “Trouble Shooting” for detecting and solving your problem.

---

3. Now, the **Main Screen** will pop up. Click **Quick Start Wizard**.

**Vigor2930 Series**  
Dual-WAN Security Firewall

**DrayTek**  
www.draytek.com

**Quick Start Wizard**  
Online Status

WAN  
LAN  
NAT  
Firewall  
Objects Setting  
CSM  
Bandwidth Management  
Applications  
VPN and Remote Access  
Certificate Management  
VoIP  
ISDN  
Wireless LAN  
SSL VPN  
System Maintenance  
Diagnostics

All Rights Reserved.

**System Status**

**Model Name** : Vigor2930 series  
**Firmware Version** : v3.2.0\_RC4a  
**Build Date/Time** : Fri May 9 18:43:23 2008

LAN		WAN 1	
MAC Address	: 00-50-7F-C2-80-20	Link Status	: <b>Connected</b>
1st IP Address	: 192.168.1.1	MAC Address	: 00-50-7F-C2-80-21
1st Subnet Mask	: 255.255.255.0	Connection	: Static IP
DHCP Server	: Yes	IP Address	: 172.16.3.229
DNS	: 194.109.6.66	Default Gateway	: 172.16.3.4

VoIP				WAN 2	
Port	Profile	Reg.	In/Out	Link Status	: <b>Disconnected</b>
Phone1		No	0/0	MAC Address	: 00-50-7F-C2-80-22
Phone2		No	0/0	Connection	: ---
ISDN1-S0		No	0/0	IP Address	: ---
ISDN2-TE		No	0/0	Default Gateway	: ---

Wireless LAN	
MAC Address	: 00-50-7F-c2-80-20
Frequency Domain	: Europe
Firmware Version	: v1.04.12.14.7.5

**Note:** The home page will change slightly in accordance with the router you have.

4. Enter the login password on the field of **New Password** and retype it on the field of **Retype New Password**. Then click **Next** to continue.

**Quick Start Wizard**

**Enter login password**

Please enter an alpha-numeric string as your **Password** (Max 23 characters).

New Password

Confirm Password

< Back   Next >   Finish   Cancel

5. On the next page as shown below, please select the WAN interface that you use. Choose **Auto negotiation** as the physical type for your router. Then click **Next** for next step.

Quick Start Wizard

Select WAN Interface

Select WAN Interface: WAN1

Display Name:

Physical Mode: Ethernet

Physical Type: Auto negotiation

- Auto negotiation
- 10M half duplex
- 10M full duplex
- 100M half duplex
- 100M full duplex

< Back   Next >   Finish   Cancel

6. On the next page as shown below, please select the appropriate Internet access type according to the information from your ISP. For example, you should select PPPoE mode if the ISP provides you PPPoE interface. Then click **Next** for next step.

Quick Start Wizard

Connect to Internet

**WAN 1**

Select one of the following Internet Access type provided by your ISP. If you are not sure which one you should choose, please contact your ISP to get these information in detail.

- PPPoE
- PPTP
- Static IP
- DHCP

< Back   Next >   Finish   Cancel

**PPPoE:** if you click PPPoE or PPPoA as the protocol, please manually enter the Username/Password provided by your ISP. Then click **Next**.

Quick Start Wizard

PPPoE Client Mode

**WAN 1**

Enter the user name and password provided by your ISP.

User Name: 84005755@hinet.net

Password:

Confirm Password:

< Back   Next >   Finish   Cancel

**PPTP:** if you click PPTP, you will get the following page. Please type in all the information originally provided by your ISP. Then click **Next** for next step.

Quick Start Wizard

PPTP Client Mode

**WAN 1**  
Enter the user name, password, WAN IP configurations and PPTP server IP provided by your ISP.

User Name

Password

Retype Password

WAN IP Configurations

Obtain an IP address automatically

Specify an IP address

IP Address

Subnet Mask

PPTP Server IP

< Back   Next >   Finish   Cancel

**Static IP:** if you click Static IP, you will get the following page. Please type in the IP address information originally provided by your ISP. Then click **Next** for next step.

Quick Start Wizard

Static IP Client Mode

**WAN 1**  
Enter the Static IP configuration provided by your ISP.

WAN IP

Subnet Mask

Gateway

Primary DNS

Secondary DNS  (optional)

< Back   Next >   Finish   Cancel

**DHCP:** if you click DHCP, you will get the following page. Simply click **Next** to continue.

Quick Start Wizard

DHCP Client Mode

**WAN 1**  
If your ISP require you to enter a specific host name or specific MAC address, please enter it in.

Host Name  (optional)

MAC       (optional)

< Back   Next >   Finish   Cancel

- Now you can see the following screen. It indicates that the setup is complete. Different types of connection modes will have different summary. Click **Finish** and then restart the router. Afterward, you will enjoy surfing on the Internet.

## Quick Start Wizard

---

### Please confirm your settings:

WAN Interface:	WAN1
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	DHCP

Click **Back** to modify changes if necessary. Otherwise, click **Finish** to save the current settings and restart the Vigor router.

< Back

Next >

Finish

Cancel

## 3.2 Wireless Configuration



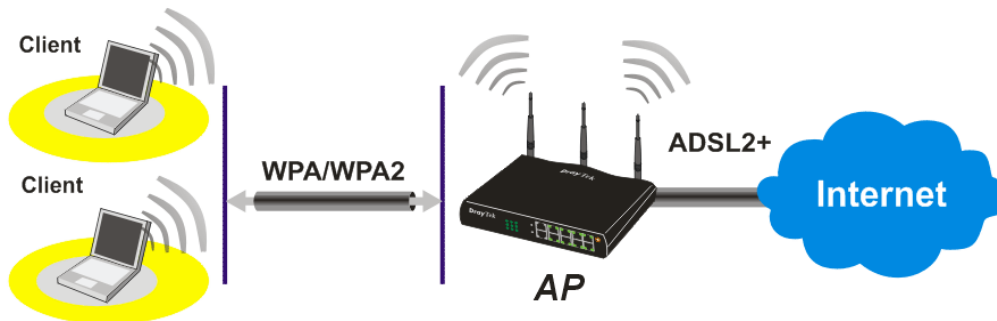
For the user of Vigor2930/2910VS, please skip this section.

For operating Vigor2930n/Vn/VSn well, it is necessary for you to set the wireless LAN settings for using wireless function. Please read the following section carefully for configuring the settings for this router.

(The default value of Frequency Domain was set by factory depends on the reselling region.)

### 3.2.1 Basic Wireless LAN Concept

In an Infrastructure Mode of wireless network, Vigor wireless router plays a role as an **Access Point (AP)** connecting to lots of wireless clients or Stations (STA). All the STAs (clients) will share the same Internet connection with other wired hosts via Vigor wireless router.



### 3.2.2 General Setup

1. On the **Wireless LAN** group, select **General Setup**. The following page will be shown.

Wireless LAN >> General Setup

#### General Setting (IEEE 802.11)

Enable Wireless LAN

Mode :

Index(1-15) in **Schedule** Setup:  ,  ,  ,

	Enable	Hide SSID	SSID	Isolate LAN	Member
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	default	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Hide SSID:** Prevent SSID from being scanned.  
**Isolate Member:** Wireless clients (stations) with the same SSID cannot access for each other.  
**Isolate LAN:** Wireless clients (stations) with the same SSID cannot access wired PCs on LAN.

Channel:  Long Preamble:

Long Preamble: necessary for some old 802.11 b devices only(lower performance)

Packet-OVERDRIVE™

Tx Burst

**Note:**

1. Tx Burst only supports 11g mode.
2. The same technology must also be supported in clients to boost WLAN performance.

OK Cancel



2. Check **Enable Wireless LAN** to enable the wireless function.
3. At present, the router can connect to IEEE802.11b, IEEE802.11g and IEEE802.11n stations simultaneously. Simply choose Mixed (11b+11g+11n) mode.
4. Type in the name of the **SSID**. The default name for SSID is **default**. We suggest you change it to a particular name for your necessity.

**SSID (service set identifier)** It is used to name the wireless LAN for this router, and it must have the same content in client PC/notebook wireless card(s). SSID can be any text numbers or various special characters.

**Channel** It is a wireless channel for the router. The default channel is 6. You can change it to an appropriate one if the selected channel is under serious interference.

### 3.2.3 Security Settings

1. On the **Wireless LAN** group, select **Security Settings**.

Wireless LAN >> Security Settings

Mode: Disable

Set up [RADIUS Server](#) if 802.1x

**WPA:**

Pre-Shared Key(PSK):  
Type 8~63 ASCII character or "cfgs01a2..." or "0x655abcd..." by "0x", for example

**WEP:**

Encryption Mode: 64-Bit

Key 1 :

Key 2 :

Key 3 :

Key 4 :

**For 64 bit WEP key**  
Type 5 ASCII character or 10 Hexadecimal digits leading by "0x", for example "AB312" or "0x4142333132".

**For 128 bit WEP key**  
Type 13 ASCII character or 26 Hexadecimal digits leading by "0x", for example "0123456789abc" or "0x30313233343536373839414243".

2. Select an appropriate encryption mode to improve the security and privacy of your wireless data packets.

Mode: WPA2/802.1x

Disable  
 WEP  
 WPA/PSK  
 WPA2/PSK  
 Mixed(WPA+WPA2)/PSK  
 WEP/802.1x  
 WPA/802.1x  
WPA2/802.1x  
 Mixed(WPA+WPA2)/802.1x

<b>Disable</b>	Turn off the encryption mechanism. For the security of your router, please select any one of the encryption mode here.
<b>WEP</b>	Accepts only WEP clients and the encryption key should be entered in WEP Key.
<b>WPA/PSK WPA2/PSK</b>	Accepts only WPA clients and the encryption key should be entered in PSK.
<b>Mixed (WPA+WPA2)/PSK</b>	Accepts WPA and WPA2 clients, and the encryption key should be entered in PSK.
<b>WEP/802.1x</b>	Accepts only WEP clients and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol.
<b>WPA/802.1x WPA2/802.1x</b>	Accepts only WPA clients, and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol.
<b>Mixed (WPA+WPA2)/802.1x</b>	Accepts WPA and WPA2 clients, and the encryption key is obtained dynamically from RADIUS server with 802.1X protocol.

---

**Note:** You should also set **RADIUS Server** simultaneously if **802.1x** mode is selected.

---

- For **WPA** encryption, type in 8~63 ASCII characters or 64 Hexadecimal digits leading by 0x, for example "0123456789ABCD...." or "0x321253abcde...." on the field of **Pre-Shared Key (PSK)**. WPA encrypts each frame transmitted from the radio using the Pre-Shared Key (PSK) which entered from this panel.
- As to **WEP** encryption, select 64-bit or 128-bit as the encryption mode. For 64bits WEP key, type in 5 ASCII characters or 10 hexadecimal digitals leading by 0x, for example, ABCDE or 0x4142434445. And for 128bits WEP key, type in 13 ASCII characters or 26 hexadecimal digits leading by 0x, for example, ABCDEFGHIJKLM or 0x4142434445464748494A4B4C4D. Only one WEP key can be selected and allows user to type in the characters.
- Click **OK** to save settings.

Be aware that for the communication, all wireless devices must support the same encryption bit length and share the same key. If WEP mode is selected, only one of four preset keys can be selected at one time.

## 4. Trouble Shooting

This section will guide you to solve abnormal situations if you cannot access into the Internet after installing the router and finishing the web configuration. Please follow sections below to check your basic installation status stage by stage.

- Checking if the hardware status is OK or not.
- Checking if the network connection settings on your computer are OK or not.
- Pinging the router from your computer.
- Checking if the ISP settings are OK or not.
- Backing to factory default setting if necessary.

If all above stages are done and the router still cannot run normally, it is the time for you to contact your dealer for advanced help.

### 4.1 Checking If the Hardware Status Is OK or Not

Follow the steps below to verify the hardware status.

1. Check the power line and LAN cable connections. Refer to “**2.1 Hardware Installation**” for details.
2. Turn on the router. Make sure the **ACT LED** blink once per second and the correspondent **LAN LED** is bright.



3. If not, it means that there is something wrong with the hardware status. Simply back to “**2.1 Hardware Installation**” to execute the hardware installation again. And then, try again.

## 4.2 Checking If the Network Connection Settings on Your Computer Is OK or Not

Sometimes the link failure occurs due to the wrong network connection settings. After trying the above section, if the link is still failed, please do the steps listed below to make sure the network connection settings is OK.

### For Windows

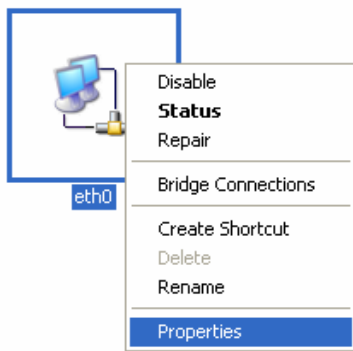


The example is based on Windows XP. As to the examples for other operation systems, please refer to the similar steps or find support notes in [www.draytek.com](http://www.draytek.com).

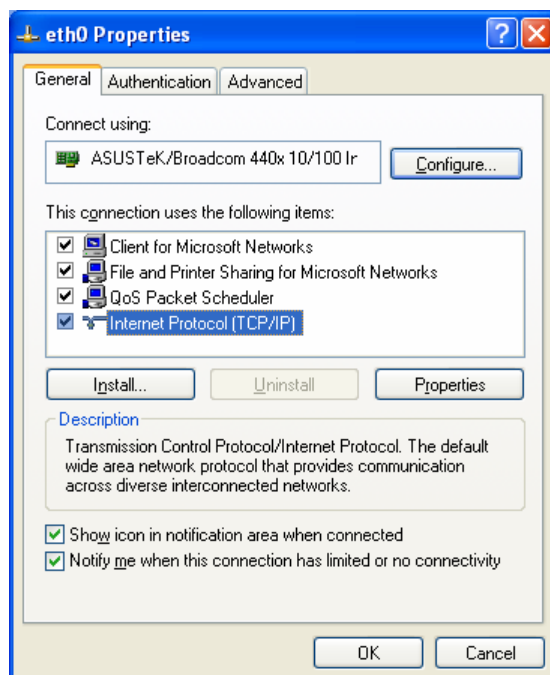
1. Go to **Control Panel** and then double-click on **Network Connections**.



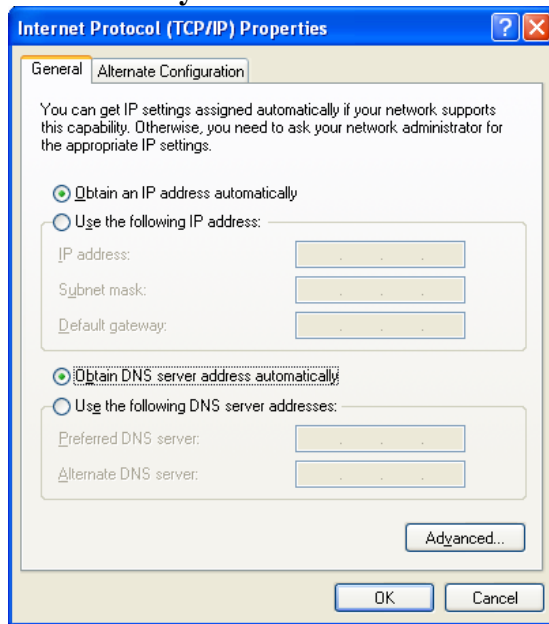
2. Right-click on **Local Area Connection** and click on **Properties**.



3. Select **Internet Protocol (TCP/IP)** and then click **Properties**.

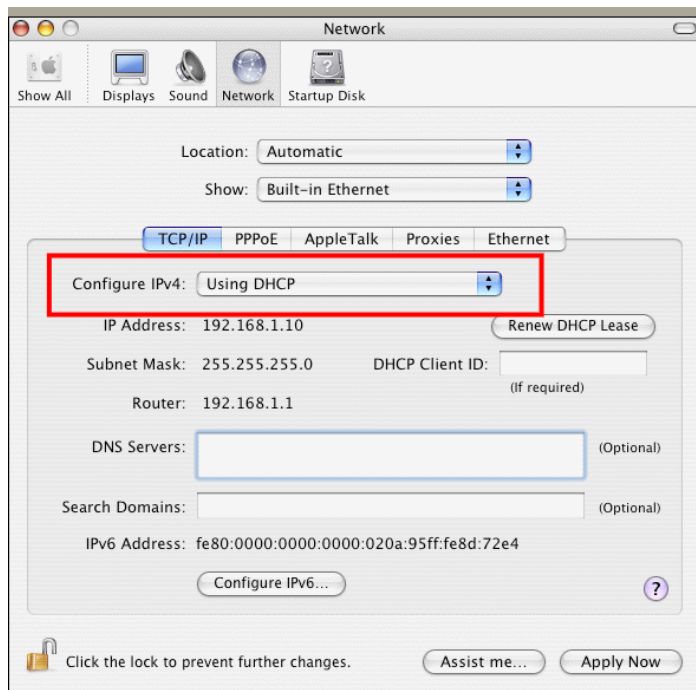


4. Select **Obtain an IP address automatically** and **Obtain DNS server address automatically**.



## For MacOs

1. Double click on the current used MacOs on the desktop.
2. Open the **Application** folder and get into **Network**.
3. On the **Network** screen, select **Using DHCP** from the drop down list of Configure IPv4.



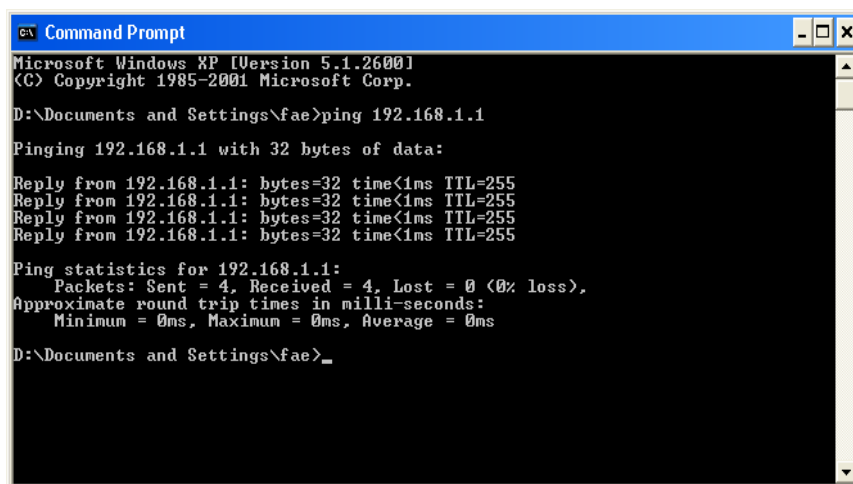
## 4.3 Pinging the Router from Your Computer

The default gateway IP address of the router is 192.168.1.1. For some reason, you might need to use “ping” command to check the link status of the router. **The most important thing is that the computer will receive a reply from 192.168.1.1.** If not, please check the IP address of your computer. We suggest you setting the network connection as **get IP automatically**. (Please refer to the section 4.2)

Please follow the steps below to ping the router correctly.

### For Windows

1. Open the **Command Prompt** window (from **Start menu> Run**).
2. Type **command** (for Windows 95/98/ME) or **cmd** (for Windows NT/ 2000/XP). The DOS command dialog will appear.



```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

D:\Documents and Settings\fae>ping 192.168.1.1

Pinging 192.168.1.1 with 32 bytes of data:

Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255
Reply from 192.168.1.1: bytes=32 time<1ms TTL=255

Ping statistics for 192.168.1.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

D:\Documents and Settings\fae>_
```

3. Type **ping 192.168.1.1** and press [Enter]. If the link is OK, the line of “**Reply from 192.168.1.1:bytes=32 time<1ms TTL=255**” will appear.
4. If the line does not appear, please check the IP address setting of your computer.

### For MacOs (Terminal)

1. Double click on the current used MacOs on the desktop.
2. Open the **Application** folder and get into **Utilities**.
3. Double click **Terminal**. The Terminal window will appear.
4. Type **ping 192.168.1.1** and press [Enter]. If the link is OK, the line of “**64 bytes from 192.168.1.1: icmp\_seq=0 ttl=255 time=xxxx ms**” will appear.

```

Terminal — bash — 80x24
Last login: Sat Jan 3 02:24:18 on ttty1
Welcome to Darwin!
Vigor10:~ draytek$ ping 192.168.1.1
PING 192.168.1.1 (192.168.1.1): 56 data bytes
64 bytes from 192.168.1.1: icmp_seq=0 ttl=255 time=0.755 ms
64 bytes from 192.168.1.1: icmp_seq=1 ttl=255 time=0.697 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=255 time=0.716 ms
64 bytes from 192.168.1.1: icmp_seq=3 ttl=255 time=0.731 ms
64 bytes from 192.168.1.1: icmp_seq=4 ttl=255 time=0.72 ms
^C
--- 192.168.1.1 ping statistics ---
5 packets transmitted, 5 packets received, 0% packet loss
round-trip min/avg/max = 0.697/0.723/0.755 ms
Vigor10:~ draytek$

```

## 4.4 Checking If the ISP Settings are OK or Not

Open **WAN >> Internet Access** page and then check whether the ISP settings are set correctly. Click **Details Page** of WAN1/WAN2 to review the settings that you configured previously.

**WAN >> Internet Access**

**Internet Access**

Index	Display Name	Physical Mode	Access Mode	
WAN1		Ethernet	Static or Dynamic IP	<a href="#">Details Page</a>
WAN2		Ethernet	None PPPoE Static or Dynamic IP PPTP	<a href="#">Details Page</a>

### For PPPoE Users

1. Check if the **Enable** option is selected.
2. Check if **Username** and **Password** are entered with correct values that you **got from your ISP**.

**WAN >> Internet Access**

**WAN 1**

<p><b>PPPoE Client Mode</b></p> <p><input checked="" type="radio"/> Enable <input type="radio"/> Disable</p> <hr/> <p><b>ISP Access Setup</b></p> <p>Username: <input type="text" value="84005755@hinet.net"/></p> <p>Password: <input type="password" value="*****"/></p> <p>Index(1-15) in <b>Schedule</b> Setup: =&gt; <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/></p>	<p><b>PPP/MP Setup</b></p> <p>PPP Authentication: <input type="text" value="PAP or CHAP"/></p> <p>Idle Timeout: <input type="text" value="-1"/> second(s)</p> <p><b>IP Address Assignment Method (IPCP)</b></p> <p><input type="button" value="WAN IP Alias"/></p> <p>Fixed IP: <input type="radio"/> Yes <input checked="" type="radio"/> No (Dynamic IP)</p> <p>Fixed IP Address: <input type="text"/></p> <hr/> <p><input checked="" type="radio"/> Default MAC Address  <input type="radio"/> Specify a MAC Address</p> <p>MAC Address:  <input type="text" value="00"/> <input type="text" value=".50"/> <input type="text" value=".7F"/> <input type="text" value=".22"/> <input type="text" value=".33"/> <input type="text" value=".45"/></p>
---	---

## For Static Users

1. Check if the **Enable** option for Broadband Access is selected.

WAN >> Internet Access

**WAN 1**

<p><b>Static or Dynamic IP (DHCP Client)</b></p> <p><input checked="" type="radio"/> Enable <input type="radio"/> Disable</p>	<p><b>WAN IP Network Settings</b></p> <p><input type="radio"/> Obtain an IP address automatically</p> <p>Router Name <input type="text"/> *</p> <p>Domain Name <input type="text"/> *</p> <p>* : Required for some ISPs</p> <p><input checked="" type="radio"/> Specify an IP address <input type="button" value="WAN IP Alias"/></p> <p>IP Address <input type="text" value="172.16.3.229"/></p> <p>Subnet Mask <input type="text" value="255.255.255.0"/></p> <p>Gateway IP Address <input type="text" value="172.16.3.1"/></p>
<p><b>ISDN Dial Backup Setup</b></p> <p>Dial Backup Mode <input type="text" value="None"/></p>	<p><input checked="" type="radio"/> Default MAC Address</p> <p><input type="radio"/> Specify a MAC Address</p> <p>MAC Address:</p> <p><input type="text" value="00"/> <input type="text" value=".50"/> <input type="text" value=".7F"/> <input type="text" value":00"=""/> <input type="text" value="."/> <input type="text" value="00"/> <input type="text" value="."/> <input type="text" value="01"/></p>
<p><b>Keep WAN Connection</b></p> <p><input type="checkbox"/> Enable PING to keep alive</p> <p>PING to the IP <input type="text"/></p> <p>PING Interval <input type="text" value="0"/> minute(s)</p>	<p><b>DNS Server IP Address</b></p> <p>Primary IP Address <input type="text"/></p> <p>Secondary IP Address <input type="text"/></p>
<p><b>RIP Protocol</b></p> <p><input type="checkbox"/> Enable RIP</p>	

2. Check if **WAN IP Network Settings** is set appropriately.
3. Check if **IP Address, Subnet Mask** and **Gateway** are set correctly (must identify with the values from your ISP) if you choose **Specify an IP address**.

## For PPTP Users

1. Check if the **Enable** option for **PPTP Link** is selected.

WAN >> Internet Access

**WAN 1**

<p><b>PPTP Client Mode</b></p> <p><input checked="" type="radio"/> Enable <input type="radio"/> Disable</p> <p>PPTP Server <input type="text" value="10.0.0.138"/></p>	<p><b>PPP Setup</b></p> <p>PPP Authentication <input type="text" value="PAP or CHAP"/></p> <p>Idle Timeout <input type="text" value="180"/> second(s)</p>
<p><b>ISP Access Setup</b></p> <p>Username <input type="text"/></p> <p>Password <input type="text"/></p> <p>Index(1-15) in <b>Schedule Setup</b>:</p> <p>=&gt; <input type="text"/> , <input type="text"/> , <input type="text"/> , <input type="text"/></p>	<p><b>IP Address Assignment Method (IPCP)</b></p> <p><input type="button" value="WAN IP Alias"/></p> <p>Fixed IP: <input type="radio"/> Yes <input checked="" type="radio"/> No (Dynamic IP)</p> <p>Fixed IP Address <input type="text"/></p>
	<p><b>WAN IP Network Settings</b></p> <p><input type="radio"/> Obtain an IP address automatically</p> <p><input checked="" type="radio"/> Specify an IP address</p> <p>IP Address <input type="text" value="10.0.0.150"/></p> <p>Subnet Mask <input type="text" value="255.0.0.0"/></p>

2. Check if **PPTP Server, Username, Password** and **WAN IP address** are set correctly (must identify with the values from your ISP).



## 4.5 Backing to Factory Default Setting If Necessary

Sometimes, a wrong connection can be improved by returning to the default settings. Try to reset the router by software or hardware.



**Warning:** After pressing **factory default setting**, you will lose all settings you did before. Make sure you have recorded all useful settings before you pressing. The password of factory default is null.

### Software Reset

You can reset the router to factory default via Web page.

Go to **System Maintenance** and choose **Reboot System** on the web page. The following screen will appear. Choose **Using factory default configuration** and click **OK**. After few seconds, the router will return all the settings to the factory settings.

System Maintenance >> Reboot System

#### Reboot System

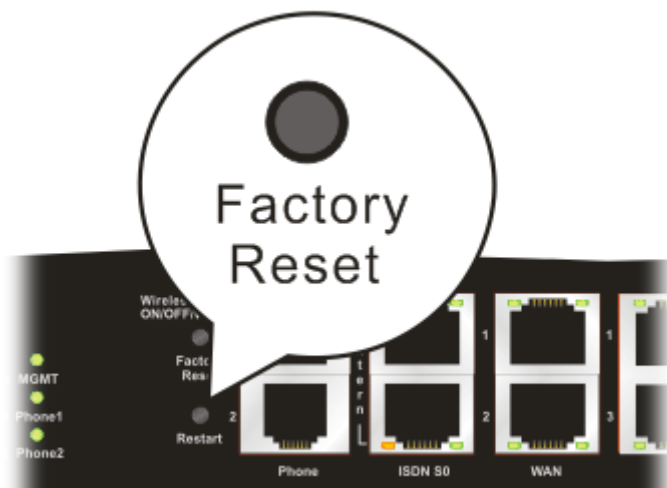
Do You want to reboot your router ?

- Using current configuration
- Using factory default configuration

OK

### Hardware Reset

While the router is running (ACT LED blinking), press the **RST** button and hold for more than 5 seconds. When you see the **ACT** LED blinks rapidly, please release the button. Then, the router will restart with the default configuration.



After restore the factory default setting, you can configure the settings for the router again to fit your personal request.

## 4.6 Contacting Your Dealer

If the router still cannot work correctly after trying many efforts, please contact your dealer for further help right away. For any questions, please feel free to send e-mail to [support@draytek.com](mailto:support@draytek.com).