Vigor2860 Series VDSL2 Security Firewall Quick Start Guide

Version: 1.0 Firmware Version: V3.7.1_RC3 (For future update, please visit DrayTek web site) Date: 17/01/2013



Vigor2860 Series Quick Start Guide

Copyright Information

Copyright Declarations	Copyright 2013 All rights reserved. This publication contains information that is protected by copyright. No part may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language without written permission from the copyright holders.
Trademarks	 The following trademarks are used in this document: Microsoft is a registered trademark of Microsoft Corp. Windows, Windows 95, 98, Me, NT, 2000, XP, 7 and Explorer are trademarks of Microsoft Corp. Apple and Mac OS are registered trademarks of Apple Computer Inc. Other products may be trademarks or registered trademarks of their respective manufacturers.
Safety Instruc	tions 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 be 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 tore-store 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 Township, Hsinchu Industrial Park, Hsinchu County,Taiwan 303Vigor2860 Series Router

DrayTek Corp. declares that Vigor2860 Series of routers are in compliance with the following essential requirements and other relevant provisions of R&TTE 1999/5/EC, ErP 2009/125/EC and RoHS 2011/65/EU.

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/EC 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 user 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.

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

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment.

This equipment must be installed and operated with a separation distance of at least 20 cm from all persons.

The operation frequency of the device in the 5150-5250 MHz band is for indoor use only.

Please visit http://www.draytek.com/user/SupportDLRTTECE.php



This product is designed for the DSL and 2.4GHz / 5GHz WLAN network throughout the EC region. Please see the user manual for the applicable networks on your product.



Table of Contents

1. Introduction	1
1.1 Panel Explanation	2
1.1.1 For Vigor2860	
1.1.2 For Vigor2860n	
1.1.3 For Vigor2860Vn-plus	6
1.1.4 For Vigor2862	
1.1.5 For Vigor2862n	
1.1.6 For Vigor2862Vn-plus	
1.1.7 For Vigor2863	
1.1.8 For Vigor2863n	
1.1.9 For Vigor2863Vn	
1.1.10 For Vigor2925	
1.1.11 For Vigor2925n	24
1.1.12 For Vigor2925Vn-plus	
1.2 Package Content	29
2. Installing Your Router	31
2.1 Hardware Installation	31
2.2 Printer Installation	34
3. Initial Settings	42
3.1 Accessing Web Page	42
3.2 Basic Configuration – Quick Start Wizard	43
3.2.1 For WAN1 (ADSL/VDSL)	45
3.2.2 For WAN2 (Ethernet)	49
3.2.3 For WAN3 (USB)	57
3.3 Wireless Configuration	58
3.3.1 Basic Wireless LAN Concept	
3.3.2 General Setup	
3.3.3 Security Settings	
4. Trouble Shooting	62
4.1 Checking If the Hardware Status Is OK or Not	62
4.2 Checking If the Network Connection Settings on Your Com Not	-

Dray Tek

4.3 Pinging the Router from Your Computer	66
4.4 Checking If the ISP Settings are OK or Not	67
4.5 Backing to Factory Default Setting If Necessary	67
4.6 Contacting Your Dealer	69

1. Introduction

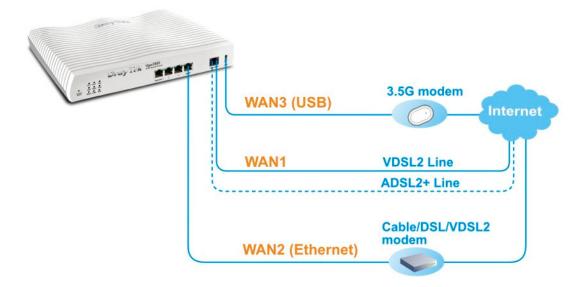
Vigor2860 series is a VDSL2 router with multi-subnet for secure and efficient workgroup management. It integrates IP layer QoS, NAT session/bandwidth management to help users control works well with large bandwidth.

By adopting hardware-based VPN platform and hardware encryption of AES/DES/3DES, 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 32 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) and P2P (Peer to Peer) more efficiency than before. In addition, DoS/DDoS prevention and URL/Web content filter strengthen the security outside and control inside.

Vigor2860 series supports USB interface for connecting USB printer to share printing function, 3G USB modem for network connection, or connectivity for network FTP service.

Multi-WAN Load Balancing/Failover



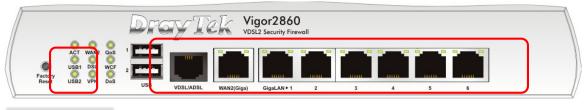
Dray Tek

1.1 Panel Explanation

1.1.1 For Vigor2860

	Dr		Vigor2860 VDSL2 Security Firewall
ACT W N2 USB1 DL Factory Reset USB2 V N	Acs 1 Construction	VDSL/ADSL WAN2(Gig	
LED		Status	Explanation
ACT (Act	ivity)	Blinking	The router is powered on and running normally.
		Off	The router is powered off.
USB(1-2)		On	USB device is connected and ready for use.
		Blinking	The data is transmitting.
WAN2		On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
DSL		On	The router is ready to access Internet through DSL link.
		Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
VPN		On	The VPN tunnel is active.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while detecting an attack.
LED on C	onnect	tor	
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
~	Left	On	The port is connected.
GigaLAN	LED	Off	The port is disconnected.
1~6		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps





		ON
PWR	0	OFF

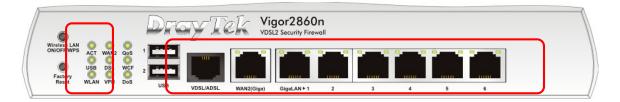
Interface	Description
Factory Reset	Restore the default settings. Usage: Turn on the router (ACT LED is blinking). Press the hole and keep for more than 5 seconds. When you see the ACT LED begins to blink rapidly than usual, release the button. Then the router will restart with the factory default configuration.
USB	Connecter for a USB device (for 3G USB Modem or printer).
VDSL/ADSL	Connecter for accessing the Internet.
WAN2	Connecter for local network devices or modem for accessing Internet.
GigaLAN (1-6)	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.1.2 For Vigor2860n

7	Dr	ov Tel	Vigor2860n
	Qos 1 Qos 2 Dos USB	VDSL/ADSL WAN2(Gg	DSL2 Security Firewoll GigsLAN+1 2 3 4 5 6
LED		Status	Explanation
ACT (Act	tivity)	Blinking	The router is powered on and running normally.
		Off	The router is powered off.
USB		On	USB device is connected and ready for use.
		Blinking	The data is transmitting.
WLAN		On	Wireless access point is ready.
		Blinking	It will blink slowly while wireless traffic goes through.
			ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN2		On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
DSL		On	The router is ready to access Internet through DSL link.
		Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
VPN		On	The VPN tunnel is active.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while detecting an attack.
LED on Connector			
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
~· • • • •	Left	On	The port is connected.



	Off	The port is disconnected.
	Blinking	The data is transmitting.
Right	On	The port is connected with 1000Mbps.
LED	Off	The port is connected with 10/100Mbps



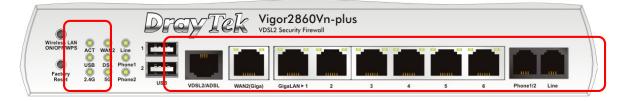


Interface	Description
Wireless LAN	Press "Wireless LAN ON/OFF/WPS" button once to
ON/OFF/WPS	wait for client device making network connection
	through WPS.
	Press "Wireless LAN ON/OFF/WPS" button twice to
	enable (WLAN LED on) or disable (WLAN LED off)
	wireless connection.
Factory Reset	Restore the 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.
USB	Connecter for a USB device (for 3G USB Modem or
	printer).
VDSL/ADSL	Connecter for accessing the Internet.
WAN2 (Giga)	Connecter for local network devices or modem for
	accessing Internet.
GigaLAN (1-6)	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.1.3 For Vigor2860Vn-plus

Wireless LAN ON/OFFWPS Factory Reset 2.40 SG Phone2 USB	VDSL2/ADSL	Vigor2860Vn-plus /DSL2 Security Firewall GigaLAN > 1 2 3 4 5 6 Phone1/2 Line
LED ACT (Activity)	Status Blinking	Explanation The router is powered on and running
Mer (neuvity)	Dimking	normally.
	Off	The router is powered off.
USB	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
2.4G	On	Wireless access point with transmission rate of 2.4G is ready.
	Blinking	It will blink slowly while wireless traffic goes through.
		ACT and WLAN LEDs blink quickly and
		simultaneously when WPS is working, and
		will return to normal condition after two
		minutes. (You need to setup WPS within 2
WAN2	On	minutes.)
WANZ	On Off	Internet connection is ready.
		Internet connection is not ready.
DSL	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
5G	On	Wireless access point with transmission rate of 5G is ready.
	Blinking	It will blink slowly while wireless traffic goes through.
		ACT and WLAN LEDs blink quickly and
		simultaneously when WPS is working, and
		will return to normal condition after two
		minutes. (You need to setup WPS within 2
		minutes.)
Line	On	A PSTN phone call comes (in and out).
		However, when the phone call is
		disconnected, the LED will be off.
	Off	There is no PSTN phone call.

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 C	Connect	or	
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
<u> </u>	Left	On	The port is connected.
GigaLAN 1~6	LED	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps





Interface	Description
Wireless LAN ON/OFF/WPS	 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.
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.
USB	Connecter for a USB device (for 3G USB Modem or printer).

VDSL2/ADSL	Connecter for accessing the Internet.
WAN2 (Giga)	Connecter for local network devices or modem for
	accessing Internet.
GigaLAN (1-6)	Connecters for local network devices.
Phone 1/2	Connecter for analog phone(s).
Line	Connector for PSTN life line.
PWR	Connecter for a power adapter.

1.1.4 For Vigor2862

C	Dr	cyTek 🛛	/igor2862 val DSL Security Firewall
Factory Reset USB2 VSB2 VSB2 VSB2	WCF 2	VDSL2/ADSL WAN2(Giga)	GigaLAN+1 2 3 4 5 6
LED		Status	Explanation
ACT (Act	ivity)	Blinking	The router is powered on and running normally.
		Off	The router is powered off.
USB(1-2)		On	USB device is connected and ready for use.
		Blinking	The data is transmitting.
WAN2		On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
DSL(1-2)		On	The router is ready to access Internet through DSL link.
		Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS		On	The DoS/DDoS function is active.
200	200		It will blink while detecting an attack.
Blinking It will blink while detecting an attack. <i>LED on Connector</i>			
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
	Left	On	The port is connected.
GigaLAN	LED	Off	The port is disconnected.
1~6		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
Factory 🔘 🕻			Vigor2862 SHP St. Seconity Firewall UigotARP1 2 3 4 5 6



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.
USB	Connecter for a USB device (for 3G USB Modem or printer).
VDSL/ADSL	Connecter for accessing the Internet.
WAN2	Connecter for local network devices or modem for accessing Internet.
GigaLAN (1-6)	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.



1.1.5 For Vigor2862n

Factory O	QOS DOS 2 USB	VDSL/ADSL	Vigor2862n Jud DSL Security Firewall
LED		Status	Explanation
ACT (Act	tivity)	Blinking	The router is powered on and running
× ×	5 /		normally.
		Off	The router is powered off.
USB		On	USB device is connected and ready for use.
		Blinking	The data is transmitting.
WLAN		On	Wireless access point is ready.
		Blinking	It will blink slowly while wireless traffic goes through.
			ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two
			minutes. (You need to setup WPS within 2 minutes.)
WAN2		On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
DSL(1-2)		On	The router is ready to access Internet through
			DSL link.
		Blinking	Slowly: The DSL connection is ready.
			Quickly: The connection is training.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while detecting an attack.
LED on (Connect	e e	
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
	Left	On	The port is connected.
~· · · · · ·	LED	Off	The port is disconnected.
Dray Tek			11 <i>Vi</i> gor2860 Series Quick Start Guide

	Blinking	The data is transmitting.
Right	On	The port is connected with 1000Mbps.
LED	Off	The port is connected with 10/100Mbps





Interface	Description
Wireless LAN	Press "Wireless LAN ON/OFF/WPS" button once to
ON/OFF/WPS	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.
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.
USB	Connecter for a USB device (for 3G USB Modem or
	printer).
VDSL/ADSL	Connecter for accessing the Internet.
WAN2 (Giga)	Connecter for local network devices or modem for
	accessing Internet.
GigaLAN (1-6)	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.1.6 For Vigor2862Vn-plus

Wirelas LAN ONOFF/WPS ACT VAN2 Line1 1 Protory Reset WLAN SL2 Phone USB		Vigor2862Vn-plus Dual DSL Security Firewall
LED		
ACT (Activity)	Status Blinking	Explanation The router is powered on and running normally.
	Off	The router is powered off.
USB	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
2.4G	On	Wireless access point with transmission rate of 2.4G is ready.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and
		will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN2	On	Internet connection is ready.
	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
5G	On	Wireless access point with transmission rate of 5G is ready.
	Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
Line	On	A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off.
	Off	There is no PSTN phone call.

Dray Tek

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	Connect	tor	
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
LEI	LED	Off	The port is connected with 10/100Mbps
T 4 3 T	Left	On	The port is connected.
LAN (1~6)	LED	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps





Interface	Description
Wireless LAN ON/OFF/WPS	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.
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.
USB	Connecter for a USB device (for 3G USB Modem or printer).



VDSL2/ADSL	Connecter for accessing the Internet.
WAN2 (Giga)	Connecter for local network devices or modem for
	accessing Internet.
GigaLAN (1-6)	Connecters for local network devices.
Phone 1/2	Connecter for analog phone(s).
Line	Connector for PSTN life line.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.1.7 For Vigor2863

	Dr	cyTek X	Vigor2863 JSL2 Bonding Security Firewall
ACT VAN2 USB1 DSL1 Factory Reset USB2 DSL2	WCF 2	UDSL2/ADSL WAN2(Giga)	GigaLAN≻1 2 3 4 5 6
LED		Status	Explanation
ACT (Acti	ivity)	Blinking	The router is powered on and running normally.
		Off	The router is powered off.
USB(1-2)		On	USB device is connected and ready for use.
		Blinking	The data is transmitting.
WAN2		On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
DSL(1-2)		On	The router is ready to access Internet through DSL link.
		Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is
		_	enabled from Firewall >> General Setup).
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while detecting an attack.
LED on C	'onnect	or	
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
	Left	On	The port is connected.
GigaLAN	LED	Off	The port is disconnected.
1~6		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
ACT WAY2		cyTek X	/igor2863 JSL2 Bonding Security Firewall
	WCF 2	VDSL2/ADSL WAN2(Giga)	GigaLAN > 1 2 3 4 5 6





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.
USB	Connecter for a USB device (for 3G USB Modem or printer).
VDSL/ADSL	Connecter for accessing the Internet.
WAN2	Connecter for local network devices or modem for accessing Internet.
GigaLAN (1-6)	Connecters for local network devices.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

1.1.8 For Vigor2863n

Wireless LAN ON/OFF/WPS ACT WANZ Factory Reset WLAN DSL2	WCF 2	CYTEK	Vigor2863n VDSL2 bonding Security Firewall a) GigaLAN⊁1 2 3 4 5 6
LED		Status	Explanation
	in the last	Blinking	
ACT (Act	ivity)	Diniking	The router is powered on and running normally.
		Off	The router is powered off.
USB		On	USB device is connected and ready for use.
CSD		Blinking	The data is transmitting.
WLAN		On	Wireless access point is ready.
		Blinking	It will blink slowly while wireless traffic goes
		Dilliking	through.
			ACT and WLAN LEDs blink quickly and
			simultaneously when WPS is working, and
			will return to normal condition after two
			minutes. (You need to setup WPS within 2
_			minutes.)
WAN2		On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
DSL(1-2)		On	The router is ready to access Internet through
			DSL link.
		Blinking	Slowly: The DSL connection is ready.
			Quickly: The connection is training.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is
			enabled from Firewall >> General Setup).
DoS		On	The DoS/DDoS function is active.
		Blinking	It will blink while detecting an attack.
LED on C	onnect	or	
	Left	On	The port is connected.
WAN2	LED	Off	The port is disconnected.
(Giga)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
GigaLAN	Left	On	The port is connected.
	LED	Off	The port is disconnected.
Vigor2860 Series Qui	ick Start Gu	ide	18 Dray Tek

		Blinking	The data is transmitting.
R	Right	On	The port is connected with 1000Mbps.
L	LED	Off	The port is connected with 10/100Mbps



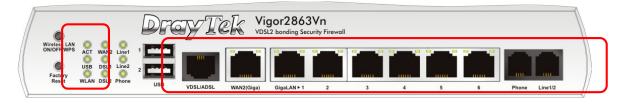


Interface	Description	
Wireless LAN	Press "Wireless LAN ON/OFF/WPS" button once to	
ON/OFF/WPS	wait for client device making network connection	
	through WPS.	
	Press "Wireless LAN ON/OFF/WPS" button twice to	
	enable (WLAN LED on) or disable (WLAN LED off)	
	wireless connection.	
Factory Reset	Restore 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.	
USB	Connecter for a USB device (for 3G USB Modem or	
	printer).	
VDSL/ADSL	Connecter for accessing the Internet.	
WAN2 (Giga)	Connecter for local network devices or modem for	
	accessing Internet.	
GigaLAN (1-6)	Connecters for local network devices.	
PWR	Connecter for a power adapter.	
ON/OFF	Power Switch.	

1.1.9 For Vigor2863Vn

Factory O	2 Line1 1 1 Line2 2 2 Phone USB	CYTCK UDSL/ADSL	Vigor2863Vn /DSI2 bonding Security Firewall GigaLAN ≥ 1 2 3 4 5 6 Phone Line1/2
LED ACT (Ac	ctivity)	Status Blinking	Explanation The router is powered on and running normally.
		Off	The router is powered off.
USB		On	USB device is connected and ready for use.
		Blinking	The data is transmitting.
WLAN		On	Wireless access point is ready.
		Blinking	It will blink slowly while wireless traffic goes through. ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2 minutes.)
WAN2		On	Internet connection is ready.
			Internet connection is not ready.
		Blinking	The data is transmitting.
DSL(1-2)	DSL(1-2)		The router is ready to access Internet through DSL link.
			Slowly: The DSL connection is ready. Quickly: The connection is training.
Line	Line		A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off.
		Off	There is no PSTN phone call.
Phone(1-	Phone(1-2)		The phone connected to this port is off-hook.
			The phone connected to this port is on-hook.
			A phone call comes.
LED on	Connec	Blinking tor	
	Left	On	The port is connected.
****	LED	Off	The port is disconnected.
		Blinking	The data is transmitting.

	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
	Left	On	The port is connected.
GigaLAN (1~6)	LED	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps





Interface	Description	
Interface	Description	
Wireless LAN	Press "Wireless LAN ON/OFF/WPS" button once to	
ON/OFF/WPS	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.	
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.	
USB	Connecter for a USB device (for 3G USB Modem or	
	printer).	
VDSL/ADSL	Connecter for accessing the Internet.	
WAN2 (Giga)	Connecter for local network devices or modem for	
	accessing Internet.	
GigaLAN (1-6)	Connecters for local network devices.	
Phone 1/2	Connecter for analog phone(s).	
Line	Connector for PSTN life line.	
PWR	Connecter for a power adapter.	
ON/OFF	Power Switch.	



1.1.10 For Vigor2925

	Dr	avTek :	Vigor2925
ACT V USB1 V Factory Reset USB2	AN1 QoS 1 AN2 WCF 2 IPN DMZ USB		Underwan Security Router Wanz Lant 1
LED		Status	Explanation
ACT (A	ctivity)	Blinking	The router is powered on and running normally.
		Off	The router is powered off.
USB(1-2	2)	On	USB device is connected and ready for use.
		Blinking	The data is transmitting.
WAN(1	-2)	On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
VPN		On	The VPN tunnel is active.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is enabled from Firewall >> General Setup).
DMZ		On	The DMZ function is enabled.
		Off	The DMZ function is disabled.
		Blinking	The data is transmitting.
LED on	Connect		<u> </u>
	Left	On	The port is connected.
WAN	LED	Off	The port is disconnected.
(1-2)		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
LAN (1-5)	Left	On	The port is connected.
	LED	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps



PWR O OFF

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.	
USB(1-2)	Connecter for a USB device (for 3G USB Modem or printer).	
WAN(1-2)	Connecter for local network devices or modem for accessing Internet.	
LAN(1-5)	Connecters for local network devices.	
PWR	Connecter for a power adapter.	
ON/OFF	Power Switch.	

1.1.11 For Vigor2925n

	AN1 QoS 1 AN2 WCF 2 /PN DMZ USB		
LED		Status	Explanation
ACT (A	ctivity)	Blinking	The router is powered on and running
× ×	57		normally.
		Off	The router is powered off.
USB		On	USB device is connected and ready for use.
		Blinking	The data is transmitting.
WLAN		On	Wireless access point is ready.
		Blinking	It will blink slowly while wireless traffic go
			through.
			ACT and WLAN LEDs blink quickly and
			simultaneously when WPS is working, and
			will return to normal condition after two
			minutes. (You need to setup WPS within 2
			minutes.)
WAN(1	-2)	On	Internet connection is ready.
		Off	Internet connection is not ready.
		Blinking	The data is transmitting.
VPN		On	The VPN tunnel is active.
QoS		On	The QoS function is active.
WCF		On	The Web Content Filter is active. (It is
			enabled from Firewall >> General Setup).
DMZ		On	The DMZ function is enabled.
		Off	The DMZ function is disabled.
		Blinking	The data is transmitting.
LED on	Connect	tor	
XX7 A X T	Left	On	The port is connected.
WAN (1-2)	LED	Off	The port is disconnected.
		Blinking	The data is transmitting.
	Right	On	The port is connected with 1000Mbps.
	LED	Off	The port is connected with 10/100Mbps
	Left	On	The port is connected.
	LED	Off	The port is disconnected.
		Blinking	The data is transmitting.



Right	On	The port is connected with 1000Mbps.		
LED	Off	The port is connected with 10/100Mbps		



Interface	Description	
Wireless LAN ON/OFF/WPS	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.	
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.	
USB(1-2)	Connecter for a USB device (for 3G USB Modem or printer).	
WAN(1-2)	Connecter for local network devices or modem for accessing Internet.	
LAN(1-5)	Connecters for local network devices.	
PWR	Connecter for a power adapter.	
ON/OFF	Power Switch.	

0

1.1.12 For Vigor2925Vn-plus

Wireless LAN ON/OFF/WPS ACT 1 /AN1 Line 1 USB 1 /AN2 Phones 2 Factory 2.4G 55 DMZ USB	ayTek	Vigor2925Vn-plus Dual-WAN Security Router WAN2 LAN + 1 2 3 4 5 Phone1/2 Line
LED	Status	Explanation
ACT (Activity)	Blinking	The router is powered on and running normally.
	Off	The router is powered off.
USB	On	USB device is connected and ready for use.
	Blinking	The data is transmitting.
2.4G	On	Wireless access point with transmission rate of 2.4G is ready.
	Blinking	It will blink slowly while wireless traffic goes through.
		ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two
		minutes. (You need to setup WPS within 2 minutes.)
WAN(1-2)	On	Internet connection is ready.
(12)	Off	Internet connection is not ready.
	Blinking	The data is transmitting.
DSL	On	The router is ready to access Internet through DSL link.
	Blinking	Slowly: The DSL connection is ready. Quickly: The connection is training.
5G	On	Wireless access point with transmission rate of 5G is ready.
	Blinking	It will blink slowly while wireless traffic goes through.
		ACT and WLAN LEDs blink quickly and simultaneously when WPS is working, and will return to normal condition after two minutes. (You need to setup WPS within 2
		minutes.)
Line	On	A PSTN phone call comes (in and out). However, when the phone call is disconnected, the LED will be off.
	Off	There is no PSTN phone call.

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				
	Left LED	On	The port is connected.	
WAN		Off	The port is disconnected.	
(1-2)		Blinking	The data is transmitting.	
	Right LED	On	The port is connected with 1000Mbps.	
		Off	The port is connected with 10/100Mbps	
T 4 N T	Left LED	On	The port is connected.	
LAN (1-5)		Off	The port is disconnected.	
		Blinking	The data is transmitting.	
	Right	On	The port is connected with 1000Mbps.	
	LED	Off	The port is connected with 10/100Mbps	





Interface	Description
Wireless LAN ON/OFF/WPS	 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.
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.
USB	Connecter for a USB device (for 3G USB Modem or printer).

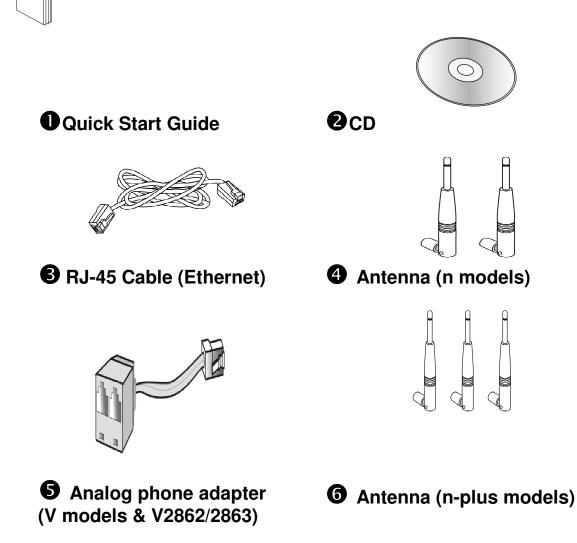


WAN(1-2)	Connecter for local network devices or modem for accessing Internet.
LAN (1-5)	Connecters for local network devices.
Phone 1/2	Connecter for analog phone(s).
Line	Connector for PSTN life line.
PWR	Connecter for a power adapter.
ON/OFF	Power Switch.

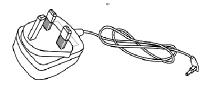
DrayTek

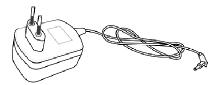
1.2 Package Content

Dray Tek



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

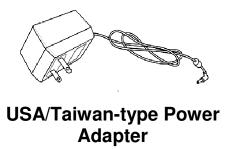


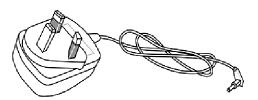


EU-type Power Adapter

UK-type Power Adapter







AU/NZ-type Power Adapter

* The maximum power consumption is 24 Watt.



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. (Take Vigor2860Vn as an example)

 $\square \square$ Use one end of the DSL line cable to VDSL/ADSL port on the router to the land line jack on the wall.

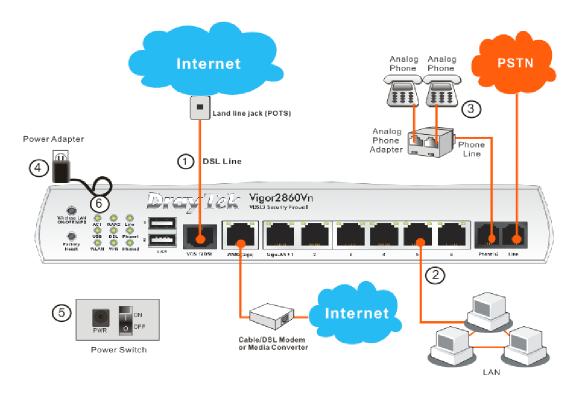
 \mathbb{B} \mathbb{C} Connect one end of an Ethernet cable (RJ-45) to one of the LAN ports of the router and the other end of the cable (RJ-45) into the Ethernet port on your computer.

 \blacksquare O Connect the telephone set with phone lines (for using VoIP function). For the model without phone ports, skip this step.

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.

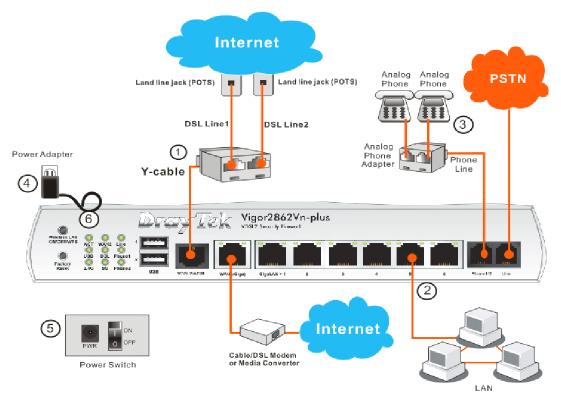
Power on the device by pressing down the power switch on the rear panel.

The system starts to initiate. After completing the system test, the ACT LED will light up and start blinking.

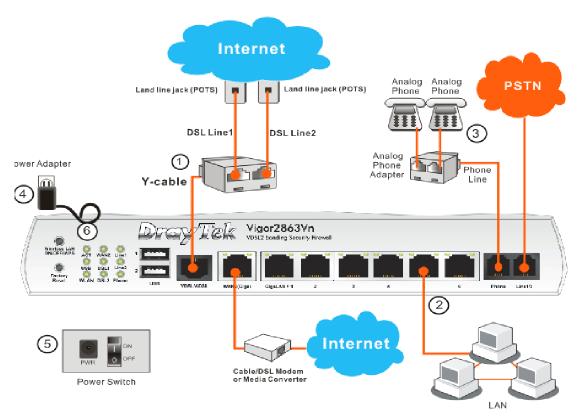




Possible connection for Vigor2862Vn-plus can be seen from the following illustration.

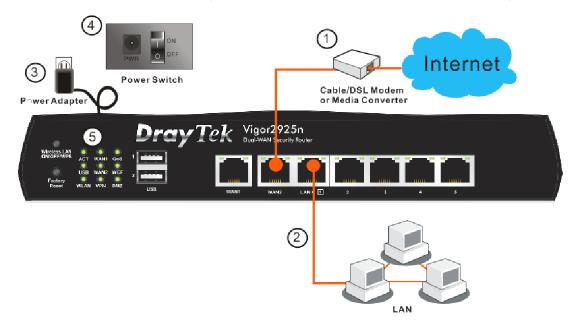


Possible connection for Vigor2863Vn-plus can be seen from the following illustration.

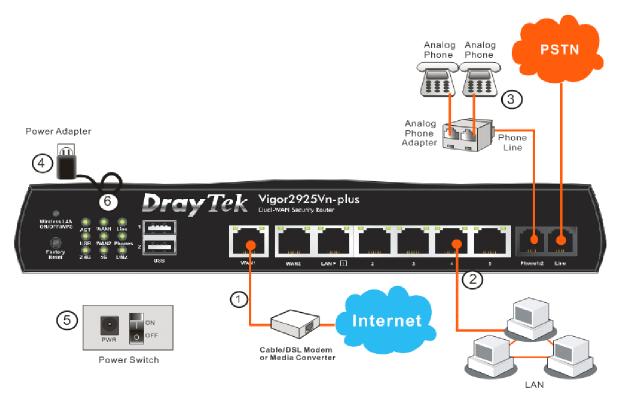




Possible connection for Vigor2925n can be seen from the following illustration.



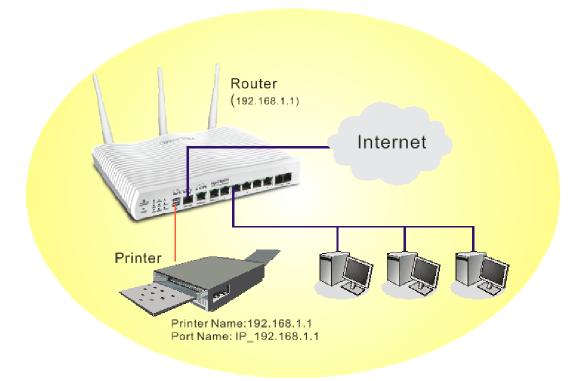
Possible connection for Vigor2925Vn-plus can be seen from the following illustration.





2.2 Printer Installation

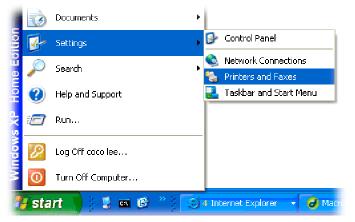
You can install a printer onto the router for sharing printing. All the PCs connected this router can print documents via the router. The example provided here is made based on Windows XP/2000. For Windows 98/SE/Vista, please visit www.draytek.com.



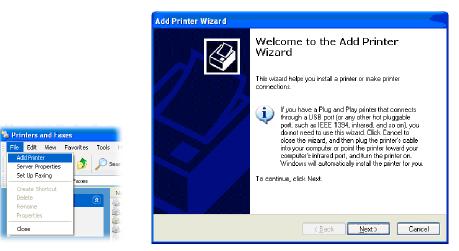
Before using it, please follow the steps below to configure settings for connected computers (or wireless clients).

 \square \blacksquare Connect the printer with the router through USB port.

Image: Book of the sector of the sector



■ Open File->Add a New Computer. A welcome dialog will appear.
Please click Next.



1. Click Local printer attached to this computer and click Next.

ld Prin	ter Wizard
	or Network Printer e wizard needs to know which type of printer to set up.
Sel	ect the option that describes the printer you want to use:
0	Local printer attached to this computer
-	Automatically detect and install my Plug and Play printer
0	A n <u>e</u> twork printer, or a printer attached to another computer
ġ	To set up a network printer that is not attached to a print server, use the "Local printer" option.
	< Back Next > Cancel

÷ In this dialog, choose Create a new port Type of port and use the drop down list to select Standard TCP/IP Port. Click Next.

=ile

Close



Add Printer Wizard		
Select a Printer Port Computers communicate w	ith printers through ports.	
Select the port you want yo new port.	our printer to use. If the port is not listed, you c	an create a
\bigcirc Use the following port:	LPT1: (Recommended Printer Port)	~
	use the LPT1: port to communicate with a loca port should look something like this:	l printer.
© <u>C</u> reate a new port: Type of port:	Standard TCP/IP Port	
	< <u>B</u> ack Next >	Cancel

In the following dialog, type **192.168.1.1** (router's LAN IP) in the field of **Printer Name or IP Address** and type **IP_192.168.1.1** as the port name. Then, click **Next**.

Add Standard TCP/IP Printer	Port Wizard 🛛 🔀
Add Port For which device do you want	t to add a port?
Enter the Printer Name or IP a	ddress, and a port name for the desired device.
Printer Name or IP <u>A</u> ddress:	192.168.1.1
Port Name:	IP_192.168.1.1
	< <u>Back</u> <u>N</u> ext> Cancel

Elick Standard and choose Generic Network Card.

Add Standard TCP/IP Printer Port Wizard 🛛 🛛 🔀
Additional Port Information Required The device could not be identified.
The detected device is of unknown type. Be sure that: 1. The device is properly configured. 2. The address on the previous page is correct. Either correct the address and perform another search on the network by returning to the previous wizard page or select the device type if you are sure the address is correct. Device Type
Standard Generic Network Card Custom Settings
< <u>B</u> ack <u>N</u> ext > Cancel

 $f \ll I$ Then, in the following dialog, click **Finish**.

Add Standard TCP/IP Prin	ter Port Wiza	ard 🔀
	TCP/IP	ting the Add Standard Printer Port Wizard cted a port with the following characteristics.
	Port Name:	No RAW, Port 9100 192.168.1.1 IP_192.168.1.1 Generic Network Card
	To complete th	is wizard, click Finish. < <u>B</u> ack Finish Cancel

 $\mathfrak{V} \mathfrak{A}$ Now, your system will ask you to choose right name of the printer that you installed onto the router. Such step can make correct driver loaded onto your PC. When you finish the selection, click **Next**.



Add Printer Wizard	
Install Printer Software The manufacturer and model	determine which printer software to use.
	nd model of your printer. If your printer came with an installation ur printer is not listed, consult your printer documentation for
Manufacturer	Printers 🔼
AST	Brother HL-1060 BR-Script2
Brother	Brother HL-1070 BR-Script2
Bui	Brother HL-1070
Canon 💉	Stormer HL-TOPS7DPS
This driver is digitally signed. <u>Tell me why driver signing is imp</u>	Windows Update Have Disk
	< <u>B</u> ack <u>N</u> ext> Cancel

For the final stage, you need to go back to Control Panel-> Printers and edit the property of the new printer you have added.

Brother HL-1070 Properties	? 🛛
General Sharing Ports Advanced	d Device Settings
Brother HL-1070	
Print to the following port(s). Documer checked port.	its will print to the first free
Port Description	Printer 🔼
□ 3.250 Standard TCP/IP Port □ IP_1 Standard TCP/IP Port	Epson Stylus COLOR 1160
□ IP_1 Standard TCP/IP Port	HP LaserJet 1300
IP_1 Standard TCP/IP Port	
IP_1 Standard TCP/IP Port	
✓ IP_1 Standard TCP/IP Port	Brother HL-1070
PDF Local Port	PDF995
Add Port Delete	e Port <u>C</u> onfigure Port
Enable bidirectional support	
	Cancel Apply

 $\square \square \square \square$ Select "LPR" on Protocol, type **p1** (number 1) as Queue Name. Then click **OK**. Next please refer to the red rectangle for choosing the correct protocol and LPR name.

Dray Tek

Configure Standard TCP	/IP Port Monitor 🛛 🛛 🛛 🥐 🔀
Port Settings	
Port Name:	IP_192.168.1.1
Printer Name or IP <u>A</u> ddress:	192.168.1.1
Protocol O <u>B</u> aw	<u>⊚</u> <u>L</u> PR
Raw Settings Port <u>N</u> umber:	9100
LPR Settings Queue Name:	p1abled
SNMP Status Enabled	
Community Name:	public
SNMP <u>D</u> evice Index:	1
	OK Cancel

The printer can be used for printing now. Most of the printers with different manufacturers are compatible with vigor router.

Note 1: Some printers with the fax/scanning or other additional functions are not supported. If you do not know whether your printer is supported or not, please visit www.draytek.com to find out the printer list. Open **Support >FAQ**; find out the link of **Printer Server** and click it.



Then, click the **What types of printers are compatible with Vigor router**? link.

FAQ / Application	You are here: Home + Supports + FAQ / Application Notes + Printer Server	
Latest FAQ/Application		<u>a</u>
Basic	Printer Server	
Firmware Upgrade		
WAN	What types of printers are compatible with Vigor router?	2012/01/12
IPv6	How do I configure LPR printing on Windows7?	2012/08/20
Triple-Play	How do I configure LPR printing on My Windows Vista ?	2009/01/20
Dual WAN	Vau de Leonfigure LDD printing en Linux haves 0	

Note 2: Vigor router supports printing request from computers via LAN ports but not WAN port.

This page is left blank.



3. Initial Settings

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

3.1 Accessing Web Page

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

2.

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.

3. Open a web browser on your PC and type **http://192.168.1.1.** The following window will be open to ask for username and password. Please type "**admin/admin**" on Username/Password and click **Login**.

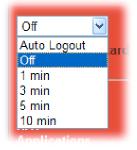
Dray Tek	Vigor2860 Series
Login	
Username	admin
Password	•••••
	Login
Copyright©, DrayTek Corp. All R	ights Reserved.
	?

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

4. Now, the **Main Screen** will pop up.

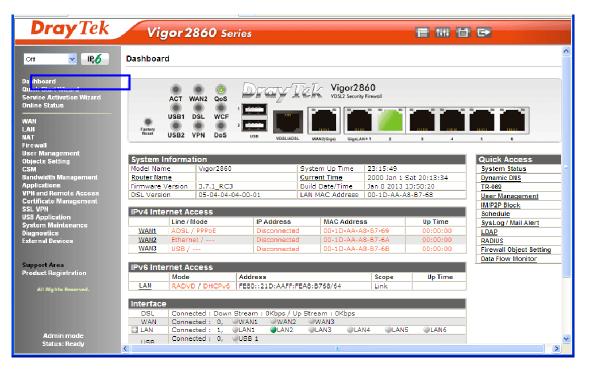
5. The web page can be logged out according to the chosen condition. The default setting is **Auto Logout**, which means the web configuration system will logout after five minutes without any operation. Change the setting for your

necessity.



3.2 Basic Configuration – Quick Start Wizard

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 User Interface.



The home page will change slightly in accordance with the router model you have.

If your router can be under an environment with high speed NAT, the configuration provide here can help you to deploy and use the router quickly. The first screen of **Quick Start Wizard** is entering login password. After typing the password, please click **Next**.

iick Start Wizard		
nter login password		
Please enter an alpha-numeric stri	ng as your Password (Max	23 characters).
Old Password	••••]
New Password	•••••]
Confirm Password	•••••]
	< Back	Next > Finish Cance

On the next page as shown below, please select the WAN interface that you use. If DSL interface is used, please choose WAN1; if Ethernet interface is used, please choose WAN2; if 3G USB modem is used, please choose WAN3. Then click **Next** for next step.

WAN Interface:	WAN1
Display Name:	
Physical Mode:	ADSL / VDSL
Physical Type:	Auto negotiation 😽

WAN1, WAN2 and WAN3 will bring up different configuration page. Refer to the following for detailed information.



3.2.1 For WAN1 (ADSL/VDSL)

WAN1 is specified for ADSL or VDSL connection.

Quick Start Wizard

1414 81 7-8	
WAN Interface:	WAN1 💌
Display Name:	
Physical Mode:	ADSL / VDSL
Physical Type:	Auto negotiation 🔽

Click **Next** to go to the following page. You have to 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. In addition, the field of **For ADSL Only** will be available only when ADSL is detected. Then click **Next** for next step.

WAN 1	
Protocol	MPoA / Static or Dynamic IP 👱
For ADSL Only:	
Encapsulation	1483 Bridged IP LLC
VPI	0 Auto detect
VCI	88
Fixed IP	💿 Yes 🛛 No(Dynamic IP)
IP Address	192.16.20.86
Subnet Mask	255.255.255.0
Default Gateway	192.16.20.1
Primary DNS	8.8.4.4
Second DNS	168.95.192.1



PPPoE/PPPoA

1. Choose **WAN1** as WAN Interface and click the **Next** button; you will get the following page.

Quick Start Wizard

WAN 1	
Protocol	PPPoE / PPPoA
For ADSL Only:	
Encapsulation	PPPoe LLC/SNAP 💌
VPI	0 Auto detect
VCI	88
Fixed IP	💿 Yes 🛛 No(Dynamic IP)
IP Address	192.16.20.86
Subnet Mask	255.255.255.0
Default Gateway	192.16.20.1
Primary DNS	8.8.4.4
Second DNS	168.95.192.1

2. After finished the above settings, simply click **Next**.

Set PPPoE / PPPoA		
WAN 1		
User Name	77494727@hinet.net	
Password		
Confirm Password	•••••	
	<pre>< Back Next > Finish Ca</pre>	ancel

3. Please manually enter the Username/Password provided by your ISP. Then click **Next** for viewing summary of such connection.

Quick Start Wizard

WAN Interface:	WAN1
Physical Mode:	ADSL / VDSL
VPI:	0
VCI:	88
Protocol / Encapsulation:	PPPoE / LLC
Fixed IP:	Yes
IP Address:	192.16.20.86
Subnet Mask:	255.255.255.0
Default Gateway:	192.16.20.1
Primary DNS:	8.8.4.4
Secondary DNS:	168.95.192.1

4. Click Finish. A page of Quick Start Wizard Setup OK!!! will appear.

Then, the system status of this protocol will be shown.

5. Now, you can enjoy surfing on the Internet.

MPoA / Static or Dynamic IP

1. Choose **WAN1** as WAN Interface and click the **Next** button; you will get the following page.

WAN 1	
Protocol	MPoA / Static or Dynamic IP 💌
5 400L0 L	
For ADSL Only:	
Encapsulation	1483 Bridged IP LLC 🛛 🔽
VPI	0 Auto detect
VCI	88
Fixed IP	
Fixeu IP	⊙Yes ○No(Dynamic IP)
IP Address	192.16.20.86
Subnet Mask	255.255.255.0
Default Gateway	192.16.20.1
Primary DNS	8.8.4.4
Second DNS	168.95.192.1

2. Please type in the IP address/mask/gateway information originally provided by your ISP. Then click **Next** for viewing summary of such connection.

WAN Interface:	WAN1
Physical Mode:	ADSL / VDSL
VPI:	0
VCI:	88
Protocol / Encapsulation:	1483 Bridge LLC
Fixed IP:	Yes
IP Address:	192.16.20.86
Subnet Mask:	255.255.255.0
Default Gateway:	192.16.20.1
Primary DNS:	8.8.4.4
Secondary DNS:	168.95.192.1

- 3. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 4. Now, you can enjoy surfing on the Internet.

3.2.2 For WAN2 (Ethernet)

WAN2 is dedicated to physical mode in Ethernet. If you choose WAN2, please specify physical type. Then, click **Next**.

Quick Start Wizard

N Interface	
WAN Interface:	WAN2 V
Display Name:	
Physical Mode:	Ethernet
Physical Type:	Auto negotiation 💌
	<pre></pre>

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.

PPPoE

Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Connect to Inter	rnet					
WAN 2						
Select (one of the foll	owing Internet Ad	ccess types pr	ovided by your IS	Ρ.	
		⊙ PPPoE				
		🔘 РРТР				
		🔘 L2TP				
		🔘 Static :	IP			
		O DHCP				
			< Bac	k Next >	Finish	Cancel



Quick Start Wizard

WAN 2		
Enter the user name and pa	assword provided by your ISP.	
User Name	77494727@hinet.net	
Password	•••••	
Confirm Password		

■
 Please manually enter the Username/Password provided by your ISP.
 Click Next for viewing summary of such connection.

Quick Start Wizard

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	PPPoE
 settings and restart the V 	

Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

Now, you can enjoy surfing on the Internet.

PPTP/L2TP

Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard

Connect to Internet		
WAN 2		
Select one of the following Interr	net Access types provided by your ISP.	
O PE	PPoE	
O PF	РТР	
0 12	2TP	
	tatic IP	
		_
	A Sack Next > Finish Cance	d]

Click **PPTP/L2TP** as the Internet Access Type. Then click **Next** to continue.

Quick Start Wizard

WAN 2 Enter the user name, pass your ISP.	vord, WAN IP configuration and PPTP server IP provided by
User Name	77494727@hinet.net
Password	
Confirm Password	
WAN IP Configuration	
🔘 Obtain an IP address	automatically
Specify an IP address	
IP Address	192.16.20.86
Subnet Mask	255.255.255.0
Gateway	192.16.20.1
Primary DNS	8.8.8.8
Second DNS	8.8.4.4
PPTP Server	

Please type in the IP address/mask/gateway information originally provided by your ISP. Then click **Next** for viewing summary of such connection.

Quick Start Wizard

se confirm your settings:	
WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	РРТР
	< Back Next > Finish Canc

Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

I Dow, you can enjoy surfing on the Internet.

Static IP

Choose **WAN2** as the WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard

Conne	ect to Internet
	WAN 2
	Select one of the following Internet Access types provided by your ISP.
	O PPPoE
	О РРТР
	O L2TP
	💿 Static IP
	О рнср
	Second

 \square \square Click **Static IP** as the Internet Access type. Simply click **Next** to continue.

Quick Start Wizard

WAN 2 Enter the Static ID config	uration provided by your ISP.		
WAN IP	192.16.20.86		
Subnet Mask	255.255.255.0		
Gateway	192.16.20.1		
Primary DNS	8.8.8.8		
Secondary DNS	8.8.4.4	(optional)	

\blacksquare \blacksquare Please type in the IP address information originally provided by your ISP. Then click **Next** for next step.

Quick Start Wizard

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	Static IP
settings and restart the V	nges if necessary. Otherwise, click Finish to save the current

Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

I Dow, you can enjoy surfing on the Internet.

DHCP

Choose **WAN2** as WAN Interface and click the **Next** button. The following page will be open for you to specify Internet Access Type.

Quick Start Wizard

Conne	ect to Internet
	WAN 2
	Select one of the following Internet Access types provided by your ISP.
	O PPPoE
	О РРТР
	O L2TP
	O Static IP
	● DHCP
	<pre>Cancel</pre> Cancel

Click **DHCP** as the Internet Access type. Simply click **Next** to continue.

WAN 2	
If your ISP req enter it in.	uires you to enter a specific host name or specific MAC address, please
enter it m.	
Host Name	(optional)
MAC	00 -10 -AA -A6 -26 -1A (optional)



 \blacksquare After finished the settings above, click **Next** for viewing summary of such connection.

Quick Start Wizard

WAN Interface:	WAN2
Physical Mode:	Ethernet
Physical Type:	Auto negotiation
Internet Access:	DHCP
Click Back to modify chan settings and restart the Vi	ges if necessary. Otherwise, click Finish to save the current igor router.

Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.

B Now, you can enjoy surfing on the Internet.

3.2.3 For WAN3 (USB)

1. Choose **WAN3** as WAN Interface.

Quick Start Wizard

WAN Interface:	WAN3 🗸
Display Name:	
Physical Mode:	USB
Physical Type:	Auto negotiation 🛛 🗠

2. Then, click **Next** for viewing summary of such connection.

WAN Interface:	WAN3
Physical Mode:	USB
Internet Access:	PPP
Click Back to modify chan settings and restart the Vi	ges if necessary. Otherwise, click Finish to save the curren [.] gor router.

- 3. Click **Finish.** A page of **Quick Start Wizard Setup OK!!!** will appear. Then, the system status of this protocol will be shown.
- 4. Now, you can enjoy surfing on the Internet.

3.3 Wireless Configuration

Í

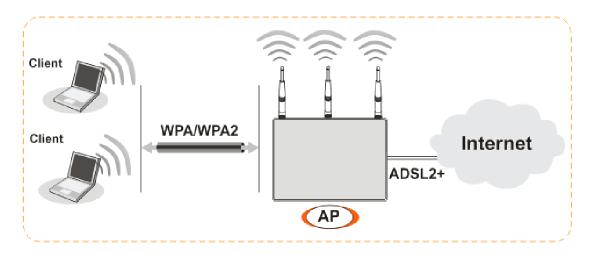
For the user of Vigor2860, please skip this section.

For operating Vigor2860n/Vigor2860Vn 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.)

3.3.1 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.



3.3.2 General Setup

Con the Wireless LAN group, select General Setup. The following page will be shown.

Mode :		Mixed(11b+	11g+11n) 🍟	
(ndex(1-15)			,,	
only schedu other action		that have the action "Force Dow red.	n" are applied to the V	WLAN, all
Enable H	ide SSID	SSID	Isolate Member	Isolate VPN
1		V2860		
2				
3				
4				
Channel: Ch	iannel 13, 2	eless with remote dial-in and LAN 472MHz V Long Pream sary for some old 802.11 b device	ble:	nce)
Channel: Ch Long Preamb Packet-OVER	annel 13, 2 ile: neces RDRIVE TM	472MHz 💌 Long Pream	ble:	nce)
Channel: Ch Long Preamb Packet-OVER Tx Burst Note:	annel 13, 2 ile: necess RDRIVE TM	472MHz 💌 Long Pream	ble: 🗌 es only(lower performa	
Channel: Ch Long Preamb Packet-OVER Tx Burst Note:	annel 13, 2 Ile: necess RDRIVE TM chnology	472MHz 💌 Long Pream sary for some old 802.11 b device	ble: 🗌 es only(lower performa	
Channel: Cr Long Preamb Packet-OVE Tx Burst Note: The same te	annel 13, 2 Ile: necess RDRIVE TM chnology	472MHz V Long Pream sary for some old 802.11 b device must also be supported in clients	ble: ble:	
Channel: Cr Long Preamb Packet-OVE Tx Burst Note: The same te	annel 13, 2 Ile: necess RDRIVE TM chnology	472MHz V Long Pream sary for some old 802.11 b device must also be supported in clients e Upload 30000 kbps	ble: ble:	
Channel: Ch Long Preamb Packet-OVE Tx Burst Note: The same te Rate Control	annel 13, 2 ile: necess RDRIVE TM chnology Enabl	472MHz V Long Pream sary for some old 802.11 b device must also be supported in clients	ble: ble:	mance.
Channel: Ch ong Preamb Packet-OVER Tx Burst Note: The same te Rate Control SSID 1	annel 13, 2 ile: necess RDRIVE TM chnology Enabl	472MHz V Long Pream sary for some old 802.11 b device must also be supported in clients	ble: ble:	mance. kbps
Channel: Cr Long Preamb Packet-OVER Tx Burst Note: The same te Rate Control SSID 1 SSID 2	annel 13, 2 de: necess RDRIVE [™] chnology Enabl	472MHz Cong Pream sary for some old 802.11 b device must also be supported in clients be Upload 30000 kbps 30000 kbps 30000 kbps 30000 kbps 30000 kbps	ble: ble:	mance. kbps kbps

Check Enable Wireless LAN to enable the wireless function.

 \blacksquare At present, the router can connect to 11n Only, 11g Only, Mixed (11b+11g), Mixed (11a+11n), Mixed (11g+11n), and Mixed (11b+11g+11n) stations simultaneously. Simply choose **Mixed (11b+11g+11n)** mode.

Type in the name of the **SSID**. The default name for SSID is **DrayTek**. We suggest you to change it with a particular name.

Click **OK** to save the configuration.



3.3.3 Security Settings

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

Wireless LAN >> Security Settings

SID 1	SSID 2	S SID 3	SSID 4	
	Mode:		Disable	*
	Set up <u>RADIUS S</u>	<u>erver</u> if 802.1>	is enabled.	
WPA:				
Encry	ption Mode:	-	TKIP for WPA/AES	for WPA2
	Pre-Shared Key(PSK):	*******	
	Type 8~63 ASCI "cfgs01a2" or '			ligits leading by "0x", for example
WEP:				
	Encryption Mode	: [64-Bit 👻	
	◎ Key 1 :	[*******	
	○Key 2 :	[******	
	○Кеу 3:	[******	
	○Key 4:	[**********	
Туре	4 bit WEP key 5 ASCII characte 42333132".	r or 10 Hexade	cimal digits leadir	ng by "0x", for example "AB312" or
Туре	28 bit WEP key 13 ASCII charact 3456789abc" or "0:			ing by "0x", for example

2. The default security mode is **Mixed (WPA+WPA2)/PSK.** For the wireless client who wants to access into Internet through such router, please **input the default PSK** value for connection.

Cancel

OK

Default Pre-Shared Key (PSK) with 13 ASCII characters is provided and stated on the label pasted on the bottom of the router.

1	MODULE: 8 WLAN FCC ID:RRK-WMPND02A1	
	WPA+WPA2 Password: 5S 7W43YM	



3. 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.

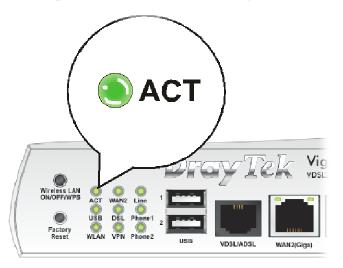
If all above stages are done and the router still cannot run normally, it is the time for you to contact your dealer for advanced help.

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 stilled failed, please do the steps listed below to make sure the network connection settings is OK.

For Windows

圁

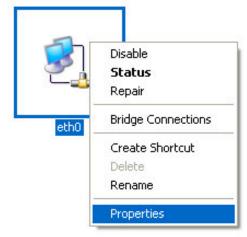
The example is based on Windows XP. As to the examples for other operation systems, please refer to the similar steps or find support notes in **www.draytek.com**.

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



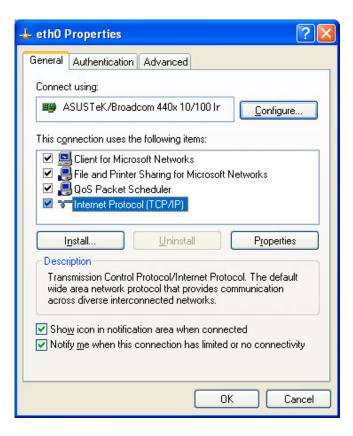
Network Connections

1. Right-click on Local Area Connection and click on Properties.



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





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

Internet Protocol (CP/IP) Pr	roperties				?	$ \times $
General Alternate Co	nfiguration						
You can get IP settin this capability. Otherv the appropriate IP set	ise, you nee						
⊙ <u>O</u> btain an IP ad	dress automa	atically					
⊖OU <u>s</u> e the followin	g IP address	:					
IP address:				10	-]	
S <u>u</u> bnet mask:			4]	
Default gateway:			2	¥3	-]	
⊙ O <u>b</u> tain DNS ser	ver address a	automaticall	y				
O Us <u>e</u> the followin	g DNS serve	er addresses	s:				
Preferred DNS ser	/er:			-]	
Alternate DNS serv	'er:			+	- 22]	
				(Ad <u>v</u> a	nced	וכ
				OK		Cance	



For Mac OS

1. Double click on the current used Mac OS 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.

	Network	C
w All Displays Sou	Network Startup Disk	
L	ocation: Automatic	
ТСР		
Configure IPv4:	Using DHCP	
IP Address:	192.168.1.10 Renew DHO	CP Lease
Subnet Mask: Router:	(If required)	
DNS Servers:		(Optional)
Search Domains:		(Optional)
IPv6 Address:	fe80:0000:0000:0000:020a:95ff:fe8d:72e4	
	Configure IPv6	?



4.3 Pinging the Router from Your Computer

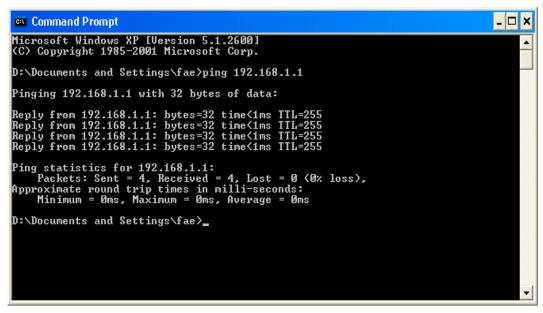
The default gateway IP address of the router is 192.168.1.1. For some reason, you might need to use "ping" command to check the link status of the router. **The most important thing is that the computer will receive a reply from 192.168.1.1.** If not, please check the IP address of your computer. We 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/Vista/7). The DOS command dialog will appear.



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 Mac OS (Terminal)

1. Double click on the current used Mac OS 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.

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/WAN3 to review the settings that you configured previously.

Internet	Access				
Index	Display Name	Physical Mode	Access Mode		
WAN1		ADSL / VDSL	Static or Dynamic IP	~	Details Page IPv6
WAN2		Ethernet	Static or Dynamic IP	~	Details Page IPv6
WAN3		USB	None	*	Details Page IPv6

Note : Only one WAN can support IPv6.

WAN >> Internet Access

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 loose all settings you did before. Make sure you have recorded all useful settings before you pressing. The password of factory default is null.



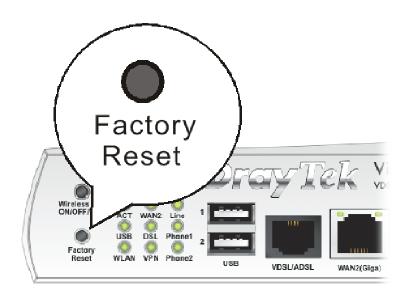
Software Reset

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 **Reboot Now**. 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
Reboot Time Schedule
Auto Reboot Time Schedule
Index(1-15) in <u>Schedule</u> Setup:,,,,
Note: Action and Idle Timeout settings will be ignored.
OK Cancel

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.

