

USER MANUAL

Router: D-Link DSL-2750E



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Router: D-Link DSL-2750E

Quick Start

Thank you for purchasing Router: D-Link DSL-2750E

With the D-Link DSL-2750E, you can access the Internet at a high speed while making a phone call.



If there is a need to configure the device in your application, please ask for necessary information and guidance from your ISP

Overview

The following summarizes useful information to install D-Link DSL-2750E.

- Packing List
- D-Link DSL-2750E Overview
- Preparation
- Connecting D-Link DSL-2750E
- Quick Troubleshooting
- Safety Concerns
- FAQs (Frequently Ask Questions)
- Technical Specifications

Packing List

Open the packet delivered to you with care. Make sure that you have the following items.

- One D-Link DSL-2750E
- One Splitter
- Two Micro Filter
- One Power Adapter
- Two Telephone Cable
- One ETHERNET Cale
- Quick Guide

D-Link DSL-2750E

D-Link DSL-2750E gives full consideration to the household arrangements, enabling horizontal or hanging on the wall. Picture below shows how it stands on your table.



Figure 1-1 D-Link DSL-2750E Router Profile






Figure 1-2 D-Link DSL-2750E Router Front panel






Figure 1-3 D-Link DSL-2750E Router Real panel

The LED Indicators as below;

Table 1-1 LED Indicators

Indicator	Color	Status	Description
POWER 	Green	Off	The power is off.
		On	The power is on and the initialization is normal.
	Red	On	The device is initialing.
		Blinks	The firmware is upgrading.
ETHERNET 1-4	Green	Off	No LAN link.
		Blinks	Data is being transmitted through the LAN interface
		On	The connection of LAN interface is normal.
WLAN 	Green	On	The Connection of WLAN interface is normal.
		Blinks	Data is transmitted through the WLAN interface.
		Off	The WLAN connection is not established.
WPS 	Blue	Blinks	WPS negotiation and enabled on the device.
		Off	WPS negotiation is not enabled on the device.

Indicator	Color	Status	Description
USB 	Green	On	The connection of USB flash disk has been established.
		Blinking	Data is being transmitted.
		Off	The connection of USB flash disk is not established.
DSL 	Green	On	On Initial self-test of the unit has passed and is ready
		Blinks	The device is detecting itself.
		Off	Initial self-test is failed.
Internet 	Green	Off	The device is under the Bridge mode, DSL connection is not present.
		Blinks	Internet data is being transmitted in the routing mode.
		On	The IP is connected.
	Red	On	The device is attempted to become IP connected, but failed.

Start With D-LINK DSL-2750E

Splitter

Using Splitter can reduce disturbance signals in the telephone line. D-Link DSL-2750E needs to use a separate splitter. The External has three ports.

- LINE: Connecting to the phone jack.
- PHONE: Connecting to the telephone sets.
- DSL: Connecting to the D-Link DSL-2750E.

Remark: Figure 1-4 Computer to D-Link DSL-2750E Page 9

ETHERNET Card

Computer is connected to D-Link DSL-2750E through the ETHERNET port on D-Link DSL-2750E. Ensure your computer is configured with ETHERNET Adapter as well as ETHERNET port. Besides, make sure you enabled the TCP/IP for your operating system.

Connecting D-Link DSL-2750E

- (1) Place D-Link DSL-2750E in a safe and accessible location. Keep the device away from heat source, power line or highly powered electronic equipment where you can easily view the LED indicator on the front panel of the device.



If you want to connect one or more telephones, Micro Filter is needed; It will work between telephones and the line from phone jack. For more details about connecting multiple telephones, please refer to the FAQs

You are now ready to connect D-Link DSL-2750E. Follow these steps;

1. Connect the ADSL Line – Plug one end of the telephone cable into the Line port of splitter and insert the other end into the phone jack. Use another phone cable to connect the DSL port of the splitter and the DSL port on the rear panel of Router. Use Telephone set connect to PHONE port of the splitter
2. Connect the power adapter – Connect the power adapter to D-Link DSL-2750E and the mail supply. Power on the switch. The Power LED indicator will turn on.
3. Connect D-Link DSL-2750E to your computer – Use the ETHERNET cable to connect D-Link DSL-2750E and your computer

When the ETHERNET LED of D-Link DSL-2750E is ON, it indicates the connection between D-Link DSL-2750E and your PC.

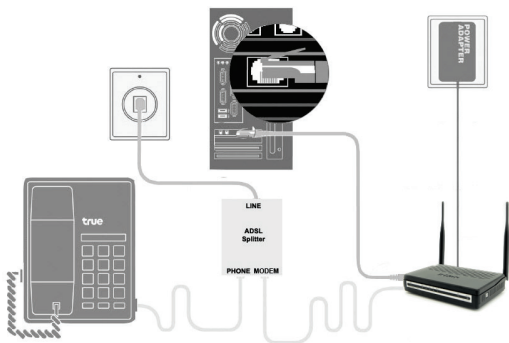


Figure 1-4 Computer to D-Link DSL-2750E



Ensure that the LAN cable connecting the LAN to D-Link DSL-2750E must not exceed 100 meters or less

*** Depend on quality of telephone cable and noise

If you want to connect PC via Wireless LAN. You can use default SSID and WiFi key can get from Label Sticker on your D-Link DSL-2750E as follow. Exam: SSID : true_homewifi_6JU and key is "0081Z225". Both of SSID and WiFi key is a unique value associated with D-Link DSL-2750E

SSID (Name of WiFi) : true_homewifi_6JU

Key (Password for use WiFi): 0081Z225

Router Username/Password

(User/Password for device's login)

: admin/password

You can configure to Internet Connection by 2 ways are Web Browser and hi-speed assistant program. Please do as follows.

Config by Web Configuration (Wizard)

1. Open your web browser or Internet Explorer. Type “192.168.1.1” click ‘Enter’. See at **Figure 1-5**



Figure 1-5 Browser

2. Web page will pop up Password insert. See at **Figure 1-6**
User : “admin” Password : “password” Click “Login”



Figure 1-6 Username / Password Login

Web page will show the status of device. See at **Figure 1-7**

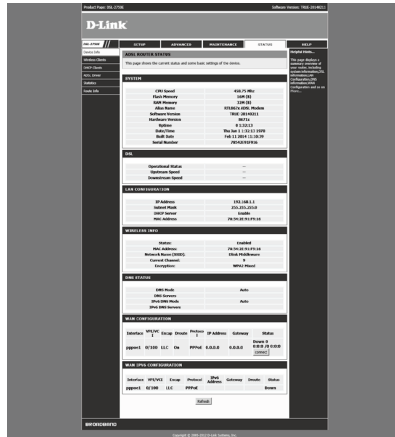


Figure 1-7 Device Status

3. Click "Status" > "ADSL Driver" for check on internet description, If internet synchronization that can done, Device will show sync description like on **Figure 1-8**

ADSL	
Adsl Line Status	SHOWTIME.LO
Adsl Mode	G992.5 AnnexM
Channel Mode	Interleave
Up Stream	2408 kbps
Down Stream	21252 kbps
Attainable Up Stream	2616 kbps
Attainable Down Stream	22536 kbps
Attenuation Down Stream	24
Attenuation Up Stream	11
SNR Margin Down Stream	8.4
SNR Margin Up Stream	8.6
Vendor ID	RETK
DSL firmware version	4925ca26
CRC Errors	0
Up Stream BER	0e-7
Down Stream BER	0e-7
Up Output Power	14.5
Down Output Power	19
ES	0
SES	0
UAS	0

Figure 1-8 WAN Description

4. Start device configuration by wizard, Click “Setup” > “Wizard” as figure 1-9

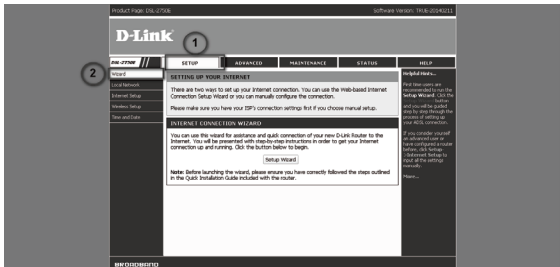


Figure 1-9 Wizard Configuration

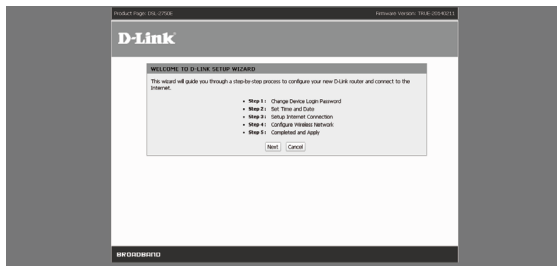


Figure 1-10 Wizard Configuration (Cont.)



Figure 1-11 User / Password Login Configuration

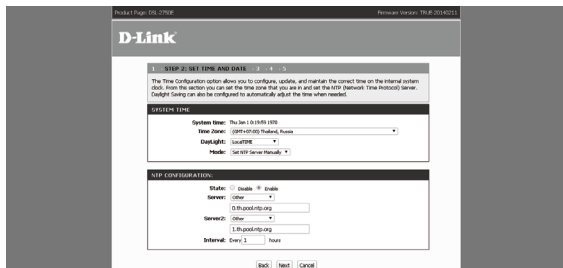


Figure 1-12 Date –Time Configuration

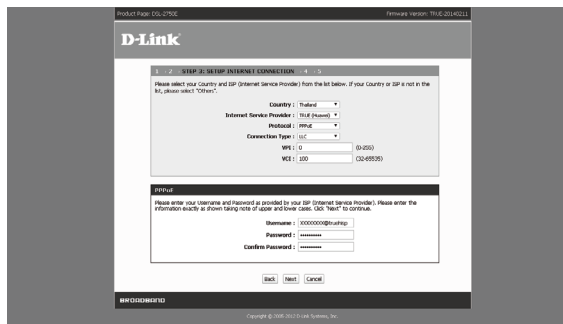


Figure 1-13 Internet Configuration

5. Under Page “Internet Configuration”, use the default factory setting and click ‘Next’.

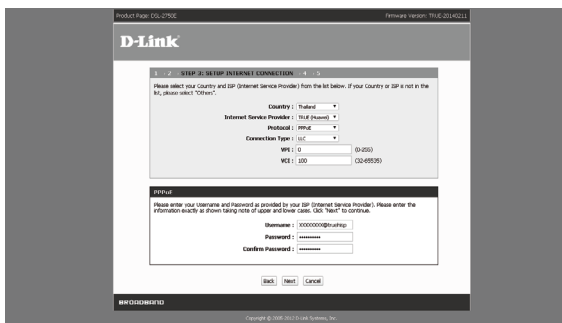


Figure 1-14 Internet Configuration

6. The default SSID and WiFi Key are on the top of router.

You can change the default wireless SSID and wireless security to your preferred value.

SSID (ชื่อสัญญาณ WiFi) : true_homewifi_6JU
Key (รหัสผ่านสำหรับการใช้งาน WiFi): 0081Z225
Router Username/Password
(รหัสผ่านสำหรับเข้าตั้งค่าอุปกรณ์)
: admin/password

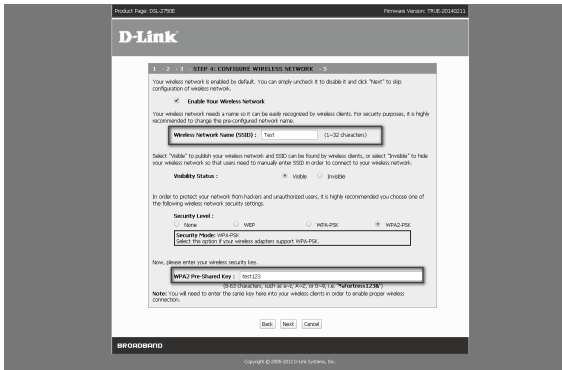


Figure 1-15 Wireless Configuration

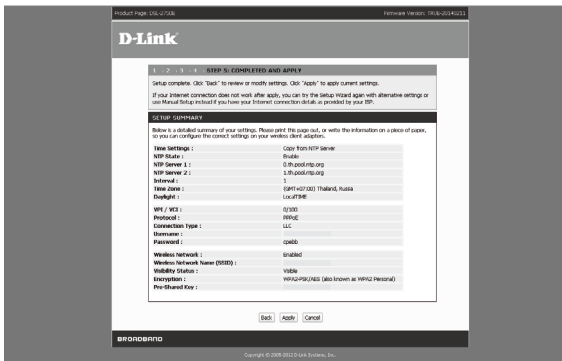


Figure 1-16 Summarize of Configuration

Remark :

- You may get more information on how to connect TRUE Hi-Speed

Internet from this link: <http://support.trueinternet.co.th/cpe>

In case of installation or connection problem, contact us at 1686 or e-mail

support@truecorp.co.th

Configuring Wireless Security Using WPS

There are two WPS methods for creating a secure connection.

- Push Button Configuration (PBC) : create a secure wireless network simply by pressing a button
- PIN Configuration : create a secure wireless network simply by entering a wireless client's PIN(Personal Identification Number)

Push button Configuration(PBC)

1. Make sure that your DSL-2750E is turned on and that it is within range of your computer and Wireless LAN Security Mode is No Security or WPA-PSK or WPA2-PSK.
2. Make sure that you have installed the wireless clients driver and utility in your notebook.
3. In the wireless client utility, find the WPS setting. Enable WPS and press the WPS button.
4. Go to WPS Station Page and press the Push Button or Press WPS/WLAN button 5-10 sec.
5. Press WPS button on your Wireless client within 2 minutes.

PIN Configuration

When you use the PIN configuration method, you need to use both DSL-2750E configuration interface and the client's utilities.

1. Login in to DSL-2750E then go to Menu Advance > Advance Wireless > WPS to get PIN a Number.

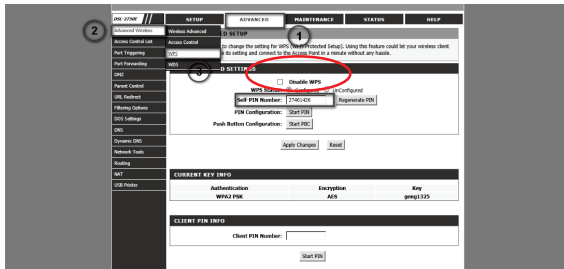


Figure 1-17 หน้าต่างปรับแต่ง WPS

2. Launch your wireless client's configuration utility. Go to the WPS setting and Enter the PIN number.

Troubleshooting

1. The Power indicator is off, what can I do?

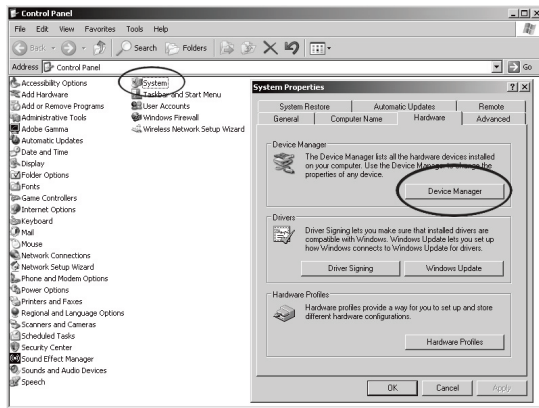
You'd better check as follows.

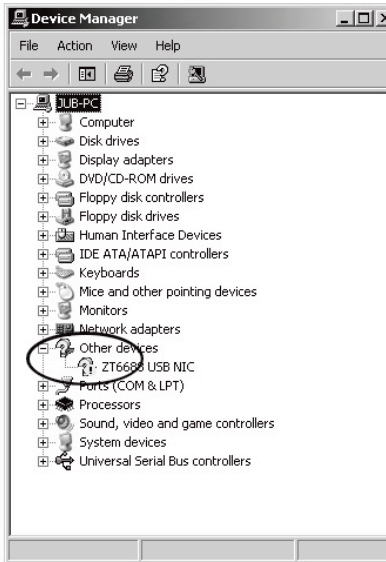
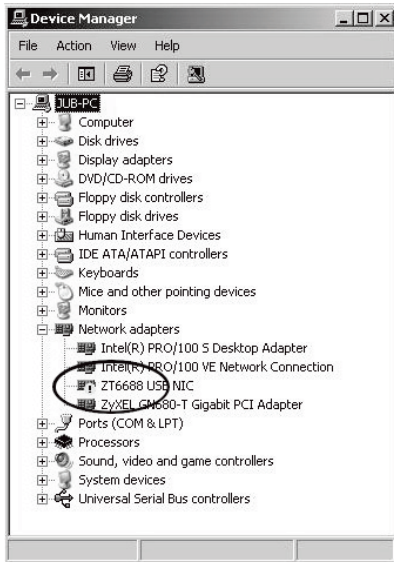
- (1) Whether the power adapter is suitable for the D-Link DSL-2750E.
- (2) Whether the D-Link DSL-2750E is connected to the power supply correctly.
- (3) Whether the ON/OFF button is clicked down.

2. The ETHERNET link indicator is off, what can I do?

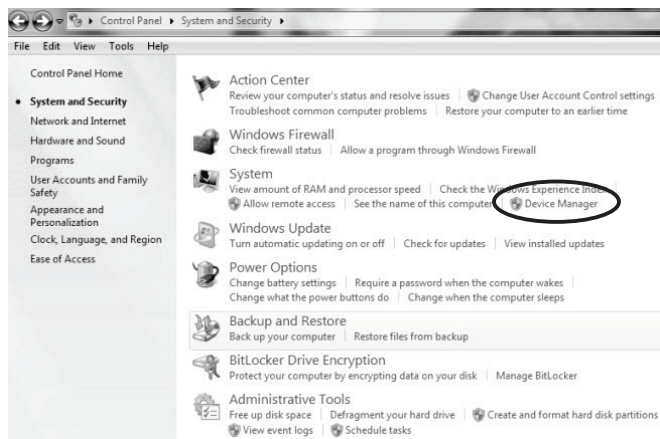
For Windows XP, You'd better check as follows.

- (1) Whether the provided ETHERNET cable between the D-Link DSL-2750E and the computer is in the correct type.
- (2) Whether the ETHERNET card works normally. For Windows XP, Select Start > Setting > Control Panel > System > Hardware > Device Manager. For Windows 7, Select Start > Control Panel > System & Security > Device manager Check whether there are devices that have the "?" Or "!" Mark under Network adapters. If such devices exist, uninstall and then re-install them. See at **Figure 1-18**





Windows XP





Windows 7

Figure 1-18 ETHERNET Card Status of Windows XP and Windows 7

- If the problem remains, change the slot for the network card.
 - *** It should be performed by specialist.
- Change another ETHERNET cable

3. The WLAN indicator is off, what can I do?

You'd better check as follows.

- (1) Check whether there is D-Link DSL-2750E activates Wireless LAN. You can check at Menu Setup > Wireless Setup > Wireless Basics on GUI of D-Link DSL-2750E. See at **Figure 1-19**

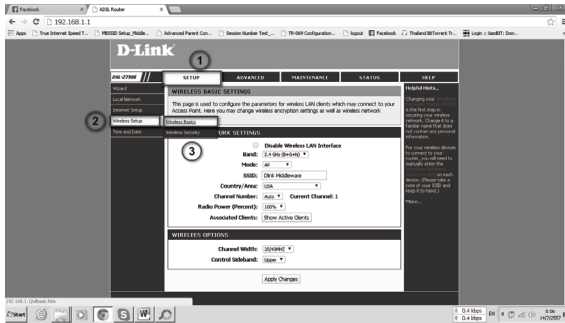


Figure 1-19 Enable Wireless LAN

4. The DSL link indicator is off. What can I do?

You'd better check as follows.

- (1) Whether that the telephone line is correctly connected with the splitter.
(Figure 1-4, page 9)
- (2) Whether the telephone line works normally by using a telephone to make a test.
- (3) Whether the telephone line is reliable

5. The Internet link indicator is off, what can I do?

You'd better check as follows.

- (1) Whether that the telephone line is correctly connected with the splitter.
- (2) Whether the DSL link indicator is On.

Warning Page

Warning page will show when router find some problem that may affect the usage. This will help user to understand the problem and how to fix it.

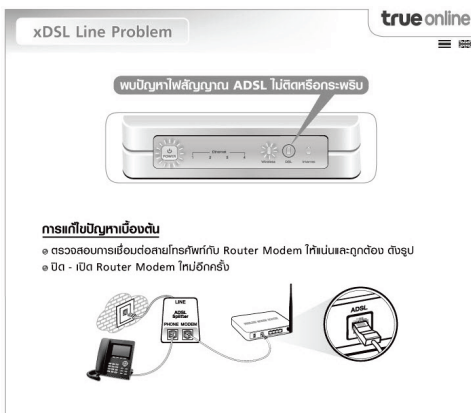


Figure 1-20 Warning page show when ADSL light turn off or blinking.

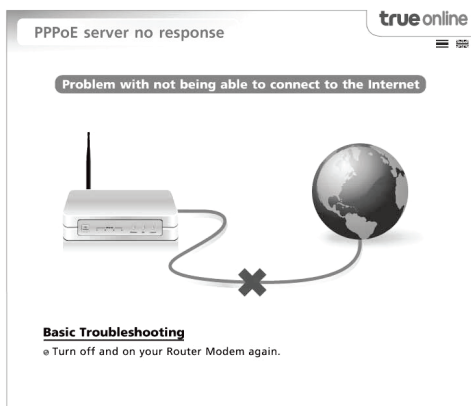


Figure 1-21 Warning page show when can't connect to internet.

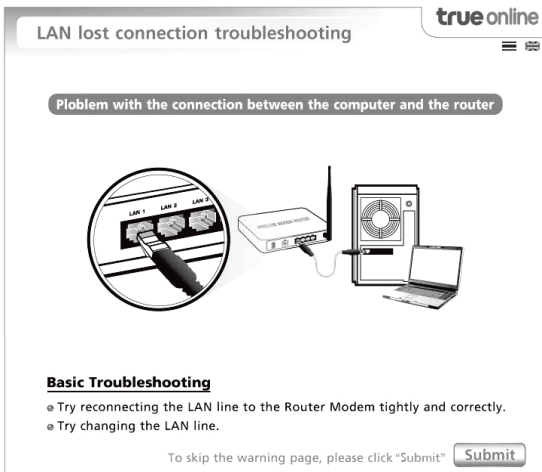


Figure 1-22 Warning page show the connection problem between computer and router modem.

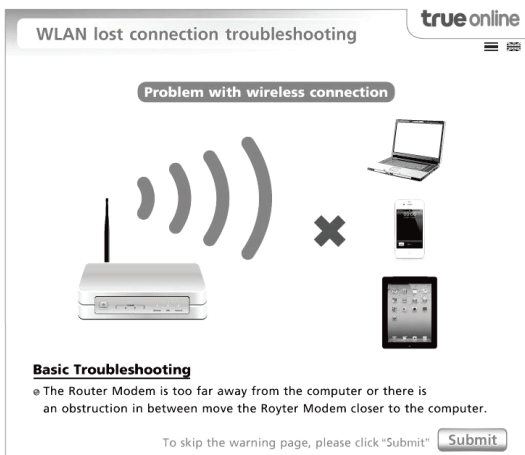


Figure 1-23 Warning page show when wireless disconnect many times.

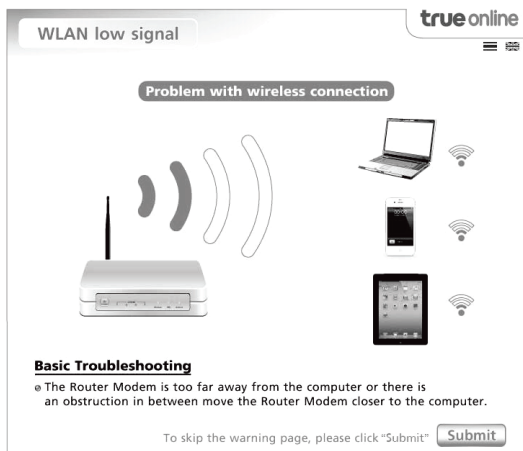


Figure 1-24 Warning page show when wireless signal is weak

If you wish to enable/disable warning page function, you may access to menu
Advance > Network Tools > Self Trouble shooting

- Enable = Enable Self Trouble Shooting page
- Disable = Disable Self Trouble Shooting page

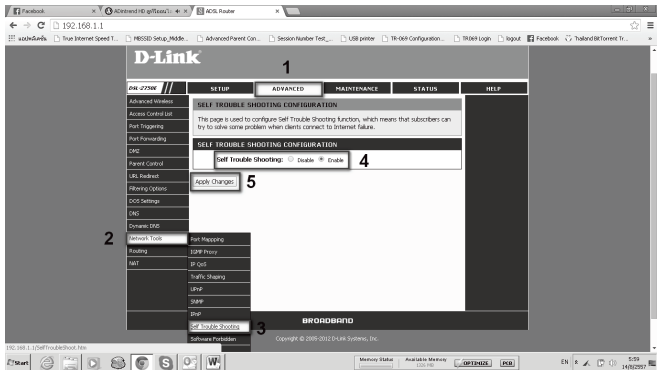


Figure 1-25 The page to enable/disable Self Troubleshooting page

Helping tools when your computer has wrong configuration (Self-Heal).

This feature use for help user for any wrong network configuration on computer that after config, router can allow user to surf internet such as wrong IP Address, wrong DNS that include wrong proxy configuration.

If you want enable/disable this feature can access follow menu Advanced > Network Tools > IPnP

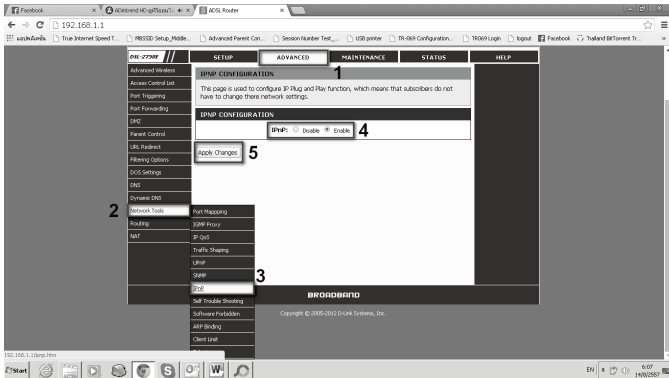

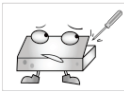
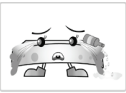









Figure 1-26 The page to access Self Heal page

Safety Concerns

Pay attention to the following when installing and using the D-Link DSL-2750E

	<p>Place the device at a well-ventilated place. Do not dispose the device to direct sunlight.</p>		<p>Never attempt to dismantle the device by yourself. In case of any fault, contact the appointed maintenance center for repair.</p>
	<p>During storage, transportation and operation of the device, keep the device dry.</p>		<p>Keep the power plug clean and dry. Using a dirty or wet power plug may lead to electric shock or other perils. Do not use an old or a damaged power cable.</p>

	<p>Do not let a child operate the device without guidance. Do not let a child play with the device or any accessory.</p> <p>Swallowing the accessories may lead to peril.</p>		<p>In any of the following cases, stop using the device, disconnect it from the power supply and unplug the power plug immediately: there is smoke emitted from the device, or there is some abnormal noise or smell.</p> <p>Contact the specified maintenance center for repair.</p>
	<p>Keep at least 10 cm. between the device and the closest object for heat dissipation. Keep the device for away from any heat source or bare fire, such as a candle or an electric heater.</p>		<p>Do not place any object on top of the device.</p> <p>Otherwise, the device may be too hot during operation. It can even be deformed or damaged by the heavy load.</p>
	<p>Before cleaning the device, stop using it and disconnect it from the power supply. Use a piece of soft cloth to clean the device.</p>		<p>Before plugging or unplugging any cable, shut down the device and disconnect it from power supply.</p>



Unplug your router during thunder storm. This will protect your router from damage due to power surges.



Note: What D-Link DSL-2750E is used for a long time, temperature of the shell will rise slightly. This is normal and does not affect the performance of the device.

FAQs

1. Why does the ADSL CPE fall off line so often?

There are many factors concerned, such as telephone or fax machine is connected directly to the ADSL subscriber line without splitter, faults in your ISP access server or ADSL CPE (Compatibility or quality problem), ETHERNET card (Low processing speed, invalid driver), line disconnection, line disturbance, etc. You are suggested to check the following items in your applicable range.

- (1) Ensure no telephone or fax machine is connected directly to the ADSL subscriber line without splitter.
- (2) Ensure the ADSL connector is valid.
- (3) Keep the device away from heat source, power line or highly powered electronic equipment.
- (4) Telephone Line NOT have any Noise

2. How to connect multiple telephones?

In case you need to connect telephone more than one set. You must install Micro Filter for every branch of Telephone. Micro filter is available at True Shops.

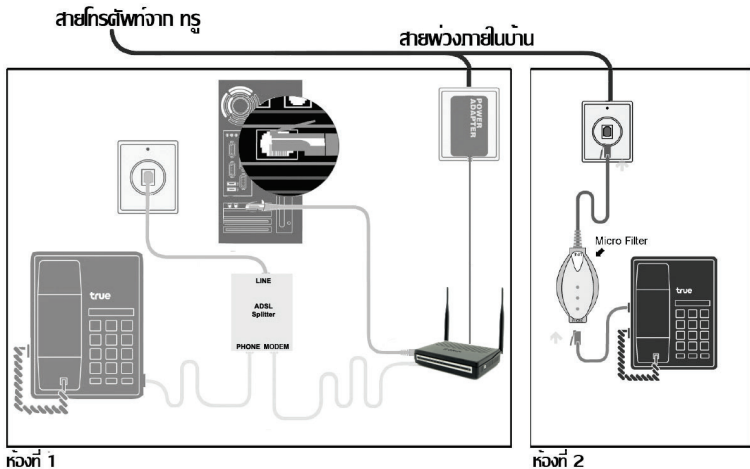


Figure 1-20 Multiple Telephones connection

3. What are the advantages compared with ordinary dial-up equipment?

- High data rate.
- Through Voice and data traffic are carried through a single line, the circuit switch does not process data traffic. That is, you don't need to pay extra telephone fee for accessing the Internet.

4. Is there any possibility of losing voice quality by using ADSL CEP or threatening data rate by calling simultaneously?

FDM technology is used here to separate the voice and data traffic, which are

totally independent to each other with standard frequency design. Even you make phone call while accessing the Internet, it will not cause the losing of voice quality or data rate.

5. Why can not I access the Internet?

- (1) Ensure that you have entered the correct username and password.
- (2) If you still cannot access the Internet, check whether the Proxy server on your IE is correctly configured. The Proxy server must be disabled.
- (3) Try different Websites, in case some Website fails.

Try to Power Off and Power On D-Link DSL-2750E then access Internet again.

6. I cannot get online for I changed the parameters of the D-Link DSL-2750E, What can I do?

Try to restore the default factory setting of the D-Link DSL-2750E as follows.

- (1) Find the Reset button on the bottom of the D-Link DSL-2750E.

Use a needle-like object to click and hold the Reset button 10 second, and then release it.

- (2) Default Configure and entered the correct username and password again

Technical Specification

General Specification		
Standard	ADSL Standard	ITU-T G.992.1 G.dmt ITU G.992.2 G.lite ANSI T1.413 Issue 2
	ADSL2 Standard	ITU G.992.3 G.dmt.bis ITU G.992.4 G.lite.bis
	ADSL2+ Standard	ITU G.992.5 ADSL2+
Data transfer rate	G.dmt	<ul style="list-style-type: none"> ● The maximum downstream rate is 8 Mbit/s ● The maximum upstream rate is 896 Kbit/s
	G.lite	<ul style="list-style-type: none"> ● The maximum downstream rate is 1.5 Mbit/s ● The maximum upstream rate is 512 Kbit/s
	T1.413	<ul style="list-style-type: none"> ● The maximum downstream rate is 8 Mbit/s ● The maximum upstream rate is Kbit/s
	ADSL2+	<ul style="list-style-type: none"> ● The maximum downstream rate is 24 Mbit/s ● The maximum upstream rate is 896 Kbit/s
	Annex M	<ul style="list-style-type: none"> ● The maximum upstream rate is 3 Mbit/s
	ADSL2	<ul style="list-style-type: none"> ● The maximum downstream rate is 12 Mbit/s ● The maximum upstream rate is 896 Kbit/s ● The maximum upstream rate is 3 Mbit/s

Physical and Environmental Specification

Power consumption	10 W
Power Adapter	Output: 12 VDC 1 A
Environment Temperature	0°C – 40°C (32°F – 104°F)
Environment Humidity	10% – 95%
Dimensions	240 x 160 x 68 mm
Weight	290 g

FCC 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 or more 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.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

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

FCC - PART 68

This equipment complies with Part 68 of the FCC rules and the requirements adopted by the ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:3P7DL01B2750ET1. If requested, this number must be provided to the telephone company.

This equipment uses the following USOC jacks: RJ-11; RJ-45.

REN (RINGER EQUIVALENT NUMBERS) STATEMENT

Notice: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

ATTACHMENT LIMITATIONS STATEMENT

Notice: This equipment meets telecommunications network protective, operational and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). This is confirmed by marking the equipment with the Industry Canada certification number. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together.

This precaution may be particularly important in rural areas.

Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.