

DI-3660 Router Installation Guide

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RECYCLABLE

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Introduction

Congratulations on your purchase of D-Link DI-3660 Modular Multi-Service Access Router. D-Link DI-3660 router offers an inexpensive yet a complete Internetworking solution with Voice support for your Corporate office, Business or Enterprise.

Overview

Today LAN, WAN and Internet connectivity are being rapidly accepted as the most used media for business. A growing percentage of business transactions, including data & voice communications, are being carried on Intranets and the Internet. At the same time, LAN and WAN technologies are evolving rapidly to meet the ever growing demand for faster connections, higher capacity and more robust security with sophisticated policy controls. Interconnecting the company through Intranet and Internet is becoming a competitive necessity for SOHO businesses and Enterprise branch offices.

Such Enterprise & SOHO businesses also require solutions that provide reliable, secure, high-performance access to their private WANs and the Internet, with flexibility to upgrade to new services easily in the near future. Service providers are interested in meeting this demand for new network services, to capitalize on opportunities in the growing SOHO & Enterprise market.

D-Link DI-3660 modular router provides a cost-effective solution for medium-sized businesses and Enterprise branch offices. DI-3660 delivers a flexible, scalable, integrated data access solution supporting multiple types of WAN interfaces providing a tailored access solution for both data & voice.

The D-Link DI-3660 Internetwork Operating System, includes Routing, Firewall, and Virtual Private Network (VPN) functions (including GRE, L2TP) and provides IPSec (IP Security), thus guaranteeing the security of WAN network in the Internet environment.

For voice applications, DI-3660 routers supports 3 different modules including Foreign Exchange Station (FXS) interface which connects directly to a standard analog telephone, Foreign Exchange Office (FXO) interface allowing an analog connection to be directed at the PSTN's central office or to a station interface on a private branch exchange (PBX) and, Ear & Mouth (E&M) interface allowing analog connection to be directed at the E&M station on a private branch exchange (PBX).

Key Features

Flexibility

- Interchangeable WAN interface network modules enable easy additions or changes in WAN technologies without a forklift upgrade of the entire platform.
- Modular data and voice slots enable users to tailor data and voice services as needed
- Supports different network modules, such as Fast Ethernet, Asynchronous serial port, Sync/Async serial port, ISDN BRI, ISDN PRI/E1 etc.

Integrated voice and data networking

- Reduces long-distance toll charges by allowing the data network to carry interoffice voice and fax traffic.
- Works with existing handsets, key units, and PBXs, eliminating the need for a costly phone-equipment upgrade.
- Provides a path to migrate to IP telephony.

Security

• Support Firewall/VPN Function.

Quality-Of -Service

- Allocates WAN bandwidth to priority applications for improved performance.
- End-to-end quality of service (QoS).
- Policy Routing.

Product Specifications

Hardware Features:

are reatures.	
Feature	Description
Chassis	Rack mount 2U size
RISC Processor	Motorola MPC8240 at 200MHz
Memory	
EEPROM	512K Bytes
Flash memory	8~104M Bytes
SDRAM	64~128M Bytes
Physical interface	
Console port	RJ-45
	RS-232 interface/Asynchronous serial DTE
Auxiliary port	RJ-45
	RS-232 interface/Asynchronous serial DTE
Module slots	Six slots
	Supports network modules and voice modules
Network modules	
One-port 10/100M network module	RJ-45
	10/100M Fast Ethernet port
	Supports IEEE802.3, IEEE802.3u
Two-port 10/100M network module	RJ-45
Two poir 10/10000 network module	10/100M Fast Ethernet port
	Supports IEEE802.3, IEEE802.3u
4 port sorial asymptonic and symptometry (T1/E1)	Each serial port provides serial connections to remote sites or
network module	
network module	legacy serial network devices such as Synchronous Data Link
	Control (SDLC).
	Supports V.24/V.28, RS232-D, V.35, RS422/RS449
8-port serial, async, and sync	Each serial port provides serial connections to remote sites or
(<128K) network module	legacy serial network devices such as Synchronous Data Link
	Control (SDLC).
	Supports V.24/V.28, RS232-D, V.35, RS422/RS449
8-port asynchronous serial network	RJ-45
module	Supports V.24/V.28, RS232-D
16-port asynchronous serial network	RJ-45
module	Supports V.24/V.28, RS232-D
One-port Channelized E1 network	One EI
module	One ISDN PRI (30B+D)
	Supports G.703 / G.704
Two-port Channelized E1 network	Two EI
module	One ISDN PRI (30B+D)
	Supports G.703 / G.704
Four-port Channelized E1 network	Four EI
module	One ISDN PRI (30B+D)
	Supports G.703 / G.704
Two-port FXS network module	RJ-11
F C C C C C C C C C C C C C C C C C C C	A Foreign Exchange Station (FXS) interface connects directly to
	a standard telephone, fax machine, or similar device
	a sumara terephone, fax machine, or similar device

Four-port FXS network module	RJ-11
	A Foreign Exchange Station (FXS) interface connects directly to
	a standard telephone, fax machine, or similar device
Two-port FXO network module	RJ-11
	Foreign Exchange Office (FXO) allows an analog connection to
	be directed at the PSTN's central office or to a station interface
	on a private branch exchange (PBX).
Four-port FXO network module	RJ-11
	Foreign Exchange Office (FXO) allows an analog connection to
	be directed at the PSTN's central office or to a station interface
	on a private branch exchange (PBX).
Two-port FXS + two-port FXO	RJ-11
network module	Two-port FXS + two-port FXO network module
Two-port E&M network module	RJ-11
-	Supports 2 and 4 wire, E&M signaling types I, II, III, V
Four-port E&M network module	RJ-11
-	Supports 2 and 4 wire, E&M signaling types I, II, III, V
One-port Ethernet + one-port serial,	RJ-45
async, and sync $(T1/E1)$ + one-port	10Mbps Ethernet port Supports IEEE802.3
ISDN BRI network module	One serial port provides serial connections to remote sites or
	legacy serial network devices such as Synchronous Data Link
	Control (SDLC)
	Supports V.24/V.28, RS232-D X.21bit, V.35, RS422/RS449
	One ISDN BRI port (S/T interface, requires external NT-1)
	Supports ITU I.430, Q.921, Q.931
One-port Ethernet + two-port serial,	RJ-45
async, and sync (T1/E1) network	10Mbps Ethernet port Supports IEEE802.3
module	One serial port provides serial connections to remote sites or
	legacy serial network devices such as Synchronous Data Link
	Control (SDLC)
	Supports V.24/V.28, RS232-D X.21bit, V.35, RS422/RS449
Two-port serial, async, and sync	One serial port provides serial connections to remote sites or
(T1/E1) + one-port ISDN BRI	legacy serial network devices such as Synchronous Data Link
network module	Control (SDLC)
	Supports V.24/V.28, RS232-D X.21bit, V.35, RS422/RS449
	One ISDN BRI port (S/T interface, requires external NT-1)
	Supports ITU I.430, Q.921, Q.931
Four-port ISDN BRI S/T network	One ISDN BRI port (S/T interface, requires external NT-1)
module	Supports ITU I.430, Q.921, Q.931

Software Features

Feature	Description
Link layer protocol	Frame relay
	X.25
	LAPB
	PPP
	PPPoE
	HDLC

	SLIP
	ISDN (PRI/BRI)
	LLC2
	SDLC
	DLSW-SSP
	VLAN
Network layer protocol	ARP
	ARP Proxy
	DNS
	NAT
	IP Filtering
	ICMP
	IGMP
	DHCP client
	NHRP
Routing protocol	Static routing
	Policy-based routing
	RIP v1, v2
	OSPF v1, v2
	BGP-4
	DDR
	IP Multicasting
	DVMRP
	PIM-DM/SM
Security	
Security AAA	Radius
	PAP
	PAP CHAP
	PAP CHAP TACAS+
	PAP CHAP TACAS+ ACL
AAA Firewall	PAP CHAP TACAS+ ACL NAT
	PAP CHAP TACAS+ ACL NAT L2TP
AAA Firewall	PAP CHAP TACAS+ ACL NAT L2TP GRE
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec
AAA Firewall	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ CQ
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ CQ CBWFQ
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ CQ CQ CBWFQ WFQ
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ CQ CQ CBWFQ WFQ RED
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ CQ CQ CBWFQ WFQ RED
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ CQ CQ CBWFQ WFQ RED WRED RTS
AAA Firewall Quality of Service (QoS)	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ CQ CQ CQ CBWFQ WFQ RED WED RED WRED RTS RSVP
AAA Firewall VPN	PAP CHAP TACAS+ ACL NAT L2TP GRE IPSec FIFO PQ CQ CQ CBWFQ WFQ RED WRED RTS

Management	SNMP v1, v2, v3
	RMON
	Telnet
Voice application	Voice over IP
	FAX over IP
	Н.323
	G.729/G.729A/G.729B
	G.723.1/G.723.1A
	G.726
	G.727
	G.711

Mechanical design

Front panel



Rear panel



Dimension: 445mm x 410mm x 88mm (L x W x H)

Power

Feature	Detailed Description
Power input	110 ~ 264VAC
Power frequency	47 ~ 63Hz
Power dissipation	Max. 80W

Environmental specifications

Feature	Detailed Description
Operating Temperature	$0 \sim 40^{\circ} \mathrm{C}$
Storage Temperature	-20 ~ 65°C
Operating Humidity	10% ~ 85%, noncondensing

Identifying External Components

D-Link DI-3660 Router is shipped with standard configuration which includes a Console Port and an AUX Port.

The Table of the Feature of Standard Configured Port:

Name of Port	Feature	
Console Port	Rate 300bps—115200bps, RJ45 Connector, No LED	
AUX Port	Rate 1200bps—57600bps, RJ45 Connector, No LED	

Besides, there are 6 Network/Voice interface module slots, a power plug, a power ON/OFF switch, and ground pole and a vent for proper air circulation to avoid overheating.

Description of the Components on the Front Panel of the Router:



Description of the Components on the Rear Panel of the Router:



The following table describes the components on the Router's panel:

No	Name	Description
1	Power	The device is powered ON
2	Console	Connected to the monitored terminal through this port to monitor and configure
3	AUX	Connected to asynchronous Modem through this port; and the port uses the specified communication cable.
4	Ready1	LED ON when system has self-checked successfully.
5	Active1	LED ON when interface card and module is inserted in the slot.
6	Ready2	LED ON system has self-checked successfully.
7	Active2	LED ON interface card and module is inserted in the slot.
8	Ready3	LED ON when system has self-checked successfully.
9	Active3	LED ON when interface card and module is inserted in the slot.
10	Ready4	LED ON when system has self-checked successfully.
11	Active4	LED ON when interface card and module is inserted in the slot.
12	Ready5	LED ON when system has self-checked successfully.
13	Active5	LED ON when interface card and module is inserted in the slot.
14	Ready6	LED ON when system has self-checked successfully.
15	Active6	LED ON when interface card and module is inserted in the slot.
16	SLOT1	Network interface modules slot.
17	SLOT2	Network interface modules slot.
18	SLOT3	Network interface modules slot.
19	SLOT4	Network interface modules slot.
20	SLOT5	Network interface modules slot.
21	SLOT6	Network interface modules slot.
22	Power Switch	Press upwards to turn the Router ON, press downwards to turn it OFF
23	Power Input	AC110~220V

Router Installation

Before you Begin

Warning: Only trained & qualified technician is allowed to install & maintain the equipment

This Chapter instructs you on how to install the D-Link DI-3660 Series Router.

The Chapter is divided into following sections:-

- Unpacking the Router.
- Safety Warnings and Recommendations.
- Tools and equipments required for installation.
- Installing the Router Case.
- Connecting Power to the Router.
- Connecting to the Console & Auxiliary Port of the Router.
- Connecting Network Modules.

Unpacking the Router

Before you proceed further, please check all items you received with your DI-3660 Router with this list to make sure the package is complete. The complete package should include:

- One DI-3660 Router.
- One 100~240V AC power cord.
- One Console Cable (DRC-0001) for console connection.
- Rack mount kit including six screws and two mounting brackets.
- Installation Guide.

If any item is found missing or damaged, please contact your local D-Link Reseller.

Safety Warnings & Recommendations

Follow these guidelines to ensure general safety:

- 1. Keep the environment clear, dry, safe and dust-free during and after installation.
- 2. Avoid pulling power supply cable and interface cable vigorously.
- 3. Ensure that the mains AC power is conditioned using a Standard Power Surge suppressor.
- 4. It is recommended to use a UPS for continuous uninterrupted power.
- 5. Wear safety glasses when working under any conditions that might be hazardous to your eyes.
- 6. Do not touch the uncovered telephone-network cable directly.
- 7. Do not insert telephone-network cable connector to the Ethernet/Fast Ethernet port.
- 8. Do not work on the system or connect or disconnect cables during periods of lightning activity.
- 9. Console, Auxiliary & Ethernet connection is RJ-45 based, therefore before plugging corresponding cable it is important that you properly check the cable type.
- 10. ISDN and Ethernet Cables are very similar to each other .It is important that you use the correct cable for each connection else, your router could get damaged.

Tools and equipments required for installation

Following are the tools required for router installation:-

- 1. Screwdriver
- 2. ESD-preventive wrist strap
- 3. Appropriate connecting cable (the cable required for each card)
- 4. Console cable
- 5. Power supply cable
- 6. Terminal

Installing the Router Case

The router can be placed on a desktop or mounted in a 19" rack, depending upon your need. Regardless of where you place the router make sure its cable jacks are accessible, LED indicators are visible and its ventilation holes are never blocked.

Installing the Router Case on Table

D-Link DI-3660 router may be placed on a smooth and secured table. Please check the access of power & communication cables to the installation workplace.

Note: Do not place any heavy object on the router, this may damage the router.

Installing the Router Case in a 19" Rack

D-Link DI-3660 router can be fixed in a 19" rack using brackets provided with the router. When locking the case, ensure the front panel of the router faces front. As illustrated below:



Note: The figure shown above is only the installation of one side; on the other side of the router, bracket will be installed on a corresponding location of the case.

After the bracket is installed, you can install the router on the rack, the operation is as followings:



Connecting Power to the Router



Recommended AC power socket

A Three-pin power socket with a neutral point connector or a special power socket for the computer is recommended. The neutral point of the power supply system in a building must be reliably grounded before connecting the AC power cord of the router. Normally, the neutral point of the power supply system in a building will have been grounded during the construction and wiring.

Connecting AC power cord

- 1. Confirm that the GND wire is correctly grounded.
- 2. Make sure that the power switch of the router is turned off, connect one end of the power cord to the AC input socket on the router's rear panel, and connect the other end to the AC outlet.
- 3. Switch the power switch of the router to ON position.
- 4. Check that the PWR LED on the front panel of the router is ON.

Connecting to the Console & Auxiliary Port of the Router

There is one Console port and one AUX port on D-Link DI-3660 Router. This section describes the features and usage of these two ports.

Console Port

Transmission Rate supported is 1200bps-to-115200bps and it has a standard RJ45 Connector, Parity Check is optional, and has Flow Control. A dedicated Console cable, **DRC-0001**, provided with the router is used to connect this port to a terminal device like VT-100, or to the serial port of PC, and then use a terminal emulator (such as Windows Hyper terminal software) to configure & monitor the D-Link DI-3660 Router functions. The communication parameter of the serial port on a PC has to be set as: Rate: 9600bps rate, eight-bit data bits, one-bit stop bit, no Parity Check bit, and no flow control as shown in Figure :

COM1 Properties		? 🛛
Port Settings		
<u>B</u> its per second:	9600	~
<u>D</u> ata bits:	8	~
<u>P</u> arity:	None	~
<u>S</u> top bits:	1	~
Elow control:	None	
	B	estore Defaults
0	K Cance	el <u>A</u> pply

The RJ-45 connector of the Console port is shown in the following figure, the male and female connectors are pin-to-pin corresponding and the pin numbers 1-8 start from left to right.



The connection between the Console port of D-Link DI-3660 Router and the terminal device or PC serial port is illustrated as below:



Sr. No.	Name	Description		
1	CD	Carrier Detect		
2	RXD	Receive		
3	DSR	Data Send Ready		
4	TXD	Transmit		
5	RTS	Request to Send		
7	DTR	Data Ready		
8	SG	Signal Ground		

The DRC-0001 cable is used to connect the Console port of D-Link DI-3660 Router with the external Console terminal equipment or serial port of PC. One end of the DRC-0001 cable is a standard RJ45 eight-pin connector & the other end is DB25 and DB9 connector. The RJ45 connector gets connected to the Console port of D-Link DI-3660 series router, the other end you can choose one from the DB25 or DB9 port according to your serial port on terminal or PC. The pin connection of the console cable DRC-0001 is showed in the following figure.



AUX Port—Auxiliary Port

The Transmission rate supported by AUX Port is 1200bps-to-115200bps and it has a standard RJ45 Connector, Parity Check is optional, and has Flow Control. AUX Port can be directly connected to an asynchronous modem for remote console configuration support or as a backup link. The communication parameter of the AUX port can be set as: Rate—115200bps, eight-bit data bits, one-bit stop bit, no Parity Check, no hardware Flow Control.



The auxiliary cable, DRC-0011 is used to connect the AUX Port with an external asynchronous modem. One end of the DRC-0011 cable is a standard RJ45 eight pin connector and the other end is DB25 and DB9 female connector. The RJ45 connector gets connected to the AUX Port of the router and on the other end you choose one from DB25 or DB9 according to the requirement of asynchronous serial port of Modem. The pin connection of the AUX cable DRC-0011 is showed in the following figure.



Installing Network Modules

This section describes how to install WAN & Voice Network Modules in D-Link DI-3660 routers.

Before performing any of the following procedures, ensure that power to the Router is OFF.

Caution:

Do not insert the module into any slot of the router when power is ON or network cables are connected.

To install a Network Module in D-Link DI-3660 router, follow these steps:

- 1. Power OFF the router.
- 2. To avoid ESD voltage damaging the equipment, channel the router body to ground.
- 3. Remove all network interface cables, including telephone cables, from the rear panel.
- 4. Use a flat-blade screwdriver to remove the blank filler panel from the slot where you plan to install the card. Save the filler panel for possible future use.



5. Align the module with the guides in the chassis and slide it gently into the slot as shown in the following figure.



- 6. Push the module into place until the edge connector is securely seated in the connector on the motherboard. Ensure that each of the module's captive screws lines up with its corresponding hole in the chassis.
- 7. Secure the captive mounting screws into the holes of the chassis using a flat-blade screwdriver.
- 8. After completion of the hardware installation, begin the software configuration (refer Software Installation Guide).

Network Module Combination Matrix

For choosing the correct Network Module for WAN & Voice connectivity please refer the Network Module Matrix below.

No.	Description	Part Code	SLOT1~6
1	One-port 10/100Base-TX	DRM-1FE-TX	Yes
2	Two-port 10/100Base-TX	DRM-2FE-TX	Yes
3	One-port 10/100Base-FX (Multi-Mode)	DRM-1FE-FX	Yes
4	One-port 10/100Base-FX (Single-Mode)	DRM-1FE-FS	Yes
5	One-port Ethernet + two-port serial,		Yes
	Sync/Async (up to 2Mbps)	DRM-1E2T	
6	Two-port serial, async, and sync (up to		Yes
	2Mbps) + one-port ISDN BRI	DRM-2T1B	

7	One-port Ethernet + one-port serial, async, and sync (up to 2Mbps) + one-port ISDN		Yes
	BRI		
8	Four-port ISDN BRI S/T Interface	DRM-4B-S/T	Yes
9	4-port serial, async, and sync (up to 2Mbps)	DRM-4T	Yes
10	8-port serial, async, and sync (<128Kbps)	DRM-8A/S	Yes
11	8-port asynchronous serial	DRM-8ASY	Yes
12	16-port asynchronous serial	DRM-16ASY	Yes
13	One-port channelized E1	DRM-1CE1	Yes
14	Two-port channelized E1	DRM-2CE1	Yes
15	Four-port channelized E1	DRM-4CE1	Yes
16	Two-port FXS (including DSP)	DRM-2FXS	Yes
17	Two-port FXO (including DSP)	DRM-2FXO	Yes
18	Two-port E&M (including DSP)	DRM-2E&M	Yes
19	Four-port FXS (including DSP)	DRM-4FXS	Yes
20	Four-port FXO (including DSP)	DRM-4FXO	Yes
21	Four-port E&M (including DSP)	DRM-4E&M	Yes
22	Two-port FXS + two-port FXO	DRM-2FXS&2FXO	Yes

Troubleshooting

This chapter describes some troubleshooting techniques, incase of malfunctioning of DI-3660 router. After each description, we have provided some instructions to help you to diagnose and resolve the problem. If you are not able to locate source of problem, contact your local reseller or D-Link support center for further help.

The LED indicators indicate the current operation of the Router. The standard configuration indicators on the rear panel of the router case are described in the following table:-

No	Name	Description		
1	Power	The router is powered ON.		
2	Ready1	LED ON when system has self-checked successfully.		
3	Active1	LED ON when there is interface card and module inserted in the slot.		
4	Ready2	LED ON when system has self-checked successfully.		
5	Active2	LED ON when there is interface card and module inserted in the slot.		
6	Ready3	LED ON when system has self-checked successfully.		
7	Active3	LED ON when there is interface card and module inserted in the slot.		
8	Ready4	LED ON when system has self-checked successfully.		
9	Active4	LED ON when there is interface card and module inserted in the slot.		
10	Ready5	LED ON when system has self-checked successfully.		
11	Active5	LED ON when there is interface card and module inserted in the slot.		
12	Ready6	LED ON when system has self-checked successfully.		
13	Active6	LED ON when there is interface card and module inserted in the slot.		

Problem Powering Up the DI-3660 Router

None of the LEDs are ON when you power up the router:-

- Check the AC mains power is turned ON.
- Check Router power switch is turned ON.
- Check whether the power cord is properly connected to the Router.

Problem Configuring Router through Console port

Nothing is displayed on terminal:-

- Check whether router is powered ON properly.
- Check whether the router console port is properly connected to PC serial port.
- Check whether Terminal communication program (HyperTerminal) is configured properly.

Problems Connecting Network Module

Router does not detect or reboots after inserting Network Module:-

- Confirm that the network module is properly inserted in the slot.
- Check whether LED indication is proper in the front panel w.r.t. slot.
- The WIC/VIC Interface card might be faulty. Turn OFF router immediately and consult your reseller.

Router Maintenance

This section mainly describes how to maintain DI-3660 router.

Warning:

1. Before you open the case, please ensure you have discharged the static on your body and Router is powered OFF. Before you perform any procedure, please read "Safety Warning".

2. Remove all power cables, network interface cables, including telephone cables, from the rear panel.

Opening Router Case

This part describes how to open the router's case, the tools needed and the operation process.

Tools and equipments required for router maintenance, which are not included in the router's standard configuration, are:

1. Screwdriver

2. Anti-static wrist strap

Follow the steps to open the cover:

Step1: Make sure the Router is powered OFF (toggle the switch to OFF position), and remove the AC power plug

Step2: Remove all the cables connected to the router's rear panel

Step3: Use screwdriver to take off the screws (refer fig1 below), and keep the screws aside.

Step4: Hold both sides of the router cover and take it out in the upward direction as shown in fig2 below



Step5: After you take off the router cover, place the cover safely. You will see the main-board as shown in the following figure:



Note: After you take off the router cover, place it securely. Don't crush or impact the cover.

Close the Case

This section describes the steps of placing the router cover and closing the case.

Step1: Follow the arrows in figure 1 and put the cover by matching corresponding screw holes.



- Step2: Close the joint edge of the router cover as shown in fig2 above
- Step3: Drive the screws in and tighten them with the screwdriver
- Step4: Reinstall the router on the rack or the table
- Step5: After closing the router cover, you can connect all the cables

Upgrade System Memory

SDRAM Installation

This section describes how to upgrade the memory of DI-3660 Router.

- 1. Turn OFF the power supply switch of DI-3660 and remove the AC power plug
- 2. Follow the steps of "Open the case" to take off the router cover
- 3. Refer to the following figure to find the location of SDRAM DIMM slot



Fig. 1

4. Release the locking spring clips on both sides of SDRAM DIMM with your thumbs carefully (as shown in Fig.2 below). When SDRAM springs out of its slots, you can pull out the original SDRAM vertically (as shown in Fig.2).

Note: If you cannot pull out the SDRAM, check if it is locked by any other object, and then follow the steps above to try again.



5. To insert new SDRAM into the SDRAM DIMM slot make the golden finger edge of the new SDRAM downwards as show in fig 2 above. Hold the top edge of the SDRAM with your forefingers and thumbs and insert it into the SDRAM DIMM slot vertically. The two notches of the SDRAM fit into the two bulges in the SDRAM DIMM slot (as shown in Fig.2).

6. Shut the locking spring clips on the both ends of SDRAM DIMM slot to fix the SDRAM (as shown in Fig.2)

7. You have finished the installation of SDRAM, please follow the steps of "Close the case" as shown in Router Maintenance Section.

Upgrading FLASH Memory

The standard configuration of FLASH in DI-3660 router is 8 Mb. If you want to upgrade it, you can insert Flash memory into the Flash Memory slot on the main-board of the router. The following steps instruct you how to upgrade the Flash memory.

- 1. Turn OFF the power supply switch of DI-3660 and remove the AC power plug
- 2. Follow the steps of "Open the case" to take off the router cover

3. Refer to the following figure to find the location of Flash Memory slot and switch on DI-3660



4. If there is a Flash Card in the slot already, you should uninstall the existing Flash Card first. Push the spring handle of Flash Memory slot with your fingers as in the direction of arrow 1, and the Flash Card in the slot will spring out, then you can take out Flash Card in the direction of arrow 2;



5. Identify the edge with the female connectors on the new Flash Card. Insert the Flash Card with this edge going first into the Flash memory slot (see the following figure below for side view of the Flash Card).



Note: If the Flash Card doesn't enter into the Flash memory receptacle, don't push it in by force. Take out Flash Card and try again with the other side upwards.

6. Push Flash Card into Flash memory receptacle horizontally as shown in the figure below:



7. Find the location of the switch in the figure showing the location of the Flash memory slot and put ON switch #2.

8. After you finish installation, please follow the steps of "Close the case" as shown in Router Maintenance Section.

D-Link Offices

Australia	D-Link Australasia			
	1 Giffnock Avenue, North Ryde, NSW 2113, Sydney, Australia			
	TEL: 61-2-8899-1800 FAX: 61-2-8899-1868			
	TOLL FREE (Australia): 1300 766 868			
	TOLL FREE (New Zealand): 0800-900900			
	URL: www.dlink.com.au			
	E-MAIL: support@dlink.com.au & info@dlink.com.au			
Brazil	D-Link Brasil Ltda.			
	Rua Tavares Cabral 102 - Conj. 31 e 33			
	05423-030 Pinheiros, Sao Paulo, Brasil			
	TEL: (5511) 3094 2910 to 2920 FAX: (5511) 3094 2921			
	URL: www.dlink.com.br			
Canada	D-Link Canada			
	2180 Winston Park Drive, Oakville,			
	Ontario, L6H 5W1 Canada			
	TEL: 1-905-829-5033 FAX: 1-905-829-5223			
	BBS: 1-965-279-8732 FTP: ftp.dlinknet.com			
	TOLL FREE: 1-800-354-6522			
	URL: www.dlink.ca E-MAIL: techsup@dlink.ca			
Chile	D-Link South America (Sudamérica)			
	Isidora Goyenechea 2934			
	Oficina 702, Las Condes, Santiago, Chile			
	TEL: 56-2-232-3185 FAX: 56-2-232-0923			
	URL: www.dlink.com.cl			
China	D-Link Beijing			
	Level 5,Tower W1,The Tower,Oriental Plaza			
	No.1,East Chang An Ave., Dong Cheng District			
	Beijing,100738,China			
	TEL: (8610) 85182529/30/31/32/33			
	FAX: (8610) 85182250			
	URL: www.dlink.com.cn E-MAIL: webmaster@dlink.com.cn			
Denmark	D-Link Denmark			
	Naverland 2, DK-2600 Glostrup, Copenhagen, Denmark			
	TEL: 45-43-969040 FAX: 45-43-424347			
	URL: www.dlink.dk E-MAIL: info@dlink.dk			
Egypt	D-Link Middle East			
	7 Assem Ebn Sabet Street, Heliopolis, Cairo, Egypt			
	TEL: 202-624-4615 FAX: 202-624-583			
	URL: www.dlink-me.com			
	E-MAIL: support@dlink-me.com & dlinkegypt@dlink-me.com			
Finland	D-Link Finland			
	Pakkalankuja 7A, 01510 Vantaa, Finland			
	TEL: 358-9-2707-5080 FAX: 358-9-2707-5081			
	URL: www.dlink-fi.com			
France	D-Link France			
	Le Florilege, No. 2, Allée de la Fresnerie,			
	78330 Fontenay-le-Fleury, France			

	TEL: 33-1-3023-8688 FAX: 33-1-3023-8689			
	URL: www.dlink-france.fr			
	E-MAIL: info@dlink-france.fr			
Germany	D-Link Central Europe (D-Link Deutschland GmbH)			
	Schwalbacher Strasse 74, D-65760 Eschborn, Germany			
	TEL: 49-6196-77990 FAX: 49-6196-7799300			
	BBS: 49-(0) 6192-971199 (analog) & BBS: 49-(0) 6192-971198 (ISDN)			
	INFO: 00800-7250-0000 (toll free) & HELP: 00800-7250-4000 (toll free)			
	REPAIR: 00800-7250-8000 & HELP: support.dlink.de			
	URL: www.dlink.de & E-MAIL: info@dlink.de			
India	D-Link India			
	Plot No.5, Kurla -Bandra Complex Rd., Off Cst Rd.,			
	Santacruz (East), Mumbai, 400 098 India			
	TEL: 91-022-2652-6696/6788/6623			
	FAX: 91-022-2652-8914/8476			
	URL: www.dlink.co.in			
	E-MAIL: service@dlink.co.in & tushars@dlink.co.in			
Italy	D-Link Mediterraneo Srl/D-Link Italia			
5	Via Nino Bonnet n. 6/B, 20154, Milano, Italy			
	TEL: 39-02-2900-0676 FAX: 39-02-2900-1723			
	URL: www.dlink.it E-MAIL: info@dlink.it			
Japan	D-Link Japan			
	10F, 8-8-15 Nishi-Gotanda, Shinagawa-ku, Tokyo 141, Japan			
	TEL: 81-3-5434-9678 FAX: 81-3-5434-9868			
	URL: www.d-link.co.jp E-MAIL: kida@d-link.co.jp			
Netherlands	D-Link Benelux			
	Lichtenauerlaan 102-120, 3062 ME Rotterdam, Netherlands			
	TEL: +31-10-2045740 FAX: +31-10-2045880			
	URL: www.d-link-benelux.nl & www.dlink-benelux.be			
	E-MAIL: info@dlink-benelux.com			
Norway	D-Link Norway			
Ū.	Karihaugveien 89, 1086 Oslo			
	TEL: 47-22-309075 FAX: 47-22-309085			
	SUPPORT: 800-10-610 & 800-10-240 (DI-xxx)			
	URL: <u>www.dlink.no</u>			
Russia	D-Link Russia			
	129626 Russia, Moscow, Graphskiy per., 14, floor 6			
	TEL/FAX: +7 (095) 744-00-99			
	URL: www.dlink.ru E-MAIL: vl@dlink.ru			
Singapore	D-Link International			
	1 International Business Park, #03-12 The Synergy,			
Sin	gapore 609917			
	TEL: 65-6774-6233 FAX: 65-6774-6322			
	E-MAIL: info@dlink.com.sg URL: www.dlink-intl.com			
South Africa	D-Link South Africa			
	Einstein Park II, Block B			
	102-106 Witch-Hazel Avenue			
	Highveld Technopark			
	Centurion, Gauteng, Republic of South Africa			

	TEL: +27-12-665-2165 FAX: +27-12-665-2186			
	URL: www.d-link.co.za E-MAIL: attie@d-link.co.za			
Spain	D-Link Iberia S.L.			
	Sabino de Arana, 56 bajos, 08028 Barcelona, Spain			
	TEL: 34 93 409 0770 FAX: 34 93 491 0795			
	URL: www.dlink.es E-MAIL: info@dlink.es			
Sweden	D-Link Sweden			
	P. O. Box 15036, S-167 15 Bromma, Sweden			
	TEL: 46-8-564-61900 FAX: 46-8-564-61901			
	URL: www.dlink.se E-MAIL: info@dlink.se			
Taiwan	D-Link Taiwan			
	2F, No. 119, Pao-chung Road, Hsin-tien, Taipei, Taiwan			
	TEL: 886-2-2910-2626 FAX: 886-2-2910-1515			
	URL: www.dlinktw.com.tw E-MAIL: dssqa@dlinktw.com.tw			
Turkey	D-Link Turkiye			
	Beybi Giz Plaza, Ayazaga Mah. Meydan Sok. No. 28			
	Maslak 34396, Istanbul-Turkiye			
	TEL: 90-212-335-2553 (direct) & 90-212-335-2525 (pbx)			
	FAX: 90-212-335-2500 E-MAIL: dlinkturkey@dlink-me.com			
	E-MAIL: support@dlink-me.com			
U.A.E.	E-MAIL: support@dlink-me.com D-Link Middle East FZCO			
U.A.E.				
U.A.E.	D-Link Middle East FZCO			
U.A.E.	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5			
U.A.E.	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates			
U.A.E.	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234			
U.A.E. U.K.	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464			
	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com			
	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd			
	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd 4 th Floor, Merit House, Edgware Road, Colindale, London			
	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd 4 th Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom			
	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd 4 th Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom TEL: 44-020-8731-5555 SALES: 44-020-8731-5550			
	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd 4 th Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom TEL: 44-020-8731-5555 SALES: 44-020-8731-5550 FAX: 44-020-8731-5511 SALES: 44-020-8731-5551			
	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd 4 th Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom TEL: 44-020-8731-5555 SALES: 44-020-8731-5550 FAX: 44-020-8731-5511 SALES: 44-020-8731-5551 BBS: 44 (0) 181-235-5511			
U.K.	D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd 4 th Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom TEL: 44-020-8731-5555 SALES: 44-020-8731-5550 FAX: 44-020-8731-5511 SALES: 44-020-8731-5551 BBS: 44 (0) 181-235-5511 URL: www.dlink.co.uk E-MAIL: info@dlink.co.uk			
U.K.	 D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd 4th Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom TEL: 44-020-8731-5555 SALES: 44-020-8731-5550 FAX: 44-020-8731-55511 SALES: 44-020-8731-5551 BBS: 44 (0) 181-235-5511 URL: www.dlink.co.uk E-MAIL: info@dlink.co.uk D-Link U.S.A. 			
U.K.	 D-Link Middle East FZCO P.O. Box18224 R/8, Warehouse UB-5 Jebel Ali Free Zone, Dubai – United Arab Emirates TEL: (Jebel Ali): 971-4-883-4234 FAX: (Jebel Ali): 971-4-883-4394 & (Dubai): 971-4-335-2464 E-MAIL: dlinkme@dlink-me.com & support@dlink-me.com D-Link Europe (United Kingdom) Ltd 4th Floor, Merit House, Edgware Road, Colindale, London NW9 5AB United Kingdom TEL: 44-020-8731-5555 SALES: 44-020-8731-5550 FAX: 44-020-8731-5551 SALES: 44-020-8731-5551 BBS: 44 (0) 181-235-5511 URL: www.dlink.co.uk E-MAIL: info@dlink.co.uk D-Link U.S.A. 53 Discovery Drive, Irvine, CA 92618, USA 			

DI-3660 Router

Registration Card					
Print, type or u	se block letters.				
Your name:Mr	./Ms				
Organization:		Dept			
Your title at or	ganization:				
Telephone: _		Fax:			
Organization's	full address:				
Country:	Da	te of purchase (Month/Day/Year)	:		
Product	Product Serial	* Product installed in type of	* Product installed in		
Model	No.	computer (e.g., Compaq	computer serial No.		
		486)			
(* Applies to a	dapters only)				
Product was pu	rchased from:				
Reseller's r	name:		Telephone:	Fax:	Reseller's full address:
Answers to the	following question	ons help us to support your produ	ict:		
1.Where and h	ow will the produ	ct primarily be used?			
o Home o Off	ice o Travel o Co	mpany Business OHome Busine	ss O Personal Use		
2. How many e	employees work a	t installation site?			
o 1 employee	0 2-9 0 10-49 0 5	60-99 0 100-499 0 500-999 0 100	00 or more		
3. What netwo	rk protocol(s) doe	s your organization use ?			
oxns/ipx o	TCP/IP o DECne	t O Others			
4. What netwo	rk operating syste	m(s) does your organization use	?		
o D-Link LAN	Nsmart O Novell	NetWare O NetWare Lite O SCO	O Unix/Xenix OPC NFS C	3 Com 3+Open O Banyan Vine	es oDECnet Pathwork Windows NT
Windows N	TAS Windows	95 Others			
5. What netwo	rk management pi	ogram does your organization us	e ?		
D-View H	IP OpenView/Wir	ndows HP OpenView/Unix S	SunNet ManagerNovell N	MS NetView 6000	
Others					
6. What netwo	rk medium/media	does your organization use ?			
Fiber-optics Thick coax Ethernet Thin coax Ethernet 10BASE-T UTP/STP 100BASE-TX 100BASE-T4 100VGAnyLAN					
Others					
7. What applications are used on your network?					
Desktop publishing Spreadsheet Word processing CAD/CAM Database management Accounting Others					
8. What category best describes your company?					
Aerospace Engineering Education Finance Hospital Legal Insurance/Real Estate Manufacturing Retail/Chainstore/Wholesale Government					
VAR System house/company Transportation/Utilities/Communication					
9. Would you recommend your D-Link product to a friend?					
□Yes □No □Don't know yet					
10. Your comments on this product?					

