



DI-1750

Branch Office Access Router comes default with a Fast Ethernet port and 2 empty slots

**Multi-Service Access Router Series includes:**

- DI-1750 2-Slot Branch Office Router
- DI-2630 4-Slot Branch Office Router
- DI-3660 High Density Corporate Network Router

## 2-Slot Modular Multi-Service Access Router for Branch Office

The DI-1750 is part of D-Link's Multi-Service Access Router series, a line of highly flexible and reliable business-class routers designed to securely connect remote sites to corporate networks. These routers provide a wide range of remote link services that can be tailored to your business's particular remote access requirements. Using a modular architecture, these routers allow you to select the modules from a complete range of connection types, from ISDN to sync/async serial dial-up/leased lines, channelized E1, fiber/copper Ethernet, broadband over phonelines, and voice over data. Cost-effective upgrades are possible by simply replacing the module types without changing the routers.

The following are the common features of all D-Link Multi-Service Access Routers:

### Comprehensive Router Functions

Secure Internet, Intranet, and Extranet access with VPN and firewall protection and VLAN support is provided. A complete range of protocols is supported, including X.25, Frame Relay, SLIP, and PPP.

### Flexibility

Interchangeable WAN interface cards enable easy additions or changes in WAN technologies without a forklift upgrade of the entire platform. Modular data and voice slots enable you to tailor your data and voice services as needed. A very wide range of interface cards are available for selection, including Fast Ethernet, asynchronous serial port, sync/async serial ports, ISDN BRI and ISDN PRI.

### Security

All D-Link Multi-Service Access Routers provide extensive security protection, from simple firewall such as ACL and NAT to VPN L2TP, GRE, IPSec and authentication are supported. Other access security functions provided include RADIUS, PAP, CHAP, TACAS+, and PPP callback.

### Integrated Voice Over Data Network

You can install voice over data cards in these routers to add values to your existing network. The voice cards reduce your long-distance toll charges by allowing your data network to carry inter-office voice and fax traffic. These cards provide voice communication that works with existing handsets, key units, and PBXs, eliminating for you the need for costly phone-equipment upgrades. They also provides a path to migrate to IP telephones.

### Cost-effective solution

The DI-1750 router is designed as a cost-effective solution for a branch office connection to a corporate network. Like other D-Link Multi-Service Access Routers, this router supports a wide range of WAN interfaces. It comes default with 1 10/100Mbps Fast Ethernet port, 1 console port, 1 auxiliary port, and 2 open slots. The console port is for a local connection. The AUX port can connect to a remote console through an analog modem for management.

The DI-1750's firmware can support all the WAN cards and the voice cards that you select to install in its open slots.

### Key Features

- For branch office connection
- 1 10/100Mbps Fast Ethernet port
- VPN access
- Dial access service
- 1 auxiliary port with analog modem support
- 2 open slots for up to 15 WAN interface and voice cards
- Standard equipment rack-mount size, 1 U height
- Multi Service voice/data integration

### Hardware

#### RISC Processor

Motorola MPC860T at 50MHz

#### Memory

- EEPROM: 512KBytes
- Flash memory: 8MBytes
- SDRAM: 64MBytes

#### Physical Interface

- RJ-45 10/100M Fast Ethernet port (IEEE 802.3/802.3u standard)
- Console port (RJ-45 with RS-232 interface, asynchronous serial DTE, no RTS/CTS hardware handshaking)
- Auxiliary port (RJ-45 with RS-232 interface, asynchronous serial DTE with full Modem controls)

#### Modular Slot

2 slots supporting WAN interface & voice cards

### Software

#### Link Layer Protocols Supported

- Frame relay
- X.25
- LAPB
- PPP
- PPPoE
- SLIP
- ISDN (PRI/BRI)
- LLC2
- SDLC
- DLSW-SSP
- VLAN (max. 300 VLANs)

#### Network Layer Protocols Supported

- ARP
- ARP Proxy
- DNS
- NAT
- IP Filtering
- ICMP
- IGMP
- DHCP client
- NHRP

#### Routing Protocols Supported

- Static routing
- Policy-base routing
- RIP v1, v2
- OSPF v1, v2
- BGP-4
- DDR
- IP Multicasting
- DVMRP
- PIM-DM
- PIM-SM

#### Security

- Authentication/Authorization
- Radius
- PAP
- CHAP
- TACAS+
- PPP callback

#### Firewall

- ACL
- NAT

#### VPN

- L2TP
- GRE
- PPTP \*
- IPSec

#### Quality of Service (QoS)

- FIFO
- PQ
- CQ
- CBWFQ
- WFQ
- RED
- WRED
- RTS
- RSVP

#### Network Reliability

- HSRP
- Port backup

#### Management

- SNMP v1, v2, v3
- RMON

- HP Open View
- Cisco View
- Cisco Works
- Telnet

#### Voice Application

- Voice over IP
- FAX over IP
- H.323
- G.729/G.729A/G.729B
- G.723.1/G.723.1A
- G.726
- G.727
- G.711
- Gatekeeper client
- Gatekeeper server
- T.38

### WAN/Voice Interface Cards

#### DRW-1CE1

- One-port channelized E1/ISDN PRI
- Connector: DB-15
- Max. bandwidth : 30B+D, up to 2Mbps
- Supports G.703 / G.704
- Protocols: X.25, Frame Relay, SLIP, PPP
- For installation in slot 2 only

#### DRW-1B-S/T

- One-port ISDN BRI S/T interface
- Connector: RJ-45
- Max. bandwidth : 2B+D, up to 128Kbps
- S/T interface, requires external NT-1
- Supports ITU I.430, Q.921, Q.931
- For installation in slot 2 only

#### DRW-1B-U

- One-port ISDN BRI (2B+D) U Interface
- Connector: RJ-45
- Max. bandwidth : 2B+D, up to 128Kbps
- U interface, requires no external NT-1
- Supports ITU I.430, Q.921, Q.931
- For installation in slot 2 only

#### DRW-1DTU

- One-port DDN Lease Line
- For installation in slot 2 only

#### DRW-1T

- One-port serial, async, and sync (up to 2Mbps)
- Connector: DB-60
- Max. bandwidth: up to 2Mbps
- Supports V.28, V.35
- Protocols: X.25, Frame Relay, SLIP, PPP

#### DRW-2T

- Two-port serial, async, and sync (up to 2Mbps)
- Connector: DB-60
- Max. bandwidth: up to 2Mbps
- Supports V.28, V.35
- Protocols: X.25, Frame Relay, SLIP, PPP

#### DRW-1E1T

- One-port Ethernet, one-port serial, async, and sync (<2Mbps)
- Connectors: DB-60, RJ-45
- Max. bandwidth: up to 2Mbps
- Supports V.28, V.35, IEEE802.3
- Protocols: X.25, Frame Relay, SLIP, PPP

#### DRW-1ETH

- One-port Ethernet
- Connector: RJ-45
- Max. bandwidth: 10 Mbps
- Supports IEEE 802.3

#### DRW-2ETH

- Two-port Ethernet
- Connector: RJ-45
- Max. bandwidth: 10 Mbps
- Supports IEEE 802.3

#### DRW-2FXS

- Two-port FXS
- Connector: RJ-11
- Foreign Exchange Station (FXS) interface connects directly to a standard telephones, fax machine or similar device and supplies ring, voltage, and dial tone
- FXS interface allows connections to basic telephone service equipment, key sets, and private branch exchanges (PBXes)

\* Function supported in next firmware version

# DI-1750

## Technical Specifications

## Multi-Service Access Router

### DRW-2FXO

- Two-port FXO
- Connector: RJ-11
- Foreign Exchange Office (FXO) allows direct analog connection at the PSTN's central office or to a station interface on a private branch exchange (PBX)
- FXO sits on the switch end of the connection, plugs directly into the line side of the switch so the switch thinks the FXO interface is a telephone

### DRW-2E&M

- Two-port E&M
- Connector: RJ-45
- Supports 2 and 4 wire, E&M signaling types I, II, III, V

### DRW-8ASY

- 8-ports asynchronous serial
- Connector: DB-68
- Max. bandwidth: 115.2Kbps
- Supports V.28, RS232-D
- Protocols: PPP, SLIP

## Accessories (Cables)

### DRC0001

- RJ-45 to 1x DB-25 (female) + 1 x DB-9 (female)
- For console port (default)

### DRC0011

- RJ-45 to 1x DB-25 (male) + 1 x DB-9 (male)
- For AUX port

### DRC1001

- DB-15 (male) to 2 x BNC
- For channelized E1/ISDN PRI

### DRC1101

- DB-15 (male) to 1 x RJ-45
- For channelized E1/ISDN PRI

### DRC2001

- DB-25 (female) to 1 x DB-25 (female)
- For V.28 DCE

### DRC3111

- DB-60 (male) to 1 x DB-25 (male)
- For V.28 DTE

### DRC3112

- DB-60 (male) to 2 x DB-25 (male)
- For V.28 DTE

### DRC3201

- DB-60 (male) to 1 x DB-34 (female)
- For V.35 DCE

### DRC3202

- DB-60 (male) to 2 x DB-34 (female)
- For V.35 DCE

### DRC3211

- DB-60 (male) to 1 x DB-34 (male)
- For V.35 DTE

### DRC3212

- DB-60 (male) to 2 x DB-34 (male)
- For V.35 DTE

### DRC3312

- DB-60 (male) to 1 x DB-34 (male) + 1 x DB-25 (male)
- For V.35 DTE and V.28 DTE

### DRC5018

- DB-68 (male) to 8 x DB-25 (male)
- For asynchronous serial port

### DRC5108

- DB-68 (male) to 8 x RJ-45
- For asynchronous serial port

## Physical & Environmental

### Dimensions

445 (L) x 310 (W) x 45 (H) mm

### Power Input

100 ~ 240 VAC, 47 ~ 63Hz

### Power Dissipation

Max. 50 Watts

### Operating Temperature

0° ~ 40°C

### Storage Temperature

-20° ~ 65°C

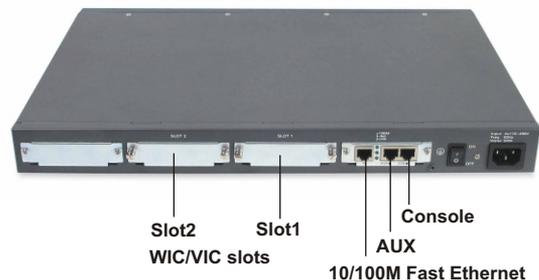
### Operating Humidity

10% ~ 85%, non-condensing

## Front Panel



## Real Panel



## Ordering Information

DI-1750

2-Slot Multi-Service Access Router

# D-Link®

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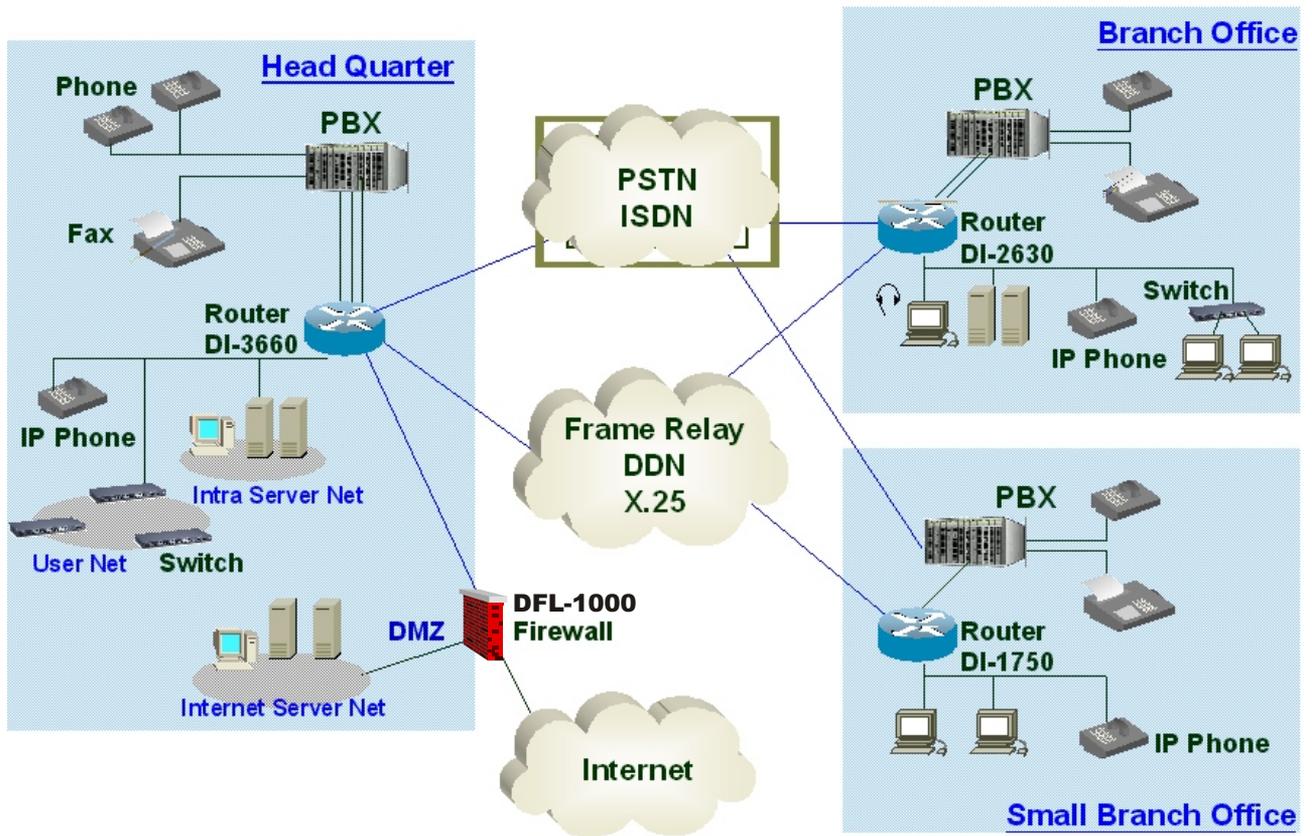


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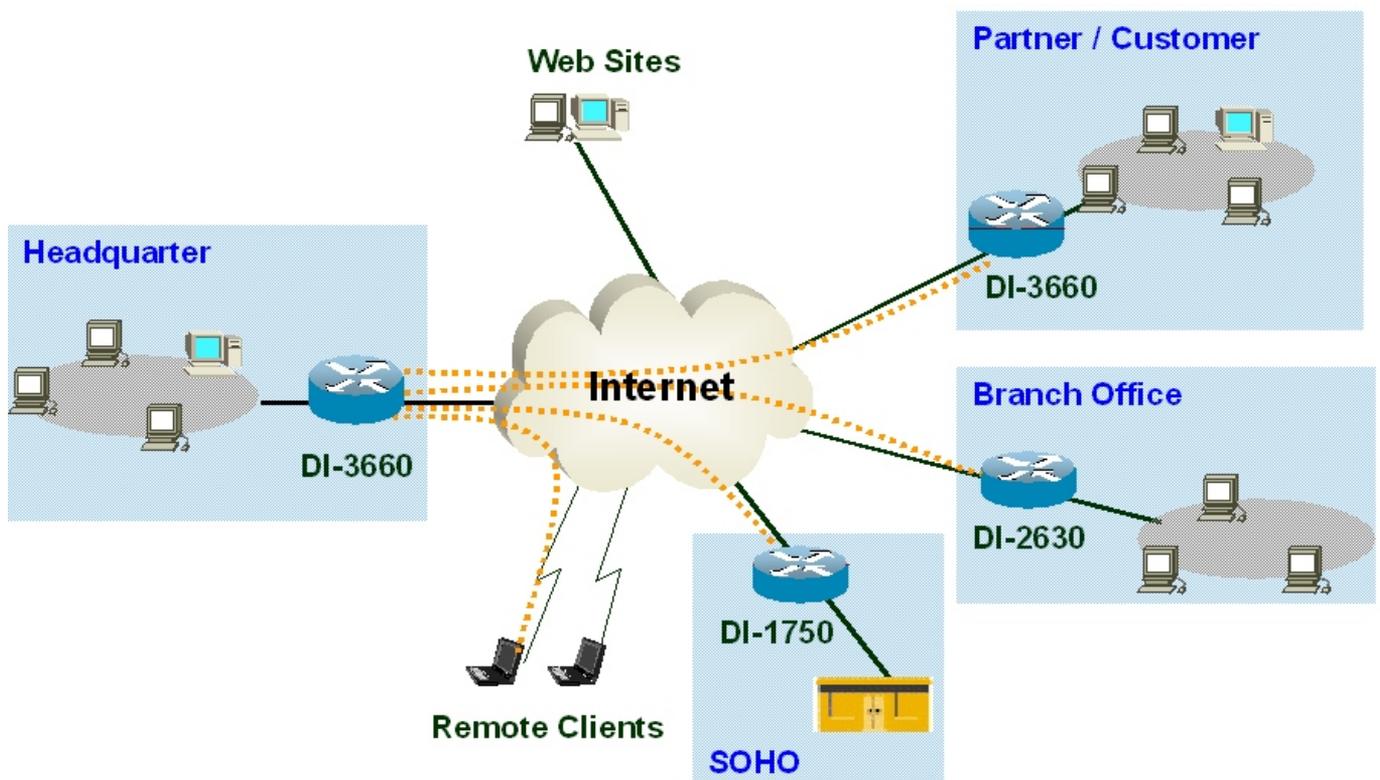
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# Multiservice Application



# VPN Application



## Dial Access Service

