

D-Link

DI-2000 Series Routers

User Manual

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D-Link[®]

Building Networks for People

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Chapter 1 Introduction of Function

1.1 Support a variety of protocols

1.1.1 Suitable for a variety of network environments

The DI-2000 series of routers is suitable for a variety of network environments.

The DI-2000 series complies with the requirement about routers in IETF RFC1812 and supports most network protocols: X.25, FR, synchronous/asynchronous PPP, SLIP, HDLC, Ethernet, IP, ICMP, TCP, UDP, OSPF, RIP(version 1&2) ,SNMP(version 1&2), TELNET, ARP, Inverse ARP,Z-MODEM. The DI-2000 series supports the interconnection of X.25 network, Frame Relay, DDN, telephone network and LAN, and is operational with software and hardware network equipment provided by other makers. The series include three types:

The DI-2004 has two synchronous ports.

The DI-2006 is the ISDN router.

1.1.2 Support the Ethernet Protocol and ARP protocol

Provides interfaces of TP(twisted pair) RJ45 interface and thicknet AUI interface, and support the Ethernet Protocol and ARP protocol.

1.1.3 Variety of WAN protocols

Supports a variety of WAN protocols, including X.25, Frame Relay, HDLC, PPP and SLIP.

1. X.25

The x.25 protocol defines remote access and computer communication between data terminal equipment (DTE) and data circuit-terminating equipment (DCE). Among that, it mostly defines the lowest three layers of the OSI reference model: physical, data-link, network. The DI-2000 series complies with ITU-T 1988 X.25 and provides the following functions:

- LAPB provides reliable transfer of data between DCE and DTE.
- X.25 supports switched virtual circuits (SVCs) and permanent virtual circuits (PVCs). It establishes the simultaneous connection with more than one terminal device with X.121 address and PVC number.
- Supports interconnection with the public packet-switching network, and direct connection with router devices and network cards.

- Supports the encapsulation of the upper protocols on X.25, such as IP.
- Supports switching between SVCs or PVCs of each synchronous port. The DI-2000 series can be as X.25 small packet switches, also can connect multiple X.25 devices through a special line connected with the public packet switching network.
- Supports X.32. The series can connect with the public packet switching network by synchronous dialing.
- Provides the packet assembler/disassembler (PAD) function. The series complies with ITU-T X.3,X.28 and X.29, and can offer X.25 access service for non-X.25 terminal.
- Supports all X.25 optional businesses.
- Supports the IP access over X.28.

2. Frame Relay Protocol

Frame Relay protocol is a fast packet switching technology to improve data volume by simplifying the data-link layer and network layer. The DI-DI-2000 series mostly provides the following functions:

- Supports three types of general Frame Relay local management interface(LMI), including ITU-T Q.933 Annex A, ANSI T1.617 Annex D and Group of Four Frame Relay interface standard.
- Supports two general frame encapsulation formats, including ITU-T Q.922 Annex A and ANSI T1.618.
- Supports the interconnection with the Frame Relay backbone network and direct connection with router devices and network cards.
- Supports the encapsulation of the upper protocols in Frame Relay, such as IP. The series complies with RFC1294 and RFC 1490, and can identify the special encapsulation format of Cisco routers.
- Supports Inverse ARP described in RFC1293 and allow to detect the IP address map of virtual circuit dynamically.
- Supports congestion control and comply with ITU-T I.370 and ITU-T Q.922 Appendix I. The series can increase or decrease data volume over ports according to network congestion status.
- Support Frame Relay switching between each synchronous port on the data-link layer as Frame Relay switches. The series can also connect multiple FR devices through a special line connected with a Frame Relay backbone network.

3. PPP protocol

PPP protocol provides multi-protocol transmit of data-packet on the point to point link. The DI-2000 series have the following functions:

- Complies with RFC1661 and supports link control protocol(LCP) to establish, configure and test data link.

- Complies with RFC1662 , supports the encapsulation of IP and other upper protocols above PPP and realizes IPCP in network control protocols(NCPs).
- Complies with RFC1334, and supports two general authentication protocols, including PAP and CHAP.
- Complies with RFC1144, and supports TCP/IP header compression to improve effective data volume.
- Provides wide option control to suit conditions as much as possible. The series supports interconnection to all network devices and hosts on PPP protocol.
- Supports synchronous and asynchronous PPP protocol.
- Supports the callback feature to provide higher security.
- Supports the radius protocol, including user Authentication, Authorization and Accounting when the routers are as dialing servers. User information is stored in a host computer which communicates with routers on RADIUS protocol.

4. SLIP protocol

SLIP protocol is a packet-framing protocol. It defines a sequence of characters that frame IP packets on a serial line. It is used for point-to-point serial connections running TCP/IP.

SLIP complies with RFC1055 and TCP/IP header compression in RFC1144. It supports interconnection with all network devices and hosts on SLIP protocol.

5. HDLC protocol

HDLC is a packet-framing protocol. It defines a link encapsulation of IP packet on a synchronous line. It is used for point-to-point serial connections running TCP/IP.

HDLC is commonly used in DDN lines. It possesses simple and efficient features.

1.1.4 TCP/IP protocols on the network layer

Supports TCP/IP protocols on the network layer, and realize IP, ICMP, TCP, UDP and other protocols.

Realizing IP protocol complies with RFC791. The series supports all IP options, and static routing and dynamic routing seeking address.

Realizing ICMP complies with RFC792 and RFC950.

Realizing TCP complies with RFC793 to provide a reliable transmit of data connection mechanism.

Realizing UDP complies with RFC768 to provide an unreliable data transmission connection mechanism.

1.1.5 multiple dynamic routing protocols on IP

Supports multiple dynamic routing protocols on IP.

The series supports the **Open Shortest Path First** (OSPF) protocol and dynamic routing protocol (version 1 & 2). The series achieves own BGP protocol in order to connect with EIGRP of Cisco.

OSPF is an interior gateway protocol, used in the interior autonomous system to realize a dynamic self-adjustment. With little bandwidth occupied. Realizing OSPF complies with RFC1583.

RIP is also an interior gateway protocol. It belongs to distance-vector arithmetic seeking-address protocol. Version 1 complies with RFC1058, and version 2 complies with RFC1721, RFC1722 and RFC1723, supporting triggering update and "split horizon with poison reverse" to speed the convergent process.

1.1.6 the network management protocol SNMP version1 & 2

Supports the network management protocol SNMP version1 & 2

SNMP(Simple Network Management Protocol) is the most widely used network management protocol. Version 1 complies with RFC1157and RFC1213. Version 2 complies with RFC1904, RFC1905, RFC1906, RFC1907 and RFC1908, and supports multiple MIBs related with protocol modules.

1.1.7 TELNET

Supports TELNET.

TELNET is a remote login protocol. It allows programs in local devices to access resources in remote devices and deploy routers remotely. It complies with RFC854 and RFC855.

1.1.8 asynchronous transfer of file protocol Z-MODEM

Supports the asynchronous transfer of file protocol Z-MODEM.

The protocol is used for deploying download and upload of files, and downloading routers' software Updates.

1.1.9 NAT

Supports NAT.

NAT(Network Address Translation) means network IP address translation. NAT is designed to solve increasing lack of IP, mapping multiple interior addresses to a few or even one public Internet address. At the same time, it helps hide the interior network structure to improve security.

1.2 Friendly User Interface

The DI-2000 series provides interfaces in English and Chinese with clear deployment, each command of which is provided with the online help in English and Chinese.

The manual provides each command with details and examples in Chinese along with complete malfunction analysis description.

1.3 Strong Backup Capability

The DI-2000 series of routers supports dynamic routing protocols to achieve automatic backup. These solutions are generally designed to run the dynamic routing protocol in the master line. When the master line disconnects, the routers switches to backup lines automatically because of receiving nothing of routing information.

The above solution adds system load, so the DI-2000 series also supports dynamic transmission according to demand, which doesn't run the dynamic routing protocol with the master routing effective until the routers switch to backup lines.

To further save communication spending, the DI-2000 series can detect the connection status of the master line automatically through static routing to achieve automatic switching between the master line and the backup lines.

1.4 Perfect Detection and Management Tools

Each communication protocol support multiple different-level trace functions with complete real-time network trace information to help to analyze reasons of network malfunctions.

Classified statistic and status information help to know performance and operating status of networks clearly.

Support Simple Network Management Protocol(SNMP) with a variety of network management applications (such as OpenView) monitoring routers.

1.4.1 Supports multiple login deployment methods:

- Deploys on Console ports
- Logins and deploys on Serial ports

- Logins and deploys through TELNET
- Logins and deploys through PAD(X.29)
- Logins and deploys through remote dialing

1.4.2 Supports saving current deployment

It can be used in similar deployment to network deployment, and save malfunction spots to help support the engineer to discover and solve malfunctions.

1.5 Complete Security

The series adopts a perfect firewall and IP packet-filtering technology to check network address, ports, or protocol types strictly.

The series achieves PAP and CHAP on PPP, and also achieves callback capability, which improves secure reliability while communicating.

The series sets multi-level check of password capability ensures security of router deployment.

1.6 Integration of Switching and Routing

The series can also be small packet-switching switches with switch capability when synchronous ports are deployed on X.25. Then, on the same router both routing and switching capability are achieved, which offer more strong capability and protect former investment in X.25.

The routers have switch capability when synchronous ports are deployed on FR protocol. Then, the routers support the Frame Relay switch of each synchronous port on the data link layer as the Frame Relay switches. The routers can connect multiple FR devices through a special line connecting to the Frame Relay backbone network.

1.7 Convenient Update

- (1) Supports asynchronous transfer of files protocol Z-MODEM

The series supports downloading updated versions of all operational systems supporting Z-MODEM protocol(such as Windows 95, Windows NT, UNIX and DOS) through Console ports or synchronous ports.

- (2) The series supports downloading software updates on X.25 through each synchronous port.

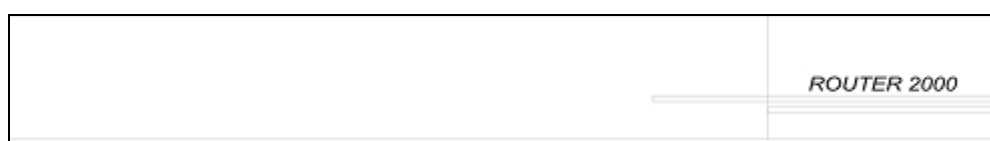
- (3) Supports downloading new software versions from the servers.

Chapter 2 Introduction of the DI-2004 router

2.1 Exterior Specification of the DI-2004 Router

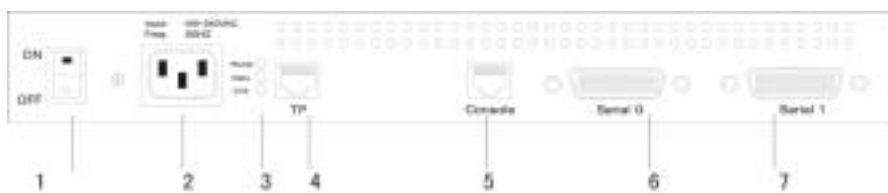
2.1.1 Appearance of the router

1. The indicator distribution and specification of the front panel



Figuer 2-1 Front Panel of the DI-2004

2. The specification of the rear panel



Figuer 2-2 Interface Distribution on Rear Panel of the DI-DI-2004

Switches and interfaces on the rear panel of the DI-2004 are shown in Figuer 2-2. The specific meanings are in the following Table 2-1.

Table 2-1 Component Functions on Rear Panel of the DI-DI-2004

Number	Symbol	Name	Comment
1		Power Switch	Push-up is on, and push-down is off
2		AC plug	
3	Power Data Link	Indicator	From the top down, they are the power indicator, the Ethernet data transfer indicator and the Ethernet twisted-pair(TP) link interface indicator.
4	TP	Ethernet TP port	Connect LAN(Ethernet) through the port with TP
5	Console	Console Port	Connect to terminals through the port to monitor and deploy routers; the used line is the special Console cable, and you can see connection specification in Charter 2.3 "Port Connection Specification".

6	Serial 0	Serial port 0	Connect to synchronous or asynchronous Modem. The used line is the special monitoring cable, and you can see connection specification in Charter 2.3 "Ports Connection Specification".
7	Serial 1	Serial port 1	Connect to synchronous or asynchronous Modem. The used line is the special monitoring cable, and you can see connection specification in Charter 2.3 "Port Connection Specification".

2.2 Hardware Technical Specifications

Table 2-2 Hardware Technical Specifications of the DI-2004 Router

Port Features	Serial port	Port amount	2 ports
		The physical layer protocols	V.24/V.28; RS232-D X.21bis; V.35 ; RS422/RS449 ;
		Port rate	Synchronization: RS-232 with a maximum speed of 64Kbps; V.35 with a maximum speed of 2Mbps; asynchronism:a maximum speed of 115Kbps.
		Port protocols	X.25 , X.32 , FR , HDLC、SLIP , PPP , ZMODEM*
		Physical interface	high density jack with 44 pins and 3 rows
	Ethernet port	Port amount	1
		Port Rate	10Mbps
		Port protocols	The Ethernet protocol(IEEE 802.3)
		Physical interface	TP port : RJ45
	Console port	Port number	1
		Physical layer protocols	V.24/V.28; RS232-D; X.21bis
		Port rate	9600bps
		Port protocol	ZMODEM*
Physical interface		RJ45	

CPU		Motorola MC68EN360 33MHz
Memory	EPROM	256Kbyte
	Flesh Memory	1-2Mbyte
	DRAM	8Mbyte
Dimensions		341mm×248mm

Operating temperature	0 to 40
Nonoperating temperature	-20 to 65
Operating relative humidity	10% to 85% noncondensing
Nonoperating relative humidity	5% to 95% noncondensing
Power	Input voltage : 170 to 264 V ;input frequency :47 to 63Hz ; input current: 0.2A/230V
Power dissipation	28W

Notice :

Protocols with * are supported only in system Console status.

2.3 Port Connection Specification

The DI-2004 router has two serial ports and one Ethernet port.

2.3.1 PIN description of each port on the DI-2004

1. The Serial Ports of the DI-2004 Router

The DI-2004 router has two serial ports. The jacks are three rows, 44 pins and high density. The ports have the same PIN description. They can be deployed to be synchronous or asynchronous methods, so they can connect to synchronous MODEM(such as TAINET T-1496) or asynchronous MODEM(such as 3Com USR) for entering special network. For synchronous method, the DI-2004 router also support the physical protocol of V.35, capable of connecting to baseband MODEM(such as ASCOM AM64000A) with a maximum speed of 2Mbps to achieve the high-speed access goal.

PIN Description of Serial Ports on the DI-2004 is shown as the following table:(PIN in the table and figure is signed on corresponding location of the jack)

Table 2-3 PIN Description of Serial Ports

PIN	Name	Symbol	Comment
1	Receive Clock	RCLK	Used for choosing V.28 or v.35
2	Transmit Clock	TCLK	Used for choosing V.28 or v.35
3	Transmit Data	J_TXD	DTE→DCE; used for V.28
4	Receive Data	J_RXD	DTE←DCE; used for V.28
5	Output Clock	CLK232	DTE→DCE; used for V.28
6	Data Set Ready	J_DSR	DTE←DCE; used for both V.28 and V.35
7	Clear To Send	J_CTS	DTE←DCE; used for both V.28 and V.35
8	Transmit Clock (negative)	TXC-	DTE←DCE; used for V.35
10	Receive Clock(negative)	RXC-	DTE←DCE; used for V.35

11	External Receive Data	RXDB	Used for selecting V.35
13	Express Clock Output within A group (negative)	ECLKA-	DTE→DCE; used for V.35
14	Express Clock Output within B group (positive)	ECLKB+	DTE→DCE; used for V.35
16	External Receive Clock	RXCA	Used for selecting V.28
17	External Transmit Clock	TXCA	Used for selecting V.28
18	Internal Receive Data	RXD	Used for selecting V.28 or V.35
21	Carrier Detect	J_CD	DTE←DCE; used for both V.28 and V.35
22	Request To Send	J_RTS	DTE→DCE; used for both V.28 and V.35
23	Transmit Clock (positive)	TXC+	DTE←DCE; used for V.35
24	Receive Clock	RXCB	Used for selecting V.35
26	Receive Data (positive)	RXD+	DTE←DCE; used for V.35
27	Express Clock Output within A group (positive)	ECLKA+	DTE→DCE; used for V.35
29	Express Clock Output within B group (negative)	ECLKB-	DTE→DCE; used for V.35
30	Transmit Data	TXD-	DTE→DCE; used for V.35
31	Receive Clock	J_RXC	DTE←DCE; used for V.28
32	Transmit Clock	J_TXC	DTE←DCE; used for V.28
33	Receive Data	RXDA	Used for selecting V.28
35	Data Terminal Ready	J_DTR	DTE→DCE; used for both V.28 and V.35
36	Signal Ground	SG	Public signal ground of DTE and DCE
37	Transmit Clock	TXCB	Used for selecting V.35
39	Receive Clock (positive)	RXC+	DTE←DCE; used for V.35
41	Receive Data (negative)	RXD-	DTE←DCE; used for V.35
44	Transmit Data (positive)	TXD+	DTE→DCE; used for V.35

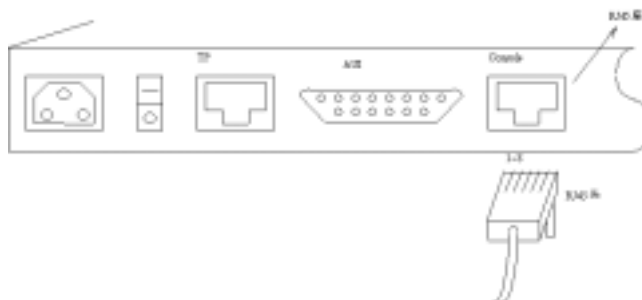
Notice :

Other idle PINs should be connected to Signal Ground.

2. The Console port

The DI-2004 router has a Console port with the RJ45 jack. The port is connected to terminals (such as STAR-510G⁺) or serial ports of PC with the special Console cable, then terminal emulate software can be used to deploy and monitor the DI-2004 router.

Console PIN distribution is shown as:



Figuer 2-3 Pin distribution of RJ45

RJ45 plug and RJ45 jack is corresponding according to the ordinal number of 1 to 8 from the left to the right.

PIN description is shown in the following table.

Table 2-4 PIN Description of Console Port

PIN	Name	Symbol	Comment
1	Carrier Detect	CD	Used for connection to MODEM
2	Receive Data	RXD	Input
3	Data Set Ready	DSR	Used for connection to MODEM
4	Transmit Data	TXD	Output
5	Request To Send	RTS	Used for connection to MODEM
7	Data Terminal Ready	DTR	Used for connection to MODEM
8	Signal Ground	SG	

3. Ethernet port

The Ethernet port of the DI-2004 router offers two physical interfaces:

AUI(Attachment Unit Interface) and TP interface(twisted-pair interface). While used, the router can connect to HUB from TP interface through the twisted-pair cable, or the router can connect to HUB, thin cable or thick cable from AUI through a special switch box. PIN number order of TP interface is the same to Console port. Its distribution is as Figuer 2-3.

Pin description of TP interface(twisted-pair interface) is shown as the following table.

Table 2-5 Pin description of TP Interface

PIN	Name	Symbol	Comment
1	Transmit Data(positive)	TPTXD+	Output
2	Transmit data (negative)	TPTXD-	Output
3	Receive Data (positive)	TPRXD+	Input
4	Receive Data (negative)	TPRXD-	Input

PIN Description of AUI Interface is shown as the following Table 2-6.

Table 2-6 Pin Description of AUI Interface

PIN	Name	Symbol	Comment
2	Collision Detect (positive)	ACX+	Input
3	Send Data(positive)	ATXD+	Output
5	Receive Data(positive)	ARXD+	Input
9	Collision Detect(negative)	ACX-	Input
10	Transmit Data(negative)	ATXD-	Output
12	Receive Data(negative)	ARXD-	Input
13	Input positive 12V power PIN	+12V	Output

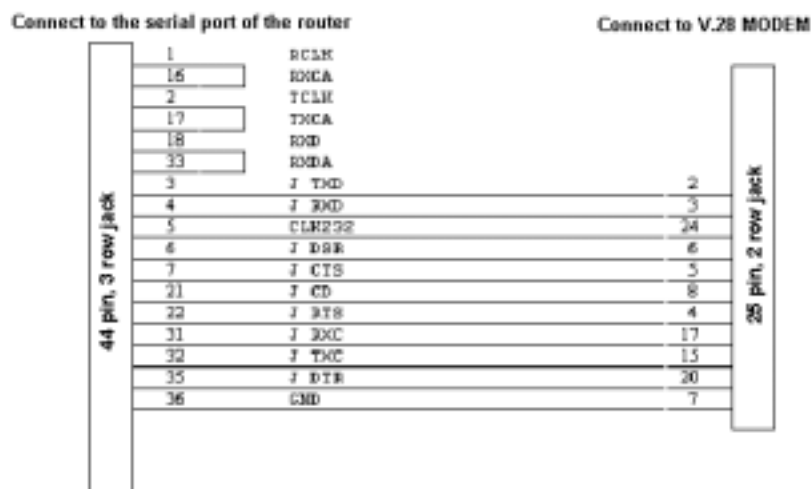
Notice

Other PINs are connected to Signal Ground.

2.3.2 External connection Specification of Ports

1. External connection Specification of Serial port

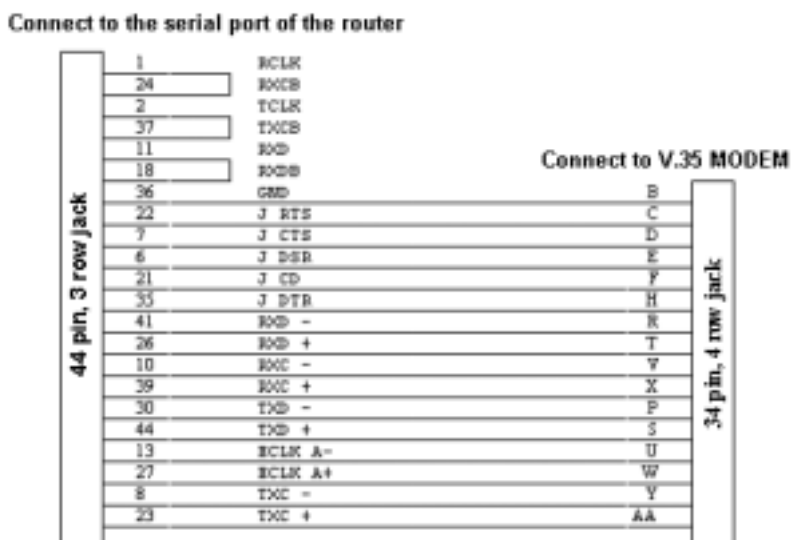
The router is connected to synchronous MODEM, asynchronous MODEM or baseband MODEM supporting the physical protocol of V.28 protocol(or RS232 protocol) according to Figuer 2-4.



Figuer 2-4 V.28 MODEM cable

When the serial port is connected to baseband MODEM supporting the physical protocol of V.35, the connection figure is shown as Figuer 2-4.

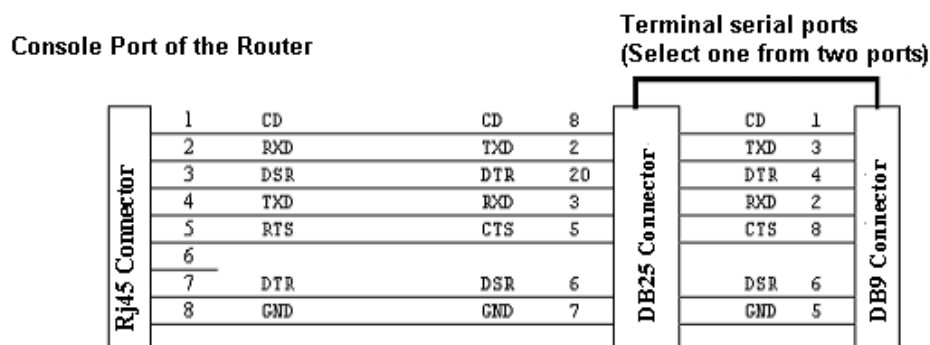
The serial number of V.35 MODEM cable is DRC4211.



Figuer 2-5 V.35 MODEM cable

2. Extenal connection Specification of Console port

The cable connects the Console port of DI-2004 and external terminal Console devices. One end is a 8 pin jack, and the other is a 25 aperture connector(DB25) and a 9 aperture connector(DB9). The RJ45 connector is plugged into the Console port of the router, and among DB25 and DB9, one should be selected according to the requirement of the terminal serial port. The internal connection of the cable is shown as the following figure. The serial number of the Console cable is DRC0001.

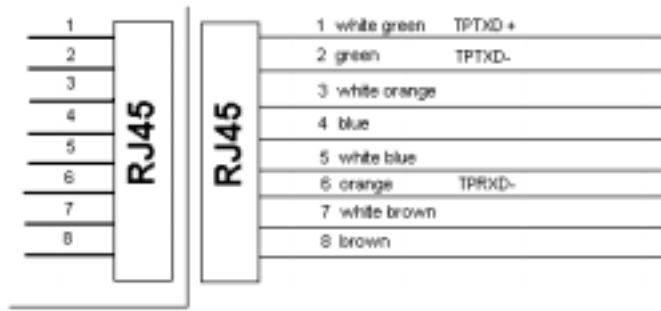


Figuer 2-6 Console Cable Connection

3. External Connection Specification of AUI and TP interface

AUI port is also called thick Ethernet interface, through which the router can connect to the thick cable with AUI cable, or connect to the thin cable or TP interface through the special switch box.

TP port can connect five general types of twisted pair to HUB. Connect as shown below:



Figuer 2-7 Ethernet TP Straight Cable Connection

Chapter 3 Introduction of the DI-2006 Router

3.1 Overview

The DI-2006 has a multi-protocol synchronous, asynchronous serial port and a ISDN BRI port. Besides that, the router has a 10M Ethernet port(thick cable or thin cable interface), with which business LANs can connect to Internet or DDN through ISDN, PSTN, DDN, Frame Relay and X.25.

3.1.1 ISDN BRI interface

D channel: Call Control Signaling and DSS1(Digital Subscriber Signaling System)(Q.921 , Q.931) comply with Chinese national standard and European standard(ETSI).

B channel: support PPP(including PAP and CHAP secure identification and supporting PPP compression), Frame Relay, and X.25.

3.1.2 WAN interface

Physical interface: V.24/V.28、 V.35

Synchronous rate: 2Mbps

Asynchronous rate: 115Kbps

Supporting protocols: X.25, X.32, Frame Relay, SLIP and PPP

3.1.3 Ethernet port

Physical interface: V.24/V.28 and V.35

Rate: 10 Mbps

Supporting protocols: V.24/V.28 and V.35

3.1.4 Console port

Physical Interface: RJ45, and (EIA-RS232C)

Rate: 9600bps

Supporting Protocols: Z-Modem

3.1.5 Processor

Motorola 68EN360@33Mhz

3.1.6 Memory

EPROM: 256KByte

FLASH RAM: 2Mbyte. It can be enlarged to Mbyte.

DRAM: 8MByte

3.1.7 Features

The router supports multiple network protocols with strong function.

The application layer: TELNET, X.29 and TFTP

The transport and network layers: TCP, UDP, IP, ICMP, ARP and NAT

The data link layer: SLIP, PPP, X25, Frame Relay, HDLC and ETHERNET

Dynamic routing: RIP1, RIP2 and OSPF

Network management protocol: SNMP v1&v2

ISDN : Supports Q.921 , Q.931, Chinese national standard and European standard (ETSI).

Support ten types switches from North America, Europe, Australia and Japan.

The router can realize backup by completely using static routing through our unique E-BACKUP technology in order to improve communication efficiency, decrease communication cost and switch automatically.

The router supports multi-level user permission and remote user identification to prevent unauthorized users' attack on routers and networks;

The router supports firewall function based on packet filtering and ACL technology to filter data packet passing routers.

The router supports NAT function of hiding internal network structure to improve network security.

The power consumes less than 50W.

3.2 Exterior Specification of the DI-2006

3.2.1 Exterior Specification

1. The Front Panel of the DI-2006



Figure 3-1 The Front Panel of the DI-2006

2. The Rear Panel of the DI-2006



Figure 3-2 Rear Panel Interface Distribution of the DI-2006

Switches and interfaces on the rear panel of the DI-2006 are shown as Figure 3-2 meanings of which are shown as Table 3-1.

Table 3-1 The rear panel specification of the DI-2006

Number	Symbol	Name	Comment
1		Power Switch	Push-up is on, and push-down is off
2		AC Plug	
3	Power Data Link	Indicator	From the top down, they are the power indicator, the Ethernet data transfer indicator and the Ethernet twisted-pair link interface indicator.
4	TP	Ethernet Interface	Connect LAN(Ethernet) through the port with TP
5	Console	Console Port	Connect to terminals through the port to monitor and deploy routers; the used line is the special Console cable, and you can see connection specification in Chapter 2.3 "Ports Connection".
6	Serial 0	Serial Port 0	Connect to synchronous or asynchronous Modem. The used line is the special monitoring cable, and you can see connection specification in Chapter 2.3 "Ports Connection Specification".

7	BRI S/T	ISDN BRI S/T interface	Connect to S/T interface(RJ45) of ISDN network terminal(NT1) through the port
8	ACTIVE	ISDN BRI S/T interface is active	When the line is enabled and D channel is active, the indicator will glint.
9	TR	Selective switches of 100Ω terminal resistance	TR should be set as ON under point-to-point communication. TR of two general bus terminal should be set as ON under general bus communication , while other DI-2006 routers should be set as OFF.

3.3 Port Connection Specification

3.3.1 PIN Specification of Ports

The DI-2006 router has a serial port, a Ethernet port and a ISDN S/T interface. PIN description of each port is as follows:

1. Serial ports

The DI-2006 router has one serial port. The jacks are three rows, 44 pins and high density. They can be deployed to be synchronous or asynchronous methods, so they can connect to synchronous MODEM(such as TAINET T-1496) or asynchronous MODEM(such as 3Com USR) for entering special networks. For synchronous method, the DI-2004 router also support the physical protocol of V.35, capable of connecting to baseband MODEM(such as ASCOM AM64000A) with a maximum speed of 2Mbps to achieve the high-speed access goal.

PIN description of serial ports on the DI-2006 is shown as Table 3-1:(PIN in the table and figure is signed in corresponding location of the jack)

2. The Console port

The DI-2006 router has a Console port with the standard RJ45 jack. The port is connected to terminals(such as STAR-510G⁺) or serial ports of PC with the special Console cable, then terminal emulate software can be used to deploy and monitor the DI-2006 router.

Pin description is shown as Figure 2-3.

3. Ethernet port

The Ethernet port of the DI-2006 router offers two physical interfaces:

AUI(Attachment Unit Interface) and TP interface(twisted-pair interface). While used, the router can connect to HUB from TP interface through twisted-pair cable, or the router can connect to HUB, thin cable or thick cable from AUI through a special switch box. Pin number order of TP interface is the same to Console port. Its distribution is shown as Figure 1-2-3.

Pin description of TP interface(twisted-pair interface) is shown as Table 2-5.

Pin description of AUI(Attachment Unit Interface) is shown as Table 2-6.

4. ISDN S/T Interface of the DI-2006 router

Table 3-2 PIN description of ISDN S/T Interface(RJ45 interface) is as shown below:

PIN	Name	Symbol	Comment
3	Transmit Data (positive)	TXD+	Output
4	Receive Data(positive)	RXD+	Input
5	Receive Data(Negative)	RXD-	Input
6	Transmit Data(Negative)	TXD-	Output

3.3.2 External connection Specification of Serial Ports on the DI-2006

1. External Connection Specification of Serial port on the DI-2006

The router is connected to synchronous MODEM, asynchronous MODEM or baseband MODEM supporting the physical protocol of V.28 protocol(or RS232 protocol) according to Figuer 2-4.

When the serial port is connected to baseband MODEM supporting the physical protocol of V.35, the connection figure is as Figuer 2-5.

The serial number of V.35 MODEM cable is DRC4211.

2. External Connection Specification of Console port on the DI-2006

The cable connects the Console port of DI-2006 and external terminal Console devices. One end is a 8 pin jack, and the other is a 25 aperture connector(DB25) and a 9 aperture connector(DB9). The RJ45 connector is plugged into the Console port of the router, and among DB25 and DB9, one should be selected according to the requirement of the terminal serial port. The internal connection of the cable is shown as Figuer 2-6. The serial number of the Console cable is DRC0001.

3. External Connection Specification of AUI and TP interface on the DI-2006

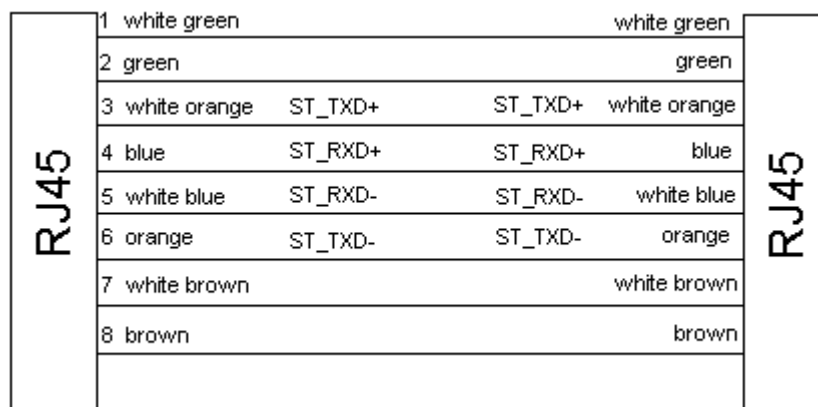
AUI port is also called thick Ethernet interface, which can connect to the thick cable with AUI cable. AUI port can also connect to the thin cable, or TP interface, the Ethernet RJ45 port, through the special switch box.

TP port can connect general five types of twisted pair to HUB. Connect as shown in Figuer 2-7:

4. External Connection Specification of ISDN S/T Interface on the DI-2006

With straight RJ45 line, network terminal NT1 connects to ISDN BR1 S/T interface.

Straight RJ45 Line is shown as the following figure:



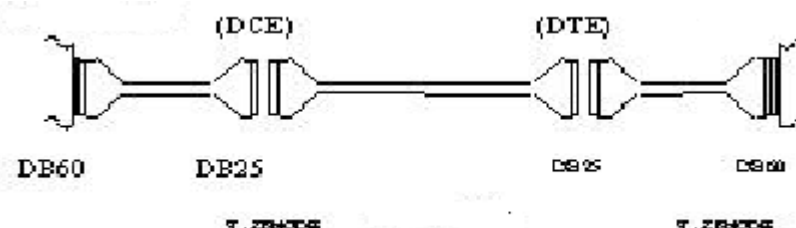
Figer 3-3 Straight RJ45 Line

5. Cross Cable Connection Specification for Debugging

- (1) cross cable on the Serial port

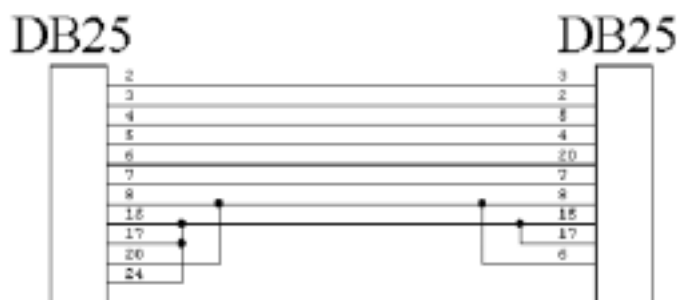
Under certain conditions, two serial ports of a DI-2000 series of router needs to be crossed, or two DI-2000 series of routers connect back on the back according to the following connection methods.

Select V.28 (RS-232)method on the port as shown below:



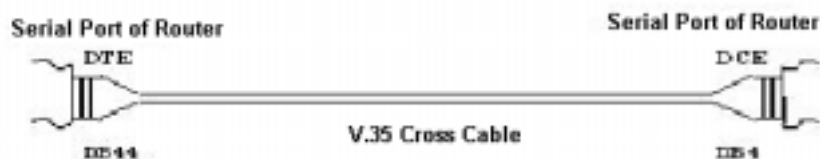
Figer 3-4 V.28 Cross Cable Usage

V.28 cross cable connection is show as Figure 1-3-5.



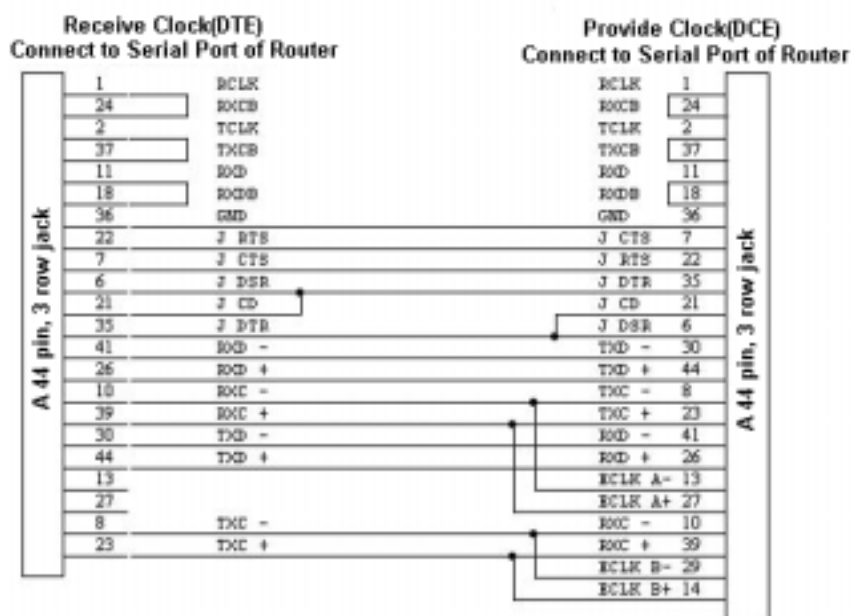
Figer 3-5 V.28 Cross Cable Connection

Use V.35 method as Figuer 3-6.



Figuer 3-6 V.35 Cross Cable Usage

V.28 cross cable connection is shown asFiguer 3-7.



Figuer 3-7 V.35 Cross Cable Connection

(2) Cross Cable on the Ethernet Port

Two DI-2000 series of routers can be across interconnected with TP cross cable or AUI cross cable. TP cross cable can be used on straight connection of a router and the TP interface of a single host LAN card. Such, a HUB can be saved in a LAN. But a HUB is necessary when more than two Ethernet TP ports are interconnected.

Connect two Ethernet ports(TP ports) with the TP cross cable.

TP cross cable connection is shown as Figure 1-3-8.

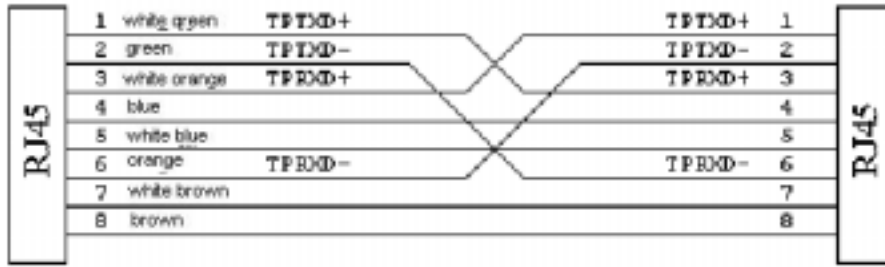


Figure 3-8 Ethernet TP Cross Cable Connection

Connect two Ethernet Ports (thicknet ports) with AUI cross cable
 AUI cross cable connection is shown as Figure 3-9.

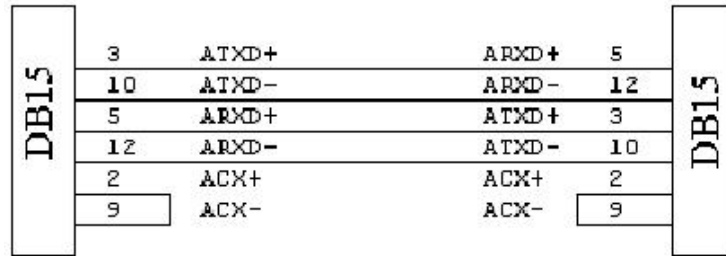
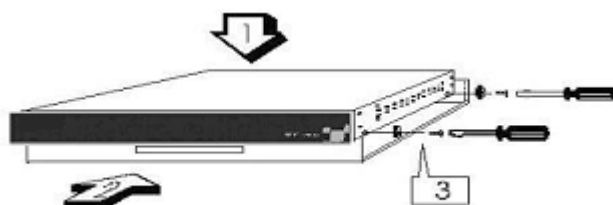


Figure 3-9 Ethernet AUI Cross Cable Connection

Chapter 4 Installation of the Routers

4.1 Installation Specification



Figuer 4-1 Installation Figure of the DI-2000 Series

Installation steps of the DI-2000 is shown as numbers of Figuer 4-1.

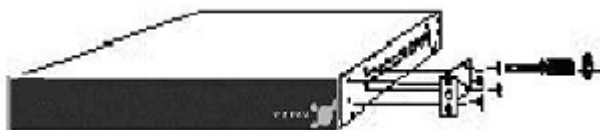
- (1) Install the upper panel from the top down. Ensure mesh between teeth of frames and edges of the nether panel .
- (2) Push the upper panel from the front back and ensure mesh between the back edge of the upper panel and the upper edge of the nether panel.
- (3) Fix screws on the nether edge of the two sides on the upper panel. in the figure only shows the right side, the same to the left.

Notice:

Danger! Within the router, there is dangerous voltage harmful to people. Don't open the panel except maintenance organizations authorized by company. Or else, all serious results should be assumed by self.

4.2 Mount the Routers in a Standard Rack

There are two methods to attach brackets to the DI-2000 Series of routers as shown in Figuer 4-2 and Figuer 4-3 For the first method, first use screws to fix brackets on the two sides of the DI-2000 Series with the front panel forward (Figuer 4-2 only shows the right attachment, the same to the left). Then attach brackets to the rack according to Figuer 4-4.. For the second mounting method, use screws to fix brackets on the two sides of the DI-2000 Series with the rear panel forward (Figuer 4-3 only shows the right attachment, the same to the left). Then attach brackets to the rack according to Figuer 4-4.



Figuer 4-2 The First Attaching-Brackets Method



Figure 4-3 The Second Attaching-Brackets Method

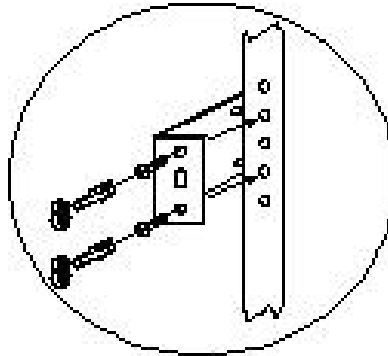


Figure 4-4 Attaching Brackets to the Rack

Notice:

Please notice the following points when using the DI-2000 series:

- 1) As other electronic devices, Starting and turning off the power fast and frequently does harm to semiconductor chips; when needing to restart the DI-2000 series of routers, please turn on the power again after an interval of 3 to 5 seconds from turning off the power.

Please try to use the "reboot" command to restart the routers.

- 2) Please don't bump the routers or make the DI-2000 series fall from high. Such operations may harm the internal hardware of the routers.
- 3) Please connect to the DI-2000 series with correct exterior connection ports. Don't plug the telephone plug(RJ11, a 4-line plug) into the Ethernet TP port or Console port. Ethernet TP jack can't be plugged into the Console port(RJ45, a 8-line jack). And the Console port cable can't be plugged into the Ethernet TP port(RJ45, a 8-line jack). The above and other mistaken operations may harm internal components of the port.

Warranty and Registration Information

(All countries and regions excluding USA)

Wichtige Sicherheitshinweise

1. Bitte lesen Sie sich diese Hinweise sorgfältig durch.
2. Heben Sie diese Anleitung für den spätern Gebrauch auf.
3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie keine Flüssig- oder Aerosolreiniger. Am besten dient ein angefeuchtetes Tuch zur Reinigung.
4. Um eine Beschädigung des Gerätes zu vermeiden sollten Sie nur Zubehörteile verwenden, die vom Hersteller zugelassen sind.
5. Das Gerät ist vor Feuchtigkeit zu schützen.
6. Bei der Aufstellung des Gerätes ist auf sichern Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen. Verwenden Sie nur sichere Standorte und beachten Sie die Aufstellhinweise des Herstellers.
7. Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor Überhitzung schützt. Sorgen Sie dafür, daß diese Öffnungen nicht abgedeckt werden.
8. Beachten Sie beim Anschluß an das Stromnetz die Anschlußwerte.
9. Die Netzanschlußsteckdose muß aus Gründen der elektrischen Sicherheit einen Schutzleiterkontakt haben.
10. Verlegen Sie die Netzanschlußleitung so, daß niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden.
11. Alle Hinweise und Warnungen die sich am Geräten befinden sind zu beachten.
12. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
13. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. Elektrischen Schlag auslösen.
14. Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von autorisiertem Servicepersonal geöffnet werden.
15. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz zu trennen und von einer qualifizierten Servicestelle zu überprüfen:
 - a. Netzkabel oder Netzstecker sind beschädigt.
 - b. Flüssigkeit ist in das Gerät eingedrungen.
 - c. Das Gerät war Feuchtigkeit ausgesetzt.
 - d. Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen.
 - e. Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
 - f. Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
16. Bei Reparaturen dürfen nur Originalersatzteile bzw. den Originalteilen entsprechende Teile verwendet werden. Der Einsatz von ungeeigneten Ersatzteilen kann eine weitere Beschädigung hervorrufen.
17. Wenden Sie sich mit allen Fragen die Service und Reparatur betreffen an Ihren Servicepartner. Somit stellen Sie die Betriebssicherheit des Gerätes sicher.
18. Zum Netzanschluß dieses Gerätes ist eine geprüfte Leitung zu verwenden, Für einen Nennstrom bis 6A und einem Gerätegewicht größer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm² einzusetzen.

WARRANTIES EXCLUSIVE

IF THE D-LINK PRODUCT DOES NOT OPERATE AS WARRANTED ABOVE, THE CUSTOMER'S SOLE REMEDY SHALL BE, AT D-LINK'S OPTION, REPAIR OR REPLACEMENT. THE FOREGOING WARRANTIES AND REMEDIES ARE EXCLUSIVE AND ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, EITHER IN FACT OR BY OPERATION OF LAW, STATUTORY OR OTHERWISE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. D-LINK NEITHER ASSUMES NOR AUTHORIZES ANY OTHER PERSON TO ASSUME FOR IT ANY OTHER LIABILITY IN CONNECTION WITH THE SALE, INSTALLATION MAINTENANCE OR USE OF D-LINK'S PRODUCTS.

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LIMITATION OF LIABILITY

IN NO EVENT WILL D-LINK BE LIABLE FOR ANY DAMAGES, INCLUDING LOSS OF DATA, LOSS OF PROFITS, COST OF COVER OR OTHER INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES ARISING OUT THE INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE OR INTERRUPTION OF A D-LINK PRODUCT, HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY. THIS LIMITATION WILL APPLY EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

IF YOU PURCHASED A D-LINK PRODUCT IN THE UNITED STATES, SOME STATES DO NOT ALLOW THE LIMITATION OR EXCLUSION OF LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

Limited Warranty

Hardware:

D-Link warrants each of its hardware products to be free from defects in workmanship and materials under normal use and service for a period commencing on the date of purchase from D-Link or its Authorized Reseller and extending for the length of time stipulated by the Authorized Reseller or D-Link Branch Office nearest to the place of purchase.

This Warranty applies on the condition that the product Registration Card is filled out and returned to a D-Link office within ninety (90) days of purchase. A list of D-Link offices is provided at the back of this manual, together with a copy of the Registration Card.

If the product proves defective within the applicable warranty period, D-Link will provide repair or replacement of the product. D-Link shall have the sole discretion whether to repair or replace, and replacement product may be new or reconditioned. Replacement product shall be of equivalent or better specifications, relative to the defective product, but need not be identical. Any product or part repaired by D-Link pursuant to this warranty shall have a warranty period of not less than 90 days, from date of such repair, irrespective of any earlier expiration of original warranty period. When D-Link provides replacement, then the defective product becomes the property of D-Link.

Warranty service may be obtained by contacting a D-Link office within the applicable warranty period, and requesting a Return Material Authorization (RMA) number. If a Registration Card for the product in question has not been returned to D-Link, then a proof of purchase (such as a copy of the dated purchase invoice) must be provided. If Purchaser's circumstances require special handling of warranty correction, then at the time of requesting RMA number, Purchaser may also propose special procedure as may be suitable to the case.

After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. The package must be mailed or otherwise shipped to D-Link with all costs of mailing/shipping/insurance prepaid. D-Link shall never be responsible for any software, firmware, information, or memory data of Purchaser contained in, stored on, or integrated with any product returned to D-Link pursuant to this warranty.

Any package returned to D-Link without an RMA number will be rejected and shipped back to Purchaser at Purchaser's expense, and D-Link reserves the right in such a case to levy a reasonable handling charge in addition mailing or shipping costs.

Software:

Warranty service for software products may be obtained by contacting a D-Link office within the applicable warranty period. A list of D-Link offices is provided at the back of this manual, together with a copy of the Registration Card. If a Registration Card for the product in question has not been returned to a D-Link office, then a proof of purchase (such as a copy of the dated purchase invoice) must be provided when requesting warranty service. The term "purchase" in this software warranty refers to the purchase transaction and resulting license to use such software.

D-Link warrants that its software products will perform in substantial conformance with the applicable product documentation provided by D-Link with such software product, for a period of ninety (90) days from the date of purchase from D-Link or its Authorized Reseller. D-Link warrants the magnetic media, on which D-Link provides its software product, against failure during the same warranty period. This warranty applies to purchased software, and to replacement software provided by D-Link pursuant to this warranty, but shall not apply to any update or replacement which may be provided for download via the Internet, or to any update which may otherwise be provided free of charge.

D-Link's sole obligation under this software warranty shall be to replace any defective software product with product which substantially conforms to D-Link's applicable product documentation. Purchaser assumes responsibility for the selection of appropriate application and system/platform software and associated reference materials. D-Link makes no warranty that its software products will work in combination with any hardware, or

any application or system/platform software product provided by any third party, excepting only such products as are expressly represented, in D-Link's applicable product documentation as being compatible. D-Link's obligation under this warranty shall be a reasonable effort to provide compatibility, but D-Link shall have no obligation to provide compatibility when there is fault in the third-party hardware or software. D-Link makes no warranty that operation of its software products will be uninterrupted or absolutely error-free, and no warranty that all defects in the software product, within or without the scope of D-Link's applicable product documentation, will be corrected.



Limited Warranty
(USA Only)

Subject to the terms and conditions set forth herein, D-Link Systems, Inc. ("D-Link") provides this Limited warranty for its product only to the person or entity that originally purchased the product from:

- D-Link or its authorized reseller or distributor and
- Products purchased and delivered within the fifty states of the United States, the District of Columbia, U.S. Possessions or Protectorates, U.S. Military Installations, addresses with an APO or FPO.

Limited Warranty: D-Link warrants that the hardware portion of the D-Link products described below will be free from material defects in workmanship and materials from the date of original retail purchase of the product, for the period set forth below applicable to the product type ("Warranty Period"), except as otherwise stated herein.

Limited Lifetime Warranty for the Product(s) is defined as follows:

- Hardware for as long as the original customer/end user owns the product, or five years after product discontinuance, whichever occurs first (excluding power supplies and fans)
- Power Supplies and Fans Three (3) Year
- Spare parts and spare kits Ninety (90) days

D-Link's sole obligation shall be to repair or replace the defective Hardware during the Warranty Period at no charge to the original owner or to refund at D-Link's sole discretion. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or have an identical make, model or part. D-Link may in its sole discretion replace the defective Hardware (or any part thereof) with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. Repaired or replacement Hardware will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original retail purchase of the Software for a period of ninety (90) days ("Warranty Period"), provided that the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. D-Link's sole obligation shall be to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software or to refund at D-Link's sole discretion. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. Software will be warranted for the remainder of the original Warranty Period from the date of original retail purchase. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

Non-Applicability of Warranty: The Limited Warranty provided hereunder for hardware and software of D-Link's products will not be applied to and does not cover any refurbished product and any product purchased through the inventory clearance or liquidation sale or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product and in that case, the product is being sold "As-Is" without any warranty whatsoever including, without limitation, the Limited Warranty as described herein, notwithstanding anything stated herein to the contrary.

Submitting A Claim: The customer shall return the product to the original purchase point based on its return policy. In case the return policy period has expired and the product is within warranty, the customer shall submit a claim to D-Link as outlined below:

- The customer must submit with the product as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same.
- The original product owner must obtain a Return Material Authorization ("RMA") number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided.
- After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. Do not include any manuals or accessories in the shipping package. D-Link will only replace the defective portion of the Product and will not ship back any accessories.
- The customer is responsible for all in-bound shipping charges to D-Link. No Cash on Delivery ("COD") is allowed. Products sent COD will either be rejected by D-Link or become the property of D-Link. Products shall be fully insured by the customer and shipped to **D-Link Systems, Inc., 17595 Mt. Herrmann, Fountain Valley, CA 92708**. D-Link will not be held responsible for any packages that are lost in transit to D-Link. The repaired or replaced packages will be shipped to the customer via UPS Ground or any common carrier selected by D-Link, with shipping charges prepaid. Expedited shipping is available if shipping charges are prepaid by the customer and upon request.

D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered: This limited warranty provided by D-Link does not cover: Products, if in D-Link's judgment, have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; Any hardware, software, firmware or other products or services provided by anyone other than D-Link; Products that have been purchased from inventory clearance or liquidation sales or other sales in which D-Link, the sellers, or the liquidators expressly disclaim their warranty obligation pertaining to the product. Repair by anyone other than D-Link or an Authorized D-Link Service Office will void this Warranty.

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CE Mark Warning: This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

FCC Statement: This equipment has been tested and found to comply with the limits for a Class A 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 communication. 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.

For detailed warranty outside the United States, please contact corresponding local D-Link office.

Register online your D-Link product at <http://support.dlink.com/register/>

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CE EMI class A warning

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

D-Link Europe Limited Product Warranty

General Terms

The Limited Product Warranty set forth below is given by D-LINK (Europe) Ltd. (herein referred to as "D-LINK"). This Limited Product Warranty is only effective upon presentation of the proof of purchase. Upon further request by D-LINK, this warranty card has to be presented, too.

EXCEPT AS EXPRESSLY SET FORTH IN THIS LIMITED WARRANTY, D-LINK MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. D-LINK EXPRESSLY DISCLAIMS ALL WARRANTIES NOT STATED IN THIS LIMITED WARRANTY. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED IN DURATION TO THE LIMITED WARRANTY PERIOD. SOME STATES OR COUNTRIES DO NOT ALLOW A LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS. IN SUCH STATES OR COUNTRIES, SOME EXCLUSIONS OR LIMITATIONS OF THIS LIMITED WARRANTY MAY NOT APPLY TO YOU. THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS THAT MAY VARY FROM STATE TO STATE OR FROM COUNTRY TO COUNTRY. YOU ARE ADVISED TO CONSULT APPLICABLE STATE OR COUNTRY LAWS FOR

A FULL DETERMINATION OF YOUR RIGHTS.

This limited warranty applies to D-LINK branded hardware products (collectively referred to in this limited warranty as "D-LINK Hardware Products") sold by from D-LINK (Europe) Ltd., its worldwide subsidiaries, affiliates, authorized resellers, or country distributors (collectively referred to in this limited warranty as "D-LINK") with this limited warranty. The Term "D-LINK Hardware Product" is limited to the hardware components and all its internal components including firmware. The term "D-LINK Hardware Product" DOES NOT include any software applications or programs.

Geographical Scope of the Limited Product Warranty

This Limited Product Warranty is applicable in all European Countries as listed in the addendum "European Countries for D-LINK Limited Product Warranty". The term "European Countries" in this D-LINK Limited Product Warranty only include the countries as listed in this addendum. The Limited Product Warranty will be honored in any country where D-LINK or its authorized service providers offer warranty service subject to the terms and conditions set forth in this Limited Product Warranty. However, warranty service availability and response times may vary from country to country and may also be subject to registration requirements.

Limitation of Product Warranty

D-LINK warrants that the products described below under normal use are free from material defects in materials and workmanship during the Limited Product Warranty Period set forth below ("Limited Product Warranty Period"), if the product is used and serviced in accordance with the user manual and other documentation provided to the purchaser at the time of purchase (or as amended from time to time). D-LINK does not warrant that the products will operate uninterrupted or error-free or that all deficiencies, errors, defects or non-conformities will be corrected.

This warranty shall not apply to problems resulting from: (a) unauthorised alterations or attachments; (b) negligence, abuse or misuse, including failure to operate the product in accordance with specifications or interface requirements; (c) improper handling; (d) failure of goods or services not obtained from D-LINK or not subject to a then-effective D-LINK warranty or maintenance agreement; (e) improper use or storage; or (f) fire, water, acts of God or other catastrophic events. This warranty shall also not apply to any particular product if any D-LINK serial number has been removed or defaced in any way.

D-LINK IS NOT RESPONSIBLE FOR DAMAGE THAT OCCURS AS A RESULT OF YOUR FAILURE TO FOLLOW THE INSTRUCTIONS FOR THE D-LINK HARDWARE PRODUCT.

Limited Product Warranty Period

The Limited Product Warranty Period starts on the date of purchase from D-LINK. Your dated sales or delivery receipt, showing the date of purchase of the product, is your proof of the purchase date. You may be required to provide proof of purchase as a condition of receiving warranty service. You are entitled to warranty service according to the terms and conditions of this document if a repair to your D-LINK branded hardware is required within the Limited Product Warranty Period.

This Limited Product Warranty extends only to the original end-user purchaser of this D-LINK Hardware Product and is not transferable to anyone who obtains ownership of the D-LINK Hardware Product from the original end-user purchaser.

Product Type	Product Warranty Period
Managed Switches (i.e. switches with built in SNMP agent)(including modules and management software)	Five (5) years
All other products	Two (2) years

Spare parts (i.e. External Power Adapters, Fans)	One (1) year
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The warranty periods listed above are effective in respect of all D-LINK products sold in European Countries by D-LINK or one of its authorized resellers or distributors from 1st of January 2004. All products sold in European Countries by D-LINK or one of its authorized resellers or distributors before 1st January 2004 carry 5 years warranty, except power supplies, fans and accessories that are provided with 2 year warranty.

The warranty period stated in this card supersedes and replaces the warranty period as stated in the user's manual or in the purchase contract for the relevant products. For the avoidance of doubt, if you have purchased the relevant D-LINK product as a consumer your statutory rights remain unaffected.

Performance of the Limited Product Warranty

If a product defect occurs, D-LINK's sole obligation shall be to repair or replace any defective product free of charge to the original purchaser provided it is returned to an Authorized D-LINK Service Center during the warranty period. Such repair or replacement will be rendered by D-LINK at an Authorized D-LINK Service Center. All component parts or hardware products removed under this limited warranty become the property of D-LINK. The replacement part or product takes on the remaining limited warranty status of the removed part or product. The replacement product need not be new or of an identical make, model or part; D-LINK may in its discretion replace the defective product (or any part thereof) with any reconditioned equivalent (or superior) product in all material respects to the defective product. Proof of purchase may be required by D-LINK.

Warrantor

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D-Link Europe Limited Produktgarantie

Allgemeine Bedingungen

Die hierin beschriebene eingeschränkte Garantie wird durch D-LINK (Europe) Ltd. gewährt (im Folgenden: „D-LINK“). Diese eingeschränkte Garantie setzt voraus, dass der Kauf des Produkts nachgewiesen wird. Auf Verlangen von D-LINK muss auch dieser Garantieschein vorgelegt werden.

AUSSER IN DEM HIER AUSDRÜCKLICH BESCHRIEBENEN UMFANG GEWÄHRT D-LINK KEINE WEITEREN GARANTIE, WEDER AUSDRÜCKLICH NOCH STILLSCHWEIGEND. INSBESONDERE WIRD NICHT STILLSCHWEIGEND EINE GARANTIE FÜR DIE ALLGEMEINE GEBRAUCHSTAUGLICHKEIT ODER DIE EIGNUNG FÜR EINEN BESTIMMTEN ZWECK ERKLÄRT. D-LINK LEHNT AUSDRÜCKLICH JEDE GARANTIE AB, DIE ÜBER DIESE EINGESCHRÄNKTE GARANTIE HINAUSGEHT. JEDE GESETZLICH ANGEORDNETE GARANTIE IST AUF DIE LAUFZEIT DER EINGESCHRÄNKTEN GARANTIE BESCHRÄNKT. IN EINIGEN STAATEN ODER LÄNDERN IST DIE ZEITLICHE BESCHRÄNKUNG EINER STILLSCHWEIGEND ERKLÄRTEN GARANTIE SOWIE AUSSCHLUSS ODER BESCHRÄNKUNG VON SCHADENERSATZ FÜR NEBEN- ODER FOLGESCHÄDEN BEIM VERBRAUCHSGÜTERKAUF UNTERSAGT. SOWEIT SIE IN SOLCHEN STAATEN ODER LÄNDERN LEBEN, ENTFALTEN MÖGLICHERWEISE EINIGE AUSSCHLÜSSE ODER EINSCHRÄNKUNGEN DIESER EINGESCHRÄNKTEN GARANTIE GEGENÜBER IHNEN KEINE WIRKUNG. DIESE EINGESCHRÄNKTE GARANTIE GEWÄHRT IHNEN SPEZIFISCHE RECHTE. DARÜBER HINAUS STEHEN IHNEN MÖGLICHERWEISE NOCH WEITERE RECHTE ZU, DIE SICH JEDOCH VON STAAT ZU STAAT ODER VON LAND ZU LAND UNTERSCHIEDEN KÖNNEN. UM DEN UMFANG IHRER RECHTE ZU BESTIMMEN, WIRD IHNEN EMPFOHLEN, DIE ANWENDBAREN GESETZE DES JEWEILIGEN STAATES ODER LANDES ZU RATE ZU ZIEHEN.

Diese eingeschränkte Garantie ist auf Hardware-Produkte der Marke D-LINK (insgesamt im Folgenden: „D-LINK Hardware-Produkte“) anwendbar, die von D-LINK (Europe) Ltd. oder dessen weltweiten Filialen, Tochtergesellschaften, Fachhändlern oder Länderdistributoren (insgesamt im Folgenden: „D-LINK“) mit dieser eingeschränkten Garantie verkauft wurden. Der Begriff „D-LINK Hardware-Produkte“ beinhaltet nur Hardwarekomponenten und deren Bestandteile einschließlich Firmware. Der Begriff „D-LINK Hardware-Produkte“ umfasst KEINE Software-Anwendungen oder -programme.

Räumlicher Geltungsbereich der eingeschränkten Garantie

Diese eingeschränkte Garantie gilt für alle genannten europäischen Staaten gemäß dem Anhang „Eingeschränkte Garantie von D-LINK in europäischen Staaten“. Im Rahmen dieser eingeschränkten Garantie sind mit dem Begriff „europäische Staaten“ nur die im Anhang genannten Staaten gemeint. Die eingeschränkte Garantie findet überall Anwendung, wo D-LINK oder dessen autorisierte Servicepartner Garantiedienste gemäß den Bestimmungen dieser eingeschränkten Garantie erbringen. Gleichwohl kann sich die Verfügbarkeit von Garantiediensten und die Bearbeitungszeit von Land zu Land unterscheiden und von Registrierungsanforderungen abhängig sein.

Einschränkung der Garantie

D-LINK gewährleistet, dass die nachstehend aufgeführten Produkte bei gewöhnlicher Verwendung für die unten angegebene Laufzeit der eingeschränkten Garantie („Garantielaufzeit“) frei von wesentlichen Verarbeitungs- und Materialfehlern sind. Voraussetzung hierfür ist jedoch, dass das Produkt entsprechend dem Benutzerhandbuch und den weiteren Dokumentationen, die der Benutzer beim Kauf (oder später) erhalten hat, genutzt und gewartet wird. D-LINK garantiert nicht, dass die Produkte störungs- oder fehlerfrei arbeiten oder dass alle Mängel, Fehler, Defekte oder Kompatibilitätsstörungen beseitigt werden können.

Diese Garantie gilt nicht für Probleme wegen: (a) unerlaubter Veränderung oder Hinzufügung, (b) Fahrlässigkeit, Missbrauch oder Zweckentfremdung, einschließlich des Gebrauchs des Produkts entgegen den Spezifikationen oder den durch Schnittstellen gegebenen Vorgaben, (c) fehlerhafter Bedienung, (d) Versagen von Produkten oder Diensten, die nicht von D-LINK stammen oder nicht Gegenstand einer zum maßgeblichen Zeitpunkt gültigen Garantie- oder Wartungsvereinbarung sind, (e) Fehlgebrauch oder fehlerhafter Lagerung oder (f) Feuer, Wasser, höherer Gewalt oder anderer Katastrophen. Diese Garantie gilt ebenfalls nicht für Produkte, bei denen eine D-LINK-Seriennummer entfernt oder auf sonstige Weise unkenntlich gemacht wurde.

D-LINK STEHT NICHT FÜR SCHÄDEN EIN, DIE DADURCH ENTSTEHEN, DASS DIE ANLEITUNG FÜR DAS D-LINK HARDWARE-PRODUKT NICHT BEFOLGT WIRD.

Laufzeit der eingeschränkten Garantie

Die Laufzeit der eingeschränkten Garantie beginnt mit dem Zeitpunkt, zu dem das Produkt von D-LINK gekauft wurde. Als Nachweis für den Zeitpunkt des Kaufs gilt der datierte Kauf- oder Lieferbeleg. Es kann von Ihnen verlangt werden, dass Sie zur Inanspruchnahme von Garantiediensten den Kauf des Produkts nachweisen. Wenn Ihre Hardware-Produkte der Marke D-LINK innerhalb der Laufzeit der eingeschränkten Garantie eine Reparatur benötigen, so sind Sie berechtigt, gemäß den Bedingungen dieser eingeschränkten Garantie Garantiedienste in Anspruch zu nehmen.

Diese eingeschränkte Garantie gilt nur für diejenigen, die das D-LINK Hardware-Produkt ursprünglich als originärer Endbenutzer gekauft hat. Sie ist nicht auf Dritte übertragbar, die das D-LINK-Produkt von dem ursprünglichen originären Endbenutzer erworben haben.

Produkttyp	Gewährleistungslaufzeit
Verwaltete Switches (d. h. Switches mit eingebauten SNMP-Agents) (einschließlich Modulen und Verwaltungssoftware)	Fünf (5) Jahre
Alle weiteren Produkte	Zwei (2) Jahre
Ersatzteile (z.B. externe Netzteile, Lüfter)	Ein (1) Jahr

Die oben aufgeführten Garantielaufzeiten gelten für alle D-LINK-Produkte, die in europäischen Staaten ab dem 1. Januar 2004 von D-LINK oder einem autorisierten Fachhändler oder Distributor verkauft werden. Alle vor dem 1. Januar 2004 von D-LINK oder einem autorisierten Vertragshändler oder Distributor verkauften Produkte haben eine Gewährleistung von 5 Jahren; ausgenommen sind Netzteile, Lüfter und Zubehör, diese haben eine Garantie von 2 Jahren.

Die durch diesen Garantieschein festgelegte Garantielaufzeit tritt an die Stelle der im Benutzerhandbuch oder im Kaufvertrag für das jeweilige Produkt angegebenen Laufzeit. Sollten Sie das betreffende D-LINK-Produkt als Verbraucher erworben haben, so sei klargestellt, dass Ihre gesetzlichen Rechte hiervon unberührt bleiben.

Leistungsumfang der eingeschränkten Garantie

Bei Auftreten eines Produktfehlers besteht die einzige Verpflichtung von D-LINK darin, dem ursprünglichen Käufer das defekte Produkt kostenlos zu reparieren oder es auszutauschen. Voraussetzung hierfür ist, dass das Produkt während der Garantielaufzeit einem autorisierten D-LINK-Servicecenter übergeben wird. Reparatur oder Austausch werden von D-LINK durch ein autorisiertes D-LINK-Servicecenter durchgeführt. Bauteile oder Hardware-Produkte, die gemäß dieser eingeschränkten Garantie entfernt werden, gehen in das Eigentum von D-LINK über. Die verbliebene eingeschränkte Garantie des entfernten Teils oder Produkts wird auf das Ersatzteil oder -produkt übertragen. Das Austauschprodukt muss weder neu sein noch dem defekten Produkt ganz oder in Teilen entsprechen. D-LINK darf dieses nach eigenem Ermessen gegen ein entsprechendes wiederaufbereitetes Produkt austauschen, welches dem defekten Produkt im Wesentlichen entspricht (oder höherwertig ist). D-LINK kann verlangen, dass der Kauf des Produkts nachgewiesen wird.

DIE VORSTEHENDE GARANTIE WURDE IN DIE DEUTSCHE SPRACHE AUS DEM ENGLISCHEN ÜBERSETZT. BEI ABWEICHUNGEN ZWISCHEN DER ENGLISCHEN VERSION UND DER DEUTSCHEN ÜBERSETZUNG GELTEN DIE BESTIMMUNGEN DER ENGLISCHEN VERSION.

Garantiegeber

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D-Link Europe a limité la garantie des produits

Conditions Générales

La Garantie Produit Limitée énoncée ci-dessous émane de D-LINK (Europe) Ltd. (ci-après « D-LINK »). Cette Garantie Produit Limitée n'est valable que sur présentation de la preuve d'achat. D-LINK peut également exiger la présentation du présent bon de garantie.

SAUF INDICATION EXPLICITE DES PRESENTES, D-LINK NE FOURNIT AUCUNE AUTRE GARANTIE, EXPLICITE OU IMPLICITE, Y COMPRIS UNE GARANTIE IMPLICITE DE VALEUR MARCHANDE OU D'ADAPTATION DU PRODUIT A UN USAGE PRECIS. D-LINK DECLINE EXPLICITEMENT TOUTE GARANTIE NON ENONCEE DANS LES PRESENTES. TOUTE GARANTIE IMPLICITE IMPOSEE PAR LA LOI, LE CAS ECHEANT, EST LIMITEE DANS SA DUREE A CELLE DE LA GARANTIE LIMITEE. CERTAINS ETATS OU PAYS NE PERMETTENT PAS DE LIMITER LA DUREE DE LA GARANTIE IMPLICITE OU INTERDISENT D'EXCLURE OU DE LIMITER LA COUVERTURE DES DOMMAGES DIRECTS OU INDIRECTS OCCASIONNES AUX PRODUITS GRAND PUBLIC. DANS LES ETATS OU PAYS EN QUESTION, CERTAINES EXCLUSIONS OU LIMITATIONS DE LA PRESENTE GARANTIE PEUVENT NE PAS S'APPLIQUER A VOTRE CAS. LA PRESENTE GARANTIE LIMITEE VOUS OCTROIE CERTAINS DROITS LEGAUX SPECIFIQUES. VOUS POUVEZ EGALEMENT BENEFICIER D'AUTRES DROITS VARIABLES D'UN ETAT OU D'UN PAYS A L'AUTRE. NOUS VOUS RECOMMANDONS DE CONSULTER LA LEGISLATION EN VIGUEUR DANS VOTRE LIEU DE RESIDENCE POUR CONNAITRE L'ETENDUE DE VOS DROITS.

La présente garantie limitée s'applique aux produits matériels commercialisés sous la marque D-LINK (collectivement ici « les Produits Matériels D-LINK ») vendus par D-LINK (Europe) Ltd., ses filiales, sociétés affiliées, revendeurs agréés ou distributeurs locaux à travers le monde (collectivement ici « D-LINK ») avec la présente garantie limitée. Le terme de « Produit Matériel D-LINK » se limite aux composants matériels et à l'ensemble de leurs composants internes, notamment le firmware. Le terme de « Produit Matériel D-LINK » n'englobe PAS les applications ou programmes logiciels.

Etendue géographique de la Garantie Produit Limitée

La présente Garantie Produit Limitée s'applique à tous les pays européens figurant dans l'annexe « Pays européens où s'applique la Garantie Produit Limitée D-LINK ». Le terme de « pays européens » utilisé dans la présente Garantie Produit Limitée D-LINK englobe uniquement les pays figurant dans la liste en annexe. La Garantie Produit Limitée sera honorée dans tout pays où D-LINK ou ses prestataires agréés proposent le service de garantie, sous réserve des modalités énoncées dans la présente Garantie Produit Limitée. Cependant, la disponibilité du service de garantie et les temps de réponse varient d'un pays à l'autre et peuvent également être assujettis à un enregistrement.

Limitation de la Garantie Produit

D-LINK garantit que les produits décrits ci-dessous, dans le cadre d'une utilisation normale, sont dénués de défauts conséquents, tant au niveau de leurs composants matériels que de leur fabrication, et ce pendant toute la Période de Garantie Produit Limitée indiquée ci-dessous (« Période de Garantie Produit Limitée »), sous réserve qu'ils soient utilisés et entretenus conformément au manuel utilisateur et aux autres documents remis au client lors de l'achat (ou amendés de temps à autre). D-LINK ne garantit pas le fonctionnement ininterrompu ou sans erreur de ses produits. D-LINK ne s'engage pas non plus à corriger tous les défauts, erreurs ou non conformités.

La présente garantie ne s'applique pas aux problèmes qui sont la conséquence : (a) d'altérations ou d'ajouts non autorisés ; (b) d'une négligence, d'un abus ou d'une mauvaise utilisation, notamment une utilisation du produit non conforme à ses spécifications ou aux interfaces requises ; (c) d'une mauvaise manipulation ; (d) d'une panne de biens ou de services acquis auprès d'une société tierce (non D-LINK) ou qui ne font pas l'objet d'un contrat D-LINK de garantie ou de maintenance en bonne et due forme ; (e) d'une mauvaise utilisation ou d'un rangement dans des conditions inadéquates ; ou (f) du feu, de l'eau, d'une catastrophe naturelle ou autre. La présente garantie ne s'applique pas non plus à un produit dont le numéro de série D-LINK aurait été retiré ou altéré de quelque manière que ce soit.

D-LINK N'EST NULLEMENT RESPONSABLE DE DOMMAGES RESULTANT DE VOTRE INOBSERVATION DES INSTRUCTIONS FOURNIES POUR L'UTILISATION DE SON PRODUIT MATERIEL.

Période de Garantie Produit Limitée

La Période de Garantie Produit Limitée court à compter de la date d'achat auprès de D-LINK. La date de votre reçu ou bon de livraison correspond à la date d'achat du produit et constitue la date de votre preuve d'achat. Il est possible que le service de garantie ne vous soit accordé que sur production de votre preuve d'achat. Vous avez droit à un service de garantie conforme aux modalités énoncées dans les présentes dès lorsque que votre matériel de marque D-LINK nécessite une réparation pendant la Période de Garantie Produit Limitée.

La présente Garantie Produit Limitée s'applique uniquement à l'acheteur utilisateur final initial du Produit Matériel D-LINK. Elle est non cessible à quiconque se procure le Produit Matériel D-LINK auprès de l'acheteur utilisateur final initial.

Type de produit	Période de Garantie
Switches gérés (switches comportant un agent SNMP intégré)(y compris modules et logiciels de gestion)	Cinq (5) ans
Tous autres produits	Deux (2) ans
Pièces détachées (adaptateurs d'alimentation externes, ventilateurs)	Un (1) an

Les périodes de garantie indiquées ci-dessus s'appliquent à tous les produits D-LINK vendus depuis le 1er janvier 2004 dans les pays européens par D-LINK ou l'un de ses revendeurs ou distributeurs agréés. Tous les produits vendus avant le 1er janvier 2004 dans les pays européens par D-LINK ou l'un de ses revendeurs ou distributeurs agréés bénéficient d'une garantie de 5 ans, excepté les fournitures électriques, ventilateurs et accessoires, qui sont couverts par une garantie de 2 ans.

La période de garantie indiquée sur ce bon annule et remplace celle qui figure dans le manuel utilisateur ou dans le contrat d'achat des produits considérés. Pour éviter le doute, si vous avez acheté votre produit D-LINK en tant que consommateur, vos droits légaux demeurent inchangés.

Exécution de la Garantie Produit Limitée

En cas de défaut ou d'erreur d'un produit, l'unique obligation de D-LINK se limite à la réparation ou au remplacement gratuit du produit défectueux, au bénéfice de l'acheteur initial, sous réserve que le produit soit rapporté à un Centre de Service Agréé D-LINK pendant la période de garantie. D-LINK assure la réparation ou le remplacement dans un Centre de

Service Agréé D-LINK. Les composants, pièces ou produits retirés dans le cadre de cette garantie limitée deviennent propriété de D-LINK. La pièce ou le produit de remplacement est couvert par la garantie limitée de la pièce ou du produit d'origine pendant la période restante. Le produit de remplacement n'est pas nécessairement neuf, ni d'une marque ou d'un modèle identique ; D-LINK peut décider, de manière discrétionnaire, de remplacer le produit défectueux (ou ses pièces) par un équivalent (ou un article supérieur) reconditionné ayant toutes les fonctionnalités du produit défectueux. D-LINK peut exiger la preuve d'achat.

Garant

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Garantía limitada del producto D-LINK Europa

Condiciones generales

Esta garantía la ofrece D-LINK (Europe) Ltd. (en este documento, "D-LINK"). La garantía limitada del producto sólo es válida si se acompaña del comprobante de la compra. También deberá presentarse la tarjeta de garantía si D-LINK lo solicita.

EXCEPTO EN LO EXPRESAMENTE INDICADO EN ESTA GARANTÍA LIMITADA, D-LINK NO CONCEDE OTRAS GARANTÍAS, NI EXPLÍCITAS NI IMPLÍCITAS, INCLUIDAS LAS GARANTÍAS IMPLÍCITAS DE COMERCIALIDAD Y APTITUD A UN FIN DETERMINADO. D-LINK RECHAZA EXPLÍCITAMENTE CUALQUIER GARANTÍA QUE NO FIGURE EN ESTA GARANTÍA LIMITADA. LA DURACIÓN DE CUALQUIER GARANTÍA IMPLÍCITA QUE PUEDA SER IMPUESTA POR LEY QUEDA LIMITADA AL PERÍODO DE LA GARANTÍA LIMITADA. ALGUNOS ESTADOS O PAÍSES NO PERMITEN QUE EN LA GARANTÍA LIMITADA DE PRODUCTOS DE CONSUMO SE RESTRINJA LA DURACIÓN TEMPORAL, NI QUE SE EXCLUYAN O LIMITEN LOS DAÑOS INCIDENTALES O RESULTANTES PARA EL CONSUMIDOR DE LOS PRODUCTOS. EN ESTOS ESTADOS O PAÍSES, A USTED NO LE PUEDEN APLICAR ALGUNAS EXCLUSIONES O LIMITACIONES DE LA GARANTÍA LIMITADA. ESTA GARANTÍA LIMITADA LE CONCEDE DETERMINADOS DERECHOS. PUEDE, TAMBIÉN, TENER OTROS DERECHOS, QUE PUEDEN SER DISTINTOS DE UN ESTADO A OTRO O DE UN PAÍS A OTRO. SE RECOMIENDA QUE CONSULTE LAS LEYES PERTINENTES DE UN ESTADO O PAÍS A FIN DE QUE CONOZCA SUS DERECHOS.

Esta garantía limitada se aplica a los productos de hardware de la marca D-LINK (llamados en esta guía "Productos de hardware D-LINK") comprados a D-LINK (Europe) Ltd., a sus filiales en el mundo, a sus proveedores autorizados o a sus distribuidores locales (llamados en este documento "D-LINK") con esta garantía limitada. El término "producto de hardware D-LINK" se restringe a los componentes de hardware y a los componentes internos de estos, incluyendo el firmware. El término "producto de hardware D-LINK" NO incluye ni las aplicaciones ni los programas de software.

Cobertura geográfica de la garantía limitada del producto

Esta garantía limitada del producto es válida en todos los países europeos que figuran en el apéndice "Países europeos de la garantía limitada del producto D-LINK". En esta garantía limitada del producto D-LINK, el término "países europeos" sólo incluye los países que figuran en el apéndice. La garantía limitada del producto será válida en cualquier país en el que D-LINK o sus proveedores autorizados de servicios ofrezcan un servicio de garantía sujeto a los términos y condiciones recogidos en esta garantía limitada del producto. Sin embargo, la disponibilidad del servicio de garantía, así como el tiempo de respuesta, pueden variar de un país a otro y pueden estar sujetos a requisitos de registro.

Limitación de la garantía del producto

D-LINK garantiza que los productos descritos más adelante están libres de defectos de fabricación y materiales, en condiciones normales de uso, a lo largo del período de la garantía limitada del producto que se indica en este documento ("período de la garantía limitada del producto"), si el producto se ha utilizado y mantenido conforme a lo recogido en el manual del usuario o en otra documentación que se haya proporcionado al comprador en el momento de la compra (o que se haya corregido). D-LINK no garantiza que los productos funcionarán sin interrupciones o sin errores, ni que se corregirán todas las deficiencias, errores, defectos o disconformidades.

Esta garantía no cubre problemas derivados de: (a) modificaciones o conexiones no autorizadas; (b) negligencia, abuso o mal uso, incluyendo el incumplimiento de las especificaciones y de los requisitos de la interfaz en el funcionamiento del producto; (c) manejo incorrecto; (d) errores en artículos o servicios ajenos a D-LINK o no sujetos a una garantía o un contrato de mantenimiento vigentes de D-LINK; (e) uso o almacenamiento incorrecto; o (f) fuego, agua, casos fortuitos u otros hechos catastróficos. Esta garantía tampoco es válida para aquellos productos a los que se haya eliminado o alterado de algún modo el número de serie D-LINK.

D-LINK NO SE RESPONSABILIZA DE LOS DAÑOS CAUSADOS COMO CONSECUENCIA DEL INCUMPLIMIENTO DE LAS INSTRUCCIONES DEL PRODUCTO DE HARDWARE D-LINK.

Período de la garantía limitada del producto

El período de la garantía limitada del producto se inicia en la fecha en que se realizó la compra a D-LINK. Para el comprador, el comprobante de la fecha de la compra es el recibo de la venta o de la entrega, en el que figura la fecha de la compra del producto. Puede ser necesario tener que presentar el comprobante de la compra a fin de que se preste el servicio de garantía. El comprador tiene derecho al servicio de garantía conforme a los términos y condiciones de este documento, si requiere una reparación del hardware de la marca D-LINK dentro del período de garantía limitada del producto.

Esta garantía limitada del producto cubre sólo al originario comprador-usuario final de este producto de hardware D-LINK, y no es transferible a otras personas que reciban el producto de hardware D-LINK del originario comprador-usuario final.

Tipo de producto	Período de garantía del producto
Conmutadores gestionados (p. ej., conmutadores con agente SNMP integrado) (incluyendo módulos y software de gestión)	Cinco (5) años
Resto de productos	Dos (2) años
Piezas de repuesto (p. ej., adaptadores de alimentación externos, ventiladores)	Un (1) año

Estos períodos de garantía están en vigor para todos los productos D-LINK que hayan sido comprados en países europeos a D-LINK o a alguno de sus proveedores o distribuidores autorizados a partir del 1 de enero del 2004. Todos los productos comprados en países europeos a D-LINK o a uno de sus proveedores o distribuidores autorizados antes del 1 de enero del 2004 cuentan con 5 años de garantía, excepto las fuentes de alimentación, los ventiladores y los accesorios, que cuentan con 2 años de garantía.

El período de garantía que figura en esta tarjeta sustituye y reemplaza al período de garantía que consta en el manual del usuario o en el contrato de compra de los productos correspondientes. Para evitar dudas: si usted ha comprado el producto D-LINK correspondiente como consumidor, sus derechos legales no se ven afectados.

Uso de la garantía limitada del producto

Si un producto presenta algún defecto, la obligación exclusiva de D-LINK será reparar o reemplazar, sin coste alguno para el comprador originario, cualquier producto defectuoso siempre y cuando éste sea entregado en un centro autorizado de servicio D-LINK durante el período de garantía. D-LINK realizará la reparación o sustitución para un centro autorizado de servicio D-LINK. Todos los productos de hardware o componentes que se eliminen bajo esta garantía limitada serán propiedad de D-LINK. La parte o el producto de repuesto adquiere, para el resto de la garantía limitada, el estatus de parte o producto eliminado. El producto de repuesto no ha de ser nuevo o de la misma marca, modelo o parte; D-LINK puede sustituir a discreción el producto defectuoso (o cualquier parte) con un producto equivalente reacondicionado (o superior) en cualquier material respecto al producto defectuoso. D-LINK puede pedir el comprobante de compra.

Garante

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D-Link Europe Termini di Garanzia dei Prodotti

Generalità

La presente Garanzia viene fornita da D-LINK (Europe) Ltd. (di seguito denominata "D-LINK"). Essa viene riconosciuta solo se accompagnata dalla prova di acquisto. D-LINK può richiedere anche l'esibizione della presente cartolina di garanzia.

SALVO QUANTO ESPRESSAMENTE STABILITO NELLA PRESENTE GARANZIA LIMITATA, D-LINK NON FORNISCE NESSUN'ALTRA GARANZIA NE' ESPRESSA NE' IMPLICITA, COMPRESSE EVENTUALI GARANZIE DI COMMERCIALIZZABILITÀ O DI IDONEITÀ PER UN PARTICOLARE SCOPO. D-LINK NEGA ESPRESSAMENTE QUALUNQUE ALTRA GARANZIA CHE NON RIENTRI NELLA PRESENTE GARANZIA LIMITATA. QUALSIASI GARANZIA IMPLICITA, CHE DOVESSE ESSERE IMPOSTA PER LEGGE, SARÀ CIRCOSCRITTA ALLA DURATA DELLA PRESENTE GARANZIA. ALCUNI PAESI VIETANO QUALSIASI LIMITAZIONE DEL PERIODO DI VALIDITÀ DELLE GARANZIE IMPLICITE OPPURE L'ESCLUSIONE O LA LIMITAZIONE DEI DANNI INCIDENTALI O CONSEGUENZIALI PER I PRODOTTI. IN TALI PAESI, EVENTUALI ESCLUSIONI O LIMITAZIONI DELLA PRESENTE GARANZIA NON POTRANNO APPLICARSI AL VOSTRO CASO. LA PRESENTE GARANZIA VI CONFERISCE DIRITTI LEGALI SPECIFICI. INOLTRE POTRETE GODERE DI ULTERIORI DIRITTI CHE POSSONO VARIARE A SECONDA DEL PAESE. SIETE INVITATI A CONSULTARE LE LEGGI APPLICABILI DEL VOSTRO PAESE AL FINE DI DETERMINARE CON PRECISIONE I VOSTRI DIRITTI.

La presente garanzia trova applicazione su tutti i prodotti hardware recanti il marchio D-LINK (di seguito denominati collettivamente "Prodotti hardware D-LINK") venduti da D-LINK (Europe) Ltd., dalle sue controllate, dalle sue affiliate, dai rivenditori autorizzati o dai distributori nazionali (di seguito denominati collettivamente "D-LINK"), accompagnati dalla presente garanzia limitata. Il termine "Prodotto hardware D-LINK" si riferisce esclusivamente ai componenti hardware e a tutte le parti interne compreso il firmware. Il termine "Prodotto hardware D-LINK" NON comprende eventuali applicazioni o programmi software.

Ambito geografico della Garanzia limitata

La presente Garanzia è estesa a tutti i Paesi europei elencati nell'appendice "Paesi europei - Garanzia limitata dei prodotti D-LINK". Il termine "Paesi europei" si riferisce esclusivamente ai paesi nominati in questa appendice. La Garanzia verrà riconosciuta in tutti i paesi nei quali D-LINK o i suoi Centri di Assistenza autorizzati offrono assistenza conformemente alle condizioni e ai termini stabiliti nella presente Garanzia. Tuttavia, la disponibilità all'assistenza e i tempi di intervento variano da paese a paese e possono essere soggetti a eventuali requisiti di registrazione.

Limitazione della Garanzia

D-LINK garantisce che i prodotti sotto descritti in condizioni di normale utilizzo non presentano difetti di fabbricazione o vizi di materiale durante il Periodo di garanzia sotto specificato ("Periodo di garanzia"), a condizione che vengano utilizzati e sottoposti a manutenzione in conformità con il manuale d'uso e con ogni altra documentazione fornita all'acquirente all'atto dell'acquisto (e relativi emendamenti). D-LINK non garantisce che il funzionamento del prodotto sarà ininterrotto o esente da errori né tanto meno che tutti gli eventuali errori, carenze, difetti o non conformità potranno essere corretti.

La presente garanzia non copre eventuali problemi derivanti da: (a) alterazioni o aggiunte non autorizzate; (b) negligenza, abuso o utilizzo improprio, compresa l'incapacità di far funzionare il prodotto in conformità con le specifiche e i requisiti di connessione; (c) movimentazione impropria; (d) guasto di prodotti o servizi non forniti da D-LINK o non soggetti a una garanzia successiva di D-LINK o a un accordo di manutenzione; (e) impiego o conservazione impropri; (f) incendio, inondazione, cause di forza maggiore o altro evento catastrofico accidentale. La presente garanzia non si applica altresì ad alcun prodotto particolare qualora il numero di serie di D-LINK sia stato rimosso o reso illeggibile in altro modo.

D-LINK DECLINA OGNI RESPONSABILITÀ PER EVENTUALI DANNI RISULTANTI DAL MANCATO RISPETTO DELLE ISTRUZIONI RELATIVE AL PRODOTTO HARDWARE D-LINK.

Periodo di garanzia

Il Periodo di garanzia ha decorrenza dalla data dell'acquisto presso D-LINK. Prova della data di acquisto è il documento fiscale (scontrino fiscale o ricevuta) recante la data di acquisto del prodotto. Per avere diritto alla garanzia può esservi richiesto di esibire la prova di acquisto. Potete beneficiare delle prestazioni di assistenza previste dalla garanzia in conformità con i termini e le condizioni di cui sotto nel momento in cui il Vostro prodotto hardware D-LINK necessita di una riparazione durante il Periodo di garanzia.

La presente Garanzia si applica esclusivamente al primo acquirente del Prodotto hardware D-LINK e non può essere trasferita a terzi che abbiano ottenuto la proprietà del Prodotto hardware D-LINK dal primo acquirente.

Tipo di prodotto	Periodo di garanzia
Switch (solo switch dotati di agente SNMP incorporato) (inclusi moduli e software di gestione)	5 (cinque) anni
Tutti gli altri prodotti	2 (due) anni
Pezzi di ricambio (es. adattatori esterni di potenza, alimentatori esterni, ventole)	1 (un) anno

Il periodo di garanzia sopra specificato relativamente a tutti i prodotti D-LINK venduti nei Paesi europei da D-LINK o da qualsiasi suo rivenditore o distributore autorizzato decorre dal 1° gennaio 2004. Tutti i prodotti venduti nei Paesi europei da D-LINK o da uno qualsiasi dei suoi rivenditori o distributori autorizzati prima del 1° gennaio 2004 sono coperti da una garanzia di 5 anni fatto salvo per alimentatori, ventole e accessori che hanno 2 anni di garanzia.

Il periodo di garanzia qui menzionato sostituisce qualsiasi altro periodo di garanzia definito nel manuale d'uso o nel contratto di acquisto del prodotto. Se avete acquistato un prodotto D-LINK in qualità di consumatore i Vostri diritti rimangono invariati.

Prestazioni della Garanzia limitata

Qualora comparisse un difetto o una non conformità, D-LINK avrà l'unico obbligo di riparare o sostituire il prodotto non conforme senza alcun costo per l'acquirente a condizione che il prodotto venga restituito a un Centro di Assistenza autorizzato D-LINK entro il periodo di garanzia. La riparazione o la sostituzione verranno eseguite da D-LINK presso un Centro di Assistenza autorizzato D-LINK. Tutti i componenti o i prodotti hardware rimossi conformemente ai termini e alle condizioni della presente garanzia divengono di proprietà di D-LINK. Il pezzo o il prodotto in sostituzione beneficerà della garanzia per il tempo residuo della parte o del prodotto originale. Il prodotto in sostituzione non deve necessariamente essere nuovo o di identica fattura, modello o composizione; D-LINK può a sua discrezione sostituire il prodotto non conforme (o qualsiasi parte di esso) con un prodotto che risulti essere equivalente (o di valore superiore) al prodotto non conforme. D-LINK può richiedere che venga esibita la prova di acquisto.

Garante

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