

**D-Link®**

# PRODUCT GUIDE 2004

*Summer Edition*



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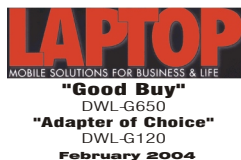
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i2eye DVC-1000  
Innovative Product  
of the Year 2003



BestBuy Award  
DWL-920



i2eye Video Phone  
Game-over's Gamers choice  
2003



2003  
TEAMBOX's Editor's choice  
DWL-810+



AirPlus Product Suite  
Editor's Choice  
2003



The Source for Wi-Fi Business and Technology  
D-Link 802.11a Wireless Product Series  
Electronic Product of the Year 2002

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# IP DSLAM

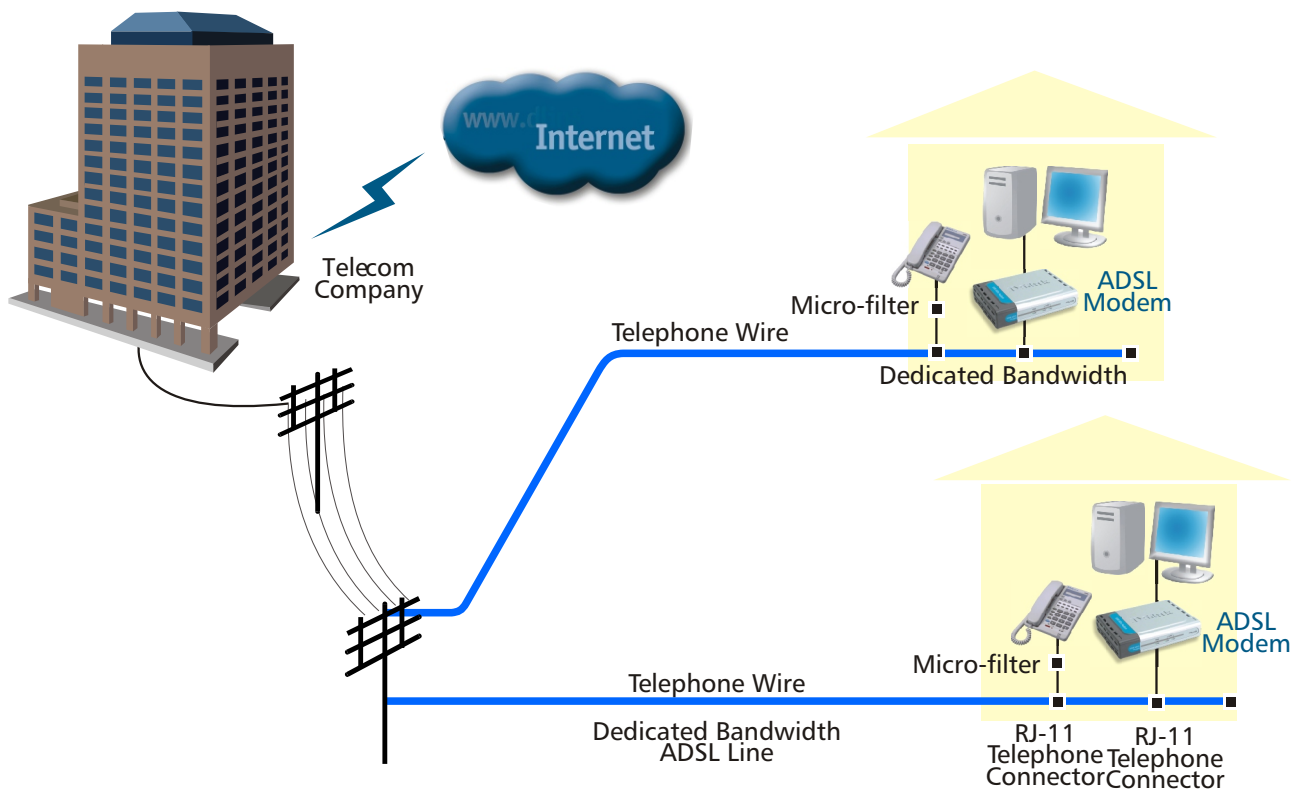
## CO Devices for Broadband Internet Connection

*D-Link IP DSLAM (DSL Access Multiplexer) provides ADSL/ADSL2+ access to CPE (consumer premise equipment) ADSL modems from the subscribers in the multi-unit, multi-tenant buildings. These carrier-class, high performance IP-based DSLAM provide the broadband service to subscribers over the existed telephone line.*

*These IP DSLAM connect to the service provider's public optical network (PON) through their fiber interface, with support for IP protocol. They cost-effectively deliver high-speed Internet access or voice/video service through ADSL and Gigabit Ethernet fiber.*

*Each IP DSLAM provides multiple ADSL port connections, plus built-in ADSL/POTS splitter. Fast Ethernet and Gigabit uplinks to the public optical network options are available.*

*D-Link IP DSLAM extends the broadband service to the end user where the distance from central office may up to 5 km (ADSL) or 6.1 km (ADSL2+). Line performance can offer up to 8Mbps downstream (ADSL) or 10.5Mbps downstream (ADSL2+).*



### ADSL Connection From Households and Other Consumer Premises



## DAS-3216 16-Port IP DSLAM



This standard equipment rack-mountable IP DSLAM provides ADSL access to ADSL modems from the subscribers in the multi-unit, multi-tenant buildings. This DSLAM connects to the service provider's public network through an Ethernet uplink with support for IP protocol.

The DSLAM provides 16 ADSL port connections, with built-in ADSL to POTS splitter per port.

- G.992.1 G.dmt, G.992.2 G.lite, ANSI T1.413 issue 2 (full rate DMT over analog POTS) Annex A
- G.994.1 G.hs auto-negotiation of different ADSL flavors
- 16 ADSL ports (RJ-21 connectors) with per-port ADSL/POTS splitter
- 10/100BASE-TX Ethernet uplink to carriers' network
- 32Kbps/1024Kbps upstream, 32Kbps/8Mbps downstream
- Supports up to 5 km distance (26AWG) from CPE
- 802.1Q VLANs for complete subscriber isolation and performance enhancement
- SNMP v.1, v.2 and web-based management
- Telnet, CLI support
- Fault, performance, configuration, security and subscriber information management
- System event log

## DAS-3248 48-Port IP DSLAM



This standard equipment rack-mountable IP DSLAM provides high-speed ADSL2+ access to ADSL/ADSL2+ modems from the subscribers in the multi-unit, multi-tenant buildings. This DSLAM connects to the service provider's public network through a user-selectable Ethernet or Gigabit uplink.

The DSLAM provides 48 ADSL/ADSL2/ADSL2+ port connections, with built-in ADSL to POTS splitter per port.

Up to 8 units of this DSLAM can be cascaded together and cost-effectively managed as a single unit.

- ADSL: G.992.1 G.dmt, G.992.2 G.lite, ANSI T1.413 issue 2 (full rate DMT over analog POTS) Annex A
- ADSL2: G.992.3 Annex A
- ADSL2+: G.992.5 Annex A
- G.994.1 G.hs auto-negotiation of different ADSL flavors
- 48 ADSL/ADSL2/ADSL2+ ports (RJ-21 connectors) with per-port ADSL/POTS splitter
- Open slot for user-selectable uplink module (connection to carriers' network)
- 32Kbps/1Mbps upstream, 32Kbps/10.5Mbps downstream
- Supports up to 6.1 km distance (26AWG) from CPE
- Security: VLAN (for complete subscriber isolation), MAC filtering, IP filtering, ACL by MAC or IP
- Multicast, 802.1p priority queues support
- Rate limiting by MAC or IP address
- 802.3ad link aggregation support
- 802.1d Spanning Tree for redundant bridge paths
- SNMP v.1, v.2c, v3 and web-based management
- Telnet, CLI support
- Fault, performance, configuration, security and subscriber information management
- System event log

# ADSL Modem & Routers

## CPE Devices for Broadband Internet Connection

*D-Link provides a complete range of ADSL modems and routers for simple and quick connection to the ADSL broadband line. These are Consumer Premise Equipment (CPE) devices that provide convenient connection to individual or groups of computers. With ADSL speed support of up to 8Mbps, a wide range of compatibility, easy installation and a tiny price tag, D-Link ADSL takes your Internet and WAN connection to a new level of convenience and simplicity.*

*D-Link ADSL supports both "always on" and dial-up connections to ISP. "Always-on" eliminates the need to dial to ISP and is ideal for applications like IP telephony. Dial-up connection lets you save ISP charge, it allows you to disconnect from the Internet when you don't need to use it.*

### Standards & Features

- Up to 8Mbps high performance
- Fully compliant with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite)
- G.994.1 (G.hs) auto-handshake for different ADSL flavors
- Protocol support: Bridged Ethernet over ATM, Classical IP over ATM, PPP over ATM, PPP over Ethernet
- Easy configuration, firmware upgradeable

### DSL-200 ADSL Modem

#### USB Interface to Host



Compatible with  
Apple Mac OS X  
(10.2 and higher)



This modem provides simple and quick connection to an ADSL broadband line. It provides a USB 1.1 interface for connection to a PC or Macintosh computer. This modem complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications.

### DSL-300T ADSL Modem

#### Ethernet Interface to Host



This modem provides simple and quick connection to an ADSL broadband line. It provides a 10/100BASE-TX Ethernet interface for connection to a PC or Macintosh computer, a remote router or other hosts. This modem complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex B standards, and is designed for use with ISPs and countries that adopt Annex B specifications.

### DSL-360T ADSL Modem

#### Ethernet Interface to Host



This modem provides simple and quick connection to an ADSL broadband line. It provides a 10/100BASE-TX Ethernet interface for connection to a PC or Macintosh computer, a remote router or other hosts. This modem complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex B standards, and is designed for use with ISPs and countries that adopt Annex B specifications.



## DSL-302T ADSL Modem

*USB & Ethernet Interface to Host*



Compatible with  
Apple Mac OS X  
(10.2 and higher)



This modem provides simple and quick connection to an ADSL broadband line. It provides a USB 1.1 and a 10/100BASE-TX Ethernet interface, allowing connection to two computers (PC or Apple Mac). This modem complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications.

## DSL-362T ADSL Modem

*USB & Ethernet Interface to Host*



Compatible with  
Apple Mac OS X  
(10.2 and higher)



This modem provides simple and quick connection to an ADSL broadband line. It provides a USB 1.1 and a 10/100BASE-TX Ethernet interface, allowing connection to two computers (PC or Apple Mac). This modem complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex B standards, and is designed for use with ISPs and countries that adopt Annex B specifications.

## DSL-500T ADSL Router



This router is designed for home and the small office. It connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications. NAT firewall protection is provided. Network connection is through a 10/100BASE-TX port.

## DSL-560T ADSL Router



This router connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex B standards, and is designed for use with ISPs and countries that adopt Annex B specifications. NAT firewall protection is provided. Network connection is through a 10/100BASE-TX port.

## DSL-502T ADSL Router

*With Additional USB Port*



Compatible with  
Apple Mac OS X  
(10.2 and higher)



This router connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications. NAT firewall protection is provided. Network connection is through a 10/100BASE-TX port. An additional USB 1.1 port allows connection to another PC or Apple Mac.

## DSL-562T ADSL Router

*With Additional USB Port*



Compatible with  
Apple Mac OS X  
(10.2 and higher)



This router connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex B standards, and is designed for use with ISPs and countries that adopt Annex B specifications. NAT firewall protection is provided. Network connection is through a 10/100BASE-TX port. An additional USB 1.1 port allows connection to another PC or Apple Mac.

## **DSL-504T ADSL Router** | *With Built-in 4-Port Switch*



This router connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications. NAT firewall protection is provided. 4 10/100BASE-TX switch ports provide ready connection to workstations/servers.

## **DSL-564T ADSL Router** | *With Built-in 4-Port Switch*



This router connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex B standards, and is designed for use with ISPs and countries that adopt Annex B specifications. NAT firewall protection is provided. 4 10/100BASE-TX switch ports provide ready connection to workstations/servers.

## **DSL-G604T Wireless ADSL Router** | *With Built-in 802.11g WLAN & 4-Port Switch*



This wireless router connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications. NAT firewall protection is provided.

This router incorporates a high-speed 802.11g wireless LAN supporting wireless network speed of up to 54Mbps, allowing a group of wireless users to connect to the ADSL line. In addition, 4 10/100BASE-TX switch ports provide ready connection to 4 wired Ethernet workstations/servers.

## **DSL-G664T Wireless ADSL Router** | *With Built-in 802.11g WLAN & 4-Port Switch*



This wireless router connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

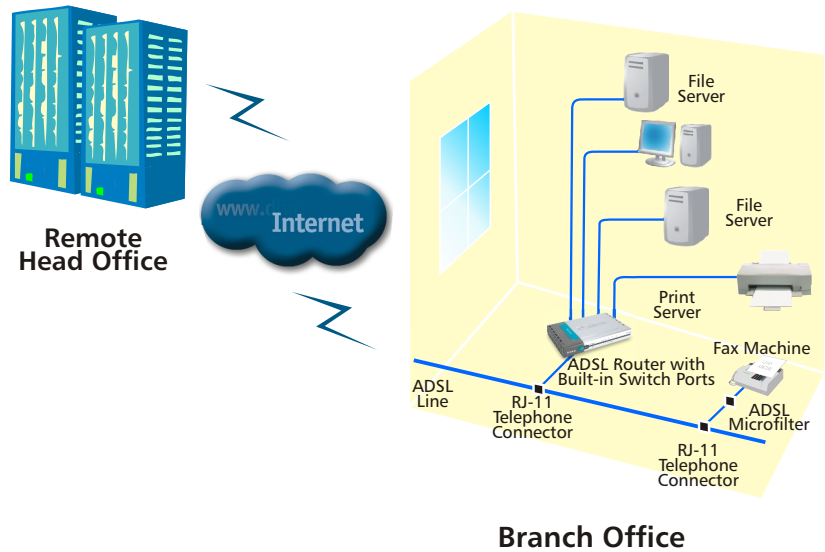
The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex B standards, and is designed for use with ISPs and countries that adopt Annex B specifications. NAT firewall protection is provided.

This router incorporates a high-speed 802.11g wireless LAN supporting wireless network speed of up to 54Mbps, allowing a group of wireless users to connect to the ADSL line. In addition, 4 10/100BASE-TX switch ports provide ready connection to 4 wired Ethernet workstations/servers.



## D-Link Alternative ADSL Solutions

D-Link has different lines of ADSL products providing different solutions to meet the specifications and requirements of different service providers, telecom and countries. The products below represent another line of D-Link ADSL solutions, using a different set of hardware components and chipsets. Besides the ADSL products listed in the Product Guide, D-Link has a number of other ADSL solutions. Please contact your D-Link representatives in your country or territory to find out about our other ADSL solutions.



## Connecting SOHO to Internet and Remote LANs Through ADSL

### DSL-210 ADSL Modem

#### USB Interface to Host



Compatible with Apple Mac OS X (10.2 and higher)



This modem provides simple and quick connection to an ADSL broadband line. It provides a USB 1.1 interface for connection to a PC or Macintosh computer. This modem complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications.

### DSL-310 ADSL Modem

#### Ethernet Interface to Host



This modem provides simple and quick connection to an ADSL broadband line. It provides a 10/100BASE-TX Ethernet interface for connection to a PC or Macintosh computer, a remote router or other hosts. This modem complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications.

### DSL-510 ADSL Router



This router is designed for home and the small office. It connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications. NAT firewall protection is provided. Network connection is through a 10/100BASE-TX port.

### DSL-514 ADSL Router

#### With Built-in 4-Port Switch



This router is designed for home and the small office. It connects a group of users to the broadband Internet to share an ADSL line. The router automatically creates an IP number and assigns it to each user, simplifying everyone's logon operation.

The router provides a built-in modem that complies with T1.413 issue 2, G.992.1 (G.dmt), G.992.2 (G.lite) Annex A standards, and is designed for use with ISPs and countries that adopt Annex A specifications. NAT firewall protection is provided. 4 10/100BASE-TX switch ports provide ready connection to workstations/servers.

# VDSL Switches & Modems

## For High-Bandwidth Multi-Tenant/Multi-Unit Building Deployment

D-Link provides a line of 2-band and 4-band VDSL products designed for the Multi-Tenant Unit (MTU), Multi-Dwelling Unit (MDU) as well as for carrier-class Internet Service applications. The product line includes multi-port VDSL Switches for central site installation and Bridges Remote Units (commonly called "modems") for CPE (Consumer Premise Equipment) site deployment.

D-Link VDSL leverages the high bandwidth of VDSL (Very-High-Data-Rate Digital Subscriber Line) technology, the next step in the delivery of new high-speed Internet applications to home and office users. D-Link VDSL connects to the service provider's public

optical network (PON) through their Gigabit Ethernet fiber interfaces. It provides the last-mile connection by extending the public high-bandwidth network to people living and working in business parks, apartments, dormitories, campus and hospitals.

D-Link VDSL capability to coexist with POTS and ISDN services over the same telephone wire makes it one of the mainstream technologies in providing high-speed, cost-effective, and integrated data/video/voice services to residential users.

### Features & Benefits

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>■ Higher Internet access speeds</li> </ul>   | <p>Operates at much higher speeds than ADSL, allowing smooth delivery of streaming media, video conferencing, media-rich Web surfing and intensive data exchange.</p>   |
| <ul style="list-style-type: none"> <li>■ Uses copper wires in phone line</li> </ul> | <p>Preserves existing cable infrastructure in buildings to deliver multi-megabit throughput to subscribers side.</p>  |
| <ul style="list-style-type: none"> <li>■ Integrated POTS/ISDN splitter</li> </ul>   | <ul style="list-style-type: none"> <li>- Allows service providers to use the same VDSL line to offer both VDSL data service and one line of PSTN or ISDN service.</li> <li>- Makes service deployment easy and cost-effective.</li> </ul> |

### Typical Symmetrical Data Transfer Rates (Upstream/Downstream) \*

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>■ 2-Band VDSL</li> </ul> | <ul style="list-style-type: none"> <li>- 5/5Mbps @ 1,500 m distance from line terminal</li> <li>- 10/10Mbps @ 1,200 m distance from line terminal</li> <li>- 10/15Mbps @ 1,050 m distance from line terminal</li> </ul> |
| <ul style="list-style-type: none"> <li>■ 4-Band VDSL</li> </ul> | <ul style="list-style-type: none"> <li>- 10/30Mbps @ 600 m distance from line terminal</li> <li>- 14.46/14.46Mbps @ 610 m distance from line terminal</li> </ul>  |

\* When packet size is 64bytes, SNR margin is 6dB, under 0.5mm (24AWG) cable, packet error rate is under 5E-5. Line rates may vary according to cable types used.



## DEV-3214 12-Port 4-Band VDSL Switch



This CO (central office) switch provides 12 4-band VDSL ports for access from 12 CPE (consumer premise equipment) subscriber sites. This switch connects to the service provider's public optical network (PON) through the Gigabit Ethernet fiber uplinks.

When the number of subscribers increases, you can cascade multiple switches together to obtain more VDSL ports.

- Complies with ETSI VDSL requirements
- 12 4-band VDSL ports (1 RJ-21 connector)
- Open slot for uplink module
- 802.1p priority queues & per-port bandwidth control
- 802.1Q VLANs for tenant-to-tenant isolation & performance enhancement
- Multicast with IGMP snooping for on-line video application
- 802.1x authentication access security
- SNMP and Web-based management & RMON monitoring

### Optional Port Modules

*For Use With DEV-3214 VDSL Switch*

<b>DES-132</b>	2 10/100BASE-TX Ethernet ports
<b>DES-131F</b>	1 100BASE-FX Ethernet port (multi-mode fiber cable)
<b>DES-132F</b>	2 100BASE-FX Ethernet ports (multi-mode fiber cable)
<b>DES-131FL</b>	1 100BASE-FX Ethernet port (single-mode fiber cable)
<b>DES-132FL</b>	2 100BASE-FX Ethernet ports (single-mode fiber cable)
<b>DEM-320L</b>	2 100BASE-FX Ethernet ports (single-mode fiber cable)
<b>DEM-320S</b>	2 1000BASE-SX fiber Gigabit ports (multi-mode fiber cable)
<b>DES-132T</b>	2 10/100/1000BASE-T copper Gigabit ports
<b>DES-132GB</b>	2 GBIC slots
<b>DEM-320GH</b>	2 GBIC slots

## DHS-3224V, DHS-3224VJ 24-Port 2-Band VDSL Stackable Switch



This CO (central office) stackable switch provides 24 2-band VDSL ports for access from 24 CPE (consumer premise equipment) subscriber sites. This switch connects to the service provider's public optical network (PON) through the Gigabit Ethernet fiber uplinks.

For scalable expansion, you can stack up to 6 units per stack through the stacking ports to get up to 144 VDSL ports.

- **DHS-3224VJ** provides built-in filters and is especially designed for installation in the UK, Germany and other EU countries.

- Complies with ETSI VDSL requirements
- 24 2-band VDSL ports (1 RJ-21 connector)
- Open slot for uplink module
- Stackable to 6 units per stack
- 802.1p priority queues & per-port bandwidth control
- 802.1Q VLANs for tenant-to-tenant isolation & performance enhancement
- Multicast with IGMP snooping for on-line video application
- 802.1x authentication access security
- SNMP and Web-based management & RMON monitoring

### Optional Port Modules

*For Use With DHS-3224V/VJ VDSL Switch*

<b>DHS-321TX</b>	1 10/100BASE-TX Ethernet port
<b>DHS-321FX</b>	1 100BASE-FX Ethernet port (multi-mode fiber cable)
<b>DHS-321FL</b>	1 100BASE-FX Ethernet port (single-mode fiber cable)
<b>DHS-321GL</b>	1 1000BASE-LX fiber Gigabit port (single-mode fiber cable)

## DHS-12SP 12-Port VDSL to POTS Splitter



This device is designed for use with the DEV-3214 VDSL switch. It provides signal splitting between VDSL and POTS for 12 VDSL ports. On the subscriber phone line, high frequency VDSL signals and low frequency voice signal travel on the same line. The Splitter splits the signals at the CO (Central Office) side, allowing VDSL signals to travel on the data network (such as an ISP line), and voice/fax to travel on the PSTN (POTS line).

12 port connections are to the VDSL switch, 12 connections are to the CO side, and 12 connections are to the subscriber side.

- 12 loops on the chassis
- High isolation between VDSL and ISDN/POTS
- RJ-21 connectors for easy connection to wire patch panel

## DHS-24SP 24-Port VDSL to POTS Splitter



This device is designed for use with the DHS-3224V/VJ switch. It provides signal splitting between VDSL and POTS for 24 VDSL ports. On the subscriber phone line, high frequency VDSL signals and low frequency voice signal travel on the same line. The Splitter splits the signals at the CO (Central Office) side, allowing VDSL signals to travel on the data network (such as an ISP line), and voice/fax to travel on the PSTN (POTS line).

24 port connections are to the VDSL switch, 24 connections are to the CO side, and 24 connections are to the subscriber side.

- 24 loops on the chassis
- High isolation between VDSL and ISDN/POTS
- RJ-21 connectors for easy connection to wire patch panel

## DEV-311 4-Band VDSL Modem



This VDSL Modem provides seamless bridging from VDSL to Ethernet, allowing a personal computer or a LAN (connected through a router) to connect to a VDSL line. It supports POTS traffic, including ISDN or digital phones that coexists with Ethernet over VDSL and telephone service over the same line via a built-in POTS splitter. This allows you to have ISDN data while staying connected to VDSL.

Analog voice communication is through the RJ-11 POTS port that can be connected to a telephone set. Telephone service to your telephone is not interrupted when the modem's power is turned off.

- Complies with ETSI VDSL requirements
- 10/100BASE-TX Ethernet port to a computer or router
- RJ-11 VDSL wall line connection
- Additional RJ-11 port for phone connection
- Built-in ISDN/POTS splitter

## DEV-301, DEV-301J 2-Band VDSL Modem



This VDSL Modem provides seamless bridging from VDSL to Ethernet, allowing a personal computer or a LAN (connected through a router) to connect to a VDSL line. It supports POTS traffic, including ISDN or digital phones that coexists with Ethernet over VDSL and telephone service over the same line via a built-in POTS splitter. This allows you to have ISDN data while staying connected to VDSL.

Analog voice communication is through the RJ-11 POTS port that can be connected to a telephone set. Telephone service to your telephone is not interrupted when the modem's power is turned off.

■ **DEV-301J** provides built-in filters and is especially designed for installation in the UK, Germany and other EU countries.

- Complies with ETSI VDSL requirements
- 10/100BASE-TX Ethernet port to a computer or router
- RJ-11 VDSL wall line connection
- Additional RJ-11 port for phone connection
- Built-in ISDN/POTS splitter

## DEV-304, DEV-304J 2-Band VDSL Modem

*With Built-in 4-Port Switch*

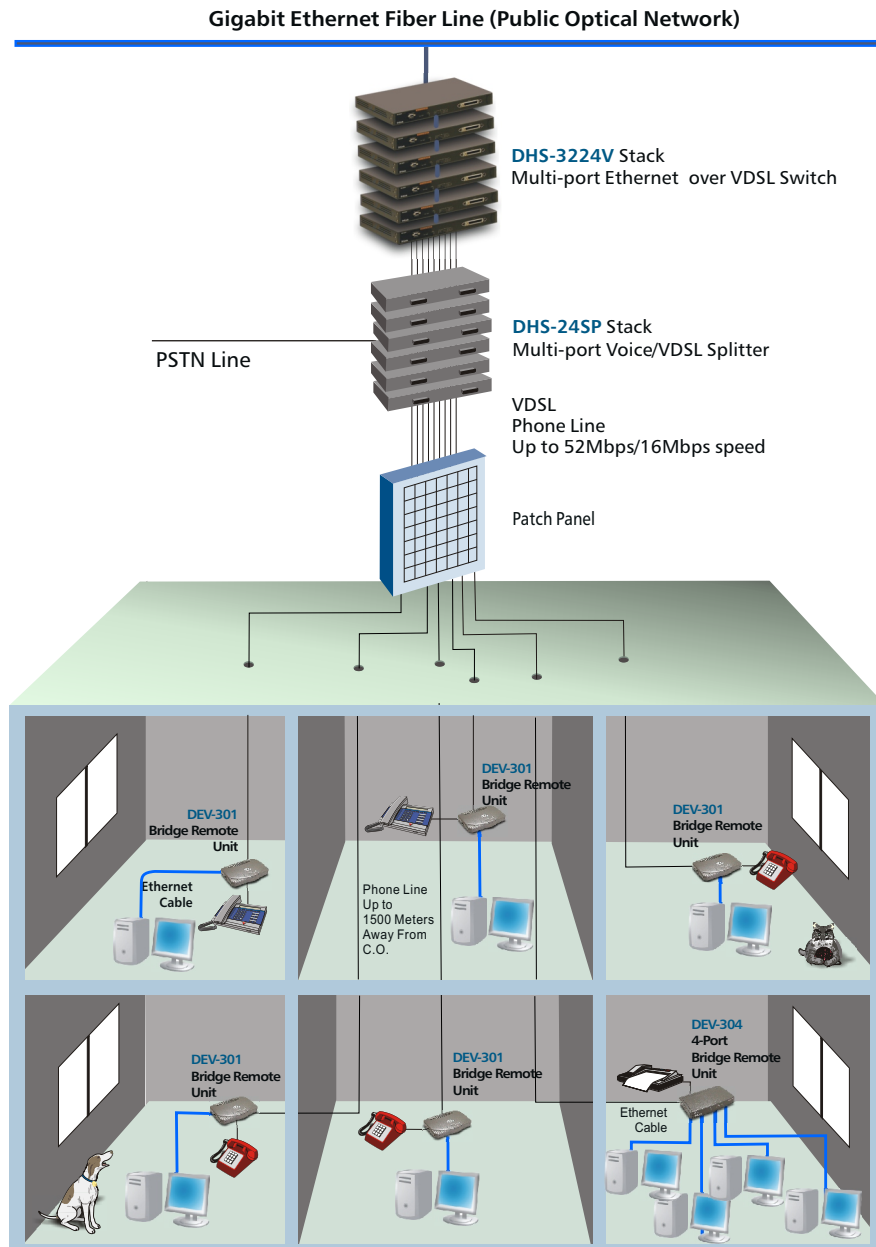


This VDSL Modem provides seamless bridging from VDSL to Ethernet. With 4 built-in 10/100BASE-TX ports, 4 computers can connect to a VDSL line. The modem supports POTS traffic, including ISDN or digital phones that coexists with Ethernet over VDSL and telephone service over the same line via a built-in POTS splitter. This allows you to have ISDN data while staying connected to VDSL.

Analog voice communication is through the RJ-11 POTS port that can be connected to a telephone set. Telephone service to your telephone is not interrupted when the modem's power is turned off.

■ **DEV-304J** provides built-in filters and is especially designed for installation in the UK, Germany and other EU countries.

- Complies with ETSI VDSL requirements
- 4 10/100BASE-TX Ethernet ports for 4 computer connections
- RJ-11 VDSL wall line connection
- Additional RJ-11 port for phone connection
- Built-in ISDN/POTS splitter



## Cable Modems

### For Broadband Internet Connection

D-Link cable modems connect computers and remote routers to a broadband cable network. They provide a standard-based solution to deliver reliable high-speed access over a cable television network to small business, telecommuters and home users.

These high-performance broadband devices bridge radio-wave-like signals sent over cable TV wiring to standard Ethernet LAN connections, which can be plugged into a host's Ethernet interface. The cable modem provides two-way Internet access, delivering the speed required by today's most demanding computer applications.

D-Link cable modems strictly comply with today's cable modem industry standard DOCSIS (Data Over Cable Service Interface Specification). They ensure users of transparent operation, no matter which cable operator network is installed at the subscriber's premise.

A single downstream 6MHz television channel may support up to 30.34Mbps of downstream data throughput from the cable head end using 64 QAM modulation technology. High-speed data transfer up to 38Mbps downstream and 30Mbps upstream is possible over the installed HFC cable plant.

With multiple channels, multiple users support, D-Link cable modems can be used with a wide range of applications, from residential (PCs, Internet gateways) to telecommuter (notebooks, portable computers) to SOHO (routers, VoIP gateways).

SNMP Remote Management MCNS MIBs are also built into the device, allowing network management to be carried out across multi-vendor platforms. Static IP and dynamic (DHCP) IP address requests are supported, enabling efficient management of IP allocations.

#### DCM-201 DOCSIS 1.1 Cable Modem With Ethernet & USB Interfaces



Compatible with  
Apple Mac OS X



This cable modem connects to your router, PC and Apple Mac to a cable modem network through a 10/100BASE-TX Ethernet or USB interface. It supports DOCSIS 1.1 standard.

- DOCSIS 1.1 standard
- 10/100BASE-TX Ethernet or USB 1.1 interface to host (both interfaces provided)
- Automatically finds send/receive data channels
- DES encryption/decryption
- Built-in MCNS MIBs
- SNMP standard management
- Static IP/dynamic (DHCP) IP assignment
- FEC error correction

#### DCM-202 DOCSIS 2.0 Cable Modem With Ethernet & USB Interfaces



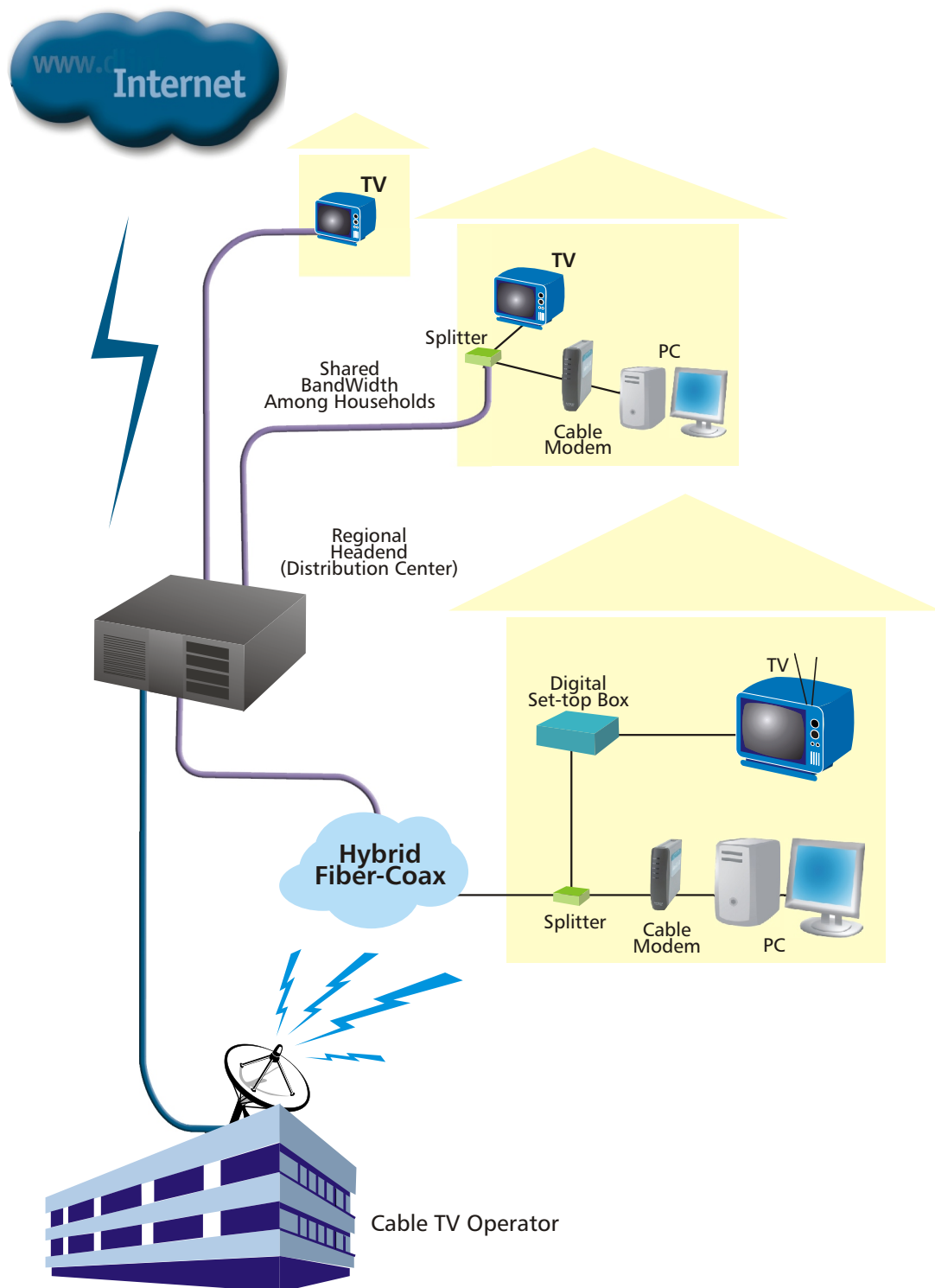
Compatible with  
Apple Mac OS X



This cable modem connects to your router, PC and Apple Mac to a cable modem network through a 10/100BASE-TX Ethernet or USB interface. It supports DOCSIS 2.0 standard.

- DOCSIS 2.0 standard
- 10/100BASE-TX Ethernet or USB interface to host (both interfaces provided)
- Automatically finds send/receive data channels
- DES encryption/decryption
- Built-in MCNS MIBs
- SNMP standard management
- Static IP/dynamic (DHCP) IP assignment
- FEC error correction





Cable Modem Connection From Homes

# ISDN Routers & Terminal Adapters

## For Reliable Multimedia Services

*ISDN (Integrated Services Digital Network), a proven Wide Area Network (WAN) connection, provides fast, reliable transmission, digital security and multimedia services including voice, video and data on the same digital phone line.*

*D-Link provides a line of ISDN Routers and Terminal Adapters for users in countries where ISDN access is abundantly available. These routers connect a group of home users or office workers to the Internet through the ISDN line, while the terminal adapters permit remote users to dial into their office networks from home or other remote sites to access company databases and send in reports.*

*D-Link ISDN Basic Rate Interface (BRI) provides two B data channels, each transmitting at 56Kbps, and one D control signal channel transmitting at 16Kbps. Each B channel can connect to a separate destination, so an ISDN port on a router can link to two different remote sites at the same time. To double the bandwidth, D-Link ISDN can also combine two B channels and connect them to the same destination in a load-sharing fashion.*

*D-Link ISDN routers also support standard Hi/fn™ LZS (Stac®) data compression. This allows the total ISDN line transmission to exceed 256Kbps, when two B channels are combined.*

### DI-304 ISDN Router

#### With Built-in 4-Port Switch



This ISDN Router lets a group of users connect to the Internet through an integrated ISDN Basic Rate Interface (BRI). This router can also be used to connect a branch office to a head office through an ISDN line. The ISDN interface provides two B channels, which can separately connect to 2 different destinations, or can be combined together to double the bandwidth in a load-sharing mode (Bandwidth-on-Demand). Internet gateway function (DHCP server) with NAT firewall protection is provided.

4 built-in Ethernet ports provide convenient connections to 4 computers. Any of these ports can also connect to a DSL or cable modem for broadband WAN connection. You can configure the ISDN interface to the standby mode while the DSL or cable modem is serving as the active WAN link.

- ISDN S/T Basic Rate Interface
- Simultaneous ISDN connection to 2 locations
- PPP/MP protocol support for single 128Kbps ISDN link
- Connect-on-Demand with protocol spoofing
- Hi/fn LZS (Stac®) data compression over ISDN link
- 802.1x authentication RADIUS client support
- SNMP management MIB support
- 4 Built-in 10/100BASE-TX ports for connection to 4 computers
- DSL/cable modem support (with ISDN configured as backup WAN link)
- ISDN network & switch compatibility: (Europe & Asia): DSS1, INS-NET6, NET3, EuroISDN

\* S/T interface requires an external NT-1 device.

## DU-128TA+ ISDN Terminal Adapter *With USB Interface*



Compatible  
With Apple Mac OS 8.6  
or above\*



This ISDN Terminal Adapter connects your PC and Apple Mac to the Internet through an ISDN line. It allows you to dial into your company network from home or other remote sites to access company databases and send in mail and reports.

- ISDN S/T Basic Rate Interface
- USB 1.1 interface to PC or Apple Mac
- CAPI 2.0 driver
- NDIS WAN mini-port drivers
- PPP/MP protocol support for single 128Kbps ISDN link
- Bit-transparent driver on B channel for answering machine, G3 Fax and soft-modem functions
- V.110 and V.120 rate adaptation
- COM port simulation for modem-based application programs
- 14.4Kbps G3 fax and modem and COM port simulation on Mac and Windows
- ISDN network & switch compatibility: E-DSS1 (Euro-ISDN)

\* S/T interface requires an external NT-1 device.

## DP-602 2-Port Router *2 RS-232 Ports for ISDN or Analog Modem Connection*



This 2-Port Router is designed to connect a group of office users to the Internet or to a remote site, such as from a branch office to a corporate network. It provides 2 serial RS-232 COM ports for 2 remote links. With 2 WAN ports, Internet bandwidth can be doubled when needed by connecting ISDN terminal adapters or analog modems to both ports. To prevent bottlenecks, office users can be evenly assigned to individual WAN link, or allowed to access both ports dynamically.

LAN connection is through a 10/100BASE-TX port that connects to an Ethernet switch. Broadband links through DSL or cable modems are also possible. In this configuration, you attach the DSL or cable modems to the Ethernet switch; using the provided software, LAN users are re-routed to the DSL/cable modems, instead of to the WAN ports.

This router comes with bundled IS Mail Server software that allows you to set up a mail server on your office network. IS Mail Server sends/receives mail within your office workgroup, it also sends/receives mail between your office workgroup and outside users via the Internet.

- 2 RS-232 serial COM ports for ISDN TA or analog modem connection
- 10/100BASE-TX Ethernet LAN port
- DSL/cable modem support (through Ethernet switch connected to LAN port)
- DHCP server, virtual servers, NAT firewall protection
- Dial-on-Demand, idle-time auto-disconnect
- Dial-out scheduling
- Parental control with URL/domain blocking
- Log file of Internet users' activities



## 802.11b Wireless LAN

### *Affordable 2.4GHz 802.11b Wireless Network Solutions*

The D-Link Air™ family of 802.11b wireless products operates at up to 11Mbps speed in the 2.4GHz frequency band and is the most cost-effective solution for building a wireless local area network (WLAN) at home and the office.

The affordable D-Link Air™ line features 128-bit WEP data encryption, providing increased security for your data communication. Easy to install, the D-Link Air™ products provide a simple, low-cost solution for user with the basic wireless network needs.





## Features & Benefits

- |                                      |   |
|--------------------------------------|---|
| ■ Cost-effective wireless networking | Low-cost yet effective basic wireless networking gear for home and SOHO users                     |
| ■ 64/128-bit WEP data encryption     | - Data protection in the air<br>- Choices of data encryption to fit user application requirements |
| ■ Wi-Fi™ Protected Access (WPA)      | Better control of user access to your wireless LAN  |

### DI-514 802.11b Wireless Router

#### With Built-in 4-Port Switch



This wireless router connects to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- Up to 11Mbps wireless LAN data transfer rate
- Domain/URL filtering parental control
- WLAN supports Wi-Fi™ Protected Access (WPA) \*
- User-level ACL (Access Control List) & scheduling support
- 64/128-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports

### DWL-700AP 802.11b Wireless Access Point



This AP provides cost-effective yet secure indoor connectivity for wireless users. It combines industry standards with versatile functions like repeater mode, and enhanced security features TKIP, and AES to give you wireless LAN interoperability and functionality at an affordable price.

- Up to 11Mbps network data transfer rate
- Configurable to operate as AP or repeater
- DHCP client/server
- 64/128-bit WEP data encryption
- Wi-Fi™ Protected Access (WPA) support \*
- Embedded AES/TKIP security engine
- SNMP v.2 support
- 10/100BASE-TX port to connect to Ethernet

### DWL-610 802.11b Wireless CardBus Adapter



This CardBus adapter connects your notebook/laptop computer to a 2.4GHz wireless network. It provides secure and cost-effective connection for your computer on a standard 802.11b network. Wi-Fi™ Protected Access (WPA) is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.

- Up to 11Mbps network data transfer rate
- 64/128-bit WEP data encryption
- Wi-Fi™ Protected Access (WPA) support
- Powerful integrated antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-510 802.11b Wireless PCI Adapter



This PCI adapter connects your desktop computer to a 2.4GHz wireless network. It provides secure and cost-effective connection for your computer on a standard 802.11b network. Wi-Fi™ Protected Access (WPA) is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.\*

- Up to 11Mbps network data transfer rate
- 64/128-bit WEP data encryption
- Wi-Fi™ Protected Access (WPA) support \*
- External dipole antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-120 802.11b Wireless USB Adapter



This compact pocket-sized USB adapter connects your computer to a 2.4GHz wireless network through a USB interface (USB 1.1 mini port). It has a unique flip-up, adjustable antenna design, and includes a USB cable, allowing you to position the adapter virtually anywhere in a workspace to achieve the best available wireless signal reception.

Wi-Fi™ Protected Access (WPA) is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.

- Up to 11Mbps network data transfer rate
- USB 1.1 interface to host
- USB cable provided
- 64/128-bit WEP data encryption
- Wi-Fi™ Protected Access (WPA) support
- Flip-up, foldable, adjustable antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-122 802.11b Wireless USB Adapter

*Usable With Windows PC & Apple Mac*



Compatible with Apple Mac OS X



This very compact USB adapter connects your PC or Apple Mac to a 2.4GHz wireless network through a USB interface. It can be plugged directly to a USB port of your computer to provide secure and cost-effective connection on a standard 802.11b network.

Wi-Fi™ Protected Access (WPA) is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.

- Up to 11Mbps network data transfer rate
- USB 1.1 interface to host
- USB extension cable included
- 64/128-bit WEP data encryption
- Wi-Fi™ Protected Access (WPA) support
- Integrated internal antenna
- Operates in Windows 98SE, ME, 2000, XP, MacOS X (10.2 and higher) environments

## DCF-660W/K 802.11b Wireless CompactFlash Card

*With PCMCIA Converter Kit*



This 802.11b Wireless CompactFlash Card Kit includes a DCF-660W CompactFlash wireless LAN card and a PCMCIA converter to allow you to use it with both your PDA and your notebook/laptop computer. The PCMCIA converter allows you to insert the CompactFlash card in a PCMCIA slot of your PC.

- Includes DCF-660W CompactFlash card and PCMCIA converter
- Operates with Windows CE/Pocket PC 2002, Windows 98SE, ME, 2000, XP

## DCF-660W 802.11b Wireless CompactFlash Card



Pocket PC Magazine's  
Choice for Wireless PDA Adapters!  
February 2004



MAXIMUM PC  
Award July 2003



This CompactFlash card connects your PDA to a 2.4GHz wireless network. It provides secure and cost-effective connection on a standard 802.11b network.

Designed as a Type I CompactFlash, this card plugs into any pocket or handheld PC equipped with a Type I slim expansion slot, or a Type II expansion slot. This card has been tested to operate with a long list of PDAs, including Compaq IPAQ series, Casio pocket PCs, HP Jornada, Sharp Telios and Intel Pentium/X86 pocket PCs.

- Up to 11Mbps network data transfer rate
- CompactFlash interface: Type I CF+/CompactFlash 1.4
- 64/128-bit WEP data encryption
- WiFi™ Protected Access (WPA) support \*
- Integrated internal antenna
- Operates with Windows CE/Pocket PC 2002

## DP-311P 802.11b Wireless Single-Port Print Server

*For Parallel Printer*



February 2004



Editor's Choice  
February 2004



March 2004



This compact Single-Port Print Server provides a parallel printer port for convenient printer sharing on a high-speed 802.11g wireless network. Ideal for home and office use, this print server provides great convenience to your wireless printing sharing.

For homes and SOHO with just one printer to share, this print server offers a cost-effective way to share peripherals. For the large office with several printers scattered at different places, you can connect one DP-311P to each of these printers to share them on the network.

- Up to 11Mbps wireless LAN data transfer rate
- Supports parallel printer connection
- 64/128-bit WEP data encryption
- Detachable external dipole antenna
- Print files in Windows, Mac, NetWare (Native NDS) and Unix environments

## DP-311U 802.11b Wireless Single-Port Print Server

*For USB Printer*



This compact Single-Port Print Server provides a USB printer port for convenient printer sharing on a high-speed 802.11g wireless network. Ideal for home and office use, this print server provides great convenience to your wireless printing sharing.

With a WLAN and a 10/100BASE-TX interface, you can share your printer on both a wireless network and a wired Ethernet network.

For homes and SOHO with just one printer to share, this print server offers a cost-effective way to share peripherals. For the large office with several printers scattered at different places, you can connect one DP-311U to each of these printers to share them on the network.

- Up to 11Mbps wireless LAN data transfer rate
- USB 1.1 interface to printer
- 64/128-bit WEP data encryption
- Detachable external dipole antenna
- Print files in Windows, Mac, NetWare (Native NDS) and Unix environments
- 10/100BASE-TX port to connect to Ethernet

\* WPA function available in driver upgrade in near future



## 802.11b+ Wireless LAN

### Enhanced 2.4GHz 802.11b+ Wireless Network Solutions

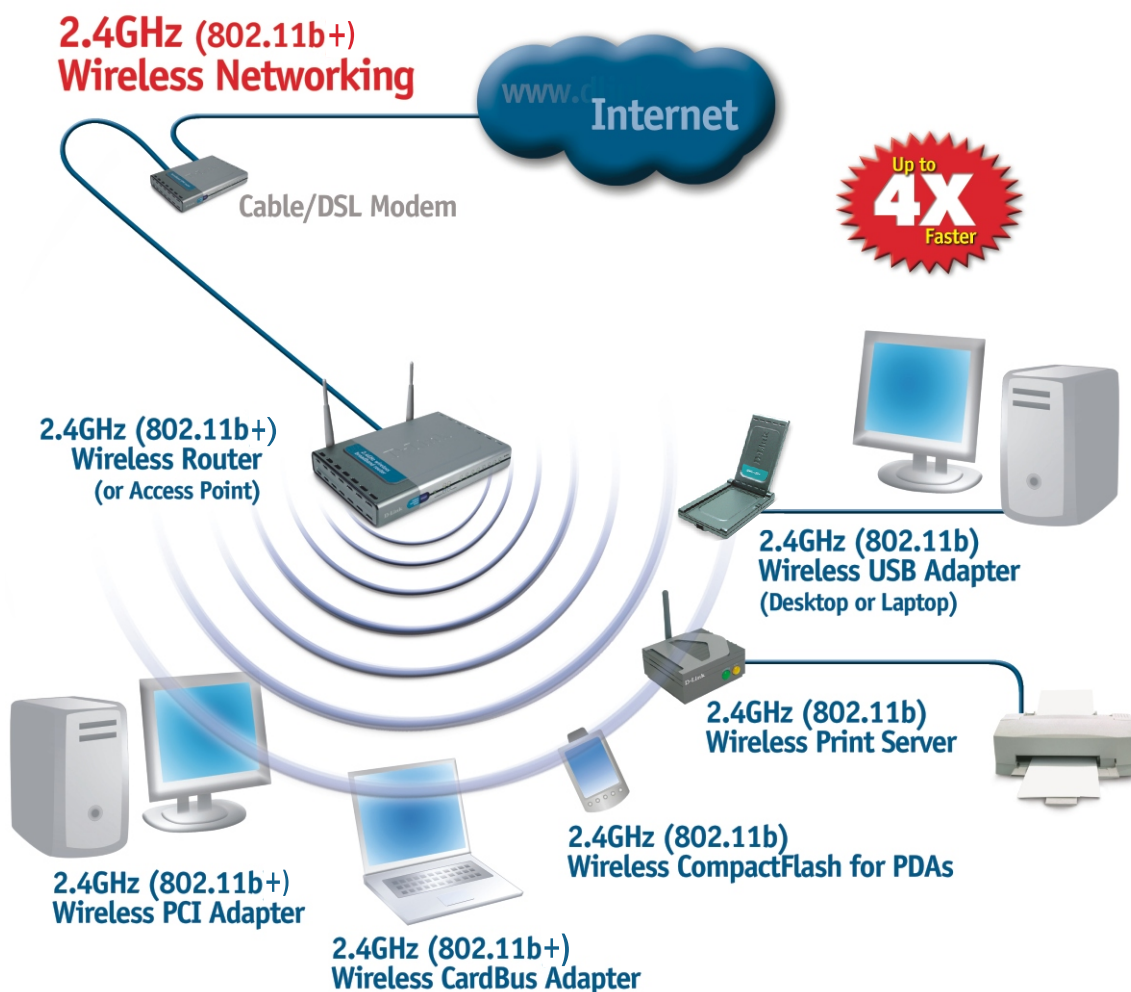
The D-Link AirPlus™ family of wireless products is based on the advanced 802.11b+ silicon chip technology from Texas Instruments, delivering data transfer rate capabilities 4 times faster than the standard 802.11b, while staying 100% compatible with 802.11b.

D-Link AirPlus™ provides a significant performance increase within the popular 802.11b standard and when connected to other D-Link AirPlus products, the performance is even greater.

Increase security and privacy protection are provided by 256-bit WEP data encryption and MAC address authentication. Fully compliant with the IEEE 802.11b standard, D-Link AirPlus™ wireless networking solutions are interoperable with existing 802.11b compliant devices.



D-Link AirPlus  
Wireless LAN Product  
Suite Won  
"THE+ENTERTAINMENT  
+DEPOT"  
2003 Editor's Choice  
Award



## Features & Benefits

- |                                      |  |
|--------------------------------------|--|
| ■ Enhanced high performance          | <ul style="list-style-type: none"> <li>- 22Mbps enhanced network data transfer rate</li> <li>- Real network throughput 4 times faster than the normal 802.11b devices (using D-Link-supplied driver programs and device firmware)</li> </ul> |
| ■ 64/128/256-bit WEP data encryption | <ul style="list-style-type: none"> <li>- Better data protection in the air</li> <li>- More data encryption choices to fit user application requirements</li> </ul>   |
| ■ Wi-Fi™ Protected Access (WPA)      | Better control of user access to your wireless LAN   |
| ■ 802.1x authentication              | Centralized control of user access through a RADIUS server on the network  |
| ■ Compatible with 802.11b            | <ul style="list-style-type: none"> <li>- Compliments existing network devices</li> <li>- Protects previous network investment</li> </ul>   |

### DI-614+ 802.11b+ Wireless Router

*With Built-in 4-Port Switch*

**THE GLOBE AND MAIL**  
Editor's Choice September 2003

Editor's Choice  
globeandmail.com

**PC**  
MAGAZINE  
Editor Rating: ★★★★★

Special  
Top 20  
Gifts  
2002

**PCWORLD**  
★★★★★

**Wi-Fi**  
The Standard for  
Wireless Fidelity.



This enhanced speed wireless router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA and 802.1x authentication) and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- Throughput up 4 times faster than normal 802.11b
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication router access security
- 64/128/256-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports

### DI-714P+ 802.11b+ Wireless Router

*With Built-in 4-Port Switch & Print Server*



This enhanced speed wireless router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA and 802.1x authentication) and firewall protection are provided.

4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections. A parallel printer can also be attached to this router for sharing over the network.

- Throughput up 4 times faster than normal 802.11b
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication router access security
- 64/128/256-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports
- Built-in parallel print server port supporting Windows, MacOS, Linux

### DWL-900AP+ 802.11b+ Wireless Access Point

**Wi-Fi**  
The Standard for  
Wireless Fidelity.



This AP provides the indoor connectivity for wireless users. With enhanced data transfer rates, better security and built-in bridge function, this AP offers fast wireless connectivity while protecting your past investments through interoperability with your current 802.11b network equipment.

User access control functions including WPA and 802.1x authentication RADIUS client are provided. Besides the usual web-based configuration, this AP also provides an easy-to-use Windows-based configuration/management utility.

- Throughput up 4 times faster than normal 802.11b
- Configurable to operate as AP client, point to point bridge, or point to multiple point bridge
- DHCP client/server
- 64/128/256-bit WEP data encryption
- User access control: 802.1x authentication (MD5 and TLS), WPA
- 10/100BASE-TX port to connect to Ethernet



## DWL-650+ 802.11b+Wireless CardBus Adapter



This CardBus adapter connects your notebook/laptop computer to a 2.4GHz wireless network. With enhanced speed and security, this adapter offers fast connection while providing interoperability with current 802.11b equipment.

Wi-Fi™ Protected Access (WPA) and 802.1x authentication are supported, allowing you to operate in a secure network environment.

- Throughput up 4 times faster than normal 802.11b
- WPA & 802.1x authentication security
- 64/128/256-bit WEP data encryption
- Powerful integrated antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-520+ 802.11b+Wireless PCI Adapter



This PCI adapter connects your desktop computer to a 2.4GHz wireless network. With enhanced speed and security, this adapter offers fast connection while staying compatible with current 802.11b network equipment.

Wi-Fi™ Protected Access (WPA) is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.

- Throughput up 4 times faster than normal 802.11b
- WPA & 802.1x authentication security
- 64/128/256-bit WEP data encryption
- External dipole antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-120+ 802.11b+ Wireless USB Adapter



This compact pocket-sized USB adapter connects your computer to a 2.4GHz wireless network through a USB interface (USB 1.1 mini port).

It has a unique flip-up, adjustable antenna design, and includes a USB cable, allowing you to position the adapter virtually anywhere in a workspace to achieve the best available wireless signal reception.

With enhanced security and high network throughput, this adapter offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

- USB 1.1 interface to host
- USB cable provided
- 64/128/256-bit WEP data encryption
- Flip-up, foldable, adjustable antenna
- Operates in Windows 98SE, ME, 2000, XP environments

*\* WPA function available in future driver upgrade.*

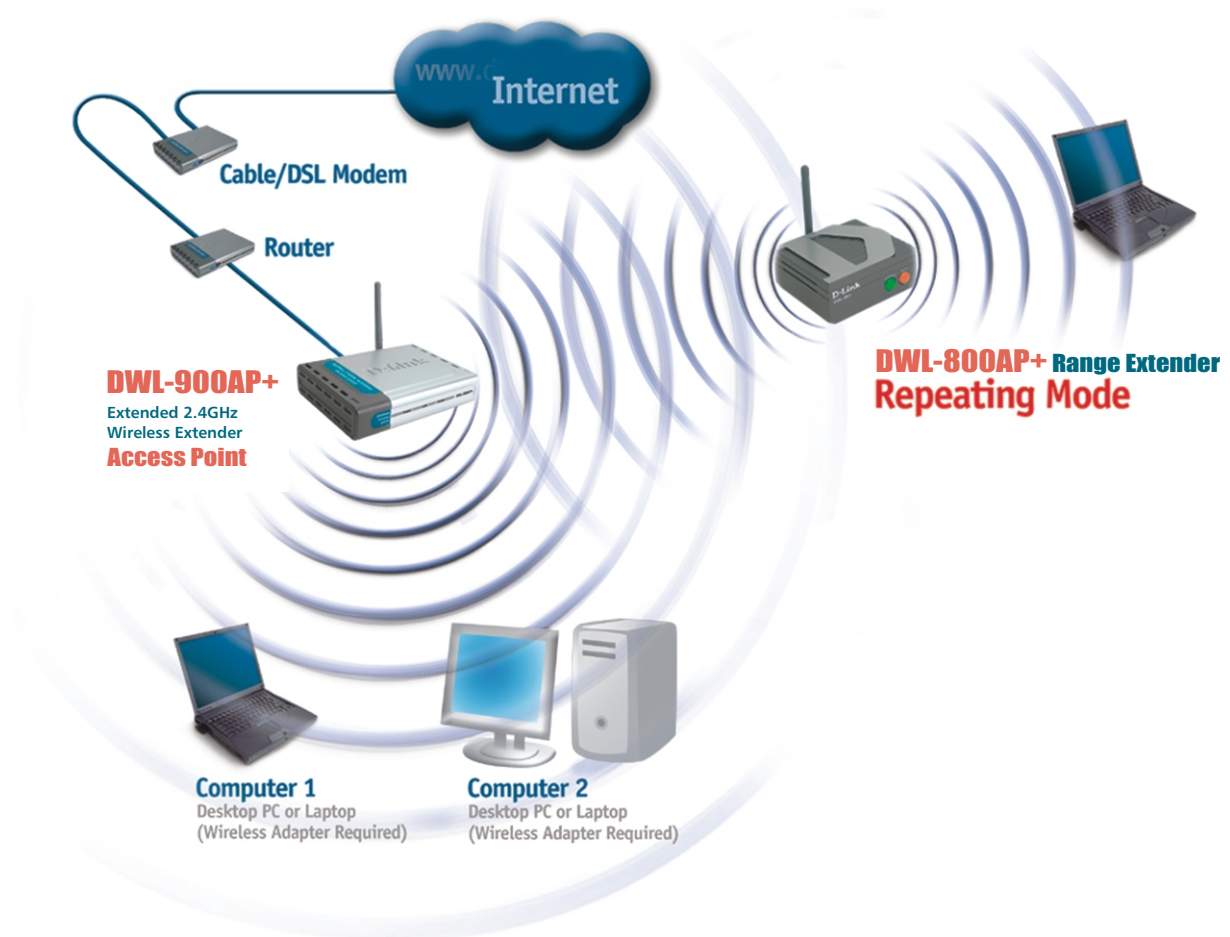
## DWL-800AP+ 802.11b+Wireless Range Extender



This AP has a built-in repeater function that increases the wireless range in large homes and buildings. Range extension can be up to 50% on a 2.4GHz wireless LAN. Transmitting data at high speeds, this device is ideal to extend the reach and number of computers connected on your wireless network.

Repeater signals are provided when this device is deployed in conjunction with either a wireless router or a second access point. The device can receive signals from a wireless router or access point up to 100 meters away, then rebroadcasts the signals to wireless clients beyond the edge of the original network.

- Throughput up 4 times faster than normal 802.11b
- Dual repeater and access point function
- Extends wireless range up to 100 meters
- 64/128/256-bit WEP data encryption
- 10/100BASE-TX port to connect to Ethernet



## Extending the Range of a Wireless Network

## DWL-810+ 802.11b+ Ethernet to Wireless LAN Client Adapter

*Easily Connects PlayStation2, Xbox, GameCube Consoles to Wireless Network*



TEAMBOX's  
Editor's Choice  
2003

**Chicago Tribune**

Recommended Gaming Solution  
March 2004

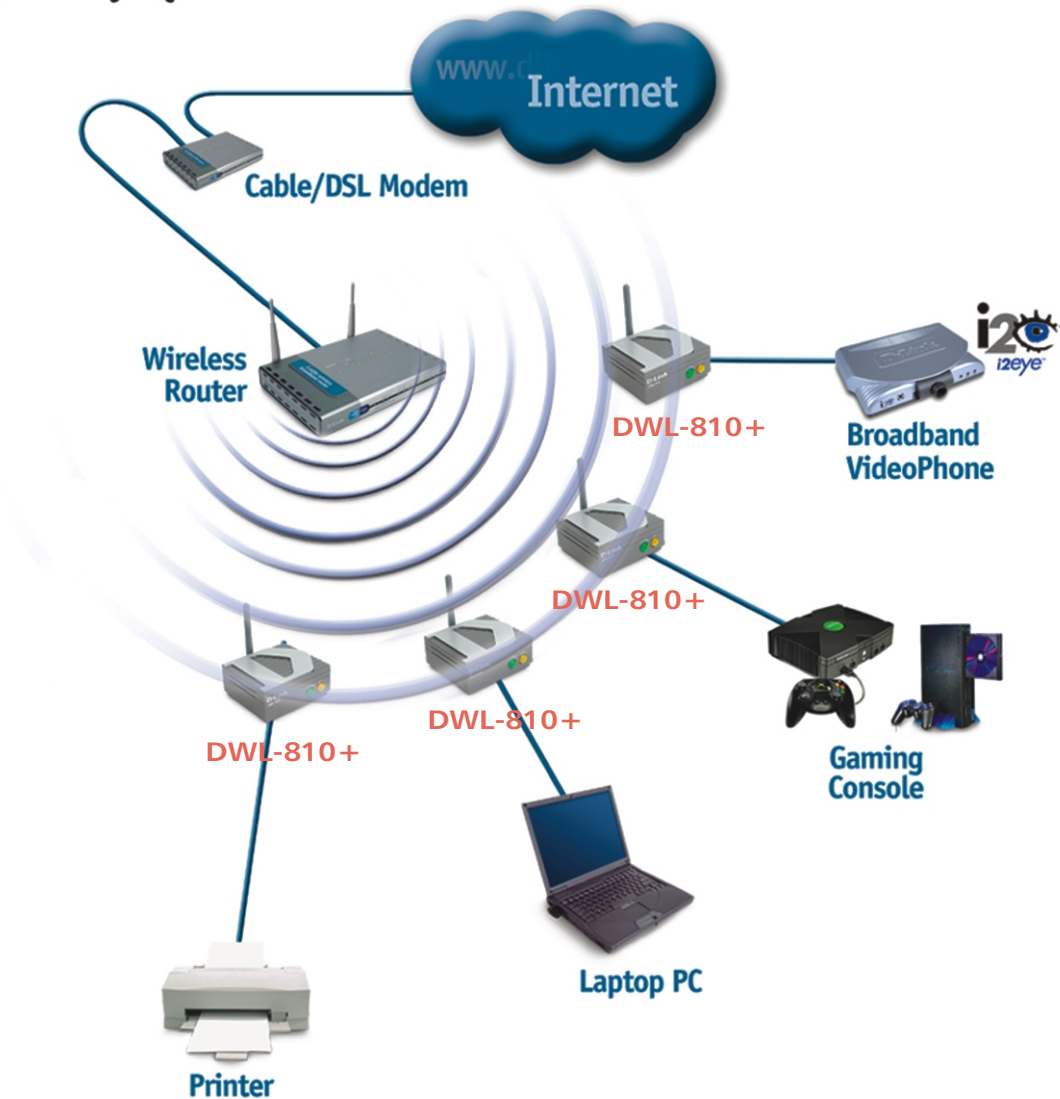


This unique adapter converts virtually any Ethernet device such as set-top box, game console, printer, laptop and desktop computer to a wireless 802.11b+ device. This device acts as a client bridge between Ethernet and a wireless LAN, providing seamless integration between the two network types.

Now you can share Ethernet-enabled printers in the home or office without stringing cable through walls or ceilings. Gamers can join multiple-player video games with others on the Internet wirelessly, using a high-speed broadband connection.

Using this adapter is easy: you simply plug the Ethernet cable from this adapter to the game console, computer or printer. Ad-hoc and infrastructure modes are supported, enabling you to even connect to a wireless network without an AP or wireless router.

- 64/128/256-bit WEP data encryption
- External dipole antenna
- 10/100BASE-TX port to connect to Ethernet
- OS-independent, allowing operation in Windows or any other environment



**Connecting Ethernet Devices to a Wireless Network**



## 802.11g Wireless LAN

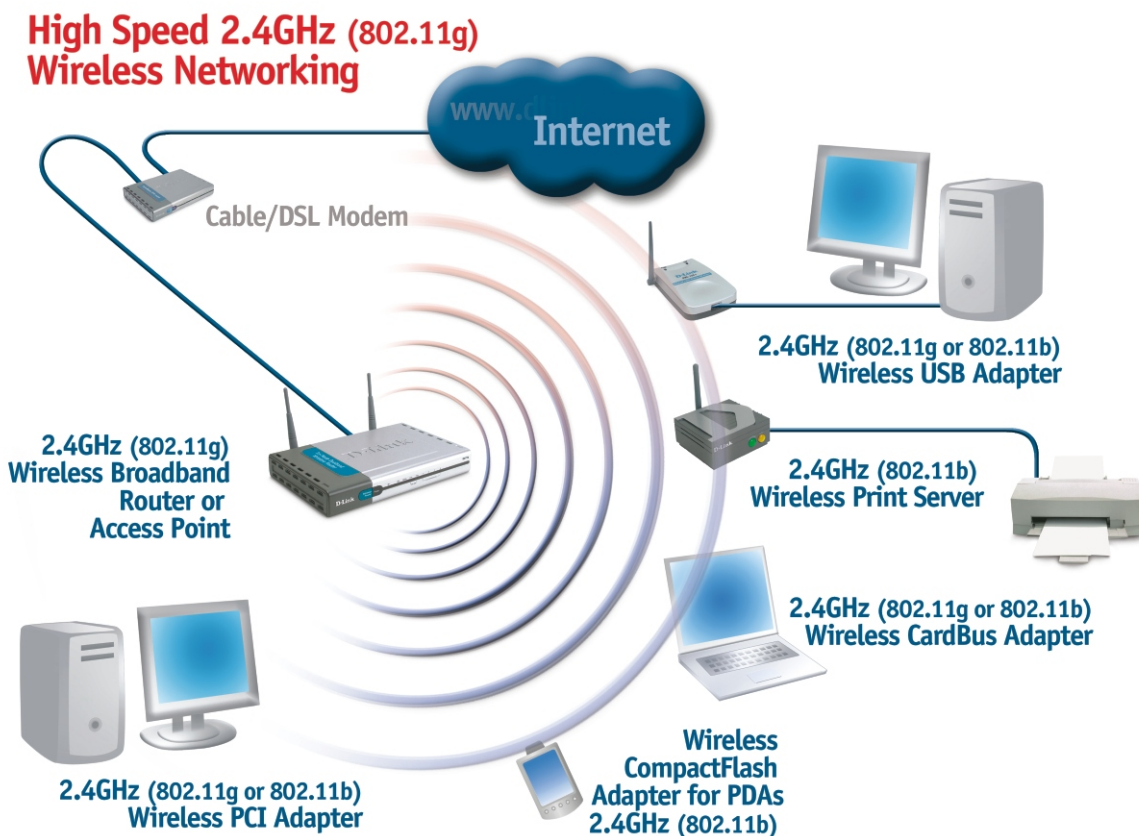
### High-Speed 2.4GHz Wireless Network Solutions

The D-Link AirPlusG™ family of wireless products includes 802.11g high-speed wireless devices that supplement D-Link's other high-performance 802.11g product lines. With this product series, you have the most complete line of 802.11g wireless products, ranging from adapters to remote routers, print servers and Network Attached Storage (NAS).

The D-Link AirPlusG™ products support data transfer rates of up to 54Mbps, and provide seamless interoperability with all existing 802.11b wireless equipment.

This family of WLAN is ideal for home and business users implementing high-bandwidth applications such as audio and video streaming, on-line gaming, and for transferring large files over the wireless network.

With high data transfer rates and backward compatibility with other standards, this product line is the ideal wireless solution that offers an upgrade to a fast, new technology while protecting your past investments in hardware.



## Features & Benefits

- |                                  |  |
|----------------------------------|--|
| ■ Complete product range         | All the wireless devices you may need to supplement your wireless connectivity: adapters, AP, remote routers, print servers and Network Attached Storage (NAS) |
| ■ 802.11g industry standard      | - Great way to expand existing network<br>- Faster speed, interoperable with other 802.11 standards  |
| ■ 2.4GHz frequency band          | - Popular frequency band, now available for public use in most countries<br>- Single 2.4GHz frequency band eliminates the complexity of dualband networking    |
| ■ 54Mbps high data transfer rate | Ideal solution for bandwidth intensive WLAN applications   |
| ■ Wi-Fi™ Protected Access (WPA)  | Better control of user access to your wireless LAN   |
| ■ Compatible with 802.11b        | - Compliments existing network devices<br>- Protects previous network investment   |

### DI-524 802.11g Wireless Router

#### With Built-in 4-Port Switch



This high-speed wireless router provides the expanded user bandwidth for applications like video streaming on wireless LAN. The router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA and 802.1x authentication) and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- Up to 54Mbps wireless speed
- Firewall functions: MAC filtering, Ping of Death attack prevention, SPI, Intrusion Detection, event log
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication, router ACL security
- 64/128-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports

### DWL-G120 802.11g Wireless USB Adapter



This compact pocket-sized USB adapter connects your computer to a 2.4GHz wireless network through a high-speed USB 2.0 interface (USB 2.0 mini port).

It has a unique flip-up, adjustable antenna design, and includes a USB cable, allowing you to position the adapter virtually anywhere in a workspace to achieve the best available wireless signal reception.

With enhanced security and high network throughput, this adapter offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

- Up to 54Mbps wireless speed
- Fast USB 2.0 interface to host
- 1.8 m USB cable provided
- 64/128-bit WEP data encryption
- Flip-up, foldable, adjustable antenna
- Operates in Windows 98SE, ME, 2000, XP environments



## DWL-G 122 802.11g Wireless USB Adapter



This very compact USB adapter connects your computer to a 2.4GHz wireless network through a high-speed USB 2.0 interface. It can be plugged directly into a USB port of your computer. A USB cable with a cradle is provided, so you can connect the cable to your computer and place the adapter in the cradle to position it virtually anywhere in a workspace to achieve the best available wireless signal reception.

With enhanced security and high network throughput, this adapter offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

- Up to 54Mbps wireless speed
- Fast USB 2.0 interface to host
- USB cable with adapter cradle provided
- 64/128-bit WEP data encryption
- Integrated internal antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DP-G310 802.11g Wireless Single-Port Print Server

*For USB Printer*



The Single-Port Print Server provides a high-speed USB 2.0 printer port for convenient printer sharing on a high-speed 802.11g wireless network. Ideal for home and office use, this print server brings a high level of flexibility and performance to your wireless printing need.

For homes and SOHO with just one printer to share, this print server offers a cost-effective way to share peripherals. For the large office with several printers scattered at different places, you can connect one DP-G310 to each of these printers to share them on the network.

- Up to 54Mbps wireless speed
- Fast USB 2.0 connection to printer
- 64/128-bit WEP data encryption
- Detachable external dipole antenna
- 10/100BASE-TX port to share printer over wired Ethernet network too
- Operates in Windows, Mac, NetWare (Native NDS), Linux and Unix environments

## DP-G321 802.11g Wireless Multi-Port Print Server

*For USB & Parallel Printers*



The Multi-Port Print Server provides two high-speed USB 2.0 printer ports and one parallel printer port to let you share up to three printers on a high-speed 802.11g wireless network.

With three printer ports available from a single device, this print server provides the low cost per port for cost-effective peripheral sharing. Designed for the office where printers are closely placed together, this multi-port device allows each of your printers to connect to a printer port through a printer or USB cable.

- Up to 54Mbps wireless speed
- 2 USB 2.0 printer ports, 1 parallel printer port
- WPA security, 802.1x authentication (MD5 and TLS) support (in Windows XP only) -
- 64/128-bit WEP data encryption
- Detachable external diversity antenna
- 10/100BASE-TX port to share printer over wired Ethernet network too
- Operates in Windows, Mac, (NetWare NDS), Linux and Unix environments

## **DNS-121H** 802.11g Wireless Network Attached Storage

*With 1 Hard Drive Bay*



For workgroups and departments that experience rapid data growth, this wireless Network Attached Storage (NAS) lets you add large amounts of storage capacity quickly and cost-effectively, without the need to deploy any computer-based server. For a fraction of the cost of a traditional Windows-based or Mac server, this NAS provides large archive space to store tens of thousands of image files and documents for network sharing.

This NAS comes with Windows and MacOS transparent multi-platform file sharing at power-on. Installation is quick and easy, and requires no network downtime. This NAS comes pre-installed with its own Operating System and ready configuration setup.

- Up to 54Mbps wireless speed
- WPA security, 802.1x authentication (MD5 and TLS) support (in Windows XP environment only)
- 64/128-bit WEP data encryption
- Detachable external diversity antenna
- 1 hard drive bay
- 2 high-speed USB 2.0 ports to connect to peripherals (printer, HD, CDR, etc.)
- Printer server function support
- UPnP support for easy configuration
- Auto disk scanning, restock and format policy
- System configuration file backup
- E-mail notification
- Security: user account database, sharing of folder access control by single user or groups
- System log with NTP (Network Time Protocol) support
- 10/100BASE-TX port to connect to wired Ethernet too
- Operates in Windows and Mac environments

## **DNS-122C** 802.11g Wireless Network Attached Storage

*With 2 Hard Drive Bay & CDR-W*



For workgroups and departments that experience rapid data growth, this wireless Network Attached Storage (NAS) lets you add large amounts of storage capacity quickly and cost-effectively, without the need to deploy any computer-based server. For a fraction of the cost of a traditional Windows-based or Mac server, this NAS provides large archive space to store tens of thousands of image files and documents for network sharing.

This NAS comes with Windows and MacOS transparent multi-platform file sharing at power-on. Installation is quick and easy, and requires no network downtime. This NAS comes pre-installed with its own Operating System and ready configuration setup.

- Up to 54Mbps wireless speed
- WPA security, 802.1x authentication (MD5 and TLS) support (in Windows XP environment only)
- 64/128-bit WEP data encryption
- Detachable external diversity antenna
- 2 hard drive bays
- 1 CDR-W provided
- 2 high-speed USB 2.0 ports to connect to peripherals (printer, HD, etc.)
- Printer server function support
- UPnP support for easy configuration
- Auto disk scanning, restock and format policy
- System configuration file backup
- E-mail notification
- Security: user account database, sharing of folder access control by single user or groups
- System log with NTP (Network Time Protocol) support
- 10/100BASE-TX port to connect to wired Ethernet too
- Operates in Windows and Mac environments

## DPG-2000W 802.11g Wireless Presentation Gateway



This device operates as an AP for easy wireless connection from PCs equipped with 802.11b/g WLAN. It attaches to a VGA connector of your projector or monitor and allows you to carry out your presentations from anywhere in the conference room without constraints from the projector/monitor cable or network wires.

Where multiple presenters must give presentations in rapid succession, this device allows for fast handover of the projector without the hassle of removing and re-attaching the VGA cable. A Windows-based interface allows quick rotation of presentation among multiple presenters without requiring them to touch a single cable.

- Up to 54Mbps wireless speed
- Real Time Display of PowerPoint Presentations, JPEG images and applications
- Standard VGA connector, operates with any presentation projector
- Automatic scanning for clearest channel to avoid duplicated SSID
- No need to change IP address settings of wireless card in user PC
- Direct access to video buffer for real-time updates of the projected images
- Automatic re-connection of sessions/wireless link
- User customizable meeting agenda, conference logo banner image for display

### Laptop Running PowerPoint Presentation





## 802.11g Wireless LAN

### High-Speed 2.4GHz Wireless Network Solutions

The D-Link AirPlusG+ products are 802.11g high-performance wireless devices that operate at 10 times faster in throughput than the standard 802.11b. These devices support data transfer rates of up to 54Mbps, and real throughput 10 times faster than 802.11b when operating with other D-Link AirPlusG+ devices. Seamless interoperability with all existing 802.11b and 802.11b+ wireless equipment is provided.

This family of WLAN is ideal for home and business users implementing high-bandwidth applications such as audio

and video streaming, on-line gaming, and for transferring large files over the wireless network.

With high data transfer rates and backward compatibility with other standards, this product line is the ideal wireless solution that offers an upgrade to a fast, new technology while protecting your past investments in hardware.



#### Features & Benefits

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>■ 802.11g industry standard</li> </ul>             | <ul style="list-style-type: none"> <li>- Great way to expand existing network</li> <li>- Faster speed, interoperable with other 802.11 standards</li> </ul>  |
| <ul style="list-style-type: none"> <li>■ 2.4GHz frequency band</li> </ul>                 | <ul style="list-style-type: none"> <li>- Popular frequency band, now available for public use in most countries</li> <li>- Single 2.4GHz frequency band eliminates the complexity of dualband networking</li> </ul>  |
| <ul style="list-style-type: none"> <li>■ Real throughput up to 10 times faster</li> </ul> | <ul style="list-style-type: none"> <li>- Enhanced performance made available through driver programs and firmware</li> <li>- 10 times faster real throughput than previous 802.11b.</li> <li>- Ideal solution for bandwidth intensive WLAN applications</li> </ul> |
| <ul style="list-style-type: none"> <li>■ 64/128/256-bit WEP data encryption</li> </ul>    | <ul style="list-style-type: none"> <li>- Better data protection in the air</li> <li>- More data encryption choices to fit user application requirements</li> </ul>   |
| <ul style="list-style-type: none"> <li>■ Wi-Fi™ Protected Access (WPA)</li> </ul>         | <p>Better control of user access to your wireless LAN</p>  |
| <ul style="list-style-type: none"> <li>■ Compatible with 802.11b and 802.11b+</li> </ul>  | <ul style="list-style-type: none"> <li>- Backward compatible with not just 802.11b, but with 802.11b+ as well</li> <li>- Compliments existing network devices</li> <li>- Protects previous network investment</li> </ul>   |

## **DI-624+ 802.11g Wireless Router** | *With Built-in 4-Port Switch*



This high-speed wireless router provides the expanded user bandwidth for applications like video streaming on wireless LAN. The router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA and 802.1x authentication) and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- Real throughput 10 times faster than 802.11b
- Firewall functions: MAC filtering, Ping of Death attack prevention, SPI, Intrusion Detection, event log
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication, router ACL security
- 64/128/256-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports

## **DI-724P+ 802.11g Wireless Router** | *With Built-in 4-Port Switch & Parallel/USB Print Server*



This high-speed wireless router provides the expanded user bandwidth for applications like video streaming on wireless LAN. The router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA and 802.1x authentication) and firewall protection are provided.

4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections. A parallel and USB printer can also be attached to this router for sharing over the network.

- Real throughput 10 times faster than 802.11b
- Dynamic Channel Selection (auto-selection of least utilized channel of operation)
- Firewall functions: MAC filtering, Ping of Death prevention, SPI, Intrusion Detection, event log
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication, router ACL security
- 64/128/256-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports
- Built-in parallel/USB print server supporting Windows, MacOS, Linux

## **DI-824VUP+ 802.11g Wireless VPN Router** | *With Built-in 4-Port Switch & Parallel/USB Print Server*



This versatile high-speed wireless VPN router combines the robust VPN firewall security and expanded user bandwidth capability for applications like video streaming on wireless LAN. The router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA and 802.1x authentication) and firewall protection are provided.

The router is equipped with embedded VPN support, allowing you to create multiple IPSec tunnels to remote sites/clients. VPN tunnels can be activated from the router to remote sites or mobile users for secured traffic flow using data encryption over the WAN links, allowing users to confidentially access and transfer sensitive company information. The router also supports VPN pass-through for those who want to use their own VPN client software.

4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections. A parallel printer and a USB printer can also be attached to this router for sharing over the network.

- Real throughput 10 times faster than 802.11b
- Dynamic Channel Selection (auto-selection of least utilized channel of operation)
- Firewall functions: MAC filtering, Ping of Death prevention, SPI, Intrusion Detection, event log
- Domain/URL filtering parental control
- Supports IPSec tunnels and VPN pass-through
- Wireless WPA, 802.1x authentication, router ACL security
- 64/128/256-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports
- Built-in parallel/USB print server supporting Windows, MacOS



## DWL-2000AP+ 802.11g Wireless Access Point



This AP provides the high-performance indoor connectivity for wireless users. With high data transfer rates, better security and built-in bridge function, this AP is the ideal wireless solution that offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

User access control functions including WPA and 802.1x authentication RADIUS client are provided. Besides the usual web-based configuration, this AP also provides an easy-to-use Windows-based configuration/management utility.

- Real throughput 10 times faster than 802.11b
- Configurable to operate as AP client, point to point bridge, point to multiple point bridge, or repeater.
- DHCP client/server
- 64/128/256-bit WEP data encryption
- User access control: 802.1x authentication (MD5 and TLS), WPA
- MAC filtering, SSID broadcast disable
- 10/100BASE-TX port to connect to Ethernet

## DWL-G650+ 802.11g Wireless CardBus Adapter



This high-speed CardBus adapter connects your notebook/laptop computer to a 2.4GHz wireless network. With enhanced security and high network throughput, this adapter offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

Wi-Fi™ Protected Access (WPA) and 802.1x authentication are supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers, and centralized RADIUS server.

- Real throughput 10 times faster than 802.11b
- WPA security, 802.1x authentication (MD5 and TLS) support (in Windows XP only)
- 64/128/256-bit WEP data encryption
- Powerful integrated antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-G520+ 802.11g Wireless PCI Adapter



This high-speed PCI adapter connects your desktop computer to a 2.4GHz wireless network. With enhanced security and high network throughput, this adapter offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

Wi-Fi™ Protected Access (WPA) and 802.1x authentication are supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers, and centralized RADIUS server.

- Real throughput 10 times faster than 802.11b
- WPA security, 802.1x authentication (MD5 and TLS) support (in Windows XP only)
- 64/128/256-bit WEP data encryption
- External diversity patch antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-G810+ 802.11g Ethernet to Wireless LAN Client Adapter



*Easily Connects PlayStation2, Xbox, GameCube Consoles to Wireless Network*

This unique adapter converts virtually any Ethernet device such as set-top box, game console, printer, laptop and desktop computer to a high-speed 802.11g wireless device. This device acts as a client bridge between Ethernet and a wireless LAN, providing seamless integration between the two network types.

Now you can share Ethernet-enabled printers in the home or office without stringing cable through walls or ceilings. Gamers can join multiple-player video games with others on the Internet wirelessly, using a high-speed broadband connection.

Using this adapter is easy: you simply plug the Ethernet cable from this adapter to the game console, computer or printer. Ad-hoc and infrastructure modes are supported, enabling you to even connect to a wireless network without an AP or wireless router.

- 64/128/256-bit WEP data encryption
- External dipole antenna
- 10/100BASE-TX port to connect to Ethernet
- OS-independent, allowing operation in Windows or any other environment



## 802.11g Wireless LAN

### High-Speed 2.4GHz Wireless Network Solutions

The D-Link AirPlus Xtreme G™ products are 802.11g high-performance wireless devices that operate at 15 times faster in throughput than the standard 802.11b. These devices support data transfer rates of up to 108Mbps (Turbo mode), while providing seamless interoperability with all existing 802.11b wireless equipment.

This family of WLAN is ideal for home and business

users implementing high-bandwidth applications such as audio and video streaming, on-line gaming, and for transferring large files over the wireless network.

With high data transfer rates and backward compatibility with other standards, this product line is the ideal wireless solution that offers an upgrade to a fast, new technology



#### Features & Benefits

- |   |   |
|---|---|
| ■ 802.11g industry standard             | - Great way to expand existing network<br>- Faster speed, interoperable with other 802.11 standards   |
| ■ 2.4GHz frequency band                 | - Popular frequency band, now available for public use in most Countries<br>- Single 2.4GHz frequency band eliminates the complexity of dualband networking   |
| ■ Real throughput up to 15 times faster | - Enhanced performance made available through driver programs and firmware<br>- 15 times faster real throughput than previous 802.11b (Turbo mode through driver programs and device firmware).<br>- Ideal solution for bandwidth intensive WLAN applications |
| ■ 64/128/152-bit WEP data encryption    | - Better data protection in the air<br>- More data encryption choices to fit user application requirements  |
| ■ Wi-Fi™ Protected Access (WPA)         | Better control of user access to your wireless LAN  |
| ■ Compatible with 802.11b               | - Compliments existing network devices<br>- Protects previous network investment  |

## DI-624 802.11g Wireless Router

*With Built-in 4-Port Switch*



This high-speed wireless router provides the expanded user bandwidth for applications like video streaming on wireless LAN. The router connects to the Internet through a broadband DSL or cable modem. Wi-Fi™ Protected Access (WPA) and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- Real throughput 15 times faster than 802.11b
- Firewall functions: MAC filtering, Ping of Death attack prevention, SPI, Intrusion Detection, event log
- Domain/URL filtering parental control
- Wireless WPA, router ACL security
- 64/128/152-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports



"Pick-O-The-Crop"  
February 2004



Recommended  
March 2004



★★★★  
4 Stars Rating  
March 2004



Wi-Fi POWER  
Canada's Wi-Fi Business Solutions Show  
"Best in Show"  
March 2004

## DWL-2100AP 802.11g Wireless Access Point



This AP provides the high-performance indoor connectivity for wireless users. With high data transfer rates, better security and built-in bridge function, this AP is the ideal wireless solution that offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

User access control functions including Wi-Fi™ Protected Access (WPA) and Access Control List (ACL) are provided. The device can be configured through a web browser.

- Up to 108Mbps network data transfer
- Configurable to operate as AP client, point to point bridge, or point to multiple point bridge
- DHCP client/server
- 64/128/152-bit WEP data encryption
- ACL and WPA access security
- 10/100BASE-TX port to connect to Ethernet

## DWL-G650 802.11g Wireless CardBus Adapter



This high-speed CardBus adapter connects your notebook/laptop computer to a 2.4GHz wireless network. With enhanced security and high network throughput, this adapter offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

Wi-Fi™ Protected Access (WPA) is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.

- Real throughput 15 times faster than 802.11b
- WPA security
- 64/128/152-bit WEP data encryption
- Powerful integrated antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-G520 802.11g Wireless PCI Adapter



This high-speed PCI adapter connects your desktop computer to a 2.4GHz wireless network. With enhanced security and high network throughput, this adapter offers an upgrade to a fast, new technology while protecting your past investments through interoperability with your current network equipment.

Wi-Fi™ Protected Access (WPA) is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.



- Real throughput 15 times faster than 802.11b
- WPA security
- 64/128/152-bit WEP data encryption
- External dipole antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-G810 802.11g Ethernet to Wireless LAN Client Adapter

*Easily Connects PlayStation2, Xbox, GameCube Consoles to Wireless Network*



This unique adapter converts virtually any Ethernet device such as set-top box, game console, printer, laptop and desktop computer to a wireless 802.11g high-performance device. This device acts as a client bridge between Ethernet and a wireless LAN, providing seamless integration between the two network types.

Now you can share Ethernet-enabled printers in the home or office without stringing cable through walls or ceilings. Gamers can join multiple-player video games with others on the Internet wirelessly, using a high-speed broadband connection.

Using this adapter is easy: you simply plug the Ethernet cable from this adapter to the game console, computer or printer. Ad-hoc and infrastructure modes are supported, enabling you to even connect to a wireless network without an AP or wireless router.



- 64/128/152-bit WEP data encryption
- External dipole antenna
- 10/100BASE-TX port to connect to Ethernet
- OS-independent, allowing operation in Windows or any other environment

## AirPremier AG™

### 802.11a/g Wireless LAN

#### High-Speed Dualband, Tri-Mode Wireless Network Solutions

The D-Link AirPremierAG™ product line uses both the 5GHz and 2.4GHz frequencies, incorporating 802.11a, 802.11b and 802.11g wireless LAN standards to make it compatible with virtually all existing 802.11 networks.

This wireless LAN series provides the most expanded user bandwidth available in a router. Hundreds of wireless clients can connect to this network using any one of its non-overlapping channels to transfer data at speeds up to 15 times faster than 802.11b previous wireless devices.

D-Link's AirPremierAG™ offers data transfer rates of up to 108Mbps Turbo Mode in either the 2.4GHz or 5GHz bands. Large data can travel across the network

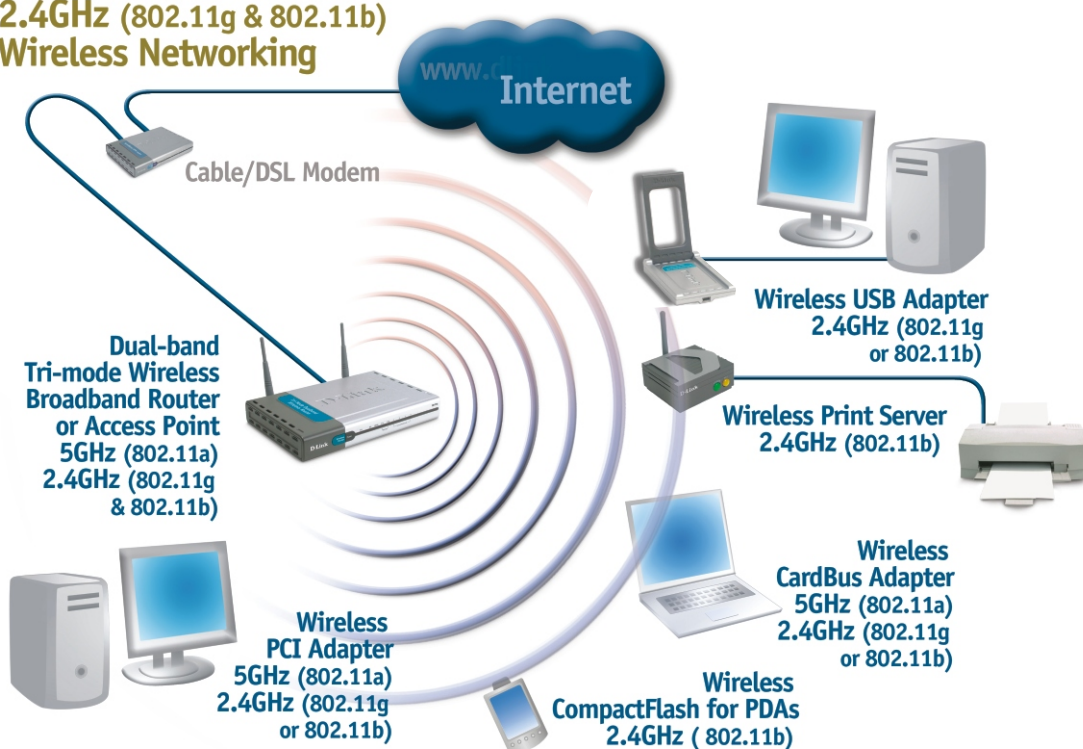
at up to 15 times the throughput of previous 802.11b wireless devices, enabling everyone to work faster and watch streaming video smoothly.

Through the user access control functions in the AirPremierAG™ devices such as wireless routers and access points, network administrators can segment users on the wireless network by frequency band. Users who require special networking privilege access to sensitive company data, video conferencing, or connectivity to specific departments may use just the 802.11a channels, while other employees may just use the 802.11b and 802.11g channels. This type of user segmentation optimizes the router's performance and delivers the best network experience to each set of users.

\* 108Mbps Turbo mode operation on 5GHz frequency band not allowed in EU countries



#### A/B/G Dual-band Tri-mode 5GHz (802.11a) 2.4GHz (802.11g & 802.11b) Wireless Networking





## Features & Benefits

- |   |  |
|---|--|
| ■ 802.11a, 11g industry standards           | <ul style="list-style-type: none"> <li>- Great way to expand existing network</li> <li>- Enables more users to communicate, access data and the Internet.</li> <li>- Provides the convenience of wireless networking.</li> </ul> |
| ■ Dualband operation                        | <ul style="list-style-type: none"> <li>- Seamless and simultaneous operation on both 2.4GHz and 5GHz Frequencies</li> <li>- Abundant frequency band available using non-overlapping channels</li> </ul>                          |
| ■ Up to 108Mbps real throughput             | Turbo Mode in driver programs and firmware, 15 times faster than previous 802.11b throughput on both frequency bands   |
| ■ 64/128/152-bit WEP data encryption        | <ul style="list-style-type: none"> <li>- Better data protection in the air</li> <li>- More data encryption choices to fit user application requirements</li> </ul>   |
| ■ Wi-Fi™ Protected Access (WPA)             | Better control of user access to your wireless LAN   |
| ■ Backward compatible with existing 802.11b | <ul style="list-style-type: none"> <li>- Compliments existing network devices</li> <li>- Protect previous network investment</li> </ul>  |
| ■ Network segmentation                      | Segment network by frequency band for users with privilege access and video conference requirements, and users with normal network access.   |

### DI-784 802.11a/g Wireless Router

*With Built-in 4-Port Switch*



This high-speed dualband wireless router provides the most expanded user bandwidth available in a router. Hundreds of wireless clients can connect to this router using any one of its non-overlapping channels to transfer data at up to 108Mbps.

This router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA) and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- Up to 108Mbps Turbo Mode wireless speed
- Firewall functions: MAC filtering, SSID broadcast disable, SPI, Intrusion Detection, event log Domain/URL filtering parental control
- Wireless WPA, router ACL security
- 64/128/152-bit WEP data encryption
- 4 built-in 10/100BASE-TX switch ports

### DWL-7100AP 802.11a/g Wireless Access Point



This high-speed dualband wireless access point provides the most expanded user bandwidth. Hundreds of wireless clients can connect to this AP using any one of its non-overlapping channels to transfer data at up to 108Mbps.

This AP can also be configured to operate as a wireless bridge (point to point, and point to multiple points), or as a repeater to extend the wireless operation range. User access control functions including WPA and 802.1x authentication RADIUS client are provided.

- Up to 108Mbps Turbo Mode wireless speed
- Configurable to operate as AP client, point to point bridge, point to multiple point bridge, repeater
- DFS/TPC function for European operation
- WPA security support
- 64/128/152-bit WEP data encryption
- 10/100BASE-TX port to connect to Ethernet

## DWL-7200AP 802.11a/g Wireless Access Point *With Built-in PoE*



This AP provides the same functions as the DWL-7100AP. In addition, it provides built-in Power over Ethernet (PoE), allowing you to install the AP near the ceiling or at other difficult places where AC power outlets are not readily available.

- Up to 108Mbps Turbo Mode wireless speed
- Configurable to operate as AP client, point to point bridge, point to multiple point bridge, repeater
- DFS/TPC function for European operation
- WPA security support
- 64/128/152-bit WEP data encryption
- 10/100BASE-TX port to connect to Ethernet

## DWL-AG660 802.11a/g Wireless CardBus Adapter

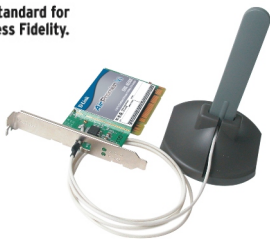


This high-speed dualband wireless CardBus adapter is designed to connect your notebook/laptop computer to a wireless network. It provides high data transfer rates of up to 108Mbps on either 5GHz or 2.4GHz frequency bands.

WPA security is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.

- Up to 108Mbps Turbo Mode wireless speed
- WPA security support
- 64/128/152-bit WEP data encryption
- Powerful integrated antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## DWL-AG530 802.11a/g Wireless PCI Adapter



This high-speed dualband wireless PCI adapter is designed to connect your desktop computer to a wireless network. It provides high data transfer rates of up to 108Mbps on either 5GHz or 2.4GHz frequency bands.

WPA security is supported, allowing you to operate in a secure network environment installed with WPA-supported APs and routers.

- Up to 108Mbps Turbo Mode wireless speed
- WPA security support
- 64/128/152-bit WEP data encryption
- External omni-directional antenna
- Operates in Windows 98SE, ME, 2000, XP environments

## AirPremier™

### 802.11 Wireless LAN

#### Enterprise & Outdoor Wireless Network Solutions

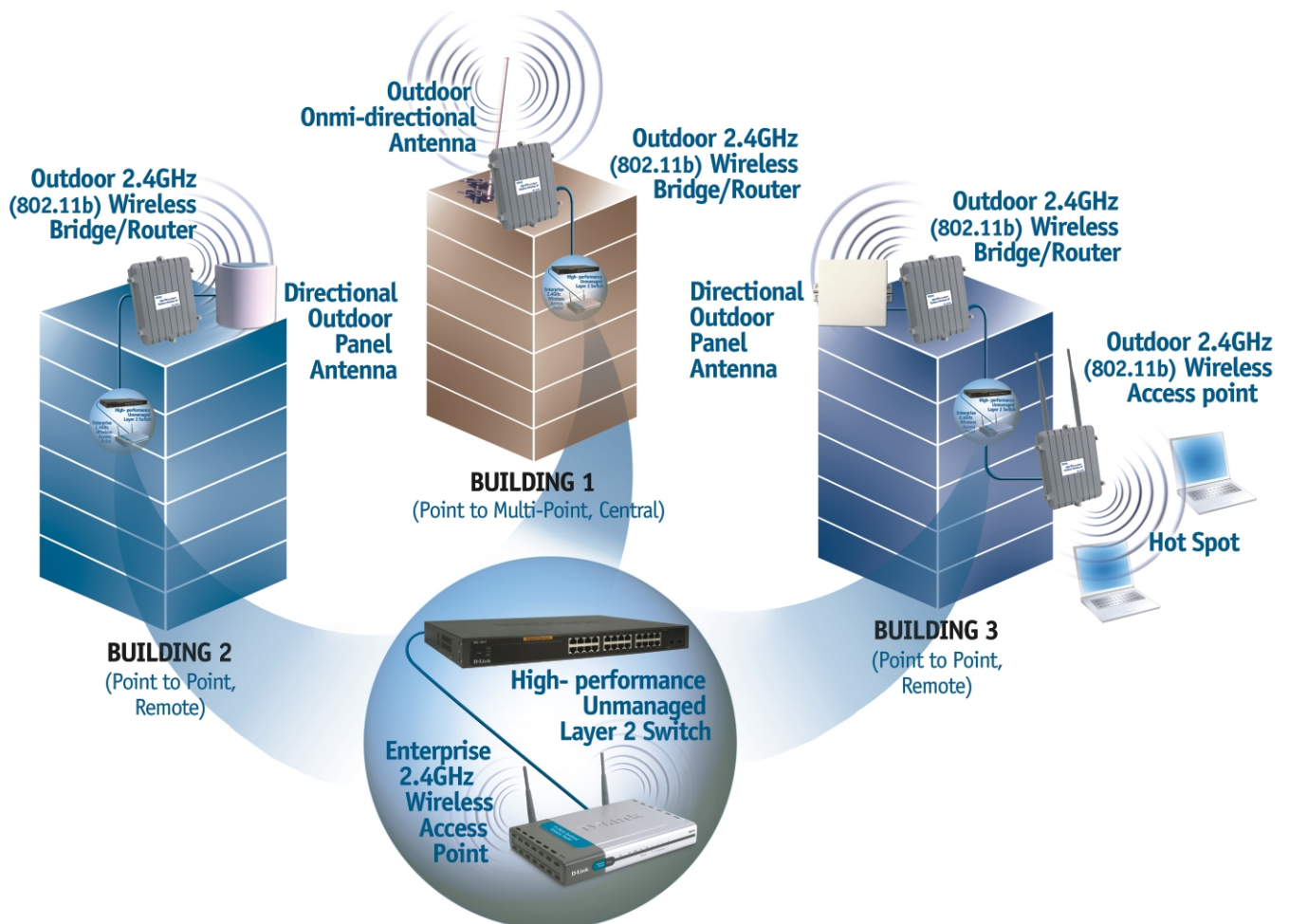
The D-Link AirPremier™ line of Enterprise Wireless Networking products are ideal business-level tools for creating wireless local networks in office and other workplaces, for consumer and employee-based hotspots deployments, and for connecting existing networks between buildings.

The AirPremier™ enterprise products offer advanced functions suitable for enterprise wireless applications.

The AirPremier outdoor products offer exceptional

wireless operation range and sturdy protective enclosures ideal for outdoor wireless network installations.

With AirPremier™, business can create a large outdoor wireless hotspot for customers and employees or connect networks between satellite buildings many kilometers away without paying additional weather-proofing costs.



#### Connecting Outdoor Wireless Networks

## Features & Benefits

■ 802.11 standards	<ul style="list-style-type: none"><li>- 802.11g: up to 108Mbps fast data throughput (Turbo mode)</li><li>- Backward compatible with 802.11b devices</li><li>- Seamless interoperability with other 802.11 standards</li></ul>
■ 64/128/152-bit WEP data encryption	<ul style="list-style-type: none"><li>- Better data protection in the air</li><li>- More data encryption choices to fit user application requirements</li></ul>
■ Wi-Fi™ Protected Access (WPA)	Better control of user access to your wireless LAN
■ 802.1x authentication	Centralized control of user access through a RADIUS server on the network
■ AP group, AP backup functions	AP group functions like a kind of Virtual LANs (VLANs) on a Wireless network to enhance security and performance.
■ Built-in Power Over Ethernet	<ul style="list-style-type: none"><li>- Power supply to the wireless device when power outlets are not easily available</li><li>- Useful for installation of device on rooftop or other exterior locations</li></ul>
■ Built-in DHCP Server	Automatic assignment of IP addresses to wireless users, allowing them to logon to the Internet through a shared broadband WAN line connected to the LAN/private network
■ Virtual Server support	<ul style="list-style-type: none"><li>- Allows web/mail servers connected to the wireless device to be accessed from the Internet</li><li>- Remote users accessing web/FTP services via the public IP address will be automatically redirected to local servers located on the private</li></ul>
■ SNMP management capability	Allows the wireless device to be integrated into a departmental/enterprise SNMP-based manageable network.
■ Built-in router	Operates as a NAT inbound virtual server and provides IP based access control to wireless users
■ Built-in firewall	<ul style="list-style-type: none"><li>- Filters out unrecognized packets so wireless computers are invisible to the outside world</li><li>- Denial of Service (DoS) protection prevents the wireless computers from being hacked</li></ul>

## DWL-2200AP 802.11g Enterprise Access Point



This Enterprise Access Point gives you advanced enterprise functions like AP grouping with load balancing for enhanced performance. Power over Ethernet (PoE) is built into the AP allowing you to install near the ceiling or other difficult places where AC power outlets are not readily available.

Besides the normal web-based network configuration, this AP also supports SNMP standard network management using built-in MIBs.

- Up to 108Mbps Turbo mode wireless speed
- 64/128/152-bit WEP data encryption
- Administrator-defined user access control
- Built-in DHCP server
- Built-in Power Over Ethernet
- ACL and WPA access security
- Configurable to operate as AP client, point to point bridge, point to multiple point bridge
- Built-in MIBs for SNMP management

## DWL-1700AP 802.11b Outdoor Wireless Access Point



With a die-cast watertight housing and a built-in lightning protector, this robust outdoor AP is designed for harsh outdoor environments. It can serve as an outdoor extension of an existing network, or to provide outdoor users with wireless Internet access.

Equipped with high Gain antennas, this AP can transmit data many times more powerful than other common AP. This device includes Power over Ethernet (PoE) and unique outdoor remote mounted design for easy installation.

This device also provides NAT router function (with IP based access control) and firewall protection. Besides the normal web-based network configuration, this device also supports SNMP standard network management using built-in MIBs.

- Operating range up to 600 m \*
- Built-in Power Over Ethernet
- 10/100BASE-TX port to connect to Ethernet
- 64/128-bit WEP data encryption
- ACL and WPA access security
- Built-in router & firewall protection
- Built-in DHCP server & Virtual Server support
- Built-in MIBs for SNMP management

*\* Environmental factors may adversely affect operation range.*

## DWL-1750 802.11b Outdoor Wireless Bridge/Router



With a die-cast watertight housing and a built-in lightning protector, this robust outdoor wireless bridge/router is designed for harsh outdoor environments. It can serve as a wireless backbone, operating as a point to point or point to multiple point bridge with static routing ability to link networks in different buildings.

This device includes Power over Ethernet (PoE) and unique outdoor remote mounted design for easy installation. With a one-meter RF cable needed between the device and the external antenna, this device is a cost-effective pure outdoor solution for long distance communications. D-Link provides a series outdoor antennas for range extension.

This device also provides NAT router function (with IP based access control) and firewall protection. Besides the normal web-based and Telnet configuration, this device also supports SNMP standard network management using built-in MIBs.

- Long range outdoor wireless connection \*
- Point to point and point to multiple point bridging
- Built-in Power Over Ethernet
- 10/100BASE-TX port to connect to Ethernet
- 64/128-bit WEP data encryption
- ACL and WPA access security
- Built-in NAT router and firewall protection
- Built-in DHCP Server & Virtual Server support
- Built-in MIBs for SNMP management

*\* Distance varies according to antenna used*



## DWL-2700AP 802.11g Outdoor Wireless Access Point



With a die-cast watertight housing and a built-in lightning protector, this robust outdoor AP is designed for harsh outdoor environments. It can serve as an outdoor extension of an existing network, or to provide outdoor users with wireless Internet access. Equipped with high Gain antennas, this AP can transmit data many times more powerful than other common AP.

This device includes Power over Ethernet (PoE) and unique outdoor remote mounted design for easy installation. It can be configured through a web browser or Telnet.

- Up to 108Mbps Turbo mode wireless speed
- Configurable to operate as AP, AP client, point to multiple point bridge, or repeater
- Built-in Power Over Ethernet
- 10/100BASE-TX port to connect to Ethernet
- 64/128/152-bit WEP data encryption
- ACL and WPA access security
- Built-in MIBs for SNMP management \*

*\* Function supported in future firmware upgrade*



## AirSpot Gateways

### For Public/Private Hot Spots

The D-Link AirSpot™ line of Public/Private Gateways provides complete hot spot solutions for both the small to medium business (SMB) and the enterprise. D-Link AirSpot gateways provide firewall, HDCP server and router functions in both public and private broadband Internet access in a single device simultaneously.

Designed to allow businesses to create a public hot spot right out of the box to cater to the growing force of Wi-Fi™ enabled mobile consumers and business people, the D-Link AirSpot™ delivers intelligent management capabilities for monitoring and controlling hundreds of

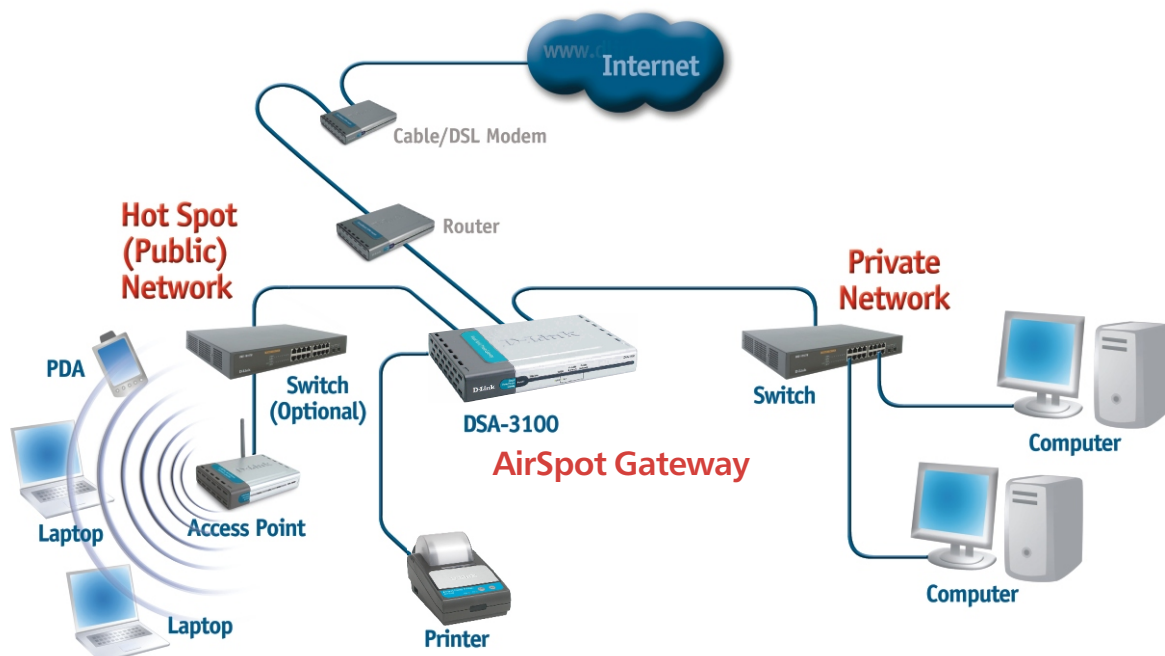
public user accounts while maintaining a private LAN for employees behind a robust physical firewall.

The D-Link AirSpot™ line of public/private gateways provides features and audit trails such as the ability to authenticate and authorize who can log onto the public LAN, how long users are connected, how much bandwidth is consumed and where users can surf the web.

With the availability of ticket printers, hot spot providers can easily provide customers with passwords, pricing and access time from a convenient tear-off receipt.

#### D-Link AirSpot™ Highlights

- Simple creation of public hot spots with just a few pieces of network equipment
- Providing customers with access to Internet to increase customer patronage
- Easy customers' bandwidth control with centralized user authentication & access authorization
- Ticket printer to print ready information for hot spot customers
- Firewall deployable to protect security of company's internal network from hot spot customers



## DSA-3100 3-Port AirSpot Gateway

*Supports 50 On-Line Users*



CRN  
Product of the Year  
2003



This Public/Private Hot Spot Gateway is designed to provide free or fee-based broadband connection to the public or to a company's employees while at the same time providing a separate and secure private network that shares the same Internet connection. It supports up to 50 on-line users.

If your business relies on public patronage, you now have a way to give customers access to the Internet with bandwidth control.

This gateway connects to the broadband through a DSL/cable modem. It uses an internal user account database to check user access. It can connect to a POP3, RADIUS or LDAP server for centralized user authentication and authorization.

- 10/100BASE-TX WAN port (connects to DSL/cable modem)
- 2 10/100BASE-TX LAN ports
- Supports up to 50 on-line users
- ID/password based authentication & authorization
- POP3, RADIUS and LDAP external authentication mechanism
- On-line status monitoring and history traffic data review
- SSL protected access to administration & user authentication interface
- Customizable user login, logout web interface
- Customizable user logout timer
- Customizable target URL
- Built-in DHCP server
- High-speed policy routing engine
- Customizable preemptory traffic redirection
- NTP client

## DSA-3200 3-Port Wireless AirSpot Gateway

*With 802.11g Wireless LAN & 50 On-Line Users Support*



Besides connecting to wired Ethernet, this Public/Private Hot Spot Gateway allows you to provide access to users equipped with 802.11b and 11g wireless network gears without having to deploy a wireless AP. It supports up to 50 on-line users.

The Gateway is designed to provide free or fee-based broadband connection to the public or to a company's employees while at the same time providing a separate and secure private network that shares the same Internet connection.

The gateway connects to the broadband through a DSL/cable modem. It uses an internal user account database to check user access. It can connect to a POP3, RADIUS or LDAP server for centralized user authentication and authorization.

- 10/100BASE-TX WAN port (connects to DSL/cable modem)
- 2 10/100BASE-TX LAN ports
- Built-in high-speed 802.11g wireless LAN
- Supports up to 50 on-line users
- ID/password based authentication & authorization
- POP3, RADIUS and LDAP external authentication mechanism
- On-line status monitoring and history traffic data review
- SSL protected access to administration & user authentication interface
- Customizable user login, logout web interface
- Customizable user logout timer
- Customizable target URL
- Built-in DHCP server
- High-speed policy routing engine
- Customizable preemptory traffic redirection
- NTP client

## DSA-5100 4-Port AirSpot Gateway

*Supports Up to 400 On-Line Users & WAN Lines Load Balancing*



This high-capacity Public/Private Hot Spot Gateway provides double the Internet bandwidth to support up to 400 on-line users. It provides 2 WAN ports to connect to two broadband lines simultaneously with load balancing.

This gateway uses a large internal user account database to check user access. It can connect to a POP3, RADIUS or LDAP server for centralized user authentication and authorization.

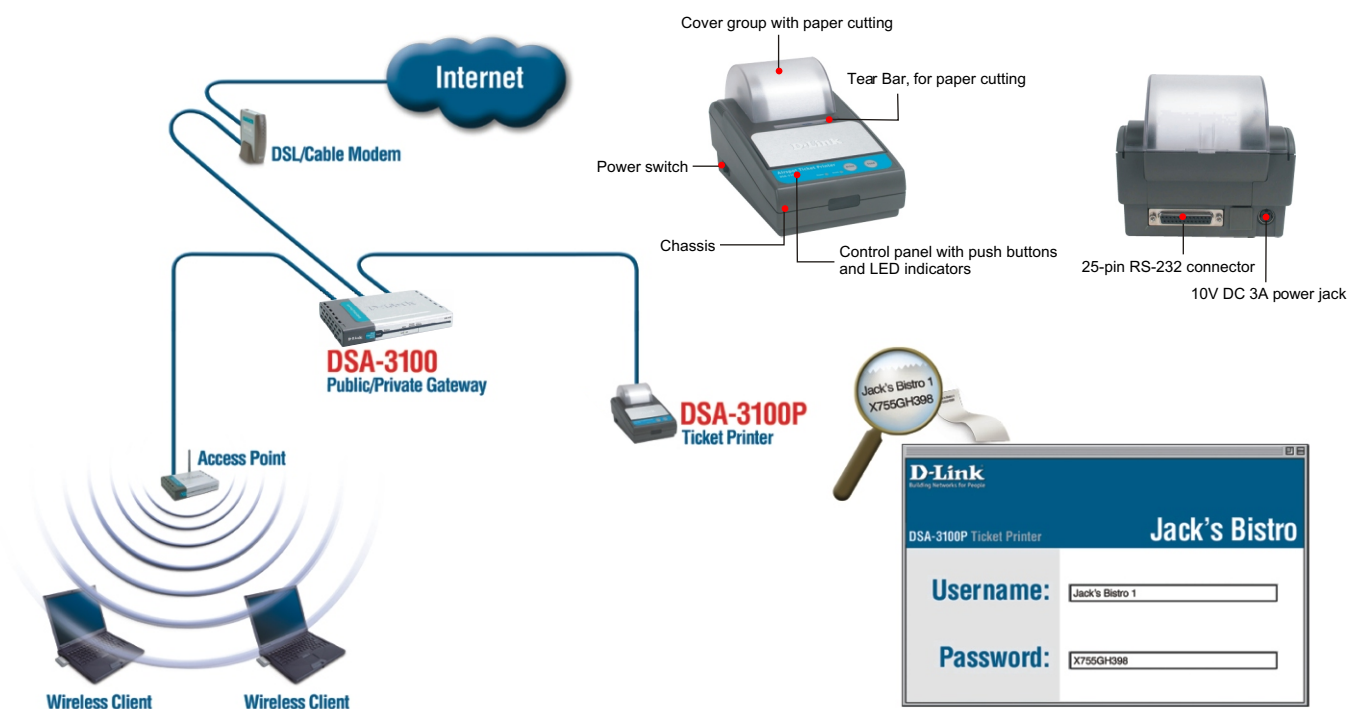
- 2 10/100BASE-TX WAN ports for simultaneous connection to 2 DSL/cable modems
- 2 10/100BASE-TX LAN ports
- Supports up to 400 on-line users
- ID/password based authentication & authorization
- POP3, RADIUS and LDAP external authentication mechanism
- On-line status monitoring and history traffic data review
- SSL protected access to administration & user authentication interface
- Customizable user login, logout web interface
- Customizable user logout timer
- Customizable target URL
- Built-in DHCP server
- High-speed policy routing engine
- Customizable preemptory traffic redirection
- NTP client

## DSA-3100P AirSpot Ticket Printer



This Thermal Line Ticket Printer connects to a D-Link AirSpot Public/Private Hot Spot Gateway to print log-in user names, passwords, fee rate information and bills for hot spot customers. It provides hot spot operators the ability to manage and control user access to their Internet service.

- Thermal line printer
- Paper roll housing
- Tear bar for paper cutting
- Control panel with push button & LED indicator
- 25-pin RS-232 connection to host gateway (DSA-3100)



Printing Tickets From a AirSpot Ticket Printer

## DRS-200 2-Port RADIUS Server

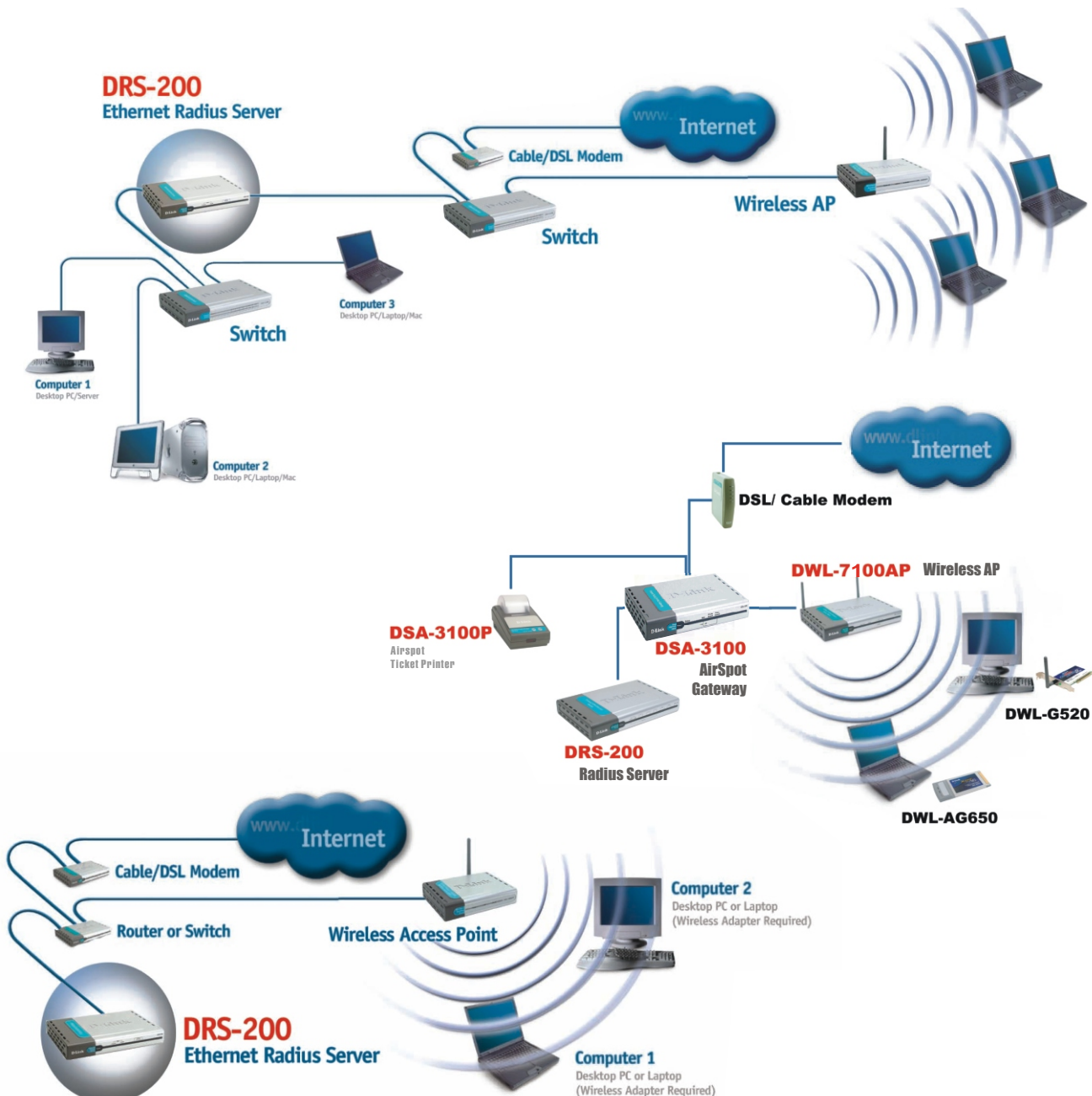
*Supports 200 On-Line Users*



This Ethernet Authentication RADIUS Server is designed to provide secured private connections over the wireless and wired Ethernet network. Designed especially for the wireless network, where potential for unauthorized access, eavesdropping or other security issues is high, this RADIUS server enables you to manage authentication and authorization for all network users to preventing illegal user connection to a company or hot spot network.

Operating in conjunction with wireless LAN access points and Public/Private Hot Spot Gateway and other types of network devices that support the industry standard 802.1x protocol, this RADIUS server allows you to implement central management of your network security.

- Linux embedded O/S with latest kernel
- An end-to-end 802.1x security authentication server
- Supports MAC, EAP-MD5 and EAP-TLS authentication methods
- Manages up to 200 on-line users
- Online user report and system statistics report



## Connecting RADIUS Server to Hot Spots



## Indoor & Outdoor Antennas

Antenna part number	DWL-R60AT	DWL-M60AT	ANT24-0400	ANT24-0401	ANT24-0500	ANT24-0800	ANT24-0801
							
Signal directivity	Directional	Directional	Omni-directional	Omni-directional	Omni-directional	Omni-directional	Directional
Application	Indoor only	Indoor only	Indoor only	Indoor ceiling only	Indoor/Outdoor	Outdoor	Outdoor
Gain (without cable loss)	6dBi	6dBi	4dBi	3.5dBi	5dBi	8dBi	8.5dBi
Approximate range at 1Mbps *	60 m	60 m	40 m	40 m	40 m	1 km (FCC) 800 m (ETSI)	1.2 km (FCC) 800 m (ETSI)
Approximate range at 11Mbps *	25 m	25 m	15 m	15 m	15 m	300 m (FCC) 200 m (ETSI)	350 m (FCC) 200 m (ETSI)
Half power beam width (degrees) **	H60 V90	H80 V80	H360 V40	H360 V120	H360 V30	H360 V15	H70 V70
Pigtail cable length	Not applicable	150 cm	150 cm	Not applicable	30cm	Not applicable	30 cm
Antenna fixed connector	RP-SMA plug	RP-SMA plug	RP-SMA plug	SMA jack	N-jack	N-jack	N-jack
Surge protector for outdoors	Not required	Not required	Not required	Not required	Optional	Included	Included
Default extension cable length	Not applicable	Not applicable	Not applicable	2 m	3 m	50 cm	3 m
Default mounting configuration	Not applicable	Wall/Desktop	Wall/Desktop	Ceiling	Pole	Pole	Wall/Pole
Antenna kit weight	300 grams	330 grams	320 grams	310 grams	540 grams	1.4 kg	1.04 kg
Optional accessories	ANT24-JC For DWL-660 links	ANT24-JC For DWL-660 links	ANT24-JC For DWL-660 links	ANT24-JC For DWL-660 links	ANT24-JC ANT24-SP ANT24-CB series	Ultra low loss cable For ANT24-CB series	Ultra low loss cable For ANT24-CB series

\*1. Extended range reference based on RF-output power 14dbm with default cable loss.

\*2. Transmission distance range is based on two antennas with the same specs with default cable loss.

\*\*HPBW: Half Power Beam Width. H: horizontal plane pattern, V: vertical plane pattern.

Users' physical environments may adversely affect actual range; the above figures are for reference only.

## Indoor & Outdoor Antennas

Antenna part number	ANT24-1200	ANT24-1201	ANT24-1400	ANT24-1800	ANT24-1801	ANT24-1500	ANT24-2100
							
Signal directivity	Directional	Directional	Directional	Directional	Directional	Omnidirectional	Directional
Application	Indoor only	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Gain (without cable loss)	12dBi	12dBi	14dBi	18dBi	18dBi	15dBi	21dBi
Approximate range at 1Mbps *	2 km (FCC) 1 km (ETSI)	2.5 km (FCC) 1 km (ETSI)	3 km (FCC) 1.5 km (ETSI)	5 km (FCC) 1.2 km (ETSI)	5 km (FCC) 1.2 km (ETSI)	1 km	1 km
Approximate range at 11Mbps *	600 m (FCC) 300 m (ETSI)	750 m (FCC) 300 m (ETSI)	900 m (FCC) 300 m (ETSI)	1.5 km (FCC) 300 m (ETSI)	1.5 km (FCC) 300 m (ETSI)	300 m	300 m
Half power beam width (degrees) **	H80 V23	H50 V50	H30 V30	H15 V15	H15 V15	H360 V6	H70 V24
Pigtail cable length	Not applicable	30cm	30 cm	Not applicable	Not applicable	Not applicable	Not applicable
Antenna fixed connector	SMA jack	N-jack	N-jack	N-jack	N-jack	N-jack	N-jack
Surge protector for outdoors	Not required	Included	Included	Included	Included	Included	Included
Default extension cable length	3 m	50 cm	50 cm	50 cm	50 cm	3 m	3 m
Default mounting configuration	Window/Wall	Wall/Pole	Wall/Pole	Wall/Pole	Pole	Pole	Pole
Antenna kit weight	530 grams	380 grams	2.35 kg	3.2 kg	4.22 kg	2.5 kg	4 kg
Optional accessories	Ultra low loss cable For ANT24-CB series	Ultra low loss cable For ANT24-CB series	Ultra low loss cable For ANT24-CB series	Ultra low loss cable For ANT24-CB series	Ultra low loss cable For ANT24-CB series	Ultra low loss cable For ANT24-CB series	Ultra low loss cable For ANT24-CB series

\*1. Extended range reference based on RF-output power 14dbm with default cable loss.

\*2. Transmission distance range is based on two antennas with the same specs with default cable loss.

\*\*HPBW: Half Power Beam Width. H: horizontal plane pattern, V: vertical plane pattern.

Users' physical environments may adversely affect actual range; the above figures are for reference only.

## Antenna Cable Assembly

	Cable Type	Cable Length
ANT24-CB03N	N-male to N-female	3 m
ANT24-CB06N	N-male to N-female	6 m
ANT24-CB09N	N-male to N-female	9 m
ECB-ANT241200	SMA-male to SMA-female	3 m
ECB-ANT240500	N-male to SMA-female	3 m
ECB-ANT240800	N-male to SMA-female	50 cm

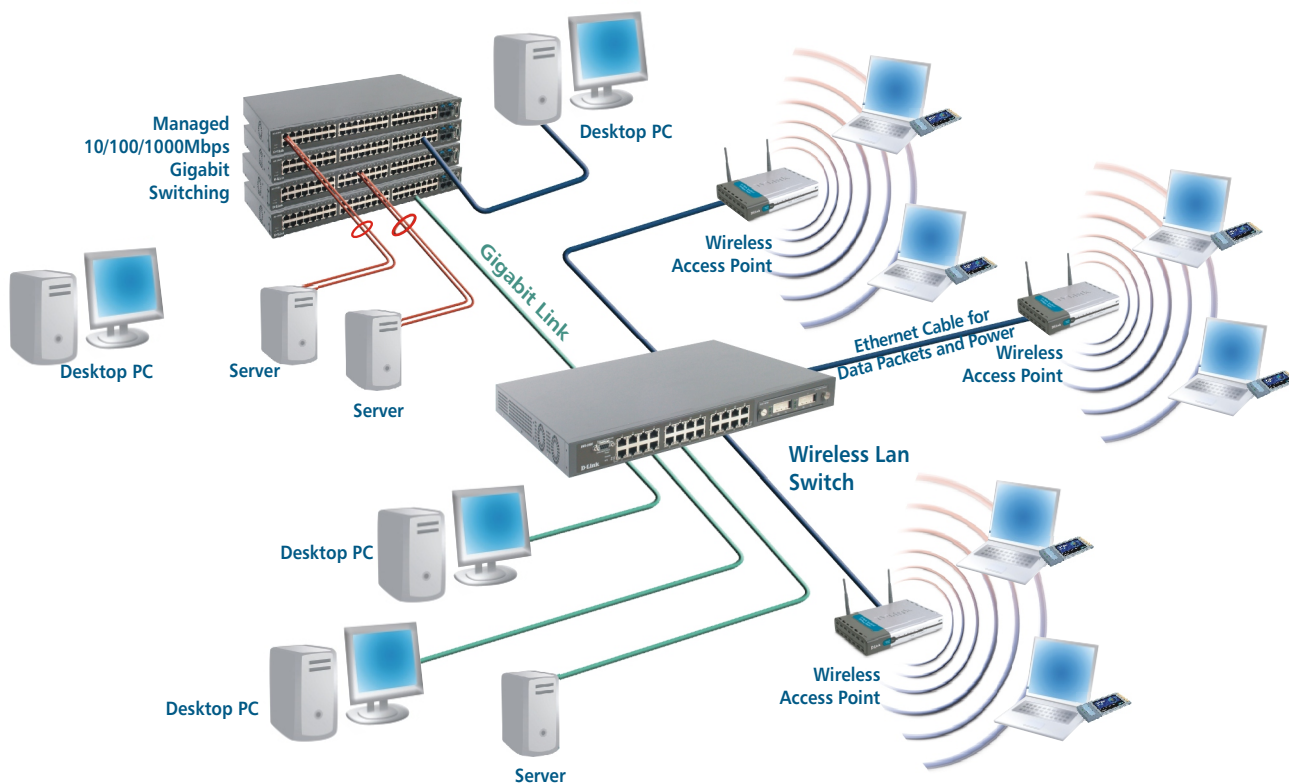
### All outdoor antennas include the following:



50cm pigtail (0.83db lose/meter)  
N-male to RP-SMA plug



**ANT24-SP**  
Lightning Surge Arrestor/Protector



Connecting Wireless Access Points to Wireless LAN Switch

## Wireless LAN Switch

### *For Centralized Security & Load Balancing of Large-Scale WLAN Deployment*

*D-Link's wireless LAN switches are designed to connect wireless LAN access points together to create an integrated large-scale wireless network with centralized management for security and load balancing for multiple access points.*

*The wireless access points are plugged into the wireless LAN switch through their Ethernet interfaces. Network extension between the access points and the wireless LAN switch can be up to 100 meters twisted-pair cable distance with Power over Ethernet (PoE) support.*

*D-Link wireless LAN switches take the form of a Layer 3 Ethernet switch. This implementation creates no new protocols for your network and requires no configuration change to your wired network.*

*The D-Link wireless LAN switch provides fast packet switching among all the connected wireless access points. It also provides security and network performance/bandwidth management functions for the*

*wireless network, such as Virtual LAN (VLAN), 802.1x user access authentication, Class of Service Priority Queues and bandwidth control.*

*The wireless LAN switch provides for extensive centralized management of all wireless access points from a central management station. It also provides for seamless integration of the wireless network with an existing Ethernet infrastructure, allowing easy access to Ethernet services such as file/mail servers and Internet login for wireless users.*

*Wireless LAN switches can be deployed at offices, schools or hot spots where numerous wireless access points are installed. The wireless LAN switch provides wireless users with such benefits like virtual LANs, which give each group of office users or each hotel guest a walled-off connection from other group of office users or hot spot guests. Bandwidth management and control can also be easily implemented for such applications like wireless video conferences.*

#### **DWS-2000 24-Port Wireless LAN Switch**



This Wireless LAN L3 Switch provides 24 10/100BASE-TX ports for connection to 24 wireless access points, and an open slot for installation of a Gigabit uplink. Each of the 24 ports provides Power over Ethernet (PoE) for the wireless access points, allowing them to be placed near the ceiling or at difficult places where power outlets are not easily accessible.

Power is provided through an internal power supply built inside the switch. You can also have redundant power backup by connecting the switch to an optional redundant power supply.

- 24 10/100BASE-TX port with PoE for connection to 24 wireless APs
- 1 open slot for Gigabit uplink
- Redundant power support
- Class of Service support (VLAN, Priority Queues, multi-layer ACL)
- Network security (VLAN, 802.1x user access authentication)
- Bandwidth control & management (multicast, per-port bandwidth control, port mirroring)
- IP packet routing
- Spanning Tree for redundant backup bridge paths
- SNMP management, RMON monitoring

## Power Over Ethernet

### Making It Easier to Install wireless Devices

The D-Link Power Over Ethernet (PoE) Adapters are designed to supply operational power to wireless LAN devices such as access points, bridges and routers.

They enable power current to travel on the Ethernet network cable, thus eliminate the need to directly connect a power supply to the wireless LAN device.

Power Over Ethernet allows you to install the wireless LAN device at places such as on a building rooftop, on or near a ceiling, or other difficult places where power is not easily accessible. The idea is to increase the usefulness of your wireless LAN to provide connectivity

to users regardless of their proximity to a power outlet or a network cable.

On a standard UTP Category 5 cable, only two pairs (pins 1, 2, 3 and 6) are used for Ethernet data transfer. Power Over Ethernet is designed to take advantage of the unused pins of the remaining pair of cable wires. Consequently, a single Category 5 cable will now carry both Ethernet data and DC power. The idea is to supply the remote end with power and the requirements of Ethernet connectivity via a single Cat 5 cable.



Gadget that Sets You Free  
Wired Magazine Award  
February 2004

#### Features & Benefits

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>Provides DC power over existing Category 5 network cable</li> </ul> | Facilitates installation of network devices at high places where no AC power outlets are available |
| <ul style="list-style-type: none"> <li>Transforms incoming AC power into low-voltage DC power</li> </ul>   | Provides low-voltage power to wireless LAN device  |
| <ul style="list-style-type: none"> <li>Power surge protection</li> </ul>                                   | Protects network device from possible damage   |

#### DWL-P100 5VDC Power Over Ethernet Adapter



This Power Over Ethernet Adapter allows transfer of both data and electrical power to distant 5VDC access points and wireless routers, using the standard Cat. 5 Ethernet cable. This adapter requires no tools or software to install and allows you to set up wireless LAN devices virtually anywhere within the network without worrying about the location of a power supply.

#### DWL-P200 5VDC/12VDC Power Over Ethernet Adapter



This Power Over Ethernet Adapter allows transfer of both data and electrical power to distant 5VDC and 12VDC access points and wireless routers, using the standard Cat. 5 Ethernet cable. A switch button allows you to select the voltage type to use with your network device. This adapter requires no tools or software to install and allows you to set up wireless LAN devices virtually anywhere within the network without worrying about the location of a power supply.



## Personal Air™

### Bluetooth Personal Area Network

#### Low-Cost Wireless Connection for Those Without Wi-Fi™

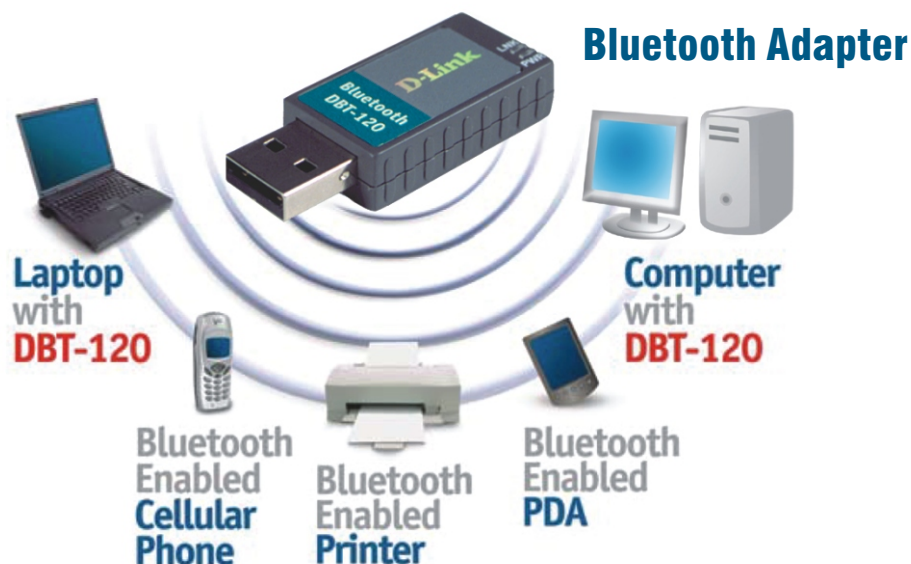
D-Link provides a complete line of standard-compliant Bluetooth solutions for wireless connectivity within a seamless Wireless Personal Network (WPAN). For those without Wi-Fi™ at home, office or school, D-Link's Personal Air Bluetooth provides a convenient and cost-effective wireless networking solution. Applications include web access on PDAs and laptops at unconnected locations, wireless network printer sharing and wireless access to Ethernet LAN servers and Internet/Intranet services from Bluetooth-enabled devices.

Many mobile phones are now Bluetooth-enabled, and so are PDAs and notebook/laptop PCs. Desktop PCs and Macintosh with Bluetooth on the motherboard will hit the market soon. In the interim, D-Link provides a range of Bluetooth adapters to upgrade your PC to Bluetooth capability.

Such a low cost and simple wireless network using Bluetooth allows you to benefit from the flexibility of your portable devices. You can, for example, surf the Internet or access email while sitting in the garden, then from your Bluetooth-enabled computer or PDA, send documents wirelessly to a Bluetooth printer.

Adhering to Bluetooth 1.1 standard, D-link Personal Air™ offers Class 2 Bluetooth performance with wireless data transfers of 723Kbps at ranges of 10 to 20 meters. This capability allows you to establish an automatic wireless connection at a decent speed within a convenient range between your computer and your PDA, mobile phone and other devices.

Low power consumption is designed into D-Link Personal Air™ Bluetooth, with a very low power demand on your portable devices. This gives you the advantage of battery power saving while giving you the freedom to roam among the Bluetooth-enabled devices.



## Features & Benefits

- |   |  |
|---|--|
| ■ Bluetooth 1.1 PAN Profile compliance          | Interoperability with vendor-independent, Bluetooth standard-compliant devices   |
| ■ Up to 723Kbps at up to 10 or 20 meters' range | <ul style="list-style-type: none"> <li>- Decent speed within a convenient range between your PDAs, mobile phones and computers</li> <li>- Operation range depends on antenna capability</li> </ul> |
| ■ 128-bit data encryption                       | Security protection for data transferred in the air among Bluetooth-enable devices   |
| ■ Low power design                              | Battery saving for mobile devices allows longer roaming on wireless LAN  |

### DBT-120 Bluetooth USB Adapter

*For Windows PC and Apple Mac*



Compatible with  
Apple MacOS X  
(10.2 and higher)



This USB adapter provides Bluetooth connection for Windows-based PCs and Apple Mac. Low-power and low-cost, this adapter plugs to any USB port on your computer to deliver wireless Personal Area Network connection from your computer to PDAs, mobile phones and printers. It's about half the size of your finger and is very lightweight.

- USB 1.1 interface to host
- Integrated antenna with wireless operation range of up to 10 meters \*
- 128-bit data encryption
- Operates in Windows 98 SE, 2000, ME, XP, MacOS X

### DCF-650BT Bluetooth CompactFlash Adapter

*For Pocket PDA*



This CompactFlash adapter provides Bluetooth connection for Windows CE 3.0 (Pocket 2000/2002) PDA. Low-power and low-cost, this adapter plugs to the CompactFlash slot of your PDA to deliver wireless Personal Area Network connection from your computer to mobile phones, computers and printers.

- Plugs to CompactFlash CF Type I slot
- Integrated antenna with wireless operating range of up to 20 meters \*
- 128-bit data encryption
- Supports Windows 98 SE, ME, 2000, XP and CE 3.0 (Pocket 2000/2002) for installation (through a Windows-based PC)

### DFM-562BT Bluetooth V.90/92 56Kbps Modem



This V.90/92 56Kbps analog modem can be plugged into any telephone port to provide Bluetooth-enabled PDAs, desktop and notebook computers with a dial-up connection to the Internet.

This modem has a fax transfer send and receive rate of up to 14.4Kbps in addition to communications software that is compatible with AT commands. Fax application software such as BVRP or SuperVoice on the computer or PDA is required.

- V.90/92 standard modem
- 56Kbps transmit rate, 48Kbps receive rate
- Supports V.92 functions: Quick Connect (QC), PCM upstream and V.44 data compression
- Bluetooth 1.1 seamless Wireless Personal Area Network (PAN) connection
- DTMF & pulse dialing
- External antenna with wireless operating range of up to 10 meters \*
- 128-bit data encryption for wireless connection

## DFM-920BT Bluetooth V.90/92, 56Kbps Modem Wireless Kit



DFM-562BT



DBT-120

This Bluetooth Modem Wireless Kit is a convenient kit for Bluetooth users. It includes a Bluetooth-enabled V.90/92, 56Kbps analog modem and a USB Bluetooth adapter for PC and Apple Mac.

- Includes a DFM-562BT Bluetooth modem and a DBT-120 Bluetooth USB adapter

## DBT-900AP Bluetooth-to-Ethernet Access Point



This Bluetooth-to-Ethernet Access Point is designed to extend Ethernet LAN network services to Bluetooth-enabled devices such as laptop computers and PDAs. It enables mobile users using devices equipped with the Bluetooth technology to connect wirelessly to a local network (LAN) and the Internet.

This device enables your Bluetooth users to access services on your Ethernet-based network, such as e-mail, file transfer and Web browsing. Printers and storage devices connected to your Ethernet network can also be shared among Bluetooth users.

Besides for private use at home, this device can also be installed at public areas such as offices, hotels, museums, airport lounges or schools to provide access to the Internet from inside the campus.

- Ethernet connection with DHCP assignment
- Security function for user access authorization/authentication
- Simultaneous access to Internet/Intranet for Bluetooth users
- External antenna with wireless operating range of up to 20 meters \*
- 128-bit data encryption for wireless connection
- Works seamlessly with desktop/laptop computers and PDAs \*

*\* Environmental factors may adversely affect range.*

*Computers, PDAs and other devices connecting to the DBT-900AP access point must be Bluetooth-enabled with PAN Profile support.*

## DBT-320 Bluetooth USB Printer Adapter



This printer adapter allows you to print from your Bluetooth-enabled computers, PDAs and mobile phones (such as Sony Ericsson T68i and T610). The adapter easily plugs to a USB interface of a printer, and you can send files wirelessly to the printer to print.

- Bluetooth 1.1 standard
- Prints files from Windows-based desktop/laptop computers, PDAs, mobile phone supporting HCRP, SPP & OPP profiles
- Prints text files from mobile phones supporting OPP on PCL3 printers (HP & Epson printers)

## DBT-H200 Bluetooth Headset



This Bluetooth headset is a convenient wireless portable headset, which enables you to answer incoming calls wirelessly from Bluetooth devices supporting Audio Gateway role, Headset Profile or Hands Free Profile, such as GST Bluetooth Audio Gateway and Bluetooth mobile phones.

- Bluetooth 1.1 standard
- Supports GAP, SPP & Headset profiles
- 4.3 hours talk time, 200 hours standby
- Rechargeable battery
- Easy incoming call answer operation with "Talk" and "Cancel" button
- Voice dialing from headset
- Earphone volume control with mute/un-mute microphone

## Multi-Service Access Routers

### Modular Routers for Flexible Enterprise & Branch Office Connections

*The D-Link Multi-Service Access Routers are highly flexible routers that provide a wide range of remote link services that can be tailored to your business's remote access requirements. You can 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.*

*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, PPP, V.28 and V.35.*

*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.*

*The 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.*

*You can install voice to 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.*

#### Functions & Features

■ Link Layer Protocols Support	Frame Relay, X.25, LAPB, PPP, PPPoE, SLIP, ISDN (PRI/BRI), LLC2, SDLC, DLSW-SSP, VLAN (max. 300 VLANs)
■ Network Layer Protocols Support	ARP, ARP Proxy, DNS, NAT, IP Filtering, ICMP, IGMP, DHCP client, NHRP
■ Routing Protocols Support	Static routing, Policy-base routing, RIP v1, v2, OSPF v1, v2, BGP-4, DDR, IP Multicasting, DVMRP, PIM-DM, PIM-SM
■ 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 v.1, v.2, v.3, RMON, HP OpenView, 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

## **DI-3660 6-Slot Multi-Service Access Router**

*For Enterprise Connections*



This standard rack-mount router (2 U height) is designed for enterprise connections. It comes with 1 console port, 1 auxiliary port, and 6 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 router's firmware supports all the network cards, WAN cards and the voice cards that you select to install in its open slots.

- 1 console port
- 1 auxiliary port with analog modem support
- 6 open slots for WAN interface, voice cards and network modules
- Supports up to 22 different network and voice modules
- Shares all network modules with DI-2630 router, reducing sparing, training, configuration and installation and maintenance costs

## **DI-2630 4-Slot Multi-Service Access Router**

*For Branch Office Connections*



This standard rack-mount router (1.5 U height) is designed for branch office connections. It comes with 1 10/100BASE-TX Ethernet port, 1 console port, 1 auxiliary port, and 4 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 router's firmware supports all the network cards, WAN cards and the voice cards that you select to install in its open slots.

- 1 10/100BASE-TX Ethernet port
- 1 console port
- 1 auxiliary port with analog modem support
- 4 open slots for WAN interface, voice cards and network modules
- DI-1750 router and DI-2630 router share all interface cards, reduce sparing, training, configuration and installation and maintenance costs
- DI-2630 router and DI-3660 router share all network modules, reduce sparing, training, configuration and installation and maintenance costs

## **DI-1750 2-Slot Multi-Service Access Router**

*For Branch Office Connections*



This standard rack-mount router (1U height) is designed for branch office connections. It comes with 1 10/100BASE-TX 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 router's firmware supports all the WAN cards and the voice cards that you select to install in its open slots.

- 1 10/100BASE-TX Ethernet port
- 1 console port
- 1 auxiliary port with analog modem support
- 2 open slots for WAN interface and voice cards
- DI-1750 router and DI-2630 router share same interface cards, reduce sparing, training, configuration and installation and maintenance costs



## Optional Port Modules *For Use With DI-3660 and DI-2630 Routers*

<b>DRM-1FE-TX</b>	1 10/100BASE-TX port
<b>DRM-2FE-TX</b>	2 10/100BASE-TX ports
<b>DRM-1FE-FX</b>	1 100BASE-FX fiber Fast Ethernet port supporting multi-mode fiber (SC connector)
<b>DRM-1FE-FS</b>	1 100BASE-FX fiber Fast Ethernet port supporting single-mode fiber (SC connector)
<b>DRM-4B-S/T</b>	4 ISDN BRI S/T ports
<b>DRM-4T</b>	4 serial, async and sync ports (2Mbps max.)
<b>DRM-8A/S</b>	8 DB-60 serial, async, and sync ports (128Kbps max.), supporting V.28, V.35, protocols: X.25, Frame Relay, SLIP, PPP
<b>DRM-8ASY</b>	8 asynchronous serial ports (115.2Kbps max.)
<b>DRM-16ASY</b>	16 asynchronous serial ports (115.2Kbps max.)
<b>DRM-1CE1</b>	1 channelized E1 port
<b>DRM-2CE1</b>	2 channelized E1 ports
<b>DRM-4CE1</b>	4 channelized E1 ports
<b>DRM-2FXS</b>	2 FXS VoIP ports
<b>DRM-4FXS</b>	4 FXS VoIP ports
<b>DRM-2FXO</b>	2-port FXO VoIP ports
<b>DRM-4FXO</b>	4 FXO VoIP ports
<b>DRM-2FXS2FXO</b>	2 FXS VoIP ports, 2-port FXO VoIP ports
<b>DRM-2E&amp;M</b>	2 E&M ports
<b>DRM-4E&amp;M</b>	4 E&M ports
<b>DRM-1E1T1B</b>	1 10BASE-T Ethernet port, 1 serial, async and sync port (2Mbps max.), 1 ISDN BRI S/T port
<b>DRM-1E2T</b>	1 10BASE-T port, 2 serial, async and sync ports (2Mbps max.)
<b>DRM-2T1B</b>	2 serial, async, and sync ports (2Mbps max.), 1 ISDN BRI S/T port

## Optional Port Modules *For Use With DI-2630 and DI-1750 Routers*

<b>DRW-1CE1</b>	1 DB-15 channelized E1/ISDN (30B+D) PRI port (2Mbps max.) supporting G.703/G.704, protocols: X.25, Frame Relay, SLIP, PPP
<b>DRW-1B-S/T</b>	1 ISDN (2B+D) BRI S/T port (128Kbps max.) supporting ITU I.430, Q.921, Q.931
<b>DRW-1B-U</b>	1 ISDN BRI (2B+D) U port (128Kbps max.) supporting ITU I.430, Q.921, Q.931
<b>DRW-1DTU</b>	1 DDN leased line port
<b>DRW-1T</b>	1 DB-60 serial, async and sync port (2Mbps max.), supporting V.28, V.35, protocols: X.25, Frame Relay, SLIP, PPP
<b>DRW-2T</b>	2 DB-60 serial, async and sync ports (2Mbps max.), supporting V.28, V.35, protocols: X.25, Frame Relay, SLIP, PPP
<b>DRW-1E1T</b>	1 10BASE-T Ethernet port, 1 DB-60 serial, async and sync port (2Mbps max.), supporting V.28, V.35, IEEE802.3, protocols: X.25, Frame Relay, SLIP, PPP
<b>DRW-1ETH</b>	1 10BASE-T Ethernet port
<b>DRW-2ETH</b>	2 10BASE-T Ethernet ports
<b>DRW-2FXS</b>	2 FXS VoIP ports
<b>DRW-2FXO</b>	2 FXO VoIP ports
<b>DRW-2E&amp;M</b>	2 RJ-45 E&M ports, supporting 2 and 4 wire, E&M signaling types I, II, III, V
<b>DRW-8ASY</b>	8 DB-68 asynchronous serial ports (115.2Kbps max.), supporting V.28, RS232-D, protocols: PPP, SLIP

## Optional Cables

<b>DRC-0001</b>	RJ-45 to 1x DB-25 (female) + 1 x DB-9 (female), for console port (default)
<b>DRC-0011</b>	RJ-45 to 1x DB-25 (male) + 1 x DB-9 (male), for AUX port
<b>DRC-1001</b>	DB-15 (male) to 2 x BNC, for channelized E1/ISDN PRI
<b>DRC-1101</b>	DB-15 (male) to 1 x RJ-45, for channelized E1/ISDN PRI
<b>DRC-2001</b>	DB-25 (female) to 1 x DB-25 (female), for V.28 DCE
<b>DRC-3111</b>	DB-60 (male) to 1 x DB-25 (male), for V.28 DTE
<b>DRC-3112</b>	DB-60 (male) to 2 x DB-25 (male), for V.28 DTE
<b>DRC-3201</b>	DB-60 (male) to 1 x DB-34 (female), for V.35 DCE
<b>DRC-3202</b>	DB-60 (male) to 2 x DB-34 (female), for V.35 DCE
<b>DRC-3211</b>	DB-60 (male) to 1 x DB-34 (male), for V.35 DTE
<b>DRC-3212</b>	DB-60 (male) to 2 x DB-34 (male), for V.35 DTE
<b>DRC-3312</b>	DB-60 (male) to 1 x DB-34 (male) + 1 x DB-25 (male), for V.35 DTE and V.28 DTE
<b>DRC-5018</b>	DB-68 (male) to 8 x DB-25 (male), for asynchronous serial port
<b>DRC-5108</b>	DB-68 (male) to 8 x RJ-45, for asynchronous serial port



## Features & Benefits

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>■ NAT ALG (Application Level Gateway) support</li> </ul> | <ul style="list-style-type: none"> <li>- Allows sharing of broadband line anywhere at home and office</li> <li>- Simplifies everybody logon operation through automatically assignment of IP number for each user</li> </ul>  |
| <ul style="list-style-type: none"> <li>■ NAT firewall protection</li> </ul>                     | <ul style="list-style-type: none"> <li>- Re-directs certain ports to limit the services that outside users can access your network</li> <li>- Protects home and office computers from Internet intruders and hacker attacks</li> </ul>  |
| <ul style="list-style-type: none"> <li>■ VPN pass-through support</li> </ul>                    | <p>Allows telecommuters to securely connect to office network using their own PC-based VPN software</p>   |
| <ul style="list-style-type: none"> <li>■ Virtual Server Mapping</li> </ul>                      | <p>Allows separate FTP, Web, and Multiplayer game servers to share the same Internet-visible IP address while still protecting your servers and workstations from hackers</p>   |
| <ul style="list-style-type: none"> <li>■ DMZ support</li> </ul>                                 | <ul style="list-style-type: none"> <li>- Allows web servers behind the router to fully expose to Internet and ensure complete Internet application compatibility even if the specific port is not known</li> <li>- Set-up of web sites and e-commerce while maintaining protection for the rest of your office LAN</li> </ul> |
| <ul style="list-style-type: none"> <li>■ UPnP enabled</li> </ul>                                | <p>Easy and robust connectivity among heterogeneous standards-based network devices</p>   |

### DI-604 Router *With Built-in 4-Port Switch*



This award-winning router connects to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- User-level ACL (Access Control List) & scheduling support



### DI-704P Router *With Built-in 4-Port Switch & Parallel Print Server*



This router connects to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided.

4 10/100BASE-TX switch ports are built into this router for ready wireless and Ethernet network connections. A parallel printer can also be attached to this router for sharing over the network.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Router access security
- Built-in 4 10/100BASE-TX Ethernet ports
- Built-in parallel print server port supporting Windows, MacOS, Linux

## DI-707P Router

*With Built-in 7-Port Switch & Parallel Print Server*



This router connects to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided.

7 10/100BASE-TX switch ports are built into this router for ready wireless and Ethernet network connections. A parallel printer can also be attached to this router for sharing over the network.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Router access security
- Built-in 7 10/100BASE-TX Ethernet ports
- Built-in parallel print server port supporting Windows, MacOS, Linux

## DI-704UP Router

*With Built-in 4-Port Switch & USB/Parallel Print Server*



This router connects to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided.

4 10/100BASE-TX switch ports are built into this router for ready wireless and Ethernet network connections. A USB printer and a parallel printer can also be attached to this router for sharing over the network.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Router access security
- Built-in 4 10/100BASE-TX Ethernet ports
- Built-in USB 1.1 and parallel print server ports support Windows, MacOS, Linux

## Wireless DSL/Cable Modem Routers

### DI-514 Wireless Router

*With Built-in 802.11b WLAN & 4-Port Switch*



This wireless router connects to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided. 2.4GHz WLAN and 4 10/100BASE-TX switch ports are built into this router for ready wireless and Ethernet network connections.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- WLAN supports WiFi Protected Access (WPA) \*
- User-level ACL (Access Control List) & scheduling support
- Incorporates 802.11b WLAN & 4 10/100BASE-TX Ethernet ports

*\* Function available in firmware upgrade in near future*

### DI-614+ Wireless Router

*With Built-in 802.11b+ WLAN & 4-Port Switch*



This wireless router connects to the Internet through a broadband DSL or cable modem. User access control functions (including wireless WPA and 802.1x authentication) and firewall protection are provided. 2.4GHz WLAN and 4 10/100BASE-TX switch ports are built into this router for ready wireless and Ethernet network connections.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication router access security
- Incorporates 802.11b+ WLAN & 4 10/100BASE-TX Ethernet ports



## DI-624+ Wireless Router

*With Built-in 802.11g WLAN & 4-Port Switch*



This wireless router features an 802.11g WLAN interface that is 10 times faster than the normal 802.11b wireless standard. The router connects to the Internet through a broadband DSL or cable modem. User access control functions (including wireless WPA and 802.1x authentication) and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for Ethernet network connections.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication router access security
- Incorporates 802.11g WLAN & 4 10/100BASE-TX Ethernet ports
- WLAN throughput 10 times faster than 802.11b

## DI-624 Wireless Router

*With Built-in 802.11g WLAN & 4-Port Switch*



This wireless router features an 802.11g WLAN interface that is 15 times faster than the normal 802.11b wireless standard. The router connects to the Internet through a broadband DSL or cable modem. User access control functions (including wireless WPA and 802.1x authentication) and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for Ethernet network connections.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication router access security
- Incorporates 802.11g WLAN & 4 10/100BASE-TX Ethernet ports
- WLAN speed up to 108Mbps (turbo mode), throughput 15 times faster than 802.11b



## DI-714P+ Wireless Router

*With Built-in 802.11b+ WLAN, 4-Port Switch & Parallel Print Server*



This wireless router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA and 802.1x authentication) and firewall protection are provided.

2.4GHz WLAN and 4 10/100BASE-TX switch ports are built into this router for ready wireless and Ethernet network connections. A parallel printer can also be attached to this router for sharing over the network.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication router access security
- Incorporates 802.11b+ WLAN & 4 10/100BASE-TX Ethernet ports
- Built-in parallel print server port supporting Windows, MacOS, Linux

## DI-724P+ Wireless Router

*With Built-in 802.11g WLAN, 4-Port Switch & Parallel/USB Print Server*



This wireless router features a high-speed 802.11g WLAN interface with wireless throughput up to 10 times faster than the normal 802.11b. The router connects to the Internet through a broadband DSL or cable modem. User access control functions (including WPA and 802.1x authentication) and firewall protection are provided.

4 10/100BASE-TX switch ports are built into this router for ready Ethernet network connections. A parallel and USB printer can also be attached to this router for sharing over the network.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication router access security
- Incorporates 802.11g WLAN & 4 10/100BASE-TX Ethernet ports
- WLAN throughput 10 times faster than 802.11b
- Built-in parallel/USB print server port supporting Windows, MacOS, Linux



## DI-784 Wireless Router

*With Built-in Dualband 802.11a/g WLAN & 4-Port Switch*

**AirPremier™**

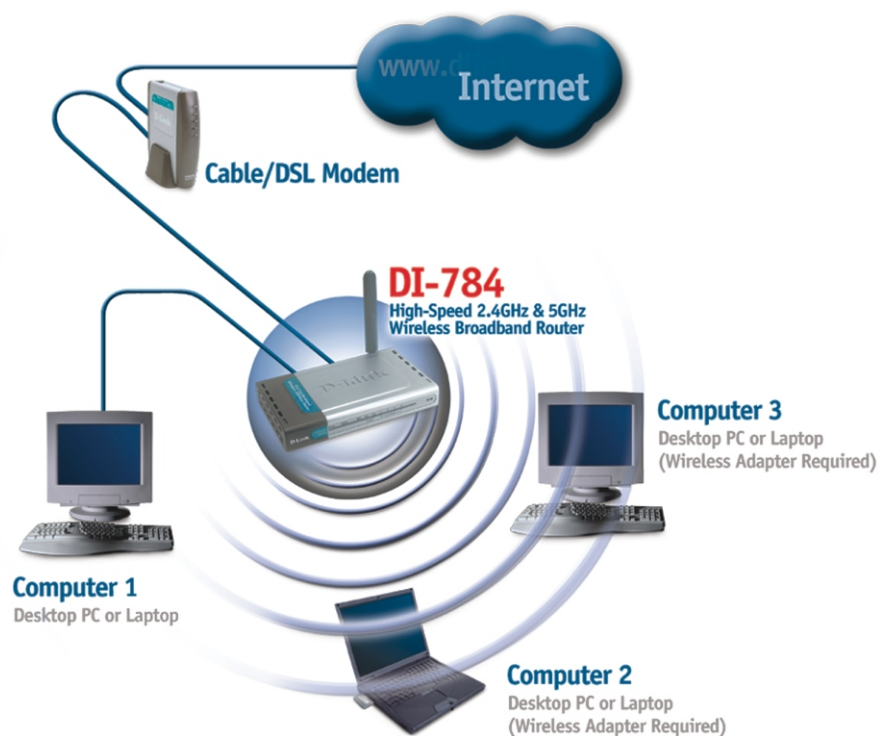


The Standard for  
Wireless Fidelity.



This wireless router features a dualband 802.11a/g WLAN interface that provides the most expanded wireless user bandwidth available in a router. The router connects to the Internet through a broadband DSL or cable modem. User access control functions (including wireless WPA and 802.1x authentication) and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for Ethernet network connections.

- 10/100BASE-TX port to connect to DSL/cable modem
- Domain/URL filtering parental control
- Wireless WPA, 802.1x authentication router access security
- Incorporates dualband 802.11a/g WLAN & 4 10/100BASE-TX Ethernet ports
- WLAN speed up to 108Mbps (turbo mode), throughput 15 times faster than 802.11b



## Express EtherNetwork™

### VPN Routers

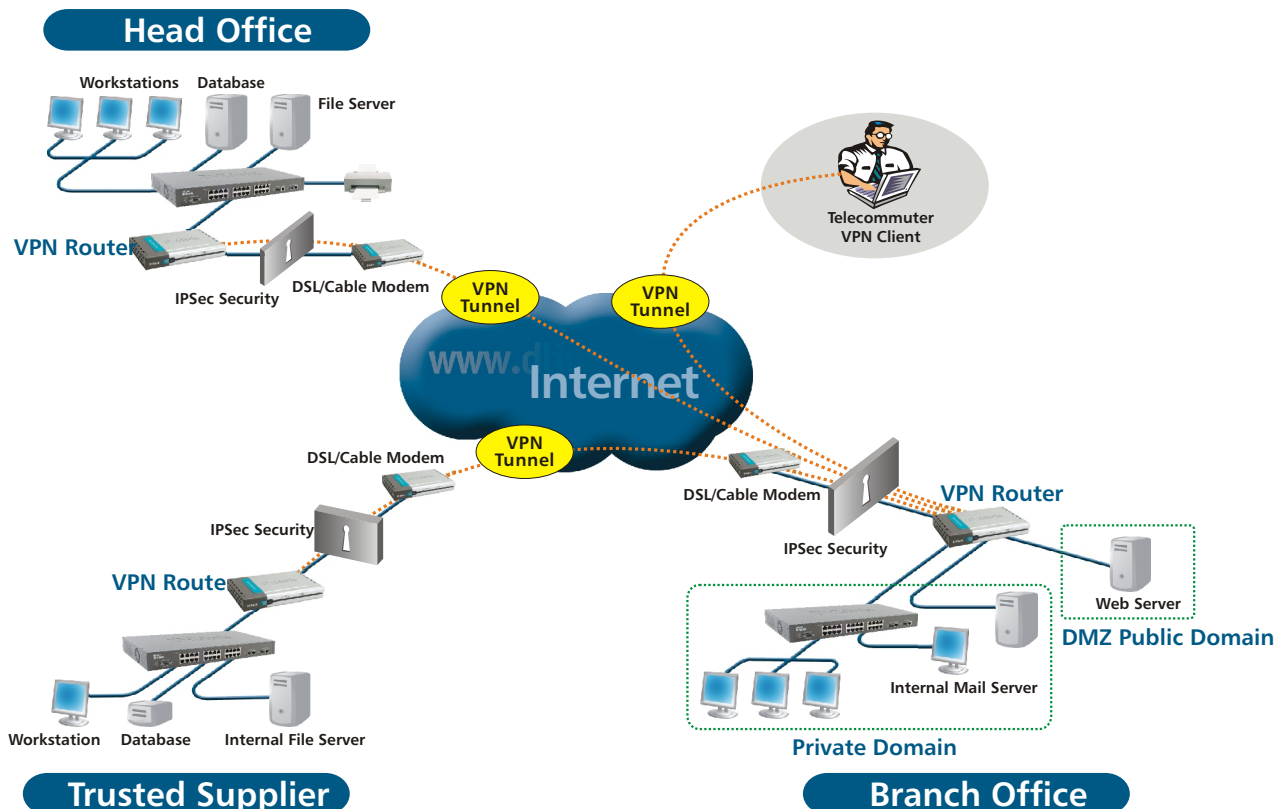
#### Affordable Secure Remote Connection for SMB

D-Link's VPN Routers combine affordable broadband Internet connection with robust VPN firewall security. Designed for SMB and branch office communication, these routers provide secure data transmission over the WAN links, advanced firewall protection and policy-based content filtering security. Cost-effectively linking your office to the outside world through the Internet, these routers offer an alternative to the cost-prohibitive point-to-point dedicated connectivity of leased lines.

These VPN routers provide IPSec security for Virtual Private Network applications, enabling you to extend your branch network to remote networks, such as your corporate office or a trusted supplier, to act as if the two are a single LAN. They also allow mobile telecommuters

to securely transfer sensitive information with your company network without the fear of being intercepted over the Internet. Designed as low-cost VPN routers with many built-in functions, these routers give your business a cost-effective way to install a secure and fast network with bottleneck-free link to the outside world.

Choices of VPN router solutions are provided for you to meet your specific business requirements. The selection includes VPN routers without wireless LAN, and VPN routers with high-speed wireless LAN interfaces and print server functions. All D-Link VPN routers come with built-in Ethernet switch ports to save you the cost and trouble of installing separate Ethernet switches.



Virtual Private Network IPSec Tunnels for VPN Application

## Features & Benefits

■ Hardware acceleration	IPSec encryption and decryption performed by special designed ASIC VPN accelerator to off-load CPU loading and enhance router's performance
■ VPN IPSec tunnels to remote sites/clients	<ul style="list-style-type: none"> <li>- DES, 3DES, AES data encryption and Automated Key Management via IKE/ISAKMP for secured site-to-site or site-to-client traffic flow</li> <li>- Easy creation of VPN tunnels without having to set up IKE (Internet Key Exchange) policies Enables Intranets, Extranets and remote user access applications</li> </ul>
■ VPN pass-through support	Allows telecommuters to connect to office network using their own PC-based VPN client software
■ Firewall protection with Intrusion Detection System (IDS), Stateful Packet Inspection (SPI) packet filtering and event log/alarm	Protects network from attacks and logs/alarms all attacks so you can be notified and check log file to find out exactly what happened
■ URL blocking/domain filtering	Limits user access to undesirable web sites
■ NAT ALG (Application Level Gateway) support	<ul style="list-style-type: none"> <li>- Allows sharing of broadband line anywhere at home and office</li> <li>- Simplifies everybody's logon operation through automatically assignment of IP number for each user</li> </ul>
■ DMZ support	<ul style="list-style-type: none"> <li>- Allows web servers behind the router to fully expose to Internet and ensure complete Internet application compatibility even if the Specific port is not known</li> <li>- Set-up of web sites and e-commerce while maintaining protection For the rest of your office LAN</li> </ul>
■ UPnP enabled	Easy and robust connectivity among heterogeneous standards-based network devices
■ RS-232 backup WAN port	<ul style="list-style-type: none"> <li>- Can connect to ISDN T/A or analog modem for automatic dial-up to ISDN or PSTN line for backup in case the broadband WAN link is down</li> <li>- Redundancy backup to maximize WAN uptime</li> </ul>

## DS-601/DS-605 SeuriWall Network Security VPN Client



This software runs on Windows-based PCs and helps organizations to build end-to-end secured connectivity for mobile employees and telecommuters. It uses standard IPSec implementation with advanced 3DES/AES encryption and comprehensive Windows support. It provides NAT transparency capability to work with most home gateways and NAT routers. RADIUS authentication is supported for centralized user database management.

This software provides connection from remote mobile users with all D-Link VPN routers and firewalls, including the DI-804HV, DI-808HV, DI-824VUP+, DFL-100, DFL-200, DFL-600, DFL-700, DFL-900, DFL-1100 and DFL-1500.

### Available in 2 versions:

- DS-601** Single User's License
- DS-605** 5 Users' License

- Protects your Internet connection
- Easy-to-deploy VPN client software
- Standard-based IPSec tunneling
- Advanced 3DES/AES encryption
- Operates in Windows environments
- Supports all D-Link VPN routers and firewalls

## DI-804HV VPN Router

*With Built-in 4-Port Switch*



This VPN router provides an advanced platform that handles security for transmitting sensitive data over the Internet. It provide IPsec protection for Intranet/Extranet applications, enabling you to extend your office network to a remote site, such as your corporate network or a trusted supplier, and to remote mobile users working from home or outside of the office.

The router connects your office to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- 4,096 concurrent sessions
- 40 IPsec tunnels, 32 PPTP/L2TP pass-through tunnels
- 3DES speed: 9Mbps
- Policy-based content filtering (40 tunnel rule policies)
- Domain/URL filtering parental control
- Content filtering firewall protection, DoS attack prevention
- Intrusion detection with event log and e-mail notification
- 10/100BASE-TX port to connect to DSL/cable modem
- 4 built-in 10/100BASE-TX Ethernet switch ports
- RS-232 COM port for backup ISDN/analog modem connection

## DI-808HV VPN Router

*With Built-in 8-Port Switch*



This VPN router provides an advanced platform that handles security for transmitting sensitive data over the Internet. It provide IPsec protection for Intranet/Extranet applications, enabling you to extend your office network to a remote site, such as your corporate network or a trusted supplier, and to remote mobile users working from home or outside of the office.

The router connects your office to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided. 8 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- 4,096 concurrent sessions
- 40 IPsec tunnels, 32 PPTP/L2TP pass-through tunnels
- 3DES speed: 10Mbps
- Policy-based content filtering (40 tunnel rule policies)
- Domain/URL filtering parental control
- Content filtering firewall protection, DoS attack prevention
- Intrusion detection with event log and e-mail notification
- 10/100BASE-TX port to connect to DSL/cable modem
- 8 built-in 10/100BASE-TX Ethernet switch ports
- RS-232 COM port for backup ISDN/analog modem connection

## DI-824VUP+ VPN Router

*With Built-in 802.11g WLAN & 4-Port Switch*

**AirPlus G+**



This function-rich wireless VPN router features an 802.11g WLAN interface that is 10 times faster than the normal 802.11b wireless standard. In addition, it incorporates a print server function to allow you to share a USB and a parallel printer over your office network.

The router provides an advanced platform that handles security for transmitting sensitive data over the Internet. It provide IPsec protection for Intranet/Extranet applications, enabling you to extend your office network to a remote site, such as your corporate network or a trusted supplier, and to remote mobile users working from home or outside of the office.

The router connects your office to the Internet through a broadband DSL or cable modem. User access control functions and firewall protection are provided. 4 10/100BASE-TX switch ports are built into this router for ready Ethernet workstation/server connections.

- Built-in high-speed 802.11g WLAN
- Built-in USB 1.1 and parallel print server ports supporting Windows, MacOS
- 4,096 concurrent sessions
- 40 IPsec tunnels, 32 PPTP/L2TP pass-through tunnels
- 3DES speed: 9Mbps
- Policy-based content filtering (40 tunnel rule policies)
- Domain/URL filtering parental control
- Content filtering firewall protection, DoS attack prevention
- Intrusion detection with event log and e-mail notification
- 10/100BASE-TX port to connect to DSL/cable modem
- 4 built-in 10/100BASE-TX Ethernet switch ports
- RS-232 COM port for backup ISDN/analog modem connection

## SECURIWALL™

### Network Security Firewalls

#### Integrated VPN Firewall Solutions for SOHO, SMB & Enterprises

The D-Link line of firewalls provides you with a full range of integrated VPN firewalls designed for protection of your office network. A complete line of firewall solutions is available for selection for use with your SOHO network, small to medium-sized business (SMB) or large enterprise.

These D-Link firewalls are affordable and easy-to-deploy devices for multi-function security applications. They feature complete firewall functions, including Stateful Packet Inspection (SPI), Intrusion Detection System (IDS), embedded Virtual Private Network (VPN), DMZ support, multiple-mapped IPs and multiple virtual servers.

The D-Link firewalls protect your network from attacks. It can be configured to log all attacks, locate the source IP address generating the attack, send the attack report

notification to a specified e-mail address and establish policies to restrict incoming traffic from specific IP address sources. Your network administrators can set e-mail addresses to receive alert message from the firewalls. When intrusion events are detected, the firewalls will log them and send alert e-mail, and you can check the log file on the router to find out what happened.

D-Link's firewalls are equipped with embedded VPN support, allowing you to create multiple IPSec tunnels to remote sites/clients. IPSec on the firewalls uses strong encryption with DES, 3DES, AES and Automated Key Management via IKE/ISAKMP. VPN tunnels can be activated from the firewalls to remote sites or mobile users for secured traffic flow using triple DES encryption. This offers your office users a way to confidentially access and transfer sensitive information. Multiple VPN tunnels may be easily created without the need to setup IKE (Internet Key Exchange) policies.

#### Features & Benefits

■ Firewall and VPN user authentication	Allows you to control your office users' access to the firewall and its VPN support.
■ RADIUS client support	Allows you to make use of your existing RADIUS Server and user information.
■ Parental control	Limits your office users' access to undesirable Internet sites
■ Activity logging	Logs of real-time Internet traffic, alarms of Internet attacks, and notice of web-browsing activities are logged and can be reported through e-mail notification.
■ IDS (Intrusion Detection System)	Monitors packets on the network wire to discover if a hacker/cracker is attempting to break into your network or cause a denial of service attack.
■ Content Filtering	Lets you filter and protect your network with customized policy.
■ Bandwidth management	Guarantees your office user's bandwidth for different services
■ Redundant backup firewalls	Offers the ultimate fault tolerance for organizations that demand the highest availability.
■ Load balancing on WAN links	By substituting expensive leased lines with multiple broadband links, you can save substantial WAN connection fee while maintaining a high level of connection reliability.

## **DFL-100 SOHO Firewall**

*With 50 On-Line Users Support*



This desktop firewall provides cost-effective protection for a small office network. It provides firewall protection as well as integrated services such as IP packet routing, NAT Application Level Gateway services, Virtual Private Network (VPN) with IPSec data encryption/encapsulation. Firewall functions include Stateful Packet Inspection (SPI), DoS attack prevention and user activity logging/monitoring.

- 2,048 concurrent sessions
- Firewall performance: 50Mbps
- 3DES performance: 6Mbps
- 25 dedicated VPN tunnels
- 32 policies
- 10/100BASE-TX port to connect to DSL/cable modem
- 10/100BASE-TX dedicated DMZ port
- 3 10/100BASE-TX LAN switch ports

## **DFL-200 SOHO Firewall**

*With 50 On-Line Users Support*



This desktop firewall provides cost-effective protection for a small office network. It provides firewall protection as well as integrated services such as IP packet routing, NAT Application Level Gateway services, Virtual Private Network (VPN) with IPSec data encryption/encapsulation. Firewall functions include Stateful Packet Inspection (SPI), DoS attack prevention and user activity logging/monitoring.

- 3,000 concurrent sessions
- Firewall performance: 50Mbps
- 3DES performance: 10Mbps
- 80 dedicated VPN tunnels
- 500 policies, 256 schedules
- 10/100BASE-TX port to connect to DSL/cable modem
- 10/100BASE-TX dedicated DMZ port
- 4 10/100BASE-TX LAN switch ports

## **DFL-600 SMB Firewall**

*With 100 On-Line Users Support*



This desktop firewall provides cost-effective protection for a medium-sized network. It provides firewall protection as well as integrated services such as IP packet routing, NAT Application Level Gateway services, Virtual Private Network (VPN) with IPSec data encryption/encapsulation. Firewall functions include Stateful Packet Inspection (SPI), DoS attack prevention and user activity logging/monitoring with e-mail alert. Access Control List (ACL) with RADIUS authentication support is provided.

- 2,500 concurrent sessions
- Firewall performance: 96Mbps
- 3DES performance: 30Mbps
- 50 dedicated VPN tunnels
- 120 policies
- 10/100BASE-TX port to connect to DSL/cable modem
- 10/100BASE-TX dedicated DMZ port
- 3 10/100BASE-TX LAN switch ports

## **DFL-700 SMB Firewall**

*With 100 On-Line Users Support*



This desktop firewall provides cost-effective protection for a medium-sized network. It provides firewall protection as well as integrated services such as IP packet routing, NAT Application Level Gateway services, Virtual Private Network (VPN) with IPSec data encryption/encapsulation. Firewall functions include Stateful Packet Inspection (SPI), DoS attack prevention and user activity logging/monitoring with e-mail alert. Access Control List (ACL) with RADIUS authentication support, and bandwidth management are provided.

- 10,000 concurrent sessions
- Firewall performance: 47Mbps
- 3DES performance: 17Mbps
- 200 dedicated VPN tunnels
- 1,000 policies, 256 schedules
- 10/100BASE-TX port to connect to DSL/cable modem
- 10/100BASE-TX dedicated DMZ port
- 10/100BASE-TX LAN port



## **DFL-900 Enterprise Firewall**



### *With 500 On-Line Users Support*

This standard rack-mountable firewall provides powerful protection for a departmental network. It provides firewall protection as well as integrated services such as IP packet routing, NAT Application Level Gateway services, Virtual Private Network (VPN) with IPSec data encryption/encapsulation. Firewall functions include Stateful Packet Inspection (SPI), DoS attack prevention and user activity logging/monitoring with e-mail alert. Access Control List (ACL) with RADIUS authentication support, and bandwidth management are

- 400,000 concurrent sessions
- Firewall performance: 170Mbps
- 3DES performance: 60Mbps
- 100 dedicated VPN tunnels
- 2,000 policies, 256 schedules
- 10/100BASE-TX port to connect to DSL/cable modem
- 10/100BASE-TX dedicated DMZ port
- 10/100BASE-TX LAN port

## **DFL-1100 Enterprise Firewall**



### *With 500 On-Line Users Support & Fault Tolerance*

This standard rack-mountable firewall provides powerful protection with fault tolerance for an enterprise network. It provides firewall protection as well as integrated services such as IP packet routing, NAT Application Level Gateway services, Virtual Private Network (VPN) with IPSec data encryption/encapsulation. Firewall functions include Stateful Packet Inspection (SPI), DoS attack prevention and user activity logging/monitoring with e-mail alert. Access Control List (ACL) with RADIUS authentication support, and bandwidth management are provided.

This firewall provides a backup port that can connect to another firewall for redundancy backup. In case of a failure of this firewall, the backup firewall will automatically take over to provide protection and integrated service for the network.

- 200,000 concurrent sessions
- Firewall performance: 250Mbps
- 3DES performance: 34Mbps
- 1,000 dedicated VPN tunnels
- 2,000 policies, 256 schedules
- 10/100BASE-TX port to connect to DSL/cable modem
- 10/100BASE-TX dedicated DMZ port
- 10/100BASE-TX LAN port
- 10/100BASE-TX backup port to connect to another firewall

## **DFL-1500 Enterprise Firewall**



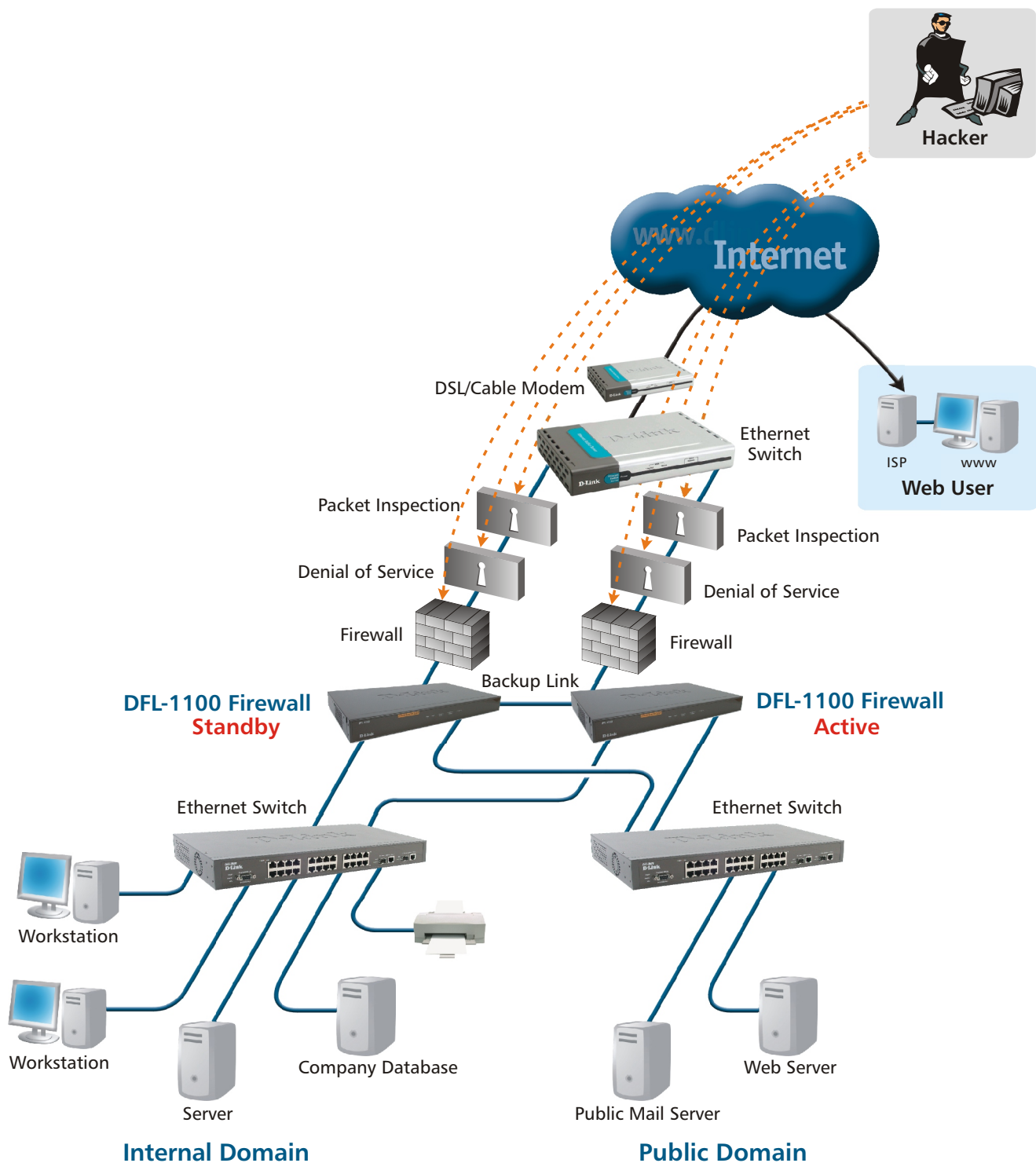
### *With 1,500 On-Line Users Support & Fault Tolerance, Load Balancing*

This standard rack-mountable advanced firewall provides powerful protection with fault tolerance and high availability for an enterprise network. It provides firewall protection as well as integrated services such as IP packet routing, NAT Application Level Gateway services, Virtual Private Network (VPN) with IPSec data encryption/encapsulation. Firewall functions include Stateful Packet Inspection (SPI), DoS attack prevention and user activity logging/monitoring with e-mail alert. Access Control List (ACL) with RADIUS authentication support, and bandwidth management are provided.

This firewall implements intelligent auto-routing algorithm to dynamically balance outgoing traffic to multiple WAN links. The firewall offers multi-homing that load-balances inbound traffic as well as detects and redirect traffic away from the failed links. It does not need complex BGP programming or cooperation from ISP.

As an advanced fail-over function, two DFL-1500 firewalls can work as a team in a master-backup fashion. Should the master go out of service, the backup will become active and take over the role of the master until the master is back on-line again.








- 400,000 concurrent sessions
- Firewall performance: 400Mbps
- 3DES performance: 100Mbps
- 256 dedicated VPN tunnels
- 2,000 policies, 256 schedules
- 5 10/100BASE-TX ports configurable as WAN ports, LAN ports, DMZ port



Deploying High Availability Firewalls for Network Protection

## Firewall Comparison Table

Use this Comparison Chart to find out which firewall is right for you.

	DFL-100	DFL-200	DFL-600	DFL-700	DFL-900	DFL-1100	DFL-1500
							
Application	SOHO	SOHO	SMB	SMB	Enterprise	Enterprise	Enterprise
Size	Desktop	Desktop	Desktop	Desktop	Rack-mount	Rack-mount	Rack-mount
Maximum on-line users	50	50	100	100	500	500	1,500
Maximum concurrent sessions	2,048	3,000	2,500	10,000	400,000	200,000	400,000
Firewall performance	50Mbps	50Mbps	96Mbps	100Mbps	170Mbps	250Mbps	400Mbps
WAN port	1	1	1	1	1	1	2
LAN port	3	4	3	1	1	1	3
Dedicated DMZ port	1	1	1	1	1	1	User configurable
Firewall backup port (sync port)	-	-	-	-	-	1	-
RS-232 console port	-	-	-	Yes	Yes	Yes	Yes
IPSec 3DES/AES encryption	3DES only	3DES only	3DES only	Yes	Yes	Yes	Yes
Policy-based content filtering	-	Yes	Yes	Yes	Yes	Yes	Yes
Logging/monitoring	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SNMP management	-	Yes	-	Yes	-	Yes	-
Multiple administrators	-	-	-	Yes	-	Yes	-
RADIUS authentication	-	Yes	Yes	Yes	Yes	Yes	Yes
Intrusion Detection System (IDS)	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bandwidth management:	-	-	Yes	Yes	Yes	Yes	Yes
Anti-virus, worm, content attack protection:	-	-	-	-	-	-	-
Load balancing:	-	-	-	-	-	-	Yes
High Availability (HA):	-	-	-	-	-	Yes	Yes

## Plug-and-Play 10/100Mbps Switches

### Desktop Solutions

The Desktop 10/100Mbps Switches are Unmanaged Layer 2 Switches designed for cost-effective, plug-and-play network connection for SOHO and SMB users.

They provide 10/100BASE-TX ports that support auto-

sensing 10/100Mbps Ethernet speeds, full/half duplex auto negotiation, and auto MDI/MDIX for plug-and-play connection.

#### Features & Benefits

- |                                     |   |
|-------------------------------------|---|
| ■ Simple plug-and-play installation | Cost-effective for network novice.  |
| ■ 802.3x Flow Control               | Allows your servers to directly connect to the switch for fast, reliable data transfer.   |
| ■ Auto MDI/MDIX                     | - Eliminates the need for cross over cables.<br>- Any port can simply plug to a workstation, server, switch, using the usual straight-through twisted-pair cable. |
| ■ Easy expansion                    | You can cascade several switches together to get more ports.  |

#### DES-1005D 5-Port 10/100Mbps Switch



This switch provides 5 auto-sensing 10/100BASE-TX ports in a compact desktop box. Power supply is provided through an external power adapter.

#### DES-1008D 8-Port 10/100Mbps Switch



This switch provides 8 auto-sensing 10/100BASE-TX ports in a compact desktop box. Power supply is provided through an external power adapter.

#### DES-1005F 5-Port 10/100Mbps Switch



This switch provides 4 auto-sensing 10/100BASE-TX ports, and a 100BASE-FX fiber Fast Ethernet port in a compact desktop box. The fiber port provides for connection of a workstation or server over a reliable, extended distance fiber cable. It has an SC connector and supports multi-mode fiber cable of up to 2 km distance. Power supply for the switch is provided through an external power adapter.

## **DES-1008F 8-Port 10/100Mbps Switch**



This switch provides 7 auto-sensing 10/100BASE-TX ports, and a 100BASE-FX fiber Fast Ethernet port in a compact desktop box. The fiber port provides for connection of a workstation or server over a reliable, extended distance fiber cable. It has an SC connector and supports multi-mode fiber cable of up to 2 km distance. Power supply for the switch is provided through an external power adapter.

## **DES-1018DG 18-Port 10/100Mbps Switch**



This high port-density switch provides 16 auto-sensing 10/100BASE-TX ports, and 2 1000BASE-T copper Gigabit ports in a compact desktop box. The Gigabit ports provide for cost-effective server connection over the existing Cat. 5 twisted-pair network cable. Power supply is provided through an external power adapter.

## **DES-1024DG 24-Port 10/100Mbps Switch**



This high port-density switch provides 22 auto-sensing 10/100BASE-TX ports, and 2 1000BASE-T copper Gigabit ports in a compact desktop box. The Gigabit ports provide for cost-effective server connection over the existing Cat. 5 twisted-pair network cable. Power supply is provided through an external power adapter.

## **DES-1010G 10-Port 10/100Mbps Switch**



This switch provides 8 auto-sensing 10/100BASE-TX ports, and 2 1000BASE-T copper Gigabit ports in a desktop housing. The Gigabit ports provide for cost-effective server connection over the existing Cat. 5 twisted-pair network cable. Power is provided through an internal power supply built inside the switch.

## **DES-1016D 16-Port 10/100Mbps Switch**



This high port-density switch provides 16 auto-sensing 10/100BASE-TX ports in a desktop housing. Power is provided through an internal power supply built inside the switch. A 19-inch rack-mount installation kit is provided to allow you to install this switch in standard size equipment rack.

## **DES-1024D 24-Port 10/100Mbps Switch**



This high port-density switch provides 24 auto-sensing 10/100BASE-TX ports in a desktop housing. Power is provided through an internal power supply built inside the switch. A 19-inch rack-mount installation kit is provided to allow you to also install this switch in standard size equipment rack.

## Plug-and-Play 10/100Mbps Switches

### Rack-Mount Solutions

The Rack-Mount 10/100Mbps Switches are Unmanaged Layer 2 Switches designed for cost-effective, plug-and-play network connection for SMB users. All switches have 19-inch rack-mount width, allowing you to install them in a standard equipment rack.

These switches provide 10/100BASE-TX ports that support auto-sensing 10/100Mbps Ethernet speeds, full/half duplex auto negotiation, and auto MDI/MDIX for plug-and-play connection.

#### DES-1016R+ 16-Port 10/100Mbps Switch



This switch provides 16 auto-sensing 10/100BASE-TX ports and an open slot in a rack-mount housing. The open slot allows you to install an optional 2-port 100BASE-FX fiber Fast Ethernet module. The fiber ports can be used to attach servers or to cascade several switches over a reliable, extended distance fiber cable. Power is provided through an internal power supply built inside the switch.

#### DES-1024R+ 24-Port 10/100Mbps Switch



This switch provides 24 auto-sensing 10/100BASE-TX ports and an open slot in a rack-mount housing. The open slot allows you to install an optional 2-port 100BASE-FX fiber Fast Ethernet module. The fiber ports can be used to attach servers or to cascade several switches over a reliable, extended distance fiber cable. Power is provided through an internal power supply built inside the switch.

#### Optional Port Module

For Use With DES-1016R+ and DES-1024R+ Switches

Port Module	Port	Connector	Cable Type	Max. Cable Distance
DES-102F	2 100BASE-FX ports	SC	Multi-mode fiber	2 km

#### DES-1026G 26-Port 10/100Mbps Switch



This switch provides 24 auto-sensing 10/100BASE-TX ports, and 2 1000BASE-T copper Gigabit ports in a rack-mount housing. The Gigabit ports provide for cost-effective server connection over the existing Cat. 5 twisted-pair network cable. Power is provided through an internal power supply built inside the switch.

#### DES-1048G 50-Port 10/100Mbps Switch



This switch provides 48 auto-sensing 10/100BASE-TX ports and 2 SFP in a rack-mount housing. The SFP provide flexible fiber Gigabit connection. You can install a transceiver in the SFP for short, medium or long distance fiber connection. Power is provided through an internal power supply built inside the switch.



## DES-1200M Modular Switch



This switch provides 4 open slots for installation of 4 optional port modules. With a variety of port module support, you can flexibly configure the switch with up to 32 10/100BASE-TX ports, 16 100BASE-FX fiber Fast Ethernet ports or 4 Gigabit ports, or a combination of different types of ports. All port modules come with their own RAM buffers to enhance cost/performance. The switch comes with an internal power supply.

### Optional Port Modules

#### *For Use With DES-1200 Switch*

Port Module	Port	Connector	Cable Type	Max. Cable Distance
DES-128	8 10/100BASE-TX ports	RJ-45	Cat. 3, 4, 5 twisted-pair	100 m
DES-124F	4 100BASE-FX ports	SC	Multi-mode fiber	2 km
DES-121G	1 1000BASE-SX port	SC	Multi-mode fiber	550 m
DES-121T	1 10/100/1000BASE-T port	RJ-45	Cat. 5 twisted-pair	100 m

## Plug-and-Play Gigabit Switches

*D-Link Plug-and-Play Gigabit Switches are Layer 2 Switches designed for cost-effective, plug-and-play high-bandwidth network connection for SOHO and SMB users. These are all-Gigabit switches with 1000BASE-T copper Gigabit ports that provide an inexpensive alternative solution to fiber-optic.*

*Connecting to your existing low-cost Cat. 5 copper twisted-pair wires as the transmission media, these switches allow you to instantly upgrade to Gigabit capability without having to install new, expensive fiber cables.*

**D-Link Hot selling Gigabit LAN Switches  
Ranked Third in Market Share in 2003 by:**

**NetworkWorldFusion**  
The Leader in Network Knowledge

### **DGS-1005D 5-Port Gigabit Switch**



This switch provides 5 10/100/1000BASE-T ports in a compact desktop box. Power supply is provided through an external power adapter.

### **DGS-1008D 8-Port Gigabit Switch**



This switch provides 8 auto-sensing 10/100/1000BASE-T ports in a compact desktop box. Power supply is provided through an external power adapter.

### **DGS-1008TL 8-Port Gigabit Switch**



This switch provides 8 auto-sensing 10/100/1000BASE-T ports in a desktop housing. Power is provided through an internal power supply built inside the switch. A 19-inch rack-mount installation kit is provided to allow you to install this switch in a standard size equipment rack.

### **DGS-1016D 16-Port Gigabit Switch**



This switch provides 16 auto-sensing 10/100/1000BASE-T ports in a desktop housing. Power is provided through an internal power supply built inside the switch. A 19-inch rack-mount installation kit is provided to allow you to also install this switch in standard size equipment rack.

### **DGS-1024D 24-Port Gigabit Switch**



This switch provides 24 auto-sensing 10/100/1000BASE-T ports in a desktop housing. Power is provided through an internal power supply built inside the switch. A 19-inch rack-mount installation kit is provided to allow you to also install this switch in standard size equipment rack.



## Smart Switches

### Plug-and-Play Switches With Added-Value Functions

*The D-Link Smart Switches are plug-and-play switches that provide the added-value functions without the added cost. These switches present a cost-effective solution for the small and medium business to implement enhanced performance and security without having to go through complex SNMP network management or sacrificing the plug-and-play ease of use.*

*The added-value features cover all the basic functions important for bandwidth-intensive applications -- features such as port trunks for server deployment and network backbone attachment, Priority Queues for Quality of*

*Service (QoS), and VLANs for network security. All these functions can be configured for the switches from any network station via an Internet browser, dispensing you of the need to set up consoles and connect console cables.*

*All D-Link Smart Switches are equipped with Gigabit uplinks that allow you to connect to servers, to cascade to other switches, or to attach to the network backbone. With these added functions and convenience, D-Link Smart Switches are real smart switches that provide the performance and functions without foregoing the simple plug-and-play character.*

#### Functions That Add Values

■ Web-based management from any network station	- No expensive, complex SNMP management software required. - No console required, no console cable needed to connect.
■ Port trunks	Aggregated bandwidths to servers and backbone.
■ 802.1p Priority Queues	Class of Service (CoS) and Quality of Service (QoS) for connected users to run multimedia applications.
■ Port-based VLAN	Allows network segmentation to provide security and improve performance.

#### DES-1226G 26-Port 10/100Mbps Smart Switch



This switch provides 24 10/100BASE-TX ports for workstations and 2 combo 1000BASE-T/SFP. The combo ports allow you to flexibly connect servers to either copper Gigabit or fiber Gigabit.

## **DGS-1216T 16-Port Gigabit Smart Switch**



This all-Gigabit switch provides 16 10/100/1000BASE-T ports for copper Gigabit connection and 2 combo SFP for flexible fiber Gigabit connection.

## **DGS-1224T 24-Port Gigabit Smart Switch**



This Gigabit switch provides 24 10/100/1000BASE-T ports for copper Gigabit connection and 2 combo SFP for flexible fiber Gigabit connection.

*\*Use of the SFP will disable their corresponding built-in copper Gigabit connections .*

## Managed 10/100Mbps Switches

### Stand-Alone SNMP Managed Solutions

*The D-Link Managed 10/100Mbps Switches are function-rich SNMP manageable switches that offer a high Ethernet port density for departmental connection.*

*These switches are designed for businesses that have a requirement for network security and performance-tuning but do not want to associate with the cost of the stackable switches.*

*These switches provide important functions like port trunks, VLANs and priority queues, allowing a department to effectively deploy a bottleneck-free*

*switching network for easy integration with a larger enterprise or campus network.*

*These switches pack a high density of 10/100BASE-TX Ethernet ports supporting auto-sensing 10/100Mbps network speeds in a low-profile, standard rack-mount housing. Gigabit ports are also provided for high-bandwidth server/backbone attachments.*



#### Management Features & Benefits

■ Port trunks supporting 802.3ad LACP	Aggregated bandwidth to servers and backbone.
■ IP routing supporting RIP-1, RIP-2, OSPF routing protocols, DVMRP, PIM Dense mode	Extensive Layer 3 packet routing for connected users.
■ 802.1Q VLAN, IGMP snooping, 802.1p Priority Queues	Multi-layer (L2, L3, L4) Class of Service (CoS) and Quality of Service (QoS) for connected users.
■ Multi-layer ACL, 802.1x port-based, MAC-based access control	Access security implementation.
■ Per-port bandwidth control & broadcast storm control	Improves network performance.
■ Port mirroring	Permits analysis of packet patterns to facilitate troubleshooting.
■ 802.1D compatible Spanning Tree & 802.1w Rapid Spanning Tree support	Provides for redundant backup bridge paths for all switches connected on the network.
■ SNMP v.1, v2c, v.3 support	Latest management standard support.
■ RMON monitoring	Allows platform-independent network management.

## **DES-3226L** 26-Port Layer 2 10/100Mbps Switch



This switch is designed as a low-cost single-chip switch solution supporting 24 auto-sensing 10/100BASE-TX connections and 2 combo 1000BASE-T/SFP (mini GBIC) Gigabit uplinks. It's low-profile rack-mount switch designed for installation in a standard equipment rack. The combo ports provide for flexible Gigabit connection on your existing Cat. 5 twisted-pair cable or the fiber optics. For fiber connection, you can select to install an optional transceiver in the SFP slots for short, medium or long distance.

## **DES-3250TG** 50-Port Layer 2 10/100Mbps Switch



This switch provides 48 auto-sensing 10/100BASE-TX ports and 2 combo 1000BASE-T/SFP Gigabit ports in a low-profile rack-mount housing for installation in a standard equipment rack. The combo ports provide for flexible Gigabit connection on your existing Cat. 5 twisted-pair cable or the fiber optics.

## **DES-3350SR** 50-Port Layer 3 10/100Mbps Switch



This switch provides basic IP routing, with instant support for Windows, Unix and Internet environments. It provides wire-speed non-blocking switch fabrics with hardware-based packet filtering/forwarding. Packet routing is performed by on-board ASICs at speeds many times faster than CPU-based routers.

The switch provides 48 auto-sensing 10/100BASE-TX ports and 2 combo 1000BASE-T/SFP Gigabit ports in a low-profile rack-mount housing for installation in a standard equipment rack. The combo ports provide for flexible Gigabit connection on your existing Cat. 5 twisted-pair cable or the fiber optics.

The switch can be connected to an optional DPS-200 external power supply for redundant power backup.

*\* Use of the SFP will disable their corresponding built-in copper 10/100/1000BASE-T connections.*



# Managed Gigabit Switches

## Stand-Alone SNMP Managed Solutions

*The D-Link Managed Gigabit Switches are function-rich SNMP manageable switches that offer a high Gigabit port density for departmental connection. These switches are designed for businesses that have a requirement for network security and performance-tuning but do not want to associate with for the cost of the stackable switches.*

*These switches provide important functions like port trunks, VLANs and priority queues, allowing a department to effectively deploy a bottleneck-free switching network for easy integration with a larger enterprise or campus network.*

D-Link Gigabit LAN Switches  
Ranked Third in  
Market Share in 2003 by

**NetworkWorldFusion**  
The Leader in Network Knowledge

**Business  
& Enterprise**  
SOLUTIONS

### Management Features & Benefits

■ Port trunks supporting 802.3ad LACP	Aggregated bandwidth to servers and backbone.
■ IP routing supporting RIP-1, RIP-2, OSPF routing protocols, DVMRP, PIM Dense mode	Extensive Layer 3 packet routing for connected users.
■ 802.1Q VLAN, IGMP snooping, 802.1p Priority Queues	Multi-layer (L2, L3, L4) Class of Service (CoS) and Quality of Service (QoS) connected users.
■ Multi-layer ACL, 802.1x port-based, MAC-based access control	Access security implementation.
■ Per-port bandwidth control & broadcast storm control	Improves network performance.
■ Port mirroring	Permits analysis of packet patterns to facilitate troubleshooting.
■ 802.1D compatible Spanning Tree & 802.1w Rapid Spanning Tree support	Provides for redundant backup bridge paths for all switches connected on the network.
■ SNMP v.1, v2c, v.3 support	Latest management standard support.
■ RMON monitoring	Allows platform-independent network management.
■ Jumbo frame support	Increases network performance.

## DGS-3224TGR 24-Port Layer 2 Gigabit Switch



This switch provides 24 10/100/1000BASE-T ports and 4 combo SFP in a low-profile rack-mount housing for installation in a standard equipment rack. The combo SFP provide for flexible fiber Gigabit connection.

This switch can be connected to a DPS-300 external power supply for redundant power backup purposes. In case the built-in internal power supply fails, the redundant power supply unit will automatically provide all the required power to ensure continuous operation.

*\* Use of the SFP will disable their corresponding built-in copper 10/100/1000BASE-T connections.*

## DGS-3308TG 8-Port Layer 3 Gigabit Switch



This IP routing switch provides 8 10/100/1000BASE-T ports and 2 GBIC slots in a low-profile rack-mount housing for installation in a standard equipment rack. Packet routing is performed by on-board ASIC at wire speed.

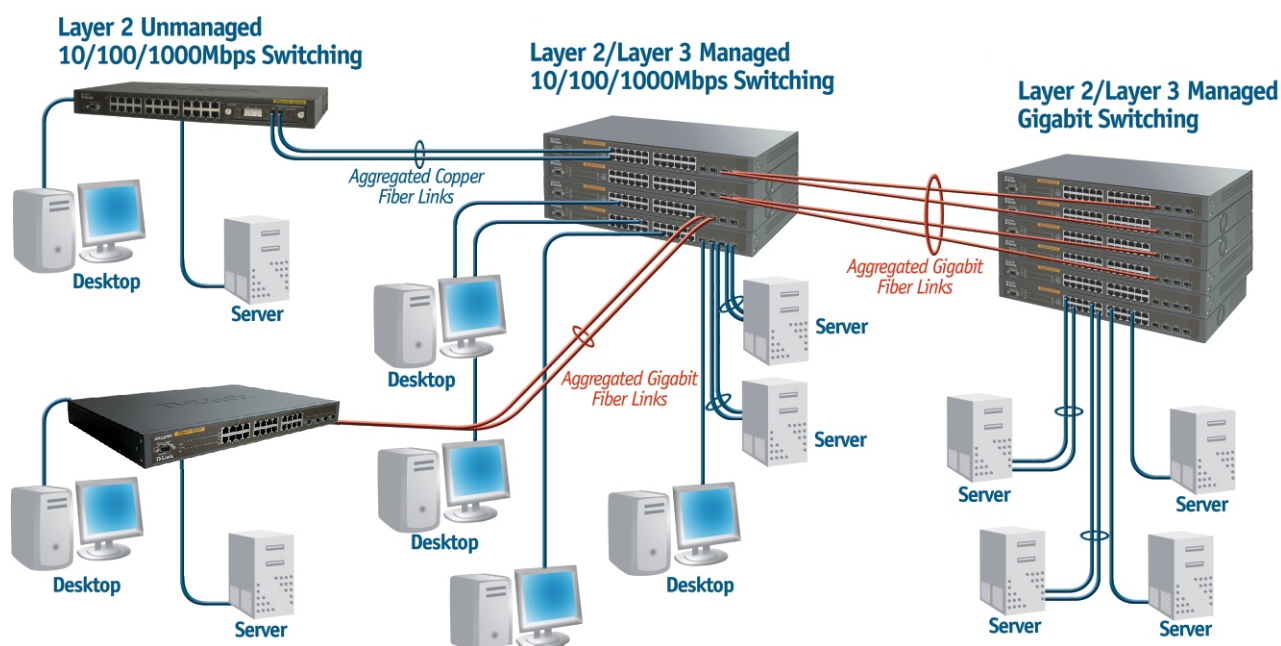
You can have redundant power backup by connecting the switch to an optional DPS-1000 redundant power supply.

## DGS-3308FG 8-Port Layer 3 Gigabit Switch



This all-fiber IP routing switch provides 8 1000BASE-SX ports and 2 GBIC slots in a low-profile rack-mount housing for installation in a standard equipment rack. Packet routing is performed by on-board ASIC at wire speed. The 1000BASE-SX ports have SC connectors and support multi-mode fiber cable distance of up to 550 meters.

You can have redundant power backup by connecting the switch to an optional DPS-1000 redundant power supply.



Connecting 10/100Mbps and Gigabit Switches on a Network

## 10/100Mbps Stackable Switches

### For Scalable Expansion

The D-Link DES-3x26 series of 10/100Mbps Stackable Switches are function-rich SNMP manageable switches that provide scalable expansion for departmental and enterprise connection. Supporting the physical Star Stacking through a DGS-3212SR or DGS-3312SR Stacking Master, these stackable switches can provide up to 24Gbps full-duplex stacking backplane.

The star architecture provides for fault tolerance and performance. Up to 12 switch units can be stacked with a Stacking Master, each unit having a dedicated full-duplex 2Gbps bandwidth. Any broken link between a stacked unit and the Stacking Master will not affect the entire stack. 4 units can be stacked through the normal Cat. 5 twisted-pair network cables (using the Gigabit ports), and 6 units can be stacked through the stacking cables (using the stacking ports).

These switches blend many features typically found in more expensive chassis-based solutions, including performance, high port density, unit hot swap and redundant power backup, with the price and flexibility of a stackable. A complete set of security and performance-tuning/monitoring functions is provided. With scalable expansion support, these switches allow you to easily add units to increase port density as your need grows, without making changes to your existing network architecture.

In addition to the Star Stacking, these switches also support the cost-effective Ring Stacking scheme. This is useful for a small installation site, where you can stack a few switch units together through the stacking ports, without having to add a Stacking Master.

#### Features & Benefits

■ Fail-safe Star Stacking (DES-3226S only)	Fault tolerance; any single point of link failure will not affect the rest of the stack.
■ High-performance 24Gbps stacking backplane	When switch units are stacked through a Stacking Master, all data packets travel from switch to switch as if within a single high-performance unit.
■ Scalable expansion	Easy adding of units to stack to increase port density whenever required.
■ Cost-effective Ring Stacking support	Allows small number of switch units to be stacked together without having to add a Stacking Master.

#### DES-3226S 24-Port Layer 2 Stackable Switch



This switch provides 24 10/100BASE-TX ports and 1 open slot for installation of an optional port module. Gigabit and fiber Fast Ethernet are supported through optional port modules. Complete web-based/SNMP network management and RMON monitoring functions are provided.

In star stacking scheme, the switch supports up to 12 units per stacks (a DGS-3212SR or DGS-3312SR Stacking Master is required). Ring stacking supports up to 13 units per stack.

## DES-3326SR 24-Port Layer 3 Stackable Switch



This IP routing switch provides 24 10/100BASE-TX ports and 1 open slot for installation of an optional port module. Gigabit and fiber Fast Ethernet are supported through optional port modules. Complete web-based/SNMP network management and RMON monitoring functions are provided.

Ring stacking supports up to 13 units per stack. You can also have redundant power backup by connecting to an optional DPS-200 redundant power supply. For a stack of DES-3326SR, a DPS-900 8-slot redundant power supply chassis provides convenient installation in an equipment rack.

## Optional Port Modules

### For DES-3226S & DES-3326SR Stackable Switches

Port Module	Port	Connector	Cable Type	Max. Cable Distance
<b>DES-3326S</b>	1 stacking port	SIO	Stacking cable	-
	1 GBIC	-	Fiber	-
<b>DES-132</b>	2 10/100BASE-TX ports	RJ-45	Cat. 3, 4, 5 twisted pair	100 m
<b>DES-131F</b>	1 10/100BASE-FX port	SC	Multi-mode fiber	2 km
<b>DES-132F</b>	2 100BASE-FX ports	SC	Multi-mode fiber	2 km
<b>DES-131FL</b>	1 100BASE-FX port	SC	Single-mode fiber	15 km
<b>DES-132FL</b>	2 100BASE-FX ports	SC	Single-mode fiber	15 km
<b>DES-132G</b>	2 1000BASE-SX ports	SC	Multi-mode fiber	550 m
<b>DES-132GL</b>	2 1000BASE-LX ports	SC	Single-mode fiber	10 km
<b>DES-132T</b>	2 10/100/1000BASE-T ports	RJ-45	Cat. 5 twisted-pair	100 m
<b>DES-132GB</b>	2 GBIC	-	Fiber	-
<b>DEM-3206S*</b>	1 Stacking port	SIO	Stacking cable	-
	1 GBIC	-	Fiber	-
<b>DEM-320S*</b>	2 1000BASE-SX ports	SC	Multi-mode fiber	550 m
<b>DEM-320L*</b>	2 1000BASE-LX ports	SC	Single-mode fiber	10 km
<b>DES-322T*</b>	2 10/100/1000BASE-T ports	RJ-45	Cat. 5 twisted-pair	100 m
<b>DEM-320GH*</b>	2 GBIC	-	Fiber	-

\* Please check with your D-Link sales representative for date of availability.

## Virtual Stacks

### Single IP Management

The D-Link DES-3500 series of 10/100Mbps Stackable Switches are function-rich SNMP manageable Layer 2 switches that use the D-Link Single IP Management technology to provide your network with Virtual Stacking. This Virtual Stacking structure provides a single IP address management of up to 32 switches with no single point of failure and not limited to specific models, specialized stacking cables, cable distance barriers or physical stacking methods.

The advantage of Virtual Stacking is that you can have a stack of switches without physically stacking them up with special stacking cables. Your virtual stack can consist of any switches located anywhere on your network that you want to configure them as part of the stack. Traffic running between the switches in the virtual stack is through the fast full-duplex Gigabit uplinks, and through your usual network cables.

These switches utilize a single IP address for management as a single entity from any workstation

running a web browser. Through the Virtual Stack's built-in web manager, you can see a Tree View (clear information about the members of the virtual stacks) and your network Topology (locations of the switches and their link information). D-Link Virtual Stack provides a complete set of network access management, plus multi-layer (L2, L3, L4) Quality of Service support, advanced Access Control Lists (ACL) support, and enhanced TACACS+ and RADIUS authentication.

D-Link Virtual Stack DES-3500 series switches include models with 24 and 48 10/100Mbps ports, both in low-profile rack-mount size and providing 2 combo 1000BASE-T/SFP Gigabit uplinks, as well as redundant power supply support. Both switches are mutually stackable using D-Link Single IP Management technology, and can also be stacked with any other switches that are equipped with D-Link Single IP Management.

#### Virtual Stack Advanced Functions & Benefits

■ No physical stacking required	<ul style="list-style-type: none"> <li>- No need for special stacking cable.</li> <li>- Switches in the stack can be located anywhere in the network.</li> <li>- Stack not limited to specific switch models.</li> </ul>
■ Complete network access management solution including 802.1x & port security	Allows network administrators to control users/client stations' identities and quickly identify their locations.
■ TACACS+ & RADIUS authentication support	Allows centralized management of user access through TACACS+ & RADIUS servers.
■ Comprehensive network application control	Prevents malicious traffic from spreading across the network.
■ L2/L3/L4 multi-layer Quality of Service (QoS)	Ensures that critical network services like VoIP, ERP, Intranet and video conference are served with proper priority.

## DES-3526 26-Port Virtual Stackable Switch

### Single IP Management



This switch provides 24 10/100BASE-TX ports and 2 combo 1000BASE-T/SFP Gigabit ports. It can be stacked with the DES-3550 switch and any other switches equipped with the D-Link Single IP Management (SIM) technology. The combo ports provide for flexible copper or fiber Gigabit uplinks and fast full-duplex 2Gbps switch stacking. Complete web-based/SNMP network management and RMON monitoring functions are provided.

You can configure this switch with redundant power backup by connecting an external redundant power supply to the back of the switch.

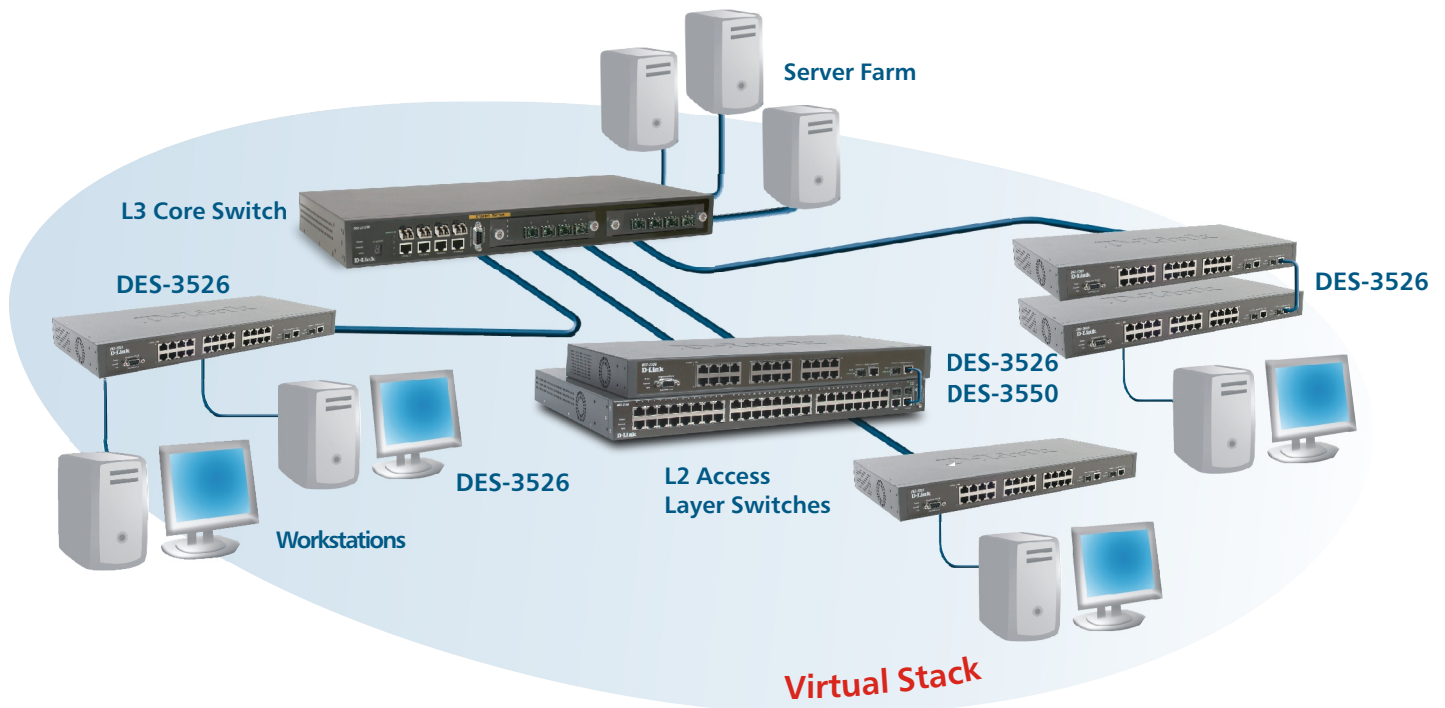
## DES-3550 50-Port Virtual Stackable Switch

### Single IP Management



This switch provides 48 10/100BASE-TX ports and 2 combo 1000BASE-T/SFP Gigabit ports. It can be stacked with the DES-3526 switch and any other switches equipped with the D-Link Single IP Management (SIM) technology. The combo ports provide for flexible copper or fiber Gigabit uplinks and fast full-duplex 2Gbps switch stacking. Complete web-based/SNMP network management and RMON monitoring functions are provided.

You can configure this switch with redundant power backup by connecting an external redundant power supply to the back of the switch.



## Virtual Stacking With Single IP Management



## Modular Gigabit Switches

### Flexible Star Stacking/Gigabit Uplinks & Single IP Management \*

The D-Link Modular Gigabit Switches use the modular architecture to provide you with the flexibility to use it as a Stacking Master, or as an all-Gigabit switch with copper and fiber cables support. Capable of providing 12 dedicated 2Gbps full-duplex links to 12 DES-3x26 series stackable switches, these Modular Gigabit Switches provide the fault tolerant star architecture, redundant power backup, and Single IP Management\* for performance and functions for you to set up departmental/enterprise network for mission-critical applications.

Each Modular Gigabit Switch provides 4 built-in combo 1000BASE-T/SFP ports. 2 expansion slots allow you to configure the switch with 8 additional copper or fiber Gigabit ports, or with 8 stacking ports.

The star architecture provides for fault tolerance and performance. Any broken link between a stacked unit and the Stacking Master will not affect the entire stack. 4

units of DES-3x26 series switches can be stacked with a modular Gigabit switch through the normal Cat. 5 twisted-pair network cables (using the built-in Gigabit ports), and 6 units can be stacked through the stacking cables (using the stacking ports that you install the open slots).

D-Link Modular Gigabit Switches will support D-Link Single IP Management\*. This allows the Modular Gigabit Switch and the stack of DES-3x26 series switches to be stacked with any other switches that support the Single IP Management technology as a Virtual Stack, regardless of where they are located in the network, and regardless of the type of cables used to link these switches together. This Virtual Stack can be managed as a single entity from any workstation running a web browser.

\* Function available in the near future as firmware upgrade.

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#### Modular Features & Benefits

■ Flexible configuration as Stacking Master or all-Gigabit switch	2 open slots permit installation of all stacking ports or all Gigabit ports, or a combination of both.
■ Flexible configuration of Gigabit port types	Port modules supporting copper or fiber Gigabit connections are available for selection to suit requirements.
■ Up to 24Gbps stacking bandwidth	Allows all switches in the stack to transmit/receive data packets in very high speed, as if they are part of a single hardware entity.
■ Scalable expansion with 288 10/100Mbps ports & 12 Gigabit uplinks	Allows units to be added anytime to obtain a very high-port density stack of DES-3x26 switches.
■ 12-port collapsed backbone	If configured as an all-Gigabit switch, can provide multiple full-duplex Gigabit uplinks to a network fiber backbone.
■ Seamless integration with Virtual Stacks	Combination of high physical stacking bandwidth with Virtual Stack provides double benefits.

## DGS-3212SR 12-Port Layer 2 Gigabit Modular Switch

### Single IP Management



This Modular Gigabit Switch provides 4 combo 10/100/1000BASE-T/SFP (mini GBIC) ports and 2 open slots for installation of optional port modules. The built-in combo ports provide for flexible copper or fiber Gigabit connection.

This switch provides fault tolerant star stacking for 12 units of DES-3226S switches. The DES-3226S stackable switches can be connected to this Stacking Master through the 4 built-in ports and/or the optional DEM-540 stacking port modules that you can install in the open slots. Each of the switches thus stacked is given a high full-duplex 2Gbps dedicated bandwidth with the Stacking Master.

A complete set of comprehensive security and performance-tuning/monitoring functions through web-based and SNMP management is provided. You can have redundant power backup by connecting the Stacking Master to an optional DPS-200 redundant power supply.

## DGS-3312SR 12-Port Layer 3 Modular Gigabit Switch

### Single IP Management



This IP routing switch provides 4 combo 10/100/1000BASE-T/SFP (mini GBIC) ports and 2 open slots for installation of optional port modules. The built-in combo ports provide for flexible copper or fiber Gigabit connection.

This switch provides fault tolerant star stacking for 12 units of DES-3226S series stackable switches. The DES-3226S series switches can be connected to this Stacking Master through the 4 built-in ports and/or the optional DEM-540 stacking port modules that you can install in the open slots. Each of the switches thus stacked is given a high full-duplex 2Gbps dedicated bandwidth with the Stacking Master.

A complete set of comprehensive security and performance-tuning/monitoring functions through web-based and SNMP management is provided. You can have redundant power backup by connecting the Stacking Master to an optional DPS-200 redundant power supply.

*\* Single IP Management function available in the near future as firmware upgrade.*

## Optional Port Modules

### For DGS-3212SR and DGS-3312SR Switches

Port Module	Port	Connector	Cable Type	Max. Cable Distance
DEM-540	4 stacking ports	SIO	Stacking cable	-
DEM-340T	4 10/100/1000BASE-T ports	RJ-45	Cat. 5 twisted-pair	100 m
DEM-340MG	4 SFP	-	Fiber	-

**xStack™**



## The Ultimate Stackable Alternative to Meet Your Chassis Requirements

*The D-Link xStack consists of the ultimate Layer 3 stackable switches that provide the performance, fault tolerance, flexibility, port density, security and management functions -- all the features typically found in the more expensive chassis-based solutions, at the price of a stackable!*

*First of all, high port densities per switch for low cost. Up to 48 10/100Mbps or Gigabit ports in a low-profile rack-mount case, complete with combo SFP fiber Gigabit uplinks or optional very high-speed 10GE uplinks. \**

*With a Stacking Master capable of providing 6 dedicated 10GE full-duplex links (20Gbps each) to 6 switches, the xStack provides you with the fault tolerant star architecture with 120Gbps aggregated stacking bandwidth! Shared 40Gbps stacking bandwidth in the ring topology is also provided for installation sites with fewer switches to stack (so you don't have to add a Stacking Master).*

*High Gigabit port densities per stack: maximum 312 Gigabit ports in the star architecture, and 336 Gigabit ports for the ring topology. In addition to the physical stacking with powerful bandwidth, the xStack also supports Virtual Stacking using the embedded Single IP Management technology. \**

*With a complete set of comprehensive security and performance-tuning/monitoring functions through web-based and SNMP management, redundant power backup support, wire-speed packet routing, and extensive Gigabit media support through the built-in SFPs, the D-Link xStack provides everything you need to set up a departmental/enterprise network for mission-critical applications.*



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### xStack™ Features & Benefits

■ Cost-Effective backbone Stacking Master	The Stacking Master can also serve the dual function of a network backbone through its multiple Gigabit uplinks, to save cost.
■ 120Gbps stacking bandwidth	Plenty of bandwidth for fast packets transfer between any 2 switches in the stack.
■ Physical Star Stacking architecture	Fault tolerance and enhanced performance. All switches link directly connect to a Stacking Master, eliminating network interruption due to any single point of failure.
■ No model restriction	Any switch in the xStack™ family can be stacked together(Ring or star).
■ Single IP Management support	- Allows Virtual Stacking of L3 core switches and L2 stackable switches. - No model restriction. Any switch (xStack or not) supporting D-Link Single IP Management can be virtually stacked together.
■ Optional 10GE Uplinks	Ultra-high speed uplinks 10 times faster than Gigabit, for very fast fiber backbone attachment. *

\* D-Link Single IP Management function available in the near future as firmware upgrade. 10GE uplinks available as options in switch model DXS-3326GSR and DXS-3350SR only.

## **DES-3352SR** 52-Port 10/100Mbps Switch

### Single IP Management



This IP routing L3 10/100Mbps switch provides a very high port density in a low-profile 1-U high rack-mount case. It provides 48 10/100BASE-TX Ethernet ports and 4 Gigabit uplinks (2 1000BASE-T copper Gigabit ports and 2 SFP supporting fiber Gigabit connections). 2 stacking ports each supporting 20Gbps full-duplex bandwidth are provided in the back for stacking. In a ring stacking scheme, the switch supports up to 12 units per stack. In the star stacking scheme, up to 6 of this switches can be stacked together (a DGS-3324SRi Stacking Master is required).

A complete set of comprehensive security and performance-tuning/monitoring functions through web-based and SNMP management is provided. You can have redundant power backup by connecting this switch to an optional redundant power supply.

## **DGS-3324SR** 24-Port Gigabit Switch

### Single IP Management



This IP routing L3 Stack Gigabit switch provides 24 10/100/1000BASE-T copper Gigabit ports and 4 combo SFP for flexible fiber Gigabit connections. 2 stacking ports each supporting 20Gbps full-duplex bandwidth are provided in the back for stacking. In a ring stacking scheme, the switch supports up to 12 units per stack. In star stacking scheme, up to 6 of this switches can be stacked together (a DGS-3324SRi Stacking Master is required).

A complete set of comprehensive security and performance-tuning/monitoring functions through web-based and SNMP management is provided. You can have redundant power backup by connecting this switch to an optional DPS-500 redundant power supply.

## **DGS-3324SRi** 24-Port Stacking Master

### Single IP Management



This IP routing L3 Stacking Master provides a high port density in a low-profile rack-mountable housing, which include 24 10/100/1000BASE-T copper Gigabit ports and 8 combo SFP. 6 stacking ports each supporting 20Gbps full-duplex bandwidth are provided in the back for stacking.

This switch provides fault tolerant star stacking for 6 xStack units. These units can be connected to this Stacking Master through the 6 built-in stacking ports on the back of the Stacking Master. Each of the switches thus stacked is given a high 20Gbps dedicated bandwidth with this Stacking Master.

A complete set of comprehensive security and performance-tuning/monitoring functions through web-based and SNMP management is provided. You can have redundant power backup by connecting this Stacking Master to an optional DPS-500 redundant power supply.

## **DXS-3326GSR** 26-Port Fiber Gigabit Switch *With Optional 10GE Uplinks*

### Single IP Management



This IP routing L3 all-fiber Gigabit switch provides 24 SFP and 1 open slot for an optional 10GE uplink module. This uplink module provides 2 XFP for 2 10GE transceivers providing transmission 10 times the speed of Gigabit. 4 combo 10/100/1000BASE-T Gigabit ports are also provided for flexible fiber/copper Gigabit configuration.

2 stacking ports each supporting 20Gbps full-duplex bandwidth are provided in the back for stacking. In a ring stacking scheme, the switch supports up to 12 units per stack. In star stacking scheme, up to 6 of this switches can be stacked together (a DGS-3324SRi Stacking Master is required).

A complete set of comprehensive security and performance-tuning/monitoring functions through web-based and SNMP management is provided. You can have redundant power backup by connecting this switch to an optional DPS-500 redundant power supply.

## DXS-3350SR 50-Port Gigabit Switch

*With Optional 10GE Uplinks*

### Single IP Management



This high port-density IP routing L3 Gigabit switch provides 48 10/100/1000BASE-T copper Gigabit ports in a low-profile rack-mount housing, plus 4 combo SFP and 1 open slot for an optional 10GE uplink module. This uplink module provides 2 XFP for 2 10GE transceivers providing transmission 10 times the speed of Gigabit.

2 stacking ports each supporting 20Gbps full-duplex bandwidth are provided in the back for stacking. In a ring stacking scheme, the switch supports up to 7 units per stack. In star stacking scheme, up to 6 of this switches can be stacked together (a DGS-3324SRi Stacking Master is required).

A complete set of comprehensive security and performance-tuning/monitoring functions through web-based and SNMP management is provided. You can have redundant power backup by connecting this switch to an optional DPS-500 redundant power supply.

## Optional 10Gigabit Port Module

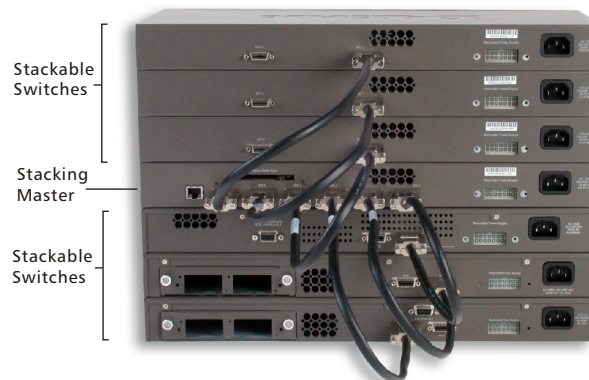
*For DXS-3326GSR and DXS-3350SR Switches*

Port Module	Slot	Speed	Full Duplex	Cable
DEM-420X	XFP	10Gbps	√	Fiber

\* Use of the SFP will disable their corresponding built-in copper 10/100/1000BASE-T connections. D-Link Single IP Management function available in the near future as firmware upgrade.



**xStack™ - Ring (Bus) Architecture**



**xStack™ - Star Architecture**



## Chassis Switches

### Modular Design With High Bandwidth Backplanes

*D-Link's Chassis Switches are high performance, high port density, function-rich SNMP manageable modular access switches designed for enterprise and campus connections. These switches offer high scalability and flexibility for deployment of growing networks. They provide multiple slots for installation of multiple port blades. Selectable port modules cover a wide range of port types, from Ethernet to Gigabit supporting copper twisted-pair and fiber types of network cables.*

*High Port Density - With up to 384 Gigabit ports per chassis, or 384 Ethernet ports or 32 10GE ports per chassis, these switches provide a very high port density for very fast packet switching from a single unit. \**

*High Switch Capacity, Packet Forwarding Rate - With up to 320Gbps switch fabric \* and up to 571 millions packet per second forwarding rate \*, these switches provide the very high performance gear for enterprise and campus connections.*

*10GE Uplinks - Ultra-high speed uplinks 10 times faster than Gigabit are available as user-installable card blades for very fast fiber backbone attachment. \**

*Scalable Expansion - With multiple line card slots and a wide range of user-selectable port types, these switches allow you to easily add modules to increase port density as your need grows, without changing your chassis.*

*Fault Tolerance - In addition to advanced software functions, maximum network uptime capability important to mission-critical applications, such as module hot swap, redundant management backup and redundant power backup, is also provided.*

\* Examples of user-configurable port densities, 320Gbps switch fabric, 571 Mpps forwarding rate and 10GE modules available on DES-7310 chassis switch.

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#### Chassis Highlights

■ Multiple slot chassis	Provides high port-density & high scalability.
■ High bandwidth backplane	Provides high switching capacity for slide-in modules.
■ Modular design	Flexible selection of port modules to suit different environment requirements.
■ Module hot swap, redundant power supplies & redundant backup management	Network resiliency & maximum network uptime.
■ D-Link Single IP Management Support	<ul style="list-style-type: none"> <li>- Allows chassis switches to be virtually stacked with any D-Link switch supporting D-Link Single IP Management.</li> <li>- Allows creation of an integrated network with chassis switches acting as core switches and virtually stacked departmental switches acting as access layer switches.</li> </ul>
■ 10GE Uplinks	Very high speed uplinks 10 times faster than Gigabit, for very fast fiber backbone attachment.



## DES-6000 9-Slot Layer 2 Chassis



This Chassis Switch provides 9 slots. The first slot is used for installation of a management module. The remaining 8 slots are for user-selectable optional modules.

The chassis comes standard with a management module and a single internal universal power supply. For redundant power backup, up to 2 other power supply modules can be optionally installed in the chassis.

The management module provides management functions for the switch ports and the redundant power supply units.

- Business/enterprise connection with Ethernet & Gigabit port module support
- Redundant power backup
- Up to 128 10/100BASE-TX Ethernet ports
- Up to 96 fiber Fast Ethernet ports
- Up to 16 Gigabit ports

### Optional Modules *For DES-6000 Chassis Switch*

Port Module	Port	Connector	Cable Type	Max. Cable Distance
<b>DES-6003</b>	16 10/100BASE-TX ports	RJ-45	Cat. 3, 4, 5 twisted-pair	100 m
<b>DES-6004</b>	12 100BASE-FX ports	MT-RJ	Multi-mode fiber	2 km
<b>DES-6005</b>	2 1000BASE-SX ports	MT-RJ	Multi-mode fiber	550 m
<b>DES-6006</b>	2 1000BASE-SX ports	SC	Multi-mode fiber	550 m
<b>DES-6007</b>	2 1000BASE-LX ports	SC	Single-mode fiber	10 km
<b>DES-6008</b>	2 10/100/1000BASE-T ports	RJ-45	Cat. 5 twisted-pair	100 m
<b>DES-6011</b>	Redundant power supply			

## DES-6300 7-Slot Layer 3 Chassis



This IP Routing Chassis Switch provides 7 slots with 6 slots available for installation of optional port modules.

The chassis comes standard with a management module and a single internal universal power supply. For redundant power backup, you can install another power supply unit in the chassis.

- Business/enterprise connection with Ethernet & Gigabit port module support
- Redundant power backup
- Up to 96 10/100BASE-TX Ethernet ports
- Up to 72 fiber Fast Ethernet ports
- Up to 12 Gigabit ports

### Optional Modules *For DES-6300 Chassis Switch*

Port Module	Port	Connector	Cable Type	Max. Cable Distance
<b>DES-6303</b>	16 10/100BASE-TX ports	RJ-45	Cat. 3, 4, 5 twisted-pair	100 m
<b>DES-6304</b>	12 100BASE-FX ports	MT-RJ	Multi-mode fiber	2 km
<b>DES-6305</b>	8 100BASE-FX ports	SC	Multi-mode fiber	2 km
<b>DES-6306</b>	2 1000BASE-SX ports	SC	Multi-mode fiber	550 m
<b>DES-6307</b>	2 1000BASE-LX ports	SC	Single-mode fiber	10 km
<b>DES-6308</b>	2 10/100/1000BASE-T ports	RJ-45	Cat. 5 twisted-pair	100 m
<b>DES-6309</b>	2 GBIC	-	Fiber	-
<b>DES-6310</b>	Redundant power supply			

## DES-6500 9-Slot Layer 3 Chassis

### Single IP Management



This IP Routing Chassis Switch provides 9 slots with 8 slots available for installation of optional port modules.

The chassis comes standard with a management module and a single internal universal power supply. For redundant power backup, you can install another power supply unit in the chassis.

- Business/enterprise connection with Ethernet & Gigabit port module support
- Redundant power backup
- 160Gbps high performance switch fabric
- Up to 192 10/100BASE-TX Ethernet ports
- Up to 96 fiber Fast Ethernet ports
- Up to 96 Gigabit ports
- Single IP Management support

### Optional Modules *For DES-6500 Chassis Switch*

Port Module	Port	Connector	Cable Type	Max. Cable Distance
DES-6504	12 100BASE-FX ports	SFF (LC type)	Multi-mode fiber	2 km
DES-6505	8 100BASE-SX ports	SC	Multi-mode fiber	550 m
DES-6507	12 10/100/1000BASE-T ports, 2 Combo SFP *	RJ-45 -	Cat. 5 twisted-pair Fiber	100 m -
DES-6508	16 10/100BASE-TX ports	RJ-45	Cat. 3, 4, 5 twisted-pair	100 m
DES-6509	12 SFP	-	Fiber	-
DES-6510	24 10/100BASE-TX ports	RJ-21	Cat. 3, 4, 5 twisted-pair	100 m
DES-6511	Redundant power supply			
DES-6506	Patch panel for RJ-21 ports			

## DES-7310 10-Slot Layer 3 Chassis

### Single IP Management



This Chassis Switch provides 10 slots. The first 2 slots are for installation of management modules. The remaining 8 slots can be equipped with optional port modules.

The chassis comes standard with a single management module and a single universal power supply. For redundant management and redundant power backup, you can install another management module and power supply unit for the chassis.

- Business/enterprise connection with Ethernet, Gigabit & 10GE port module support
- Fault tolerance with redundant management & power backup
- Up to 384 Ethernet ports, 384 copper Gigabit ports, 128 SFP, 32 10GE ports
- Powerful 320Gbps switch fabric, 571Mpps packet forwarding rate
- Redundant power backup, redundant management backup
- Single IP Management support

### Optional Modules *For DES-7310 Chassis Switch*

Port Module	Port	Connector	Cable Type	Max. Cable Distance
DES-7312	48 10/100BASE-TX ports	RJ-45	Cat. 3, 4, 5 twisted-pair	100 m
DES-7313	24 10/100/1000BASE-T ports, 16 Combo SFP *	RJ-45 -	Cat. 3, 4, 5 twisted-pair Fiber	100 m -
DES-7314	2 XFP	-	Fiber	-
DES-7318	48 10/100/1000BASE-T ports	RJ-45	Cat. 3, 4, 5 twisted-pair	100 m
DES-7319	4 XFP	-	Fiber	-
DES-7311	Redundant power supply			

Optional Module & Switch Compatibility

Use This Chart to Find Out Which Modules Can Be Used With Your Switch

Module	Switch	DES-1016R+ DES-1024R+	DES-1210F DES-1224F	DES-1213R DES-1226R (A1)	DES-1218R DES-1226R (B1)	DES-3226	DES-3226S	DES-3326SR	DES-3326S	DES-3210 DES-3218	DHS-2210 DHS-2218 DHS-2226	DHS-3210 DHS-3218 DHS-3226	DHS-3224V	DHS-3224VC	DEV-3214	EDS-2618 EDS-2626
DES-102F (100BASE-FX, SC, 2km)		•														•
DES-122F (100BASE-FX, SC, 2km)			•								•					
DES-132G (1000BASE-SX)				•	•	•	•	•	•			•				
DES-132GL (1000BASE-LX)				•	•	•	•	•	•			•				
DES-132GB (GBIC)				•	•	•	•	•	•			•		•	•	
DES-132T (1000BASE-T)				•	•	•	•	•	•	•		•			•	
DES-132 (100BASE-TX)					•	•	•		•	•		•		•	•	
DES-131F (100BASE-FX, SC 2km) - A1				•											•	
DES-131F (100BASE-FX, SC 2km) - A2					•	•	•	•	•			•			•	
DES-132F (100BASE-FX, SC 2km) - A1				•											•	
DES-132F (100BASE-FX, SC 2km) - A2					•	•	•	•	•			•			•	
DES-131FL (100BASE-FX, SC 15km) - A1				•											•	
DES-131FL (100BASE-FX, SC 15km) - A2					•	•	•	•	•	•		•			•	
DES-132FL (100BASE-FX, SC 15km) - A1				•											•	
DES-132FL (100BASE-FX, SC 15km) - A2					•	•	•	•	•			•			•	
DES-3326S (1 GBIC, 1 stacking port)						•	•	•	•							
DES-322T (1000BASE-T)					•							•				
DHS-321FX (100BASE-FX, SC 2km)													•			
DHS-321FL (100BASE-FX, SC 15km)													•			
DHS-321TX (100BASE-TX)														•		
DHS-321GL (1000BASE-LX)																
DHS-321G (1000BASE-SX)																
DEM-220T (100BASE-TX)											•					•
DEM-320GH (GBIC)						•	•	•	•	•		•		•	•	
DEM-320S (1000BASE-SX)						•	•	•	•	•		•			•	
DEM-320L (1000BASE-LX)						•	•	•	•	•		•			•	
DEM-320GS (1 GBIC, 1 stacking port)						•	•	•	•							

GBIC/SFP Transceiver & Switch Compatibility

Use This Chart to Find Out Which Transceiver Can Be Used With Your Switch

Transceiver	DGS-701	DGS-702	DGS-703	DGS-704	DGS-707	DGS-708	DGS-711	DEM-3106N2	DEM-3106T	DEM-3116T	DEM-3126T2	DEM-3146T	DEM-3156T
Transceiver Type	GBIC	GBIC	GBIC	GBIC	GBIC	GBIC	GBIC	GBIC	SFP	SFP	SFP	SFP	SFP
Standard	1000BASE-SX	1000BASE-LX	1000BASE-LX	1000BASE-LHX	1000BASE-SX	1000BASE-ZX	1000BASE-T	1000BASE-LX	1000BASE-LX	1000BASE-SX	1000BASE-LX	1000BASE-LHX	1000BASE-ZX
Supplied Voltage (V)	3.3V/5V	3.3V/5V	3.3V/5V	3.3V/5V	3.3V/5V	3.3V/5V	3.3V/5V	3.3V/5V	3.3V	3.3V	3.3V	3.3V	3.3V
Max. Transmission Distance/Fiber Type	275m/62.5um 550m/50um	10km/9um	10km/9um	40km/9um	275m/62.5um 550m/50um	70km/9um	100m/Cat. 5	2km/62.5um 2km/50um	10km/9um	275m/62.5um 550m/50um	2km/62.5um 2km/50um	40km/9um	70km/9um
DES-1218R	•	•	•	•	•	•	•						
DES-1226R	•	•	•	•	•	•	•						
DES-3226	•	•	•	•	•	•	•	•					
DES-3226S	•	•	•	•	•	•	•	•					
DES-3326	•	•	•	•	•	•	•	•					
DES-3326S	•	•	•	•	•	•	•	•					
DES-3326SR	•	•	•	•	•	•	•	•					
DES-3250TG									•	•	•	•	•
DES-3350SR									•	•	•	•	•
DGS-1016T									•	•	•	•	•
DGS-1024T									•	•	•	•	•
DGS-1024TG	•	•	•	•	•	•	•	•					
DGS-1216T									•	•	•	•	•
DGS-1224T									•	•	•	•	•
DGS-3212SR									•	•	•	•	•
DGS-3312SR									•	•	•	•	•
DGS-3224TG	•	•	•	•	•	•	•						
DGS-3224TGR									•	•	•	•	•
DGS-3308TG/FG	•	•	•	•	•	•	•	•					
DGS-3324SR									•	•	•	•	•
DGS-3324SRi										•	•	•	•
DHS-3224V	•	•	•	•	•	•	•	•					
DHS-3210/18/26	•	•	•	•	•	•	•	•					
DES-6300	•	•	•	•	•	•	•	•					
DES-7000	•	•	•	•	•	•	•						

## Redundant Power Supply

### For Ethernet & Gigabit Ethernet Switches

D-Link Redundant Power Supply devices are designed for use with D-Link Ethernet and Gigabit Ethernet switches. Each power supply connects to a switch to provide redundant backup power to the built-in power supply units inside the switch. The Redundant Power Supply can operate as stand-alone redundant power supply units, and can also be installed in a chassis. The chassis is an 8-slot standard rack-mount size housing designed to accommodate up to 8 units of Redundant Power Supply. Using a chassis, you can deploy up to 8

redundant power supply units in a standard equipment rack to support a stack of 8 stackable D-Link switches mounted in the same rack.

All power supply units come with their own solid metal case housing and LED status indicators. As they are independent units, they are hot-swappable when used with the chassis.

#### DPS-200 Redundant Power Supply



This Redundant Power Supply provides up to 60 watts output power for redundant power backup of a D-Link stackable switch.

#### DPS-300 Redundant Power Supply



This Redundant Power Supply provides up to 90 watts output power for redundant power backup of a D-Link stackable switch.

#### DPS-500 Redundant Power Supply



This Redundant Power Supply provides up to 140 watts output power for redundant power backup of a D-Link stackable switch.

#### DPS-800 2-Slot Chassis



This Chassis allows 2 DPS-200, DPS-300 or DPS-500 Redundant Power Supply units to be deployed in a 19-inch standard equipment rack. The chassis comes with no power supply of its own. All redundant power supply units installed in this chassis will connect directly to their AC power source.

#### DPS-900 8-Slot Chassis



This Chassis allows 8 DPS-200, DPS-300 or DPS-500 Redundant Power Supply units to be deployed in a 19-inch standard equipment rack. The DPS-900 is especially designed for use with a stack of 8 stackable switches installed in an equipment rack. Using this chassis, you can save space, while your cabling will look neat. The chassis comes with no power supply of its own. All redundant power supply units installed in this chassis will connect directly to their AC power source.

## DPS-1000 8-Slot Chassis



This Chassis allows up to 8 DPS-1001 DC Power Slide-in Modules to be installed inside it. With 8 DC Power Modules, redundant power supply can be provided for 8 D-Link stackable switches. This Chassis can be deployed in a 19-inch standard equipment rack. The Chassis is especially designed for use with a stack of 8 stackable switches installed in an equipment rack. Using this chassis, you can save space, while your cabling will look neat. This Chassis provides diagnostic LEDs and audible alarm to alert you of any failure in the Chassis or in the DC Power Slide-in Modules.

This Chassis comes with 1 DPS-1001 DC Power Slide-in Module pre-installed inside.

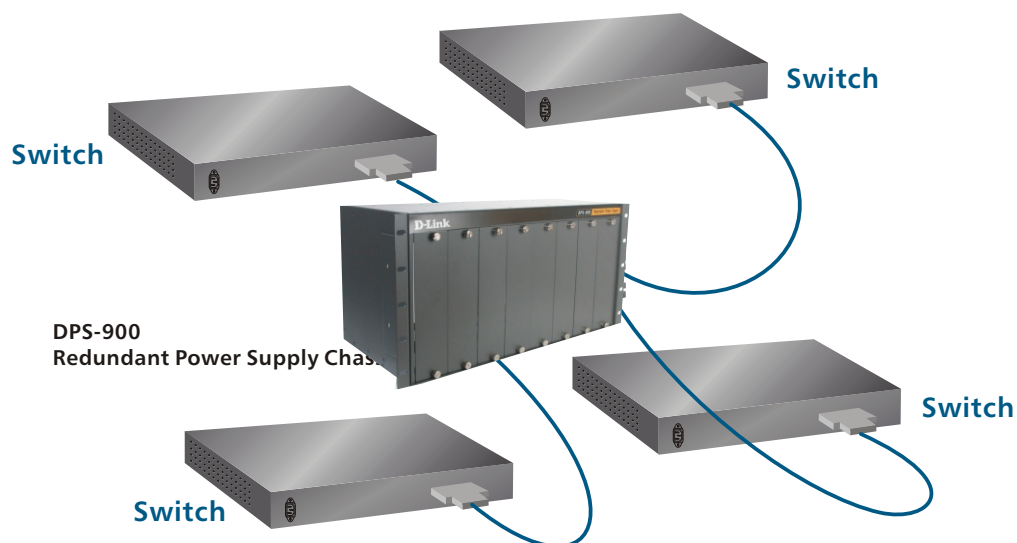
## DPS-1001 DC Power Side-in Module



This DC Power Slide-in Module provides DC output 21 A 3.3V, 0.8A 12V. Up to 8 of this module can be installed inside a DPS-1000 Chassis.

## Redundant Power Supply & Switch Compatibility

RPS \ Switch	DES-3212SR	DES-3312SR	DES-3326SR	DES-3350SR	DES-3526	DES-3550	DGS-3224TGR	xStack
DPS-200 (60 watts)	•	•	•	•	•	•	-	-
DPS-300 (90 watts)	-	-	-	-	-	-	•	-
DPS-500 (140 watts)	-	-	-	-	-	-	-	•



## Using Redundant Power Supply With D-Link Switches

A single DPS-900 can provide redundant power supply to 8 LAN switches



## KVM Switches

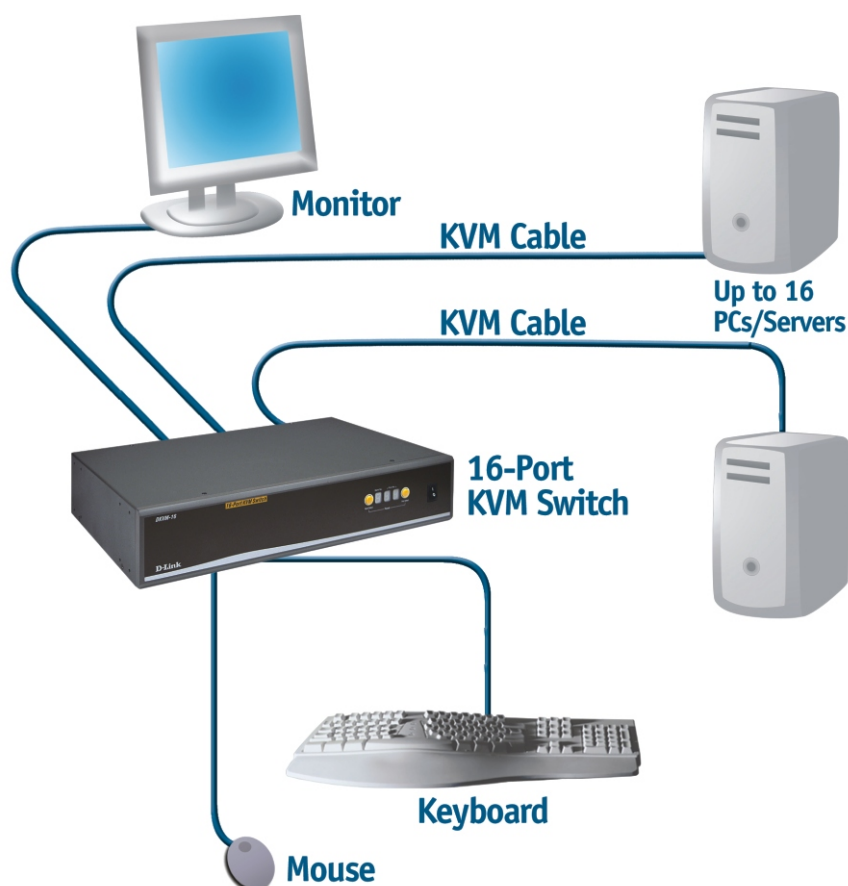
### *Controlling Multiple Servers/PCs Using Single Keyboard, Monitor, Mouse*

*The Keyboard, Video, Mouse (KVM) switches let you take instant control of two, three, four or more desktop and notebook purchase. Ready to run right out of the box without any software or extra hardware, these KVM switches let you connect several PCs to a single keyboard, monitor and mouse. You plug all the PCs to a KVM switch, then from a single keyboard and mouse on your desk, you can switch back and forth among the PCs with a simple push of a button. It's a very cost-effective way to control multiple PCs running different software to do different tasks.*

*If you feel uncomfortable using the small keyboard and screen of your notebook PC, the KVM switch can provide a solution. You plug your notebook to a KVM switch, then, with the press of a button, switch back and*

*forth between your desktop PC and your notebook. You can work on your desktop PC and have it act also as a console to control your notebook. It's plug and play. No cable or peripheral swapping is needed, so you don't have to unplug your desktop's full-sized keyboard and monitor; then plug them again to your notebook every time you want to use them.*

*From a KVM switch, you can also create a console to control a fleet of file servers in a computer room. To create this console, all you need to equip yourself is a monitor, a keyboard and a mouse. The servers don't need to have any monitors, keyboards or mice. With the ability to daisy-chain multiple KVM switches together, you can switch back and forth to work among literally hundreds of file servers, using just a single monitor, keyboard and mouse.*



## DKVM-2K 2-Port KVM Switch



This KVM Switch allows control of 2 different server/PCs, using one set of keyboard, monitor and mouse. This KVM switch features hotkey, auto-scan and audible signaling.

- 2 KVM ports
- "Select" push button or keyboard "hotkey" to select between PCs
- 2 sets of 1.8 m KVM cables attached to KVM switch
- Direct power input from connected PCs, no external power adapter required.

## DKVM-4K 4-Port KVM Switch



This KVM Switch allows control of 4 different server/PCs, using one set of keyboard, monitor and mouse. This KVM switch features hotkey, auto-scan and audible signaling.

- 4 KVM ports
- "Select" push button or keyboard "hotkey" to select between PCs
- 2 sets of 1.8m KVM cables provided
- Direct power input from connected PCs, no external power adapter required.

## DKVM-2KU 2-Port KVM Switch

*With Attached KVM/USB Cables & USB Port*



This KVM Switch allows control of 2 different server/PCs, using one set of keyboard, monitor and mouse. It also includes a high-speed USB 2.0 port to allow you share a USB printer, hard drive or another USB device between the connected PCs. This KVM switch features hotkey, auto-scan and audible signaling.

- 2 KVM ports
- 1 USB 2.0 port
- "Select" push button or keyboard "hotkey" to select between PCs
- 2 sets of 1.8 m KVM/USB cables attached to KVM switch
- Direct power input from connected PCs, no external power adapter required.

## DKVM-8E 8-Port KVM Stackable Switch



This standard equipment rack-mountable KVM Stackable Switch allows control of 8 different server/PCs, using one set of keyboard, monitor and mouse. It can be stacked up to 8 units to provide 64 KVM ports. In addition, this 8-port KVM switch can also be stacked with DKVM-16 16-port KVM switches, providing you with flexible, scalable expansion. This KVM switch features hotkey, auto-scan and audible signaling.

- 8 KVM ports
- Stackable to 8 units per stack
- Stackable with 16-port DKVM-16 switches
- " Select" push button or keyboard "hotkey" to select between PCs
- 2 sets of 1.8 m KVM cable provided
- 1 set of 1 m KVM stacking cable provided
- External power adapter provided for stable power supply
- 4 serial to PS/2 mouse converters provided to allow you to use new mice with server/PC's serial interfaces

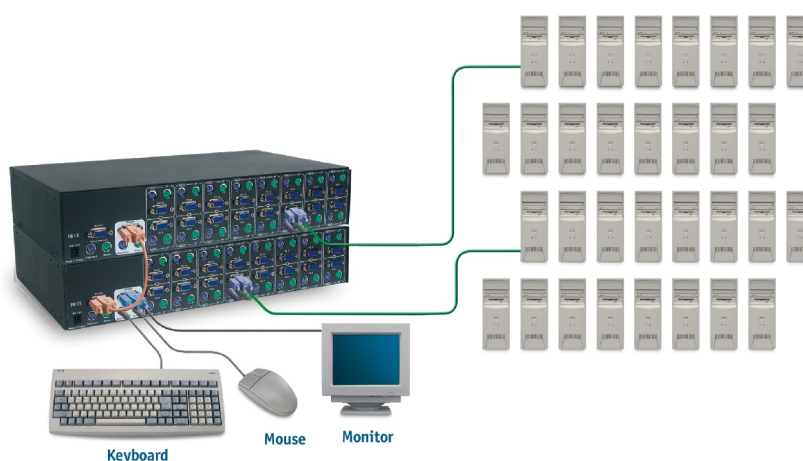
## DKVM-16 16-Port KVM Stackable Switch



This standard equipment rack-mountable KVM Stackable Switch provides fast access to 128 computers through a single console. It's a high-port density switch that allows you to control 16 different server/PCs, using one set of keyboard, monitor and mouse. The KVM switch is equipped with a dedicated microprocessor to intelligently port traffic and enable simultaneous boot-up of all connected computers.

This KVM switch can be stacked up to 8 units to provide 128 KVM ports. In addition, this 16-port KVM switch can also be stacked with DKVM-8E 8-port KVM switches, providing you with flexible, scalable expansion. The KVM switch features hotkey, auto-scan and audible signaling.

- 16 KVM ports
- Stackable to 8 units per stack
- Stackable with 8-port DKVM-8 switches
- "Select" push button or keyboard "hotkey" to select between PCs
- 2 sets of 1.8 m KVM cable provided
- 1 set of 1 m KVM stacking cable provided
- External power adapter provided for stable power supply
- 2 serial to PS/2 mouse converters provided to allow you to use new mice with server/PC's serial interfaces
- 2 AT to PS/2 keyboard converters provided to allow you to use new keyboards with server/PC's AT interfaces



## KVM Cables



	DKVM-CB	DKVM-CB3
Length	1.8 m	3 m
Connector type	6-pin mini-DIN keyboard connector, 6-pin mini-DIN mouse connector, 15-pin HD DB monitor connector	6-pin mini-DIN keyboard connector, 6-pin mini-DIN mouse connector, 15-pin HD DB monitor connector

## Chassis-Based Media Converters

D-Link Media Converters convert signals capable of transmission on one type of cable to signals capable of transmission on another type of cable. This allows you to connect longer distance fiber cables between devices that are designed only for shorter distance cables, such as the Cat. 5 twisted-pair cable.

D-Link offers a line of chassis-based media converters, which include a number of independent media converters and a chassis capable of housing up to 16 media converters. You can start with single media converters, each equipped with its own housing and AC power adapter. When your requirements expand, you can mount a chassis in your equipment rack and install your media converters in the chassis.

This chassis provides for space saving, and the cabling will look neat. The chassis comes with its own universal AC to DC power supply. For maximum power availability, an optional redundant power supply is available for installation in chassis.

All D-Link media converters are housed in solid metal cases, complete with LED status indicators and AC to DC power adapters. They can be used as stand-alone converters, or installed in the chassis. In case you install them in the chassis, you will remove their metal cases and slide in their PC boards into the chassis slots. The chassis's power supply will be used instead of the media converters' own AC to DC power adapters. All D-Link media converters are hot swappable when used with the chassis.

A management option is available for installation in the chassis with. The management module lets you monitor in real-time the status of all media converters and power supplies in the chassis, it also sends out alarms to alert you of all abnormal situations. Management follows industry standards, including SNMP and http, allowing you to monitor and manage from a third-party SNMP management workstation or via a web browser.

### DMC-300M TX-to-Fiber Ethernet Media Converter

*Supports 2 km Multi-Mode Fiber*



This Media Converter converts 10/100BASE-TX Ethernet twisted-pair signals to 100BASE-FX Fast Ethernet multi-mode fiber signals. Maximum fiber cable distance is 2 km.

- RJ-45 twisted-pair port
- MT-RJ fiber port
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI/MDIX for twisted-pair port
- Slide switch to configure fixed half/full duplex mode
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- External power adapter provided

### DMC-300SC TX-to-Fiber Ethernet Media Converter

*Supports 2 km Multi-Mode Fiber*



This Media Converter converts 10/100BASE-TX Ethernet twisted-pair signals to 100BASE-FX Fast Ethernet multi-mode fiber signals. Maximum fiber cable distance is 2 km.

- RJ-45 twisted-pair port
- SC fiber port
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI/MDIX for twisted-pair port
- Slide switch to configure fixed half/full duplex mode
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- External power adapter provided

## **DMC-515SC TX-to-Fiber Ethernet Media Converter** | *Supports 15km Single-Mode Fiber*



This Media Converter converts 10/100BASE-TX Ethernet twisted-pair signals to 100BASE-FX Fast Ethernet single-mode fiber signals. Maximum fiber cable distance is 15 km.

- RJ-45 twisted-pair port
- SC fiber port
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI/MDIX for twisted-pair port
- Slide switch to configure fixed half/full duplex mode
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- External power adapter provided

## **DMC-530SC TX-to-Fiber Ethernet Media Converter** | *Supports 30km Single-Mode Fiber*



This Media Converter converts 10/100BASE-TX Ethernet twisted-pair signals to 100BASE-FX Fast Ethernet single-mode fiber signals. Maximum fiber cable distance is 30 km.

- RJ-45 twisted-pair port
- SC fiber port
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI/MDIX for twisted-pair port
- Slide switch to configure fixed half/full duplex mode
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- External power adapter provided

## **DMC-560SC TX-to-Fiber Ethernet Media Converter** | *Supports 60km Single-Mode Fiber*



This Media Converter converts 10/100BASE-TX Ethernet twisted-pair signals to 100BASE-FX Fast Ethernet single-mode fiber signals. Maximum fiber cable distance is 15 km.

- RJ-45 twisted-pair port
- SC fiber port
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI/MDIX for twisted-pair port
- Slide switch to configure fixed half/full duplex mode
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- External power adapter provided

## **DMC-615SC Fiber-to-Fiber Ethernet Media Converter** | *Supports 15 km Single-Mode Fiber*



This Media Converter converts 100BASE-FX Fast Ethernet multi-mode fiber signals to 100BASE-FX Fast Ethernet single-mode fiber signals. Maximum fiber cable distance is 15 km.

- SC fiber ports
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- External power adapter provided

## **DMC-700SC TX-to-Fiber Gigabit Media Converter** | *Supports 550m Multi-Mode Fiber*



This Media Converter converts 1000BASE-T Gigabit twisted-pair signals to 1000BASE-SX Gigabit multi-mode fiber signals. Maximum fiber cable distance is 550 m.

- RJ-45 twisted-pair port
- SC fiber port
- Auto MDI/MDIX for twisted-pair port
- Store-and-forward mechanism
- 802.3x Flow Control
- Link pass-through function
- External power adapter provided

## DMC-805G TX-to-Fiber Gigabit Media Converter

*SFP for Flexible 550m Multi-Mode & 20km Single-Mode Fiber Support*



This Media Converter converts 1000BASE-T twisted-pair signals to 1000BASE-SX/LX Gigabit multi-mode/single-mode fiber signals. Maximum fiber cable distance is 550 m for 1000BASE-SX \* and 20 km for 1000BASE-LX. 1 RJ-45 twisted-pair port and 1 SFP (mini GBIC) are provided.

- RJ-45 twisted-pair port
- SFP for flexible fiber transceiver installation
- Auto MDI/MDIX for twisted-pair port
- Store-and-forward mechanism
- 802.3x Flow Control
- Link pass-through function
- External power adapter provided

\* Maximum fiber cable distance support for 1000BASE-SX is as follows:

- For 62.5/125 micron multi-mode fiber cable: up to 220 m
- For 50/125-micron multi-mode fiber cable: up to 550 m

## DMC-810SC TX-to-Fiber Gigabit Media Converter

*Supports 10km Single-Mode Fiber*

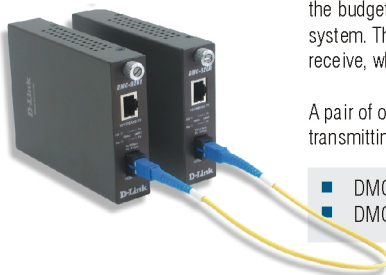


This Media Converter converts 1000BASE-T Gigabit twisted-pair signals to 1000BASE-LX Gigabit single-mode fiber signals. Maximum fiber cable distance is 10 km.

- RJ-45 twisted-pair port
- SC fiber port
- Auto MDI/MDIX for twisted-pair port
- Store-and-forward mechanism
- 802.3x Flow Control
- Link pass-through function
- External power adapter provided

## DMC-920 TX-to-Fiber Ethernet Media Converter

*Supports 20km Single-Mode Fiber*



This Media Converter combines transmit and receive signals onto one fiber strand using two wavelengths. This design avoids the budget losses incurred by the single-wavelength single-fiber technology, and minimizes the possibility of reflections in the system. The units on both ends of a link are different. One module uses one wavelength to transmit and a second wavelength to receive, while the other module flips that relationship. For this reason these units are used in pairs.

A pair of one-channel single fiber is used for media conversion between 10/100BASE-TX and 100BASE-FX. Two different transmitting wavelengths, one wavelength with bi-directional for both transmit and receive.

- DMC-920R: This media converter provides 1310 micron for TX, 1550 micron for RX.
- DMC-920T: This media converter provides 1550 micron for TX, 1310 micron for RX.

Fiber cable support is 9/125um, 10/125um single-mode fiber, maximum 20 km cable distance.

- RJ-45 twisted-pair ports
- SC fiber ports
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI/MDIX for twisted-pair port
- Slide switch to configure fixed half/full duplex mode
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- External power adapter provided

## DMC-1530SC TX-to-Fiber Ethernet Media Converter

*Supports 30km Single-Mode Fiber*



This Media Converter provides intelligent functions like LLCf, LLR, store-and-forward mechanism, back-pressure and 802.3x flow control. It converts 10/100BASE-TX twisted-pair signals to 100BASE-FX Fast Ethernet single-mode fiber signals. Maximum fiber cable distance is 30 km.

- RJ-45 twisted-pair port
- SC fiber port
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI/MDIX for twisted-pair port
- Slide switch to configure fixed half/full duplex mode
- Slide switch to set Forced mode or Auto-negotiation
- Slide switch to set speed
- Sliding switch to set LLCf, LLR function
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- Link pass-through function
- External power adapter provided



## DMC-1580SC TX-to-Fiber Ethernet Media Converter

*Supports 80km Single-Mode Fiber*



This Media Converter provides intelligent functions like LLCF, LLR, store-and-forward mechanism, back-pressure and 802.3x flow control. It converts 10/100BASE-TX twisted-pair signals to 100BASE-FX Fast Ethernet single-mode fiber signals. Maximum fiber cable distance is 80 km.

- RJ-45 twisted-pair port
- SC fiber port
- Auto negotiation of speeds and duplex modes on twisted-pair port
- Auto MDI/MDIX for twisted-pair port
- Slide switch to configure fixed half/full duplex mode
- Slide switch to set Forced mode or Auto-negotiation
- Slide switch to set speed
- Sliding switch to set LLCF, LLR function
- Store-and-forward mechanism
- Back-pressure & 802.3x Flow Control
- Link pass-through function
- External power adapter provided

## DMC-1000 Chassis



The Chassis lets you install multiple media converters in an equipment rack together with the network devices for which they provide media conversion. This provides for space saving, and the cabling will look neat. The chassis comes with its own universal AC to DC power supply. For maximum power availability, an optional redundant power supply is available for installation in the chassis.

- 16 bays to house up to 16 media converters
- Front panel LEDs for bay and fan power status
- Standard 19-inch rack-mountable with, 2U height
- Non-stop operation & minimal downtime
- Allows hot-swapping of media converters
- Hot swappable redundant power supplies
- Cooling fans on back side (together with power supplies)
- Power redundancy & power isolation
- 1 universal internal AC to DC power supply provided
- SNMP and web-based management capabilities (optional)
- Second AC to DC power supply for load-sharing purpose (optional)
- Media converter power isolation for electrical isolation from each bay

## DMC-1001 Redundant Power Supply



This Redundant Power Supply can be installed in the DMC-1000 Chassis to provide redundant power supply.

## DMC-1002 Management Module



This Management Module provides SNMP-based and web-based management of all media converter and power supply modules installed in the DMC-1000 chassis. It features a 32-bit, high performance RISC microprocessor executing a real-time operating system. It provides a 10/100BASE Ethernet port for network connection, allowing you to configure and monitor the system through an SNMP management station or from a PC running an Internet browser. An RS-232 port is also provided to let you connect to a console (PC) to set configuration.

The management module periodically polls all converters and power supplies in the chassis to collect information regarding status and configuration settings. It also receives traps for events such as module hot-swaps and power failures as soon as they occur, as well as warning traps, upon which alarms may be sounded out to alert you.

- SNMP and web-based standards
- 10/100BASE-TX Ethernet port & RS-232 console port
- Real-time display of link, speed, duplex status of media converters
- Menu-driven terminal program provided for management via console port or Telnet
- Built-in SNMP agent with MIB-II and enterprise MIBs
- Supported traps: cold start, warm start, authentication fail, power fail, fan fail, module insertion, module pullout, port link down and port link up
- Supports factory reset and remote software reboot
- Supports redundant backup of media converters
- Supports remote setting of configurations of Smart Media Converter modules, like LLCF enable, LLR enable, port enable, auto-negotiation enable
- Password protection against unauthorized access
- Configuration setting upload/download through TFTP and the web
- Firmware upgrade through TFTP and the web

## Gigabit Transceivers

### GBIC & SFP Transceivers

*D-Link provides a full line of Gigabit Transceivers for high-speed transmission over the fiber-optic cable media. These cover the industry-standard Gigabit Interface Converters (GBIC) and the Small Form Pluggable (SFP) transceivers, both designed for plug into the GBIC and SFP slots of the Gigabit devices.*

*The transceivers provide the necessary signal amplification for data to be transmitted to the network cable from the port, and vice versa, for the port to receive data from the network cable.*





*Applications of these transceivers include distributed multi-processing, Gigabit switch cascading, high-speed I/O file transfer, bus extension application, and channel extender/data storage.*

*All GBIC and SFP transceivers are hot swappable. You can remove or replace the GBIC transceiver with the system powered on. This permits modules and transceivers to be added or swapped without interrupting the network operation.*





#### Product Features

▪ Full duplex operation with 802.3x flow control	Fast network data transfer with minimum data packet loss.
▪ Multi-mode & single-mode fiber cable support	Full range of fiber cables support for different cable length requirements.
▪ Hot plug capability	Allows plug in and removal of transceiver without powering off device.
▪ Class 1 laser product complies with EN 60825-1	Safe for eye viewing.
▪ TTL signal detect indicator	Diagnostic LED to check for network activity
▪ Solid metal enclosure	Provides for lower electro-magnetic interference.





## GBIC Transceivers

	DGS-701	DGS-707	DEM-310GM2	DGS-702
				
<b>Cable</b>	Multi-mode fiber	Multi-mode fiber	Multi-mode fiber	Single-mode fiber
<b>Max. cable distance</b>	550 m	550 m	2 km	10 km
<b>Standard</b>	802.3z 1000BASE-SX	802.3z 1000BASE-SX	802.3z 1000BASE-SX	802.3z 1000BASE-LX
<b>Port type</b>	SC	SC	SC	SC
<b>Full Duplex 802.3x Flow control</b>	Yes	Yes	Yes	Yes
<b>Fiber type</b>	50um/125um Multi-mode	50um or 62.5um multi-mode	62.5um or 62.5um multi-mode	9 um single-mode
<b>Wave Length</b>	850 m	850 m	1310 nm	1310 nm
<b>Power support</b>	3.3V	3.3V	3.3V/5V	3.3V



## GBIC Transceivers

	DGS-703	DGS-704	DGS-708	DGS-711
				
<b>Cable</b>	Single-mode fiber	Single-mode fiber	Single-mode fiber	5 twisted-pair
<b>Max. cable distance</b>	10 km	30 km	70 km	100 m
<b>Standard</b>	802.3z 1000BASE-LX	802.3z 1000BASE-LX	802.3z 1000BASE-LX	802.3ab 1000BASE-T
<b>Port type</b>	SC	SC	SC	RJ-45
<b>Full Duplex 802.3x Flow control</b>	Yes	Yes	Yes	Yes
<b>Fiber type</b>	9 um single-mode	9 um single-mode	9 um single-mode	-
<b>Wave length</b>	1310 nm	1310 nm	1550 nm	-
<b>Power support</b>	3.3V	3.3V	3.3V and 5V	3.3V

## SFP Transceivers

	DEM-311GT	DEM-310GT	DEM-314GT	DEM-315GT
				
<b>Cable</b>	Multi-mode fiber	Single-mode fiber	Single-mode fiber	Single-mode fiber
<b>Max. cable distance</b>	550 m	10 km	50 km	80 km
<b>Standard</b>	802.3z 1000BASE-SX	802.3z 1000BASE-LX	802.3z 1000BASE-LX	802.3z 1000BASE-LX
<b>Port type</b>	LC	LC	LC	LC
<b>Full Duplex 802.3x Flow control</b>	Yes	Yes	Yes	Yes
<b>Fiber type</b>	50um or 62.5um multi-mode	9um single mode	9/125um single mode	9/125um single mode
<b>Wave Length</b>	850nm	1310nm	1310nm	1550nm
<b>Power support</b>	3.3V	3.3V	3.3V	3.3V

## Ethernet Transceivers

	DE-853	DFE-853
		
<b>Cable</b>	Cat. 3, 4 or 5 twisted-pair	Cat. 5 twisted-pair
<b>Max. cable distance</b>	50m AUI drop cable, 100 m twisted-pair	100 m
<b>Standards</b>	802.3 10BASE-5, 802.3 10BASE-T	802.3u 100BASE-TX
<b>Port Types</b>	AUI, RJ-45	MII, RJ-45
<b>Full Duplex 802.3x Flow control</b>	Yes	Yes
<b>"Heartbeat" SQE support</b>	Yes	-
<b>PHY address selectable by DIP switch</b>	-	Yes

## Ethernet Adapters

### For Workstations & Servers

*The Ethernet Adapter is the basic network equipment for today's computers. Many computers today have an Ethernet interface built into their motherboard for convenient connection to a network or to the broadband Internet through a DSL or cable modem.*

*More than just an interface to the network or broadband Internet, D-Link Ethernet Adapters are designed for the workstations and servers in a secure network environment. D-Link Ethernet adapters provide many software functions that make your computers an integrated part of a managed network - functions such as IP multicast address filter mechanism for configuration in L3 packet routing environment, Priority Queues Class of Service (CoS) for multimedia applications like video conference, VLAN for network security, 802.1x authentication for access security, SNMP support for configuration SNMP managed network and the Desktop Management Interface (DMI) driver.*

*Flow Control is the basic function provided in the full-duplex mode to minimize packet loss during network data transfer. The Wake-On-LAN power management allows your workstations to be powered ON or OFF from remote site by a network administration, and is useful for application in a secure network environment such as in a school or public library.*

*Remote boot ROMs are available for remote boot from boot servers. This function allows you to use D-Link Ethernet adapters in diskless workstations and configure them with network security.*

*D-Link Ethernet Server Adapters provide the necessary bandwidth for server deployment for fast access by workstations. These adapters provide multiple ports with port trunk supporting load balancing and backup links for mission critical applications with redundancy that maximizes network uptime.*

#### DFE-528TX Ethernet PCI Adapter



Compatible with  
Apple Mac OS X



This Ethernet PCI Adapter connects your desktop PC and Apple Mac to an Ethernet network. It plugs into a PCI slot inside your computer and provides a 10/100BASE-TX port supporting auto-sensing 10/100Mbps network speeds and full/half duplex data transfer.

- 32-bit Bus Master data transfer with PC host
- 802.3x Flow Control in full-duplex
- Low network command processing overhead
- Operates in Windows, NetWare, Unix, MacOS environments

#### DFE-530TX Ethernet PCI Adapter



This Ethernet PCI Adapter connects your desktop PC to an Ethernet network. It plugs into a PCI slot inside your PC and provides a 10/100BASE-TX port supporting auto-sensing 10/100Mbps network speeds and full/half duplex data transfer.

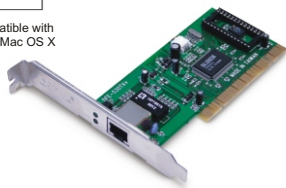
This adapter provides an on-board socket for installation of an optional boot ROM for remote boot from boot servers. This function allows you to install the adapter in a diskless workstation in a secure network environment.

- 32-bit Bus Master data transfer with PC host
- ACPI Wake-On-LAN power management
- 802.3x Flow Control in full-duplex
- 802.1x port-based authentication
- Low network command processing overhead
- Optional remote boot ROM support
- Operates in Windows, NetWare, IBM LAN, Sun PC-NFS, FTP PC/TCP, Linux environments

## DFE-530TX+ Ethernet PCI Adapter



Compatible with  
Apple Mac OS X



This Ethernet PCI Adapter connects your desktop PC to an Ethernet network. It plugs into a PCI slot inside your PC and provides a 10/100BASE-TX port supporting auto-sensing 10/100Mbps network speeds and full/half duplex data transfer.

This adapter provides an on-board socket for installation of an optional boot ROM for remote boot from boot servers. This function allows you to install the adapter in a diskless workstation in a secure network environment.

- 32-bit Bus Master data transfer with PC host
- ACPI Wake-On-LAN power management
- 802.3x Flow Control in full-duplex
- Low network command processing overhead
- Optional remote boot ROM support
- Operates in Windows, NetWare, Linux, MacOS environments
- Packet driver, NDIS driver included

## DFE-538TX Ethernet PCI Adapter

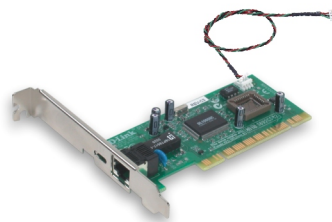


This Ethernet PCI Adapter connects your desktop PC to an Ethernet network. It plugs into a PCI slot inside your PC and provides a 10/100BASE-TX port supporting auto-sensing 10/100Mbps network speeds and full/half duplex data transfer.

This adapter provides an on-board socket for installation of an optional boot ROM for remote boot from boot servers. This function allows you to install the adapter in a diskless workstation in a secure network environment.

- 32-bit Bus Master data transfer with PC host
- ACPI Wake-On-LAN power management
- Low network command processing overhead
- Optional remote boot ROM support
- Operates in Windows, NetWare, IBM LAN, FTP PC/TCP, SCO Open, Linux environments

## DFE-550TX Advanced Ethernet PCI Adapter



This Advanced Ethernet PCI Adapter connects your desktop PC to an Ethernet network. It plugs into a PCI slot inside your PC and provides a 10/100BASE-TX port supporting auto-sensing 10/100Mbps network speeds and full/half duplex data transfer.

This adapter provides an on-board socket for installation of an optional boot ROM for remote boot from boot servers. This function allows you to install the adapter in a diskless workstation in a secure network environment.

- 32-bit Bus Master data transfer with PC host
- ACPI Wake-On-LAN power management
- 802.3x Flow Control in full-duplex
- IP multicast
- 802.1p Priority Queues
- 802.1Q VLAN Tagging
- SNMP support
- Desktop Management Interface (DMI) driver
- Low network command processing overhead
- Optional remote boot ROM support
- Operates in Windows, NetWare, IBM LAN, Sun PC-NFS, FTP PC/TCP, SCO OpenServer, NCSA, Linux environments

## DFE-550FX Fiber Ethernet PCI Adapter



This Ethernet PCI Adapter connects your desktop PC to an Ethernet network through a secure fiber cable. It plugs into a PCI slot inside your PC and provides a 100BASE-FX port supporting multi-mode fiber cable with maximum cable distance reaching 2 km.

This adapter can be used for applications needing electro magnetic isolation connection with extended cable distance support, such as connecting a remote management station to a switch at a telecom central office, or connecting a console to a diagnostic device at a hospital.

This adapter provides an on-board socket for installation of an optional boot ROM for remote boot from boot servers. This function allows you to install the adapter in a diskless workstation in a secure network environment.

- 32-bit Bus Master data transfer with PC host
- ACPI Wake-On-LAN power management
- 802.3x Flow Control in full-duplex
- IEEE 802.1Q VLAN support
- IEEE 802.1P priority tagging
- Optional remote boot ROM support
- Operates in Windows, NetWare, Linux environments



## DFE-580TX 4-Port Ethernet Server PCI Adapter *For Server*

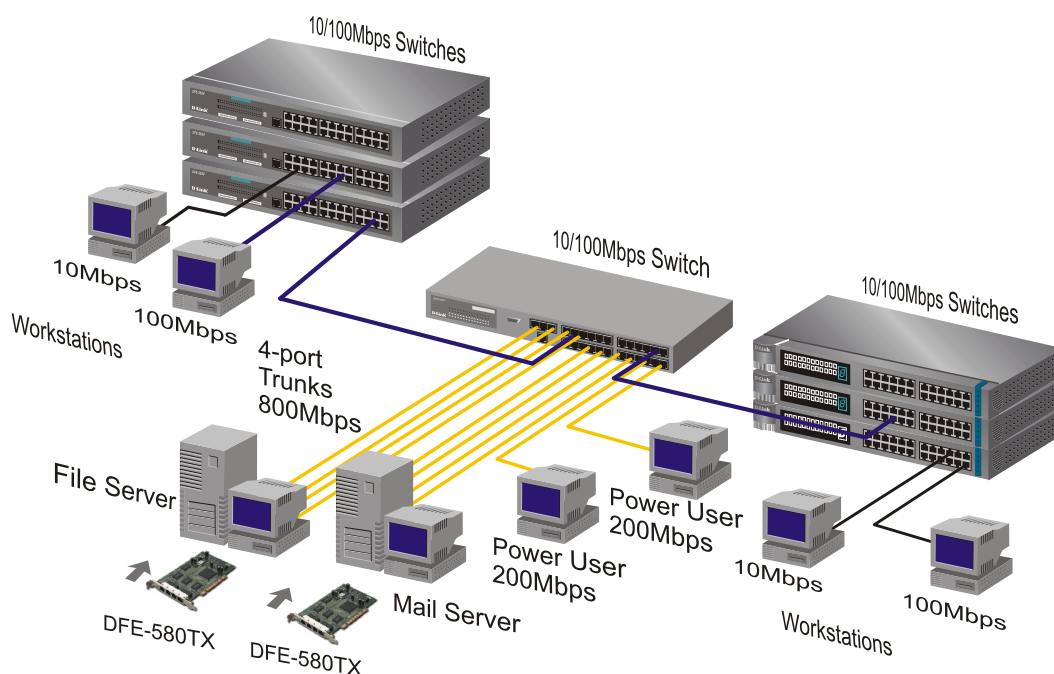


This Ethernet Server PCI Adapter provides 4 10/100BASE-TX ports for server connection. The 4 ports can directly connect your server to an Ethernet network switch.

When all 4 ports are connected to a network switch, an 800Mbps trunk (aggregate-bandwidth with 4 Fast Ethernet ports running at full duplex) is created for high-speed, simultaneous access by workstations.

You can configure all ports to be active (load-sharing mode) or some ports to act as backups (redundant links). Load sharing balances traffic among the active segments, while backup redundancy provides uninterrupted links between the server and the switch.

- 4 10/100Mbps ports with 4 independent MACs
- 800Mbps server-to-switch port trunk
- Per-port load-balance/fault-tolerance configuration
- Dynamic fail-over function for backup mode
- 32-bit Bus Master data transfer with PC host
- 802.3x Flow Control in full-duplex
- 802.1p Priority Queues to run as video server (video conference)
- Low network command processing overhead
- Operates in Windows, Linux environments



## Optional Remote Boot ROM

<b>DFE-534R3</b>	RPL boot ROM. For use with DFE-530TX Ethernet PCI adapter.
<b>DFE-538R</b>	RPL boot ROM. For use with DFE-530TX+ & DFE-538TX Ethernet PCI adapter.
<b>DFE-554</b>	RPL boot ROM. For use with DFE-550TX Ethernet PCI adapter.
<b>DFE-554C</b>	RPL boot ROM. For use with DFE-550TX (v.C3) Ethernet PCI adapter.
<b>DFE-554P</b>	PXE boot ROM. For use with DFE-550TX Ethernet PCI adapter.
<b>DFE-554CP</b>	PXE boot ROM. For use with DFE-550TX (v.C3) Ethernet PCI adapter.
<b>DFE-554FP</b>	PXE boot ROM. For use with DFE-550FX Ethernet PCI adapter.

## **DFE-670TXD** Ethernet PCMCIA Adapter



This Ethernet PCMCIA Adapter connects your notebook/laptop PC to an Ethernet network. It plugs into a 16-bit PCMCIA slot or a 32-bit CardBus slot of your PC and provides a 10/100BASE-TX port supporting auto-sensing 10/100Mbps network speeds and full/half duplex data transfer.

- 16-bit PCMCIA bus interface to PC host
- Low power consumption to conserve computer battery
- Operates in Windows, NetWare, NCSA, Linux environments

## **DFE-690TXD** Ethernet CardBus Adapter



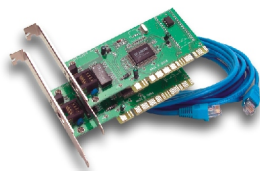
This high-performance Ethernet CardBus Adapter connects your notebook/laptop PC to an Ethernet network. It plugs into a 32-bit CardBus slot of most PCs today and provides a 10/100BASE-TX port supporting auto-sensing 10/100Mbps network speeds and full/half duplex data transfer.

- 32-bit CardBus interface to PC host
- Low power consumption to conserve computer battery
- Operates in Windows, NetWare, NCSA, Linux environments

## Network Kits

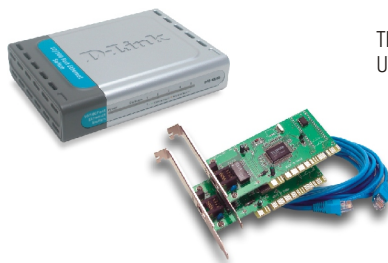
*D-Link Network Kits provide out-of-the-box ready network connection for a small group of users, complete with network adapters, Ethernet switch, driver software and connection cables.*

### **DFE-902** Ethernet Network Kit



This kit includes 2 DFE-528TX Ethernet PCI Adapters and 1 5-meter UTP cable.

### **DFE-910** Ethernet Network Kit



This kit includes 2 DFE-528TX Ethernet PCI Adapters, 1 DES-1005D 5-port 10/100Mbps Ethernet Switch, and 2 6-meter UTP cables.

## Gigabit Adapters

### For Workstations & Servers

*D-Link Gigabit Adapters bring 1000Mbps high-speed Gigabit network connection to the desktop PC. Supporting full-duplex, these adapters provide dedicated bandwidths for workstations and servers with 2000Mbps connection to Gigabit network switches. This high speed provides bottleneck-free paths multimedia applications from the desktop.*

*D-Link Copper Gigabit Adapters provide an inexpensive alternative solution to the fiber-optic. Using your existing low-cost Cat. 5 copper twisted-pair network cable as the transmission media, these adapters allow your PC to instantly upgrade to Gigabit capability without requiring*

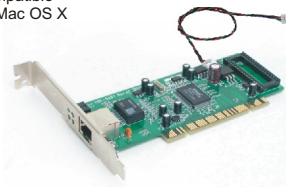
*you to install new, expensive fiber cables. Supporting auto-sensing 10/100/1000Mbps network speeds on the existing twisted-pair wires, these adapters make upgrade to Gigabit speed from Ethernet both easy and cost-effective.*

*Wake-On-LAN power management function is provided to allow your workstations to be powered ON or OFF from remote site by a network administration, and is useful for application in a secure network environment such as in a school or public library. VLAN is supported to allow you to configure your workstations and servers in a network segmented with virtual LAN security.*

#### DGE-528T Copper Gigabit PCI Adapter



Compatible  
With Mac OS X



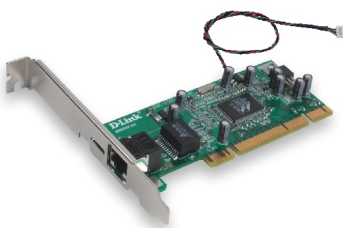
This Gigabit PCI Adapter delivers Gigabit speed to your desktop PC and Apple Mac over the Cat. 5 twisted-pair network cable. It plugs into a PCI slot inside your computer and provides a 10/100/1000BASE-T port supporting auto-sensing 10/100/1000Mbps network speeds with 2000Mbps Gigabit full-duplex data transfer.

- 32-bit Bus Master data transfer with PC host
- PCI 33/66MHz clock speed support
- ACPI Wake-On-LAN power management
- Very small size, very low power consumption
- 802.3x Flow Control in full-duplex
- 802.1Q VLAN Tagging
- Low network command processing overhead
- Operates in Windows, NetWare, Linux, MacOS environments

#### DGE-530T Copper Gigabit PCI Adapter



Ideal Departmental Solution  
February 2004



This Gigabit PCI Adapter delivers Gigabit speed to your desktop PC over the Cat. 5 twisted-pair network cable. It plugs into a PCI slot inside your PC and provides a 10/100/1000BASE-T port supporting auto-sensing 10/100/1000Mbps network speeds with 2000Mbps Gigabit full-duplex data transfer.

- 32-bit Bus Master data transfer with PC host
- PCI 33MHz clock speed support
- ACPI Wake-On-LAN power management
- Universal bus 3.3V & 5V support
- Very small size, very low power consumption
- 802.3x Flow Control in full-duplex
- 802.1Q VLAN Tagging
- Low network command processing overhead
- SNMP support
- Operates in Windows, NetWare, Unix, Linux environments

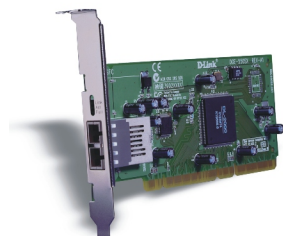
## DGE-550T Copper Gigabit PCI Adapter *For Server*



This high-performance Gigabit PCI Adapter is suitable for server deployment. It delivers Gigabit speed to your PC over the Cat. 5 twisted-pair network cable. It plugs into a PCI slot inside your PC and provides a 10/100/1000BASE-T port supporting auto-sensing 10/100/1000Mbps network speeds with 2000Mbps Gigabit full-duplex data transfer.

- 32/64-bit Bus Master data transfer with PC host
- PCI 33/66MHz clock speed support
- 802.3x Flow Control in full-duplex
- 802.1Q VLAN Tagging
- On-board IP header checksum task off-loading
- Operates in Windows, NetWare, Linux environments

## DGE-550SX Fiber Gigabit PCI Adapter *For Server*



This high-performance Fiber Gigabit PCI Adapter is suitable for server deployment. It serves well in a high electro-magnetic interference environment, and provides a reliable connection to a server over a multi-mode fiber cable supporting up to 550 meters' distance. It plugs into a PCI slot inside your server and provides a fiber port supporting 2000Mbps Gigabit full-duplex data transfer.

- 32/64-bit Bus Master data transfer with PC host
- PCI 33/66MHz clock speed support
- SC fiber optical connector, laser AEL Class 1 compliant, safe for eye viewing
- 802.3x Flow Control in full-duplex
- 802.1Q VLAN Tagging
- On-board IP header checksum task off-loading
- Jumbo frame support
- Operates in Windows, NetWare, Linux environments

## Ethernet/Gigabit Adapters *Windows 2003 Driver Support*

Model	Rev.	Win2003 Driver Provided	Driver Built Into Win2003 OS
DFE-528TX	E1	•	•
DFE-538TX	E1	•	•
DFE-530TX +	E1	•	•
DFE-530TX	C1	•	•
DFE-550TX	C3	•	•
DFE-580TX	A3	•	•
DFE-670TXD	A2	•	
DFE-690TXD	A2	•	
DGE-528T	A1	•	
DGE-530T	A1		
DGE-550T	A3/A4		
DGE-550SX	A3		



## Print Servers

### *Extensive Selection for Printer Sharing Over the Network*

*D-Link's extensive line of Print Servers allow you to select the right device to cost-effectively share your printers over the network. You can now share your USB or parallel printers with a group of users at home or in the office over a wired Ethernet network or a wireless network. Supporting multiple network operating systems, including Windows, MacOS, Linux, Unix and NetWare, D-Link print servers bring a high level of flexibility and performance to your network printing needs.*

*D-Link's line of print server products includes single-port and multi-port print servers. The Single-Port Print Servers are ideal for both the large office and the small workgroup. For homes and SOHO with just one printer to share, they offer a single port and save you the cost. For the large office with many computer users and several printers scattered at different places, you can plug one print server to each of these printers to share them on the network.*

*The Multi-Port Print Servers make available three printer ports from a single device, so you don't need to purchase and install a separate print server for each printer that you want to share. These multi-port print servers slightly more expensive than the single-port print servers, but where your printers are closely placed together, it makes sense to buy a single print server instead of three. Each of your printers to be shared is connected to a port of the print server through a printer cable.*

*Equipped with powerful CPUs and large buffer memory, these multi-port print servers make printing of your network files fast. All printers attached to these multi-port devices can print their print jobs at the same time, giving your multi-port print server a similar performance as that of three separate single-port print servers.*

*All D-Link parallel print servers support bi-directional printer communication HP PJP protocol. This protocol support allows the print server to collect and report information/status of attached printers to provide you with critical information about the network printer.*

#### **DP-301P+** Single-Port Parallel Print Server



This Single-Port Print Server provides a parallel port to share your parallel printer with a group of users at home or in the office over an Ethernet network. Supporting multiple network operating systems, this device brings a high level of flexibility and performance to your printing needs.

- 1 parallel printer port
- 10/100BASE-TX Ethernet network port
- Windows-based administrative program for setup/management of print jobs
- SNMP MIB support
- Operates in Windows, Apple MacOS, Unix environments

## DP-301U Single-Port USB Print Server



This Single-Port Print Server provides a USB port to share your USB printer with a group of users at home or in the office over an Ethernet network. Supporting multiple network operating systems, this device brings a high level of flexibility and performance to your printing needs.

- 1 USB 1.1 printer port
- 10/100BASE-TX Ethernet network port
- Windows-based administrative program for setup/management of print jobs
- Web-based configuration, SNMP MIB support
- Operates in Windows, Apple MacOS, Linux, Unix, NetWare (Native NDS) environments

## DP-311U Single-Port USB Wireless Print Server *With 802.11b Wireless LAN*



This Single-Port Wireless Print Server provides a USB port to share your USB printer with a group of users at home or in the office over an Ethernet and a wireless network. Supporting multiple network operating systems, this device brings a high level of flexibility and performance to your printing needs.

- 1 USB 1.1 printer port
- Built-in 802.11b wireless LAN
- 10/100BASE-TX Ethernet network port
- Windows-based administrative program for setup/management of print jobs
- Web-based configuration, SNMP MIB support
- Operates in Windows, Apple MacOS, Linux, Unix, NetWare (Native NDS) environments

## DP-311P Single-Port Parallel Wireless Print Server *With 802.11b Wireless LAN*



This Single-Port Wireless Print Server provides a parallel port to share your parallel printer with a group of users at home or in the office over a wireless network. Supporting multiple network operating systems, this device brings a high level of flexibility and performance to your printing needs.

- 1 parallel printer port
- Built-in 802.11b wireless LAN
- Windows-based administrative program for setup/management of print jobs
- Web-based configuration, SNMP MIB support
- Operates in Windows, Apple MacOS, Linux, Unix, NetWare (Native NDS) environments
- Directly connects to printer's parallel port, no printer cable required

## DP-G310 Single-Port USB Wireless Print Server *With 802.11g Wireless LAN*



This Single-Port Wireless Print Server provides a high-speed USB 2.0 port to share your USB printer with a group of users at home or in the office over an Ethernet and a wireless network. The built-in Wireless LAN interface supports high speed of up to 54Mbps for wireless LAN users. Supporting multiple network operating systems, this device brings a high level of flexibility and performance to your printing needs.

- High-speed USB 2.0 printer port
- High-speed 802.11g wireless LAN
- 10/100BASE-TX Ethernet network port
- Windows-based administrative program for setup/management of print jobs
- Web-based configuration, SNMP MIB support
- Operates in Windows, Apple MacOS, Linux, Unix environments



## **DP-300U 3-Port Print Server**



### *With 1 USB & 2 Parallel Printer Ports*

This Multi-Port Print Server is designed to share a cluster of printers located at a central site such as a data center or a computer room. It is equipped with 1 USB port and 2 parallel printer ports, allowing 1 USB printer and 2 parallel printers to be shared over the network. Supporting multiple network operating systems, this device brings a high level of flexibility and performance to your office printing needs.

- 1 USB 1.1 printer port & 2 parallel printer ports
- 10/100BASE-TX Ethernet network port
- Windows-based administrative program for setup/management of print jobs
- Bi-directional communication support
- Web-based configuration, SNMP MIB support
- Operates in Windows, Apple MacOS, Linux, Unix, NetWare (Native NDS) environments

## **DP-300+ 3-Port Print Server**



### *With 1 Serial & 2 Parallel Printer Ports*

This Multi-Port Print Server is designed to share a cluster of printers located at a central site such as a data center or a computer room. It is equipped with 1 serial printer port and 2 parallel printer ports, allowing a serial printer and 2 parallel printers to be shared over the network. Supporting multiple network operating systems, this device brings a high level of flexibility and performance to your office printing needs.

- 1 serial printer port & 2 parallel printer ports
- 10/100BASE-TX Ethernet network port
- Windows-based administrative program for setup/management of print jobs
- Bi-directional communication support
- SNMP MIB support
- Operates in Windows, Apple MacOS, Unix environments

## **DP-G321 3-Port Wireless Print Server**

**AirPlus G**



### *With 1 Parallel, 2 USB Ports & 802.11g Wireless LAN*

This Multi-Port Print Server is designed to share a cluster of printers located at a central site such as a data center or a computer room. It provides 2 high-speed USB 2.0 ports and 1 parallel printer port to share 2 USB printers and 1 parallel printer with a group of users over an Ethernet and a wireless network. The built-in Wireless LAN interface supports high speed of up to 54Mbps for wireless LAN users. Supporting multiple network operating systems, this device brings a high level of flexibility and performance to your printing needs.

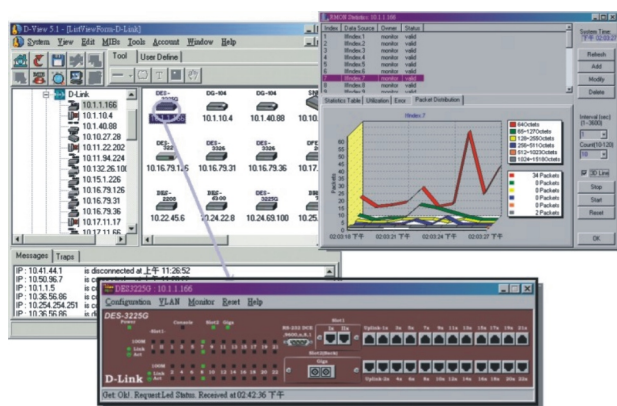
- 2 high-speed USB 2.0 printer ports & 1 parallel printer port
- High-speed 802.11g wireless LAN
- 10/100BASE-TX Ethernet network port
- Windows-based administrative program for setup/management of print jobs
- Web-based configuration, SNMP MIB support
- Operates in Windows, Apple MacOS, Linux, Unix environments

## D-View™ SNMP Network Management & MIB Compiler

D-Link's D-View™ SNMP Network Management is a comprehensive standards-based management system designed to centrally manage critical network characteristics such as availability, responsiveness, resilience and security in a consistent way. Flexible and versatile, this software accommodates a wide range of new D-Link and third-party devices, including

wireless bridges and access points, multi-layer switches, chassis switches, remote routers, and multi-tenant broadband CO devices. D-View™ provides SNMP-based useful tools to allow you to effectively carry out device configurations, fault tolerance, performance, security and accounting services.

### DS-510 D-View™ SNMP Network Management Program



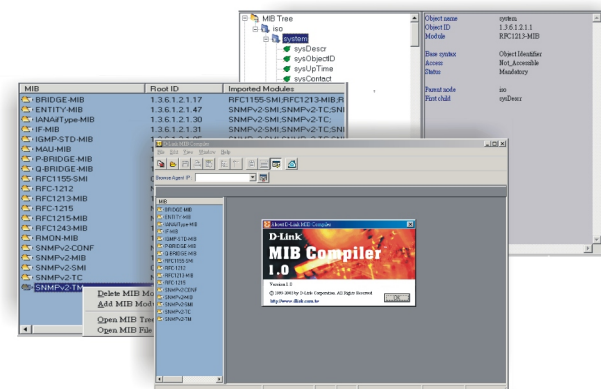
#### Three versions are available:

<b>DS-510P</b>	Professional Version
<b>DS-510P/CN</b>	Professional Version (Simplified Chinese)
<b>DS-510S</b>	Standard Version

D-View is organized into a vendor-independent platform and user plug-in modules. The platform consists of five main components, namely the Alarm/Trap Manager, Discovery/Parsing, MIB utilities, Internet tools, and the User Account Manager. Plug-in modules are for the devices that you want to manage. When you select a device to manage, D-View will look for that device's plug-in module and display it on the screen.

You can also manage non-D-Link SNMP devices without plug-in modules. D-View provides a MIB compiler for you to compile MIB files from the vendor of the device into a system recognized format, then loads it into a database. The compiler can communicate with your network device to get the current values or to set a new values for the MIB objects of your interest. All MIBs are converted into a graphic tree view, with which can use the MIB Browser to manage the device. D-View's Module Wizard will look for the compiled MIB files then organize and display the contents on the screen for you.

### DS-310 MIB Compiler



The D-Link MIB Compiler is available as a separate program, so you don't have to purchase D-View to get a MIB compiler.

The D-Link MIB Compiler lets you compile any vendor specific MIB file. Using this MIB Compiler, you can monitor and manage any SNMP device on the network, such as file/database server, router, switch and bridge, using the standard SNMP v.1, SNMP v.2c or SNMP v.3 protocol.

The compiled MIB file can be loaded and utilized by your network management applications. Generally, a MIB file is supplied by the vendor of an SNMP manageable device and contains a description of the object hierarchy and object attributes in the managed SNMP device. The MIB file serves as a roadmap for managing that device.

## Network Attached Storage (NAS)

### *Cost-Effective Alternatives to Traditional File Servers*

*D-Link's Network Attached Storage (NAS) devices are easy-to-use solutions for homes and businesses with storage requirements across heterogeneous networks. These NAS are all-in-one systems that include hardware and embedded software. A cost-effective alternative solution to traditional file servers, D-Link NAS provide extraordinary reliability with compatibility and versatile features like easy setup, large archive space, auto disk scanning, user access control and built-in print server.*

*D-Link NAS provide a single or multiple bays for hard disks with RAID support. With flexible hard disk capacity, these NAS are ideal alternatives to deploying*

*traditional file servers. These NAS deliver hardware reliability and compatibility with major operating systems and protocols. D-Link NAS can be deployed at a fraction of the cost of a complex traditional file server.*

*D-Link NAS come with embedded software that provides ready file access for Windows and MacOS. This saves you the cost of buying separate O.S. software and the trouble of installing it in your server. Transparent multi-platform file sharing is easily accessible at system power-on.*

*Installing is quick, easy and requires no network downtime. You simply plug in the power, connect the network cable and turn on the system power.*

#### Applications & Benefits

- |  |   |
|--|---|
| ■ Home use                                 | Central drive with flexible storage size for sharing and storing of family photos, digital music and high-resolution images.  |
| ■ Office use                               | Safely share large disk capacity, with user access control security.  |
| ■ Plug and Play (UPnP)                     | Users achieve instant out-of-the-box access, with a convenient folder automatically appearing on each network computer.   |
| ■ Network printer sharing or office users. | Built-in print server function and high-speed USB 2.0 ports allow you to plug in your printer and share them with family members  |
| ■ Cost & space saving                      | <ul style="list-style-type: none"><li>- Embedded OS software saves the cost buying and installing separate OS software.</li><li>- Compact desktop size saves home and office space.</li></ul> |

## **DNS-101H** Network Attached Storage

*With 1 Hard Drive Bay*



For homes and offices that experience rapid data growth, this Network Attached Storage (NAS) lets you add large amounts of storage capacity quickly and cost-effectively, without the need to deploy any computer-based server. For a fraction of the cost of a traditional Windows-based or Mac server, this NAS provides large archive space to store tens of thousands of image files and documents for network sharing.

This NAS comes with Windows and MacOS transparent multi-platform file sharing at power-on. Installation is quick and easy, and requires no network downtime. This NAS comes pre-installed with its own Operating System and ready configuration setup.

- 1 hard drive bay
- 2 high-speed USB 2.0 ports to connect to peripherals (printer, HD, CDR, etc.)
- Printer server function support
- UPnP support for easy configuration
- Auto disk scanning, restock and format policy
- System configuration file backup
- E-mail notification
- Security: user account database, sharing of folder access control by single user or groups
- System log with NTP (Network Time Protocol) support
- 10/100BASE-TX port to connect to Ethernet network
- Operates in Windows and Apple Mac environments
- External power supply

## **DNS-102C** Network Attached Storage

*With 2 Hard Drive Bays & CDR-W*



For offices that experience rapid data growth, this Network Attached Storage (NAS) lets you add large amounts of storage capacity quickly and cost-effectively, without the need to deploy any computer-based server. For a fraction of the cost of a traditional Windows-based or Mac server, this NAS provides large archive space to store tens of thousands of image files and documents for network sharing.

This NAS comes with Windows and MacOS transparent multi-platform file sharing at power-on. Installation is quick and easy, and requires no network downtime. This NAS comes pre-installed with its own Operating System and ready configuration setup.

- 2 hard drive bays with RAID 0, 1 level support
- 1 CDR-W provided
- 2 USB 2.0 ports to connect to peripherals (printer, HD, CDR, etc.)
- Printer server function support
- UPnP support for easy configuration
- Auto disk scanning, restock and format policy
- System configuration file backup
- E-mail notification
- Security: user account database, sharing of folder access control by single user or groups
- System log with NTP (Network Time Protocol) support
- 10/100BASE-TX port to connect to Ethernet network
- Operates in Windows and Apple Mac environments
- External power supply

## **DNS-121H** Network Attached Storage

*With 1 Hard Drive Bay & 802.11g WLAN*



For homes and offices that experience rapid data growth, this wireless Network Attached Storage (NAS) lets you add large amounts of storage capacity quickly and cost-effectively, without the need to deploy any computer-based server. For a fraction of the cost of a traditional Windows-based or Mac server, this NAS provides large archive space to store tens of thousands of image files and documents for network sharing.

This NAS comes with Windows and MacOS transparent multi-platform file sharing at power-on. Installation is quick and easy, and requires no network downtime. This NAS comes pre-installed with its own Operating System and ready configuration setup.

- 1 hard drive bay
- 2 USB 2.0 ports to connect to peripherals (printer, HD, CDR, etc.)
- Printer server function support
- UPnP support for easy configuration
- Auto disk scanning, restock and format policy
- System configuration file backup
- E-mail notification
- Security: user account database, sharing of folder access control by single user or groups
- System log with NTP (Network Time Protocol) support
- 10/100BASE-TX port to connect to Ethernet network
- Built-in high-speed 802.11g wireless LAN
- WPA security, 802.1x authentication, 64/128-bit WEP data encryption for wireless LAN
- Operates in Windows and Apple Mac environments
- External power supply

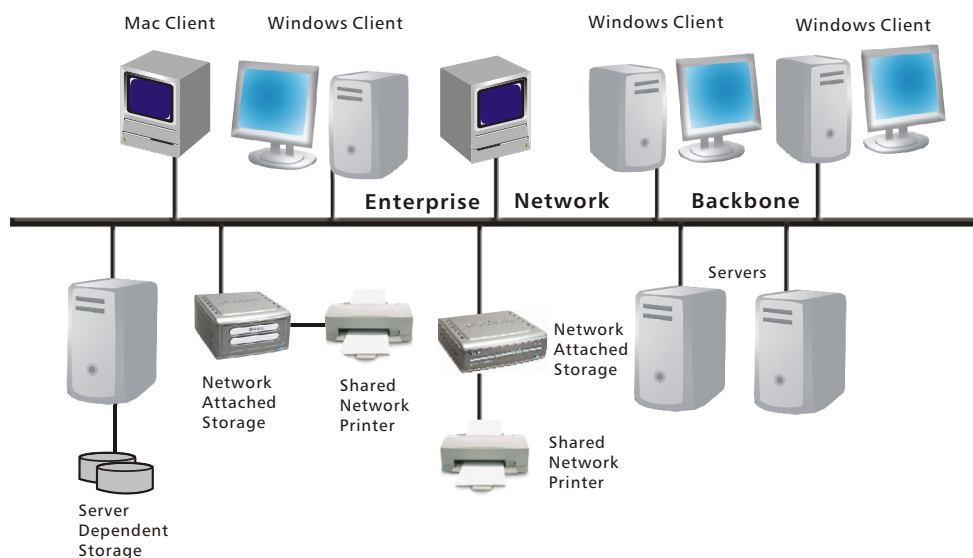
## **DNS-122C Wireless Network Attached Storage** *With 2 Hard Drive Bays, CDR-W & 802.11g WLAN*



For workgroups and departments that experience rapid data growth, this wireless Network Attached Storage (NAS) lets you add large amounts of storage capacity quickly and cost-effectively, without the need to deploy any computer-based server. For a fraction of the cost of a traditional Windows-based or Mac server, this NAS provides large archive space to store tens of thousands of image files and documents for network sharing.

This NAS comes with Windows and MacOS transparent multi-platform file sharing at power-on. Installation is quick and easy, and requires no network downtime. This NAS comes pre-installed with its own Operating System and ready configuration setup.

- 2 hard drive bays with RAID 0, 1 level support
- 1 CDR-W provided
- 2 USB 2.0 ports to connect to peripherals (printer, HD, etc.)
- Printer server function support
- UPnP support for easy configuration
- Auto disk scanning, restock and format policy
- System configuration file backup
- E-mail notification
- Security: user account database, sharing of folder access control by single user or groups
- System log with NTP (Network Time Protocol) support
- 10/100BASE-TX port to connect to Ethernet network
- Built-in high-speed 802.11g wireless LAN
- WPA security, 802.1x authentication, 64/128-bit WEP data encryption for wireless LAN
- Operates in Windows and Apple Mac environments
- External power supply



## Connecting Network Attached Storage to the Network

## Voice Over IP (VoIP) Gateways & IP Telephones

### *Cost-Effective Long-Distance Voice Communication Over the Internet*

*D-Link VoIP devices offer a very cost-effective alternative to long-distance voice/fax phone calls. These devices provide a unique solution to connecting existing telephony equipment in homes and offices to the data networks and the Internet. You can save huge amounts of money making local Internet calls. Businesses that must frequently communicate with customers overseas can use VoIP devices to cut down phone charges and realize big savings.*

*D-Link VoIP (Voice over IP) devices carry voice signals in the IP packet format. They link traditional telephony networks to IP networks, allowing you carry out voice communication over a data network, such as your company network or the Internet. This communication mode carries a big advantage of saving the telephone charge. On a company network, you pay no extra charge for voice communication. On the Internet, voice and fax communication is charged the same way as you are charged when logging onto the Internet to access and transmit data.*

#### ***VoIP Solution for Home***

*D-Link's VoIP solution for the home is the IP telephones. These devices have the VoIP function integrated into the telephone set, all ready for you to pick up the handset and dial. Models with full*

*telephone set functions and LCD display are available. Plug this phone to your DSL or cable modem line to connect. If your destination has a fixed IP address, connection is easy. Otherwise, register with your ISP to have your calls routed to the destinations. A Call Manager will map your Internet IP with the destination telephone numbers.*

#### ***VoIP Solution for Office***

*For the office, D-Link has for you the VoIP gateways that connect to broadband DSL or cable modem lines. Integrated models with DSL or cable modem inside are also available. These devices provide a number of ports to allow multiple telephones and fax machines to connect.*

*D-Link VoIP gateways provide connection paths between the plain old telephone service (POTS) lines and the Internet Service Provider (ISP) via the global Internet network. These devices interface with conventional telephony equipment such as telephone sets and fax machines using the loop start FXS (Foreign Exchange Station) or FXO (Foreign Exchange Office) interfaces. FXS connects directly to your phone/fax machines, while FXO connects to these through your office's Private Branch Exchange (PBX).*



## Features & Benefits

- |   |  |
|---|--|
| ■ Operates on IP-based private data network or on the public Internet | - Big savings on long-distance phone/fax.<br>- International phone calls at local ISP charge.                      |
| ■ Phone-like quality voice  | New generation of IP telephony devices offer same voice quality as the ordinary telephone.                         |
| ■ Simple, phone-like operation  | Transparent operation eliminates all hassles, making it feel like you are using your usual telephone.              |
| ■ Integrated voice/data service                                       | Simultaneous voice and data communication on the single DSL or cable modem broadband line or company data network. |

## DPH-100 IP Telephone

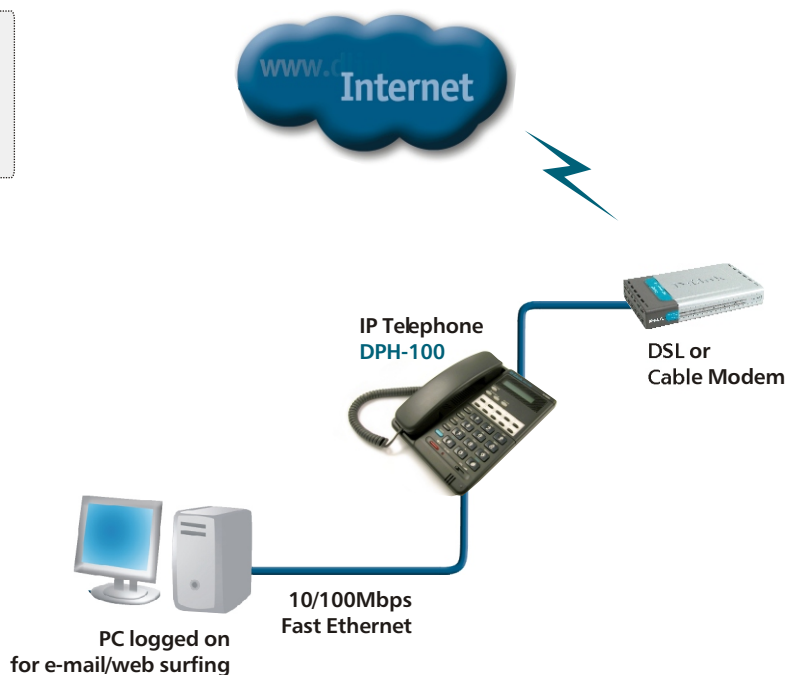


This IP Telephone connects to a DSL or cable modem broadband line. Designed for home and office use, it features a full-function telephone set, with a speaker, a large LCD to display dial-out and call-in numbers. It also has redial, mute, flash and hold functions, plus a function key and an address book.

- 10/100BASE-TX port connects to DSL or cable modem
- Second 10/100BASE-TX port connects to PC or LAN
- IP address assignment using DHCP or static configuration
- Silence suppression/comfort noise generation
- Adaptive jitter buffer, lost packet recovery
- Automatic echo cancellation
- DTMF tone generation
- 2 x 16 LCD display
- Adjustable speaker/ringer volume control

### Available in 3 models: B2 white, B3 black

- |                 |                        |
|-----------------|------------------------|
| <b>DPH-100M</b> | MGCP protocol support  |
| <b>DPH-100H</b> | H.323 protocol support |
| <b>DPH-100S</b> | SIP protocol support   |



## Connecting IP Telephone to the Internet

The DPH-100 IP Telephone has an extra RJ-45 port to connect a PC, allowing you to surf the Internet while carrying out VoIP communication.

## DPH-80 IP Telephone



### Available in 3 models:

<b>DPH-80M</b>	MGCP protocol support
<b>DPH-80S</b>	SIP protocol support
<b>DPH-80H</b>	H.323 protocol support

This IP Telephone connects to a DSL or cable modem broadband line. Designed for home and office use, it features a full-function telephone set, with speaker (for hands-free dialing use only), redial, mute, flash and hold functions.

- 10/100BASE-TX port connects to DSL or cable modem
- IP address assignment using DHCP or static configuration
- Silence suppression/comfort noise generation
- Adaptive jitter buffer, lost packet recovery
- Automatic echo cancellation
- DTMF tone generation
- Adjustable speaker volume control

## DPH-70 Dial-Up IP Telephone



### Available in 2 models:

<b>DPH-70H</b>	H.323 protocol support
<b>DPH-70S</b>	SIP protocol support

This low-cost IP Telephone connects to an ordinary telephone line (PSTN) through a built-in 56Kbps analog modem. It saves you the broadband Internet charge, and you don't have to be a DSL or cable modem line subscriber to use IP telephone. You dial up to your ISP and logon to your Internet as usual, then connect to your destination. It features a full-feature telephone set with a speaker (for hands-free dialing use only), redial, mute, flash and hold functions.

- Dial up Internet connectivity using PPP
- Built-in V.90 analog modem with RJ-11 port to connect to telephone line
- Easy-to-use configuration with friendly voice prompts
- Voice prompts for status information
- User-friendly dialing mechanism: phone alerts user after getting connected to ISP
- IP address assignment using DHCP or static configuration
- Silence suppression/comfort noise generation
- Adaptive jitter buffer, lost packet recovery
- Automatic echo cancellation
- DTMF tone generation
- Adjustable speaker volume control

## DVG-1120 2-Port VoIP Station Gateway



### Available in 3 models:

<b>DVG-1120S</b>	SIP protocol support
<b>DVG-1120M</b>	MGCP protocol support
<b>DVG-1120H</b>	H.323 protocol support

This VoIP Station Gateway is designed for the office. It provides 2 Foreign Exchange Station (FXS) ports for connection to 2 ordinary telephones and/or G3 fax machines. A PSTN lifeline RJ-11 port is provided to connect to the phone line for automatic fall back to PSTN communication (in case of a power failure or a network breakdown). This port ensures uninterrupted phone/fax communication with or without the Internet. Built-in router with Internet Gateway functions (DHCP server and NAT firewall) is provided.

This device allows you to set up a ACR (Automatic Call Redirect) table, composing of a list of emergency numbers, such as police and ambulance service, or special telephone numbers that will be automatically prevented from going through the Internet and redirected to the PSTN line when dialing is made.

- 2 FXS ports to connect to 2 ordinary telephones and/or fax machines
- 2 10/100BASE-TX ports (1 connects to DSL/cable modem, 1 connects to office LAN)
- IP address assignment using DHCP or static configuration
- Silence suppression/comfort noise generation
- Adaptive jitter buffer, lost packet recovery
- Automatic echo cancellation
- DTMF tone detection/generation
- Automatic Call Redirect (ACR) table support
- RJ-11 phone port for second dial done to PSTN
- RS-232 console port

## DVG-1110 Single-Port VoIP Station Gateway



### Available in 3 models:

- DVG-1110S** SIP protocol support
- DVG-1110M** MGCP protocol support
- DVG-1110H** H.323 protocol support

This VoIP Station Gateway is designed for home and office use. It provides 1 Foreign Exchange Station (FXS) port for connection to an ordinary telephone or G3 fax machine. A PSTN lifeline RJ-11 port is provided to connect to the phone line for automatic fall back to PSTN communication (in case of a power failure or a network breakdown). This port ensures uninterrupted phone/fax communication with or without the Internet. Built-in router with Internet Gateway functions (DHCP server and NAT firewall) is provided.

This device allows you to set up a ACR (Automatic Call Redirect) table, composing of a list of emergency numbers, such as police and ambulance service, or special telephone numbers that will be automatically prevented from going through the Internet and redirected to the PSTN line when dialing is made.

- 1 FXS port to connect to an ordinary telephone or fax machine
- 2 10/100BASE-TX ports (1 connects to DSL/cable modem, 1 connects to LAN)
- IP address assignment using DHCP or static configuration
- Silence suppression/comfort noise generation
- Adaptive jitter buffer, lost packet recovery
- Automatic echo cancellation
- DTMF tone detection/generation
- Automatic Call Redirect (ACR) table support
- RJ-11 phone port for second dial done to PSTN
- RS-232 console port

## DG-104 4-Port VoIP Station Gateway



### Available in 2 models:

- DG-104SH** H.323 protocol support
- DG-104S** MGCP protocol support

This VoIP Station Gateway is designed for the office. It provides 4 Foreign Exchange Station (FXS) ports for connection to 4 ordinary telephones and/or G3 fax machines. A PSTN lifeline RJ-11 port is provided to connect to the phone line for automatic fall back to PSTN communication (in case of a power failure or a network breakdown). This port ensures uninterrupted phone/fax communication with or without the Internet. Built-in router with Internet Gateway functions (DHCP server and NAT firewall) is provided.

- H.323, SIP protocols support \*
- 4 FXS ports to connect to 4 ordinary telephones and/or fax machines
- 2 10/100BASE-TX ports (1 connects to DSL/cable modem, 1 connects to office LAN)
- IP address assignment using DHCP or static configuration
- Silence suppression/comfort noise generation
- Adaptive jitter buffer, lost packet recovery
- Automatic echo cancellation
- DTMF tone detection/generation
- RJ-11 phone port for second dial done to PSTN
- RS-232 console port

## DVG-1104TH 4-Port VoIP Trunk Gateway



This VoIP Trunk Gateway is designed for the office. It provides 4 Foreign Exchange Office (FXO) ports for connection to 4 ordinary telephones and/or G3 fax machines through a PBX (Private Branch Exchange) or a central office switch attached to a remote voice gateway that is similarly equipped. Uninterrupted phone/fax communication with or without the Internet is also provided.

- H.323 protocol support
- 4 FXO ports to connect to 4 ordinary telephones and/or fax machines
- 10/100BASE-TX port to connect to company network
- IP address assignment using DHCP or static configuration
- Silence suppression/comfort noise generation
- Adaptive jitter buffer, lost packet recovery
- Automatic echo cancellation
- DTMF tone detection/generation
- Second dial done to PSTN provided



## Internet Cameras

### *Complete Systems For Surveillance & Broadcast of Live Events*

*D-Link's line of versatile Internet Cameras provides the ideal solution for remote security monitoring and broadcasting of live events over the Internet with high-quality video and sound. D-Link Internet cameras combine the functionality of a video surveillance camera with the reliability and convenience of the Internet.*

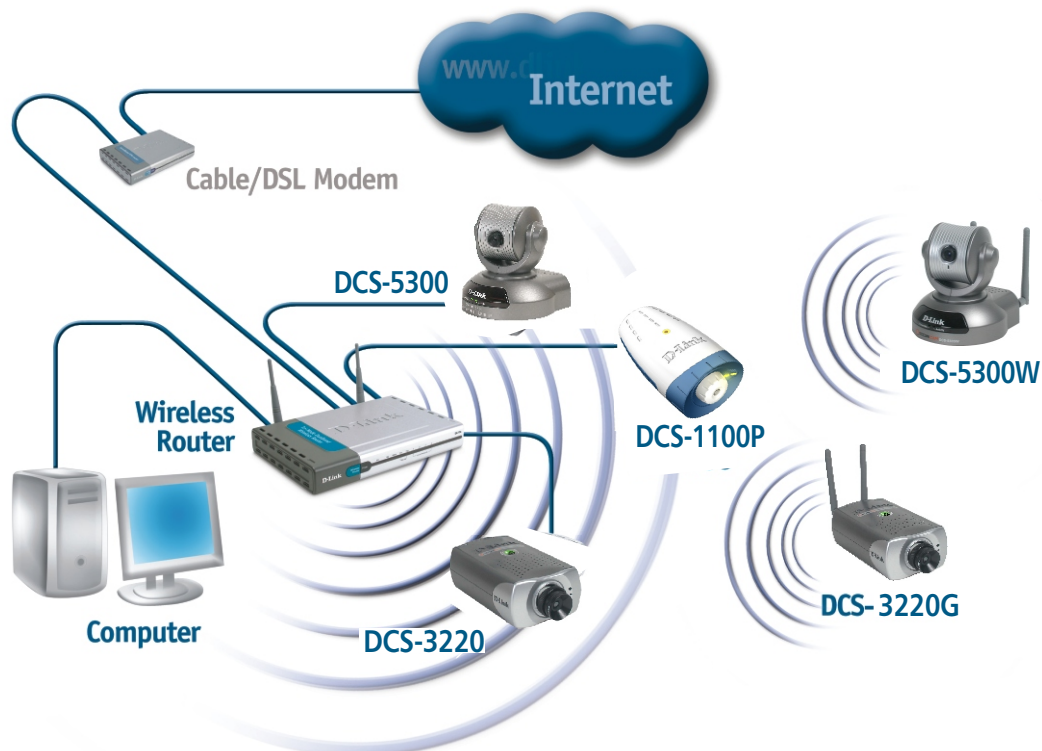
*D-Link's Internet cameras are stand-alone systems complete with CPU and integrated Web server. They directly connect to an Ethernet or wireless network in a building or campus, or to the broadband Internet without the need for any computers. Once connected, you can use the IP address built inside the camera to gain access to the camera and view live streaming video.*

*You can install the camera at home then view the images from anywhere in the world on a computer running*

*Internet. This makes the camera an ideal solution for remote surveillance away from home or office.*

*Surveillance software is included to let you view multiple cameras on a single computer screen at one central location. Images can be recorded to your computer's hard drive. The cameras can be connected to external alarms and sensors, and you can set up automated email alerts for sending through the Internet to alarm you of all unusual happenings.*

*D-Link Internet cameras support motion-detected recording to save disk space and eliminate the time wasted to view unnecessary images. Image playback consumes little time with triggered-event browsing and fast database searching.*



## Features & Benefits

■ Integrated Internet cameras with own CPU & Web server	No need to attach a PC to every camera on surveillance site
■ High-quality video/sound real-time monitoring	Clear picture & sound
■ Local access through Ethernet or wireless LAN	Convenient monitoring & control from any point at local site
■ Remote access from Internet browser	Allows monitoring & control from home or remote site
■ Surveillance software to control multiple cameras	Easy switching from one camera to another on the same single computer screen
■ High, standard-compliant compression ratio recording	- Saves disk/storage space - Allows playback on other standard-compliant systems
■ Motion detection triggered recording or scheduled recording	Saves disk/storage space
■ Smart playback	Saves time re-viewing & searching images
■ I/O port to connect to external devices	Allows sensors & alarms to connect to camera for alarm-based event recording when trigger is activated
■ Intruder detection with still image capture & e-mail notice	- Capture of intruders' images without browsing through recorded image file - Instant alarm on intruders' activities
■ Power over Ethernet support	Allows camera to be placed in high & hidden places where AC outlets are not available

\* DWL-P100 and DWL-P200 Power over Ethernet (PoE) are available for use with the Interface Cameras.

## DCS-900 Internet Camera for Home/SOHO



This Internet camera is designed as a cost-effective security system for home and the small office. This camera connects to an Ethernet network in a building, or to the broadband Internet. Equipped with all the basic security features, this camera provides an affordable and easy-to-use surveillance system for home and small offices.

## DCS-900W Internet Camera for Home/SOHO

*With Integrated 802.11b WLAN*



Recommended  
February 2004



Editor's Choice  
March 2004



This wireless Internet camera provides the same functions as the DCS-900 camera, except that it also has a built-in 802.11b Wireless LAN interface, in addition to the 10/100BASE-TX port. This allows you to connect the camera to both Ethernet network and a wireless network. WLAN permits you to do security surveillance without any network cables. The WLAN interface supports wireless network speeds of up to 11Mbps.

## DCS-1100P Internet Camera for Home/SOHO



This Internet camera is equipped with a powerful CCD lens sensor and enhanced data compression (MPEG-4). The camera connects to an Ethernet network in a building, or to the broadband Internet. Equipped with all the basic security features, this camera provides an affordable and easy-to-use surveillance system for home and small offices.

## DCS-1100G Internet Camera for Home/SOHO

*With Integrated 802.11g WLAN*



This wireless Internet camera provides the same functions as the DCS-1100P camera, except that it also has a built-in 802.11g wireless LAN interface, in addition to the 10/100BASE-TX port. This allows you to connect the camera to both Ethernet network and a wireless network. WLAN permits you to do security surveillance without any network cables. The WLAN interface supports wireless network speeds of up to 54Mbps.

## DCS-2000 Advanced Internet Camera for Business Use



This award-winning full-feature camera is designed for use with a large surveillance site. It has more functions than the DCS-1000, such as built-in microphone to monitor sound, and better quality video with stream live video at up to 30 frames per second for real-time viewing. Audio recording and digital zoom are also provided.

This camera is ideal for security surveillance at an office, factory, school and other public places. Its software supports control of up to 16 cameras.



PC UPGRADE  
Editor's choice  
2003



Super Quest  
2003 Annual Award

## DCS-2100+ Advanced Internet Camera for Business Use

*With Integrated 802.11b+ WLAN*



This wireless Internet camera provides the same advanced functions as the DCS-2000 camera, except that it also has a built-in 802.11b+ wireless LAN interface, in addition to the 10/100BASE-TX port. This allows you to connect the camera to both Ethernet network and a wireless network. WLAN permits you to do security surveillance without any network cables. The WLAN interface supports enhanced wireless network speeds of up to 22Mbps.



## **DCS-3220** Advanced Internet Camera for Business Use



This full-feature camera is designed for use with a large surveillance site. It includes advanced functions like 2-way audio (built-in microphone to record sound and audio out for external speaker connection), and powerful CCD lens sensor. A digital zoom are also provided.

This camera is ideal for security surveillance at an office, factory, school and other public places. Its software supports control of up to 16 cameras.

## **DCS-3220G** Advanced Internet Camera for Business Use

*With Integrated 802.11g WLAN*



This wireless Internet camera provides the same advanced functions as the DCS-3220 camera, except that it also has a built-in 802.11g wireless LAN interface, in addition to the 10/100BASE-TX port. This allows you to connect the camera to both Ethernet network and a wireless network. WLAN permits you to do security surveillance without any network cables. The WLAN interface supports enhanced wireless network speeds of up to 54Mbps.

## **DCS-5300** Advanced Internet Camera for Business Use

*With Rotation Motor for Pan/Tilt Angle Movements*



This advanced high-quality video/audio camera is designed for use with an advanced surveillance site. It has the most functions in the D-Link range of Internet cameras, including a rotation motor for camera pan/tilt supporting wide angle movements, stream live video at up to 30 frames per second for real-time viewing, digital zoom, and audio/video output to a TV set.

You can manually rotate the camera's horizontal and vertical movements from a control network station. The camera movement angles can also be set up for automatic panning and tilting in rotation according to a pre-set schedule.

In addition to video monitoring, sound surveillance is provided through a built-in microphone or a more powerful external microphone connected to the camera. Surveillance software supports control of up to 16 of this advanced camera.

## **DCS-5300W** Advanced Internet Camera for Business Use

*With Rotation Motor for Pan/Tilt Angle Movements & Integrated 802.11b + WLAN*



4 Stars Rating ★★★★★  
June 2004



April 2004



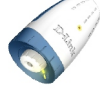







This wireless Internet camera provides the same advanced functions as the DCS-5300 camera, except that it also has a built-in 802.11b+ wireless LAN interface, in addition to the 10/100BASE-TX port. This allows you to connect the camera to both Ethernet network and a wireless network. WLAN permits you to do security surveillance without any network cables. The WLAN interface supports enhanced wireless network speeds of up to 22Mbps.



*Control multiple cameras on a network through the convenience of the Internet from a single computer*

# D-Link Internet Cameras

## Comparison Table

DCS-900    DCS-900W    DCS-1100P    DCS-1100G    DCS-2000    DCS-2100+    DCS-3220    DCS-3220G    DCS-5300    DCS-5300W										
										
MJPEG	•	•								
MPEG-4			•	•	•	•	•	•	•	•
CMOS	•	•			•	•				
CCD			•	•			•	•	•	•
Fix Lens	•	•	•	•					•	•
C/CS MountLens					•	•	•	•		
Built-in Microphone					•	•	•	•	•	•
Support External Microphone							•	•	•	•
Frames PerSecond	20fps	20fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps
Built in Wireless LAN		802.11b		802.11g		802.11b+		802.11g		802.11b+
Max. Cameras on Single Screen	4	4	16	16	16	16	16	16	16	16
I/O					•	•	•	•	•	•
Enable/Disable LED's	•	•	•	•	•	•	•	•	•	•
Java Support	•	•	•	•						
Motion Detection	•	•	•	•	•	•	•	•	•	•
Email Notification		•	•	•	•	•	•	•	•	•
UPnP			•	•	•	•	•	•	•	•
DDNS	•	•	•	•	•	•	•	•	•	•
Scheduled Recording to HD	•	•	•	•	•	•	•	•	•	•
Audio Recording					•	•	•	•	•	•
TV Output							•	•	•	•
Remote Control							•	•	•	•
Motorized Pan and Tilt								•	•	•
Scheduled Pan and Tilt								•	•	•
Digital Zoom							•	•	•	•
Power Input	5VDC/2.5A	5VDC/2.5A	5VDC/2.5A	5VDC/2.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A
Built-in Power Over Ethernet			•							



## Broadband Internet Video Phones

### For Home & Business Use

*D-Link's award-winning Video Phones are affordable broadband devices for home and business use. They easily turn your TV into a Video Phone for quality image video conferencing over the Internet. It's a stand-alone appliance; you do not need a computer to connect to the Internet.*

*You simply connect a D-Link Video Phone to your TV and telephone, plug in an Ethernet network cable to your DSL or cable modem, and you are ready to conduct real-time videoconferencing.*

*With a small price tag, high quality video and easy setup and operation, this Video Phone is ideal for home consumers and business with tight budgets. You can simply connect two D-Link Video Phones to the Internet to begin smooth picture video conferencing anywhere in the world.*

*Using an advanced video compression technology, D-Link Video Phone can send and receive video at up to 30 frames per second at 352 x 288 pixels (CIF). A speakerphone with echo cancellation is built into the unit.*

*For better sound, you can also connect this Video Phone to any telephone set with a full-duplex speaker.*

*All aspects of the Video Phone can be configured using the included remote control unit. Easy to use set-up wizards guide you step by step to set up. You can easily make changes to personalize your video conferencing display.*

*The remote control unit allows you to easily answer an incoming videophone call or initiate a new one. The built-in caller ID provides privacy protection. You can know who is calling before you answer. The memory inside allows you to store up to 10 numbers (IP addresses) as a type of phone book.*

*D-Link Video Phone uses the latest ITU standard for video conferencing. Using the H.323 protocol for video streaming over the Internet allows the Video Phone to connect to any device that uses this standard for video conferencing, and not just to another D-Link Video Phone. You can connect this Video Phone to another device that uses the popular Microsoft web-based NetMeeting.*



AeA High-Tech  
2003 Award



ELECTRONIC HOUSE  
2003 Product of the Year



Editor Rating: ●●●●●



Game-Over's Gamers Choice Award  
2003  
DVC-1000



Top 50 Products of 2003  
DVC-1000



D-Link Wireless I2eye Recommended  
February 2004  
DVC-1100

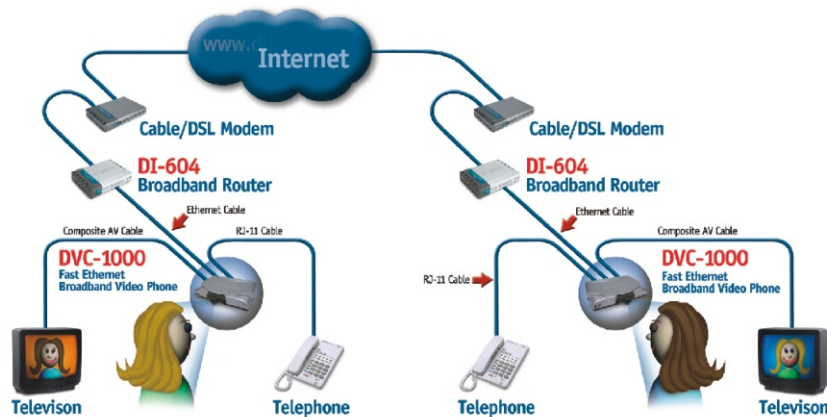
## Video Phone Highlights

- Real-time, high-resolution video conferencing
- Stand-alone operation, no PC required
- Easy setup Wizard
- Full screen view or picture-in-picture
- Auto IP mapping (phone book)
- Audio/Video privacy protection with built-in caller ID
- Remote control unit for handy setup and operation
- Answer with remote control unit or attached telephone

### DVC-1000 Video Phone



This Video Phone uses your TV set as the screen. It provides a connection to your TV set and an Ethernet port to connect to your DSL or cable modem. A remote control is provided for you to input your destination number and select the options that are shown on the TV screen for operation.



**Be There Real Time... Anytime.**

### DVC-1100 Video Phone

*With Built-in 802.11b+ WLAN*



This Video Phone is useful if you have a wireless remote router connected to your cable modem or DSL line (such as an ADSL router). The Video Phone provides a connection to your TV set and a wireless LAN interface to your remote router. No network cable is needed, and your TV can be located anywhere in your home or office, and not necessarily near the cable or DSL line. The built-in wireless LAN supports enhanced speeds of up to 22Mbps. A remote control is provided for you to input your destination number and select the options that are shown on the TV screen for operation.

### DVC-2000 Video Phone

*With Phone Set & Large LCD Screen*



This all-in-one Video Phone provides everything for you to dial up your destination and begin your video conference. It provides a connection to your cable modem/DSL line, and a telephone keyboard for you to key in your destination number and select the options that are displayed on a large built-in color LCD screen. If you have a remote router deployed, you can sit anywhere in your home or office and connect this Video Phone to your wall network cable to do video conference.



## *VisualStream*<sup>TM</sup> Digital Multimedia

### Audio/Video Converters & TV Tuners

*D-Link Audio/Video Converters provide an interface between your PC and your analog camera/camcorder/VCR, allowing you to use your analog camera to carry out video conference, video mail, surveillance and recording from your PC. These devices convert analog data and voice from your camera or VCR and compress them to MPEG or other digital data formats.*

*The Audio/Video Converters allow you to capture high quality video and snapshots to your PC's hard disk. Using the included software, you can transfer the captured bit stream into other standard formats as your wish, such as AVI, MPEG4, SVCD, VCD, DVD and so on.*

*MPEG Editor video editing software and DVD Maker software for family movies is bundled with these devices to allow you to edit and save digital video on your PC's hard disk or CD. You can attach the recorded digital video to your e-mail, capture still frames and set up motion-sensing video recording.*

*D-Link TV Tuners connect to your cable TV line to let you view TV programs on your PC screen and save these programs in digital AVI or compressed MGEg formats on your hard disk or CD ROMs. TV channels can be selected via a control panel on your PC monitor or your PC keyboard. You can record TV programs by pre-set schedule. The TV Tuners convert TV images to MPEG1/2/4 or other formats, so you can save the images on your hard disk. Audio sound is captured along with video.*

#### **DUB-AV200** Audio/Video Converter



This Audio/Video Converter interfaces between your PC and your analog camera/camcorder/VCR, allowing you to use your analog camera to carry out video conference, video mail, surveillance and periodic or long-time recording from your PC. The device captures images at 30 frames per second.

- DVD resolution quality: 704 x 480 (NTSC), 704 x 576 (PAL)
- SVCD resolution quality: 480 x 480 (NTSC), 480 x 576 (PAL)
- VCD resolution quality: 352 x 240 (NTSC), 352 x 288 (PAL)
- Snap shot: 704 x 480 still image
- Video bit rate: up to 12Mbps
- Audio bit rate: up to 768Kbps
- 16-bit stereo audio 24KHz sampling rate
- Audio capture with audio/video synchronization
- Capturing and recording standard formats: AVI, MPEG1, MPEG2, MPEG4
- Saturation, contrast, hue, brightness adjustment
- Direct burn-to-disc of recorded MPEG1/2/4 with VCD, SVCD & DVD quality
- MPEG movie creation with video editing software included
- USB 2.0 interface to PC
- USB IF certified

## DUB-AV300 Hardware-Based Audio/Video Converter



This Audio/Video Converter provides the same functions as the DUB-AV200, but it is much faster in speed. The DUB-AV300 uses a built-in hardware MPEG1/2/4 encoder/decoder IC capable of processing video stream data with low PC system requirements. The record file format can be VCD, DVD or AVI (DivX or Microsoft), and these formats can be saved directly without file conversion.

## DUB-T200 Combo TV Tuner & Audio/Video Converter



The combo device connects to your cable TV line to let you view TV programs on your PC screen and save these programs in digital AVI or compressed MPEG formats on your hard disk or CD ROMs. It also interfaces between your PC and your analog camera/camcorder/VCR, allowing you to use your analog camera to carry out video conference, video mail, surveillance and periodic or long-time recording from your PC. The device captures images at 30 frames per second.

- Full TV tuner functions: CATV, VHF, UHF
- TV program recording by pre-set schedule
- Full-channel/auto-scan function
- DVD resolution quality: 704 x 480 (NTSC), 704 x 576 (PAL)
- SVCD resolution quality: 480 x 480 (NTSC), 480 x 576 (PAL)
- VCD resolution quality: 352 x 240 (NTSC), 352 x 288 (PAL)
- Snap shot: 704 x 480 still image
- Video bit rate: up to 12Mbps
- Audio bit rate: up to 768Kbps
- 16-bit stereo audio 24KHz sampling rate
- Audio capture with audio/video synchronization function
- Capturing and recording standard formats: AVI, MPEG1, MPEG2, MPEG4
- Saturation, contrast, hue, brightness adjustment
- Direct burn-to-disc of recorded MPEG1/2/4 with VCD, SVCD & DVD quality
- MPEG movie creation with video editing software included
- USB 2.0 interface to PC
- USB IF certified



## VisualStream™ Digital Multimedia

### PC Cameras & Digital Cameras

*D-Link WebCam Digital Video Cameras are designed for use with PCs. They connect to your PC through a USB interface. These cameras are fully contained unit with all necessary hardware. You do not need to prepare video capture cards or any additional hardware.*

*These cameras draw power directly from the USB bus, making them ideal for use with laptop and portable computers. You can use these cameras to do video-conferencing, video e-mail, personal surveillance, remote customer's service, personal album and remote tutorial.*

*All necessary software is provided with the cameras for you to make digital video. The software allows you to record digital video directly to a PC's hard drive, record digital video for attachment to e-mail, and capture still frames. In the video-conference mode, you can do one-on-one chats or full meetings with group chat features.*

*D-Link Digital Cameras are dual-function high-resolution cameras that can act as a PC camera connected to your computer, or a digital camera that you can carry around to take pictures or record video. These cameras can be connected to your TV. Photos taken and video recorded in the camera will be output to your TV screen for viewing.*

#### **DSB-C110 100K Pixel PC Camera**



This WebCam Digital Video Camera is designed for use with your PC. The camera comes complete with all necessary hardware and software ready for you to begin making digital video. The software allows you to record digital video to your PC's hard drive or for attachment to e-mail. It also allows you to capture still frames. In the video-conference mode, you can do one-on-one chats or full meetings with group chatting features.

- 352 x 288 resolution
- Still image capture support
- Video conference with Microsoft NetMeeting
- Color CMOS sensor
- 24-bit RGB color support
- USB 1.1 connection to computer
- Video & photo editing software included

#### **DSB-C310 300K Pixel PC Camera**



This WebCam Digital Video Camera is designed for use with your PC. The camera comes complete with all necessary hardware and software ready for you to begin making digital video. The software allows you to record digital video directly to a PC's hard drive, record digital video for attachment to an email, and capture still frames. A built-in microphone allows audio to be added to recorded video. In the video-conference mode, you can do one-on-one chats or full meetings with group chat features.

- 640 x 480 resolution
- Still image capture support
- Video conference with Microsoft NetMeeting
- Color CMOS sensor
- 64 million colors support
- Maximum frames/sec.: 30 fps @ QVGA
- Built-in microphone
- USB 1.1 connection to computer
- Video & photo editing software included

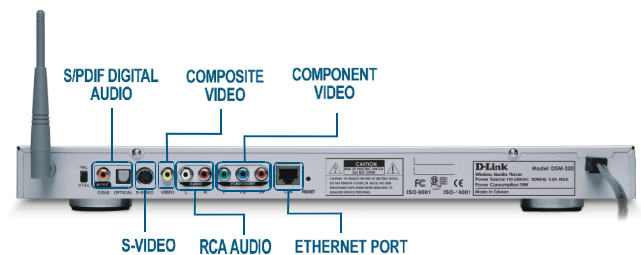


## Wireless Media Player

The D-Link Wireless Media Player unites your network with your home entertainment center, allowing you to share, access, and enjoy your digital media—whether it is music, videos, or photos—in the comfort of your living room. It supports 802.11g wireless standards with transfer speeds up to 54Mbps, giving you maximum throughput for your digital media. Setting up the Wireless Media Player is simple, and the sleek design makes it a natural addition to your home entertainment center.

Audio Video (AV) jacks on the back panel of the Wireless Media Player can be plugged directly into your TV, letting you access digital media content stored on your PC, browse your music files, watch your videos, and display your photos. In addition, the Wireless Media Player lets you access online media contents such as Radio@AOL™ on your TV through an existing broadband Internet connection.

The Wireless Media Player adheres to the Universal Plug-&-Play AV specification, and complies with Intel Networked Media Product Requirements (INMPR), allowing it to communicate with other UPnP AV media devices seamlessly. It supports and streams virtually all audio, video, and image formats stored on your PC. With support for MP3, WMA and WAV audio files, listen to all of your music on your stereo. Watch your stored videos in MPEG1/2/4, AVI, QuickTime or Xvid format on your TV or enjoy slideshows of your favorite photos in JPEG, JPEG2000, TIFF, GIF, BMP or PNG formats. Better yet, it's easy to access all your media files through the TV Interface using the remote control included with the Wireless Media Player.



### DSM-320 Wireless Media Player



Manage your music, photo and video files right on the TV

- Stream media content from your PC to your Entertainment Center
- Listen to digital music on your stereo system
- View digital photos, slideshows and video on TV
- Connects wirelessly using 802.11g
- Can connect via Ethernet

### Digital Media Compatibility

Audio	Image	Video
MP3	JPEG	MPEG 1
WMA	JPEG2000	MPEG 2
WAV	TIFF	MPEG 4
Online Content Radio@AOL™	GIF	AVI
	BMP	QuickTime
	PNG	XviD

## 7-In-1 Card Readers

*With all the different memory cards, it makes sense to get card reader that can read them all. D-Link card readers provide a compact and portable solution for reading multiple types of memory cards. These card readers are designed for use with your digital equipment that has memory cards. With multiple digital devices having their own particular formats, these card readers allow you to get your photos onto your computer fast without plugging your camera into the computer.*

*Connecting to your computer through a fast USB 2.0 port, D-Link card readers provide multiple sockets for data exchange, including Compact Flash, MicroDrive, Secure Digital (SD), Smart Media, Memory Stick (Pro) and MultiMedia Card.*

*No software driver installation is needed. You simply plug your card reader to your computer, and it's ready to read. No external power adapter is required. The card reader can do data exchange among different sockets.*

### DUB-CR100 7-In-1 Card Reader



This card reader allows you to read up to 7 different types of memory cards. Connecting to your computer through a fast USB 2.0 port, it provides 4 sockets for data exchange, including Compact Flash, MicroDrive, Secure Digital (SD), Smart Media, Memory Stick (Pro) and MultiMedia Card.

- USB 2.0 interface to computer
- 4 sockets supporting SD/MMC, Memory Stick, MS-Pro, 3.3 V Smart Media, Compact Flash, IBM MicroDrive
- Hot swap and plug-and-play function
- No device driver needed for Windows ME, 2000, XP
- LED indicators for data access
- Power supplied by USB bus power
- Allows data exchange among different sockets

### DUB-CR200 7-In-1 Card Reader

*With Built-in 3-Port USB Hub*



This card reader allows you to read up to 7 different types of memory cards. Connecting to your computer through a fast USB 2.0 port, it provides 4 sockets for data exchange, including Compact Flash, MicroDrive, Secure Digital (SD), Smart Media, Memory Stick (Pro) and MultiMedia Card. In addition, it also provides a 3-port USB 2.0 hub function.

- USB 2.0 interface to computer
- 4 sockets supporting SD/MMC, Memory Stick, MS-Pro, 3.3 V Smart Media, Compact Flash, IBM MicroDrive
- 3 USB 2.0 Type A ports to connect to USB devices
- Hot swap and plug-and-play function
- No device driver needed for Windows ME, 2000, XP
- LED indicators for data access
- Allows data exchange among different sockets
- External power adapter provided

## USB Flash Drives

### Storage Devices for Mobile Users

*D-Link flash drives provide you with flash memory for convenient use with your computer. These portable compact-sized drives let you store hundreds of data and image files for carrying around in your pocket. These flash drives plug to the USB 2.0 port of your computer and provide fast 480Mbps interface with your computer, giving you the speed, convenience and mobility for today's computing environments.*

*Convenient Network or Storage Operation – You can carry these flash drives around for use when you to hook up to a network to access resources or logon to the Internet. These flash drives give you ample space to download and store data for mobile use.*

*Compact Size – D-Link flash drives are attractive, portable device. They can fit into your pocket or carrying case, or can be attached to your carrying bag or briefcase through a string.*

#### **DUB-M128** 128MB USB Flash Drive



This compact portable flash drive provides you with 128 Megabytes of flash memory for convenient use with your computer. It lets you store up to 128 Megabytes of data and image files for carrying around in your pocket. It plugs to any USB port of your computer and provides fast 480Mbps USB 2.0 interface.

- 128MB flash memory
- Fast USB 2.0 interface to computer
- Bus-power support
- Operates in Windows, MacOS, Linux environments

#### **DUB-M256** 256MB USB Flash Drive



This compact portable flash drive provides you with 256 Megabytes of flash memory for convenient use with your computer. It lets you store up to 256 Megabytes of data and image files for carrying around in your pocket. It plugs to any USB port of your computer and provides fast 480Mbps USB 2.0 interface.

- 256MB flash memory
- Fast USB 2.0 interface to computer
- Bus-power support
- Operates in Windows, MacOS, Linux environments

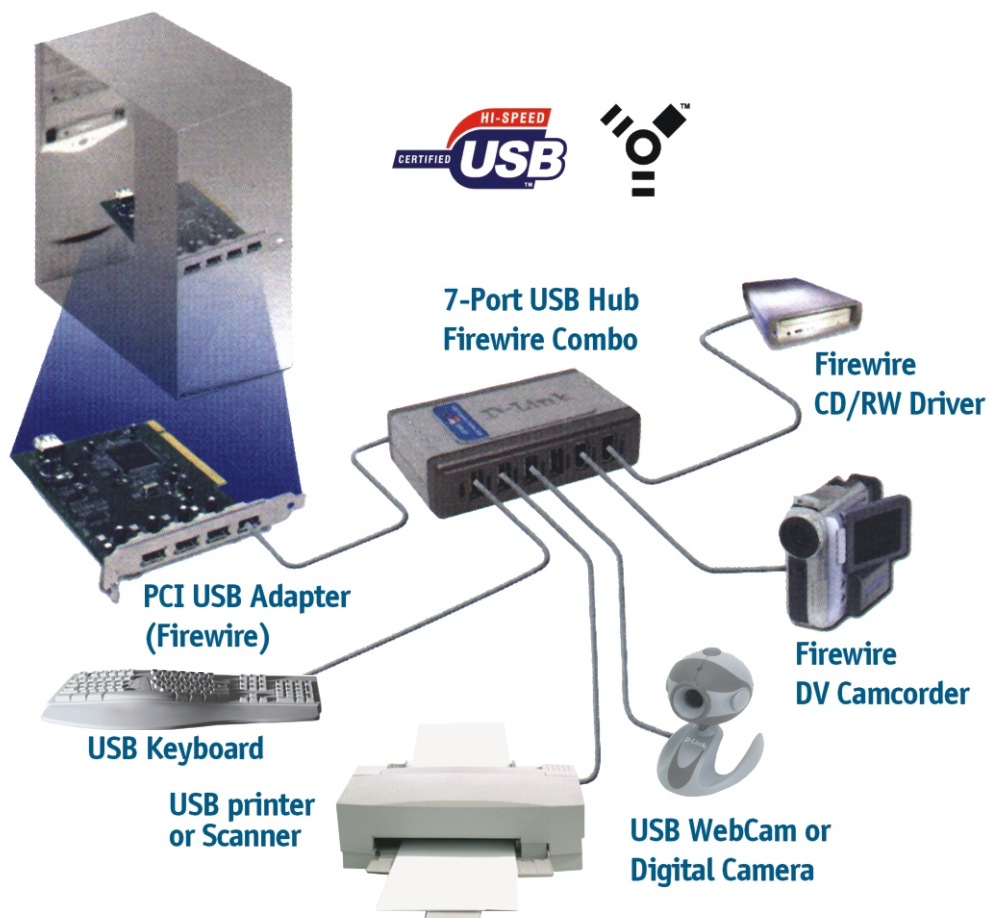
# USB Adapters & Hubs

## For Multimedia Connection

*D-Link provides a wide range of USB upgrade adapters and devices for connection of your USB-supported multimedia devices and peripherals. D-Link USB 2.0 moves data at incredible speeds of up to 480Mbps and is fully backward compatible with the earlier USB 1.1 standard.*

*D-Link's complete range of USB devices and adapters connects your DV camcorder, hard drives, digital cameras, web cams and other USB devices. D-Link USB hubs allow up to 127 USB devices to be daisy chained. For older computers not equipped with USB ports, D-Link USB upgrade adapters easily add USB ports to your systems.*

*D-Link USB provides for true plug-and-play connection of multimedia devices and peripherals. It supports both PCs and Macs and the popular operating systems, including Windows 98 SE, ME, XP, 2000, and MacOS. USB hubs support over-current detection for any device that is plugged into the hub. These devices offer increased functionality with additional bandwidth, allowing the addition of more plug-and-play peripherals to your computers.*



## High-Speed USB 2.0 Adapters & Hubs

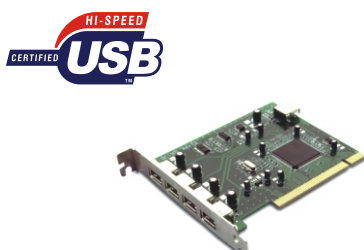
### DUB-A2 USB 2.0 2-Port PCI Adapter



This USB upgrade adapter adds 2 USB 2.0 ports to your desktop computer. Each port provides transmission of up to 480Mbps and is designed to work with external hard drives, WebCam and other high-speed USB devices. All ports are backwards compatible with USB 1.1, so you can also connect to your older USB devices. This adapter supports bus power of up to 500mA per port.

- 2 USB 2.0 downstream (Type A) ports
- USB-IF certified
- Operates in Windows 98 SE, 2000, ME, XP environments

### DU-520 USB 2.0 5-Port PCI Adapter



This USB upgrade adapter adds 5 USB 2.0 ports to your desktop computer. Each port provides transmission of up to 480Mbps and is designed to work with external hard drives, WebCam and other high-speed USB devices. All ports are backwards compatible with USB 1.1, so you can also connect to your older USB devices. This adapter supports bus power of up to 500mA per port.

- 5 USB 2.0 downstream (Type A) ports
- USB-IF certified
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments

### DUB-C2 USB 2.0 2-Port CardBus Adapter



This USB upgrade adapter adds 2 USB 2.0 ports to your notebook/laptop computer. It's a high-performance CardBus adapter that plugs into a 32-bit PCMCIA slot of your computer. Each port provides transmission of up to 480Mbps and is designed to work with external hard drives, WebCam and other high-speed USB devices. All ports are backwards compatible with USB 1.1, so you can also connect to your older USB devices.

This adapter supports bus power of up to 500mA per port. An external power adapter is provided for use in case your application requires a higher power supply.

- 2 USB 2.0 downstream (Type A) ports
- USB-IF certified
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments
- External power adapter provided

### DUB-E100 USB 2.0 Fast Ethernet Adapter



This USB adapter allows your Windows-based desktop and notebook PCs to simply plug into any available USB port to connect to an Ethernet network for true 10/100Mbps connectivity. With USB 2.0 data transfer rate of up to 480Mbps, you now can take full advantage of your Fast Ethernet network speed to transfer files, send e-mail and upload/download images.

This adapter supports USB energy saving suspend and resume function to minimize power consumption, which is especially useful for laptop/notebook users.

- Equipped with an attached USB 2.0 cable (Type A plug)
- Operates in Windows 98 SE, 2000, ME, XP environments
- Microsoft WHQL 2000, XP certified



## DUB-H4 USB 2.0 4-Port Hub



This USB hub provides 4 USB 2.0 Type A ports. Each port provides transmission of up to 480Mbps and is designed to work with external hard drives, WebCam and other high-speed USB devices. All ports are backwards compatible with USB 1.1, so you can also connect to your older USB devices. A USB 2.0 Type B upstream port is provided to connect to your computer or to cascade with another USB hub.

- 4 USB 2.0 Type A ports, 1 USB 2.0 Type B port
- USB-IF certified
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments
- 1.8 m USB cable provided
- External power adapter provided

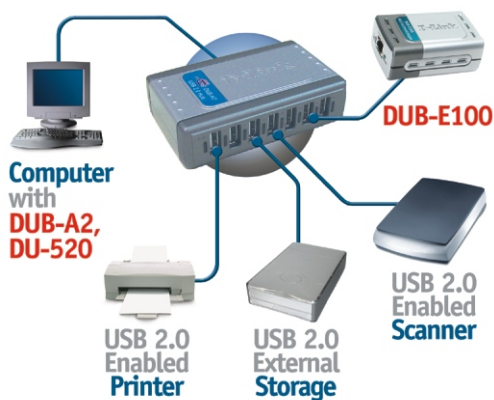
## DUB-H7 USB 2.0 7-Port Hub



This USB hub provides 7 USB 2.0 Type A downstream ports. Each port provides transmission of up to 480Mbps and is designed to work with external hard drives, WebCam and other high-speed USB devices. All ports are backwards compatible with USB 1.1, so you can also connect to your older USB devices. A USB 2.0 Type B upstream port is provided to connect to your computer or to cascade with another USB hub.

- 7 USB 2.0 Type A ports, 1 USB 2.0 Type B port
- USB-IF certified
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments
- 1.8 m USB cable provided
- External power adapter provided

### Typical USB 2.0 Installation



## Low-Cost, Low-Power USB 1.1 Solutions

### DU-H4 USB 1.1 4-Port Hub



This USB hub provides USB ports for use with your USB applications. It provides 4 USB 1.1 Type A downstream ports. A USB 1.1 Type B upstream port is provided to connect to your computer or to cascade with another USB hub.

- 4 USB 1.1 Type A ports, 1 USB 1.1 Type B port
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments
- 1.8 m USB cable provided
- External power adapter provided

## DU-H7 USB 1.1 7-Port Hub



This USB hub provides USB ports for use with your USB applications. It provides 7 USB 1.1 Type A downstream ports. A USB 1.1 Type B upstream port is provided to connect to your computer or to cascade with another USB hub.

- 7 USB 1.1 Type A ports, 1 USB 1.1 Type B port
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments
- 1.8 m USB cable provided
- External power adapter provided

## DU-H4L USB 1.1 4-Port Hub



### Low-Cost USB Solution

This USB hub provides 4 USB 1.1 Type A downstream ports for use with your applications. It provides a USB 1.1 upstream port to connect to your computer.

- 4 USB 1.1 Type A ports, 1 USB 1.1 Type B port
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments
- Attached 1.8 m USB cable with USB Type A upstream port provided

## DU-H4S USB 1.1 4-Port Hub



### Slim-Sized, Sleek Design

This mini USB hub is a beautifully designed device for laptop computers. It weighs a mere 32 grams and comes in a sleek, slim polished metal housing encased in a transparent plastic case. Through an attached USB cable, which can be neatly placed inside a built-in compartment, this USB hub conveniently connects your digital cameras, printers and other devices to your computer.

- 4 USB 1.1 Type A ports
- Attached USB cable with Type A port to connect to computer or another USB hub
- No external power adapter required
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments
- Easily fit into pocket or carrying case, or can be attached to briefcase through a string



## USB Cables

	DU-C5AB	DUB-C2AB	DUB-C3AB	DUB-C5AB	CUB-C2AE	DUB-C3AE
USB standard	1.1	2.0	2.0	2.0	2.0	2.0
Cable type	A to B cable	A to B cable	A to B cable	A to B cable	Extension cable	Extension cable
Length	4.5 m	1.8 m	3 m	4.5 m	1.8 m	3 m

## USB 2.0 & FireWire Combo Solutions

### Adding High-Speed USB and 1394 Ports to Your Computer

The D-Link Combo USB 2.0 & 1394 (FireWire) Solutions bring together two popular high-speed connectivity technologies in an all-in-one, high-speed, high-performance solution for your digital media applications.

With USB 2.0 ports that connect all of your USB peripherals and IEEE 1394 ports, you have plenty of room to connect your DV camcorder, hard drives, digital

cameras, web cams or other FireWire and USB devices.

These combo products comply with both the USB 2.0 and the IEEE 1394 standards. 1.5, 12, 100, 400 and 480Mbps speeds are supported. A total of up to 189 devices (maximum 127 USB devices and maximum 63 FireWire) can be daisy chained.

#### DFB-H7 Combo USB 2.0/1394 7-Port Hub



This hub combines 7 USB 2.0 ports and 2 1394 ports to bring together 2 popular high-speed connectivity technologies in an all-in-one device for your digital media applications. It supports over-current detection for any device that is plugged into the hub.

- 4 USB 2.0 downstream (Type A) ports
- 1 USB 2.0 upstream (Type B) port
- 3 FireWire (1394) ports
- USB-IF certified
- USB self-powered mode support
- 1394 cable powered mode support
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments
- 1.8 m USB cable & 1.8 m 1394 cable provided
- External power adapter provided

#### DFB-A5 Combo USB 2.0/1394 5-Port PCI Adapter



This adapter provides 2 USB 2.0 ports and 3 (2 external, 1 internal) 1394 ports for your desktop computer. The internal 1394 port is useful for connecting a peripheral such as a hard drive to your computer. This adapter brings together 2 popular high-speed connectivity technologies in an all-in-one upgrade card for your digital media applications.

- 2 USB 2.0 (Type A) ports
- 2 external 1394 ports, 1 internal 1394 port
- USB-IF certified
- Operates in Windows 98 SE, 2000, ME, XP, MacOS environments

#### IEEE 1394 (FireWire) Cables

	DC-18FW64	DC-18FW44
Length	1.8 m	1.8 m
Connector type	6-pin to 4-pin	4-pin to 4-pin

## Powerline Ethernet Bridge

### *Bridging Ethernet and Powerline at Home and Office*

*D-Link Powerline Ethernet Bridge acts as a bridge between an Ethernet network and a HomePlug Powerline network. This device allows you to communicate both in the widely used Ethernet and in Powerline, which uses your existing powerline to access network. The DHP is designed as the best solution for homes and SOHO to build up a network.*

*Most wired networks installed at home and SOHO today use the Ethernet technology. D-Link Powerline Ethernet Bridge lets you install a new Powerline network without losing any connection to your existing Ethernet network. In addition, an increasing number of devices, from broadband modems to residential gateways and game consoles are equipped Ethernet interfaces. This makes use of a DHP-100 necessary when you share these devices with your HomePlug Powerline users.*

*Powerline transmits data on the electrical wiring. It does not require any new wires and it is both robust and affordable. It solves key issues that have plagued home*

*networking in the past. Powerline supporting standard outlet makes it more convenient to move the PCs, switches, routers, and printer servers. Because power outlets are located on nearly every wall of a house, you can very easily connect the network or share dial-up, DSL and cable Internet access.*

*D-Link Powerline provides 56-bit DES security technology to ensure network separation between homes. It uses encryption to block outside access. The technology is an industry standard that provides a level of security that is adequate for home networking.*

*D-Link Powerline supports maximum 14Mbps bandwidth over home AC wiring. It offers you a high-speed networking for information sharing, multimedia application and gaming.*

#### Features & Benefits

- |  |  |
|--|--|
| ■ Uses existing powerline networks           | No extra wiring and extra wire maintenance                                   |
| ■ Uses standard outlet/plug                  | Allows you to access the network everywhere at home/office                   |
| ■ Uses common AC power outlet                | Lets users more easily relocate the PCs, switches, routers and print servers |
| ■ Co-exists with current Ethernet technology | Protects your previous investment  |
| ■ 14Mbps bandwidth over standard home        | Decent speed for sharing information, multimedia application and gaming      |
| ■ Frequency band 4.3 to 20.9MHz              | Low inference from other electric appliances                                 |

## **DHP-100** Ethernet-to-Powerline Bridge



This Powerline Ethernet Bridge makes it possible for Ethernet to co-exist with phoneline and RF networks.

- HomePlug 1.0 and Ethernet compliant
- 10/100BASE-TX port for connection to Ethernet switch, router, Internet gateway
- Ethernet supports auto MDI/MDIX, allows use of straight-through UTP cable to connect to any Ethernet device
- 56-bit DES data encryption security

## 56Kbps Analog Modems

### Low-Cost Internet Connection

D-Link provides a full line of analog modems designed for low-cost Internet connection. Supporting line speeds of up to 56Kbps (receive rates) and 48Kbps (transmit rates), these analog modems plug into any wall phone socket to establish for you a WAN link to the outside world. These low-cost dial-up devices allow home and SOHO users to surf the Internet or access e-mail without the need for costly DSL, cable modem or ISDN subscriptions.

Supporting industry standards, D-Link analog modems perform data compression and error correction for fast and reliable transmission/reception. In addition to Internet connection, D-Link analog modems also offer fax transfer, with send and receive rates of up to 14.4Kbps.

#### DM-562H Modem PCMCIA Adapter



This PCMCIA adapter is a high-performance hardware-based analog modem card designed the notebook/laptop PC. It plugs a PCMCIA slot of your computer to provide a dial-up phone line connection to the Internet.

This modem is equipped many on-board components designed to process many communication tasks. The on-board controllers take over many of the tasks from the PC host, alleviating it of the overheads that would otherwise be required by a software-based modem.

- V.92 standards
- Fax transmit/receive support (fax software provided)
- 16-bit PCMCIA interface to PC host
- RJ-11 phone cable & plug to connect to phone line
- Operates in Windows environment

#### DFM-562I Modem PCI Adapter



This PCI adapter is a high-performance controller-less analog modem card designed the desktop PC. It plugs a PCI bus of your computer to provide a dial-up phone line connection to the Internet.

This modem is equipped many on-board components designed to process many communication tasks. The on-board controllers take over many of the tasks from the PC host, alleviating it of the overheads that would otherwise be required by a software-based modem.

- V.92/V.90 standards
- Fax transmit/receive support (BVRP fax software provided)
- Voice support with MIC microphone & speaker jacks provided
- 2 RJ-11 phone jacks (1 to phone line, 1 to phone set)
- Operates in Windows environment

#### DFM-562IS Modem PCI Adapter *Low-Cost Software Modem*



This PCI adapter is a low-cost software-based analog modem card designed the desktop PC. It plugs a PCI bus of your computer to provide a dial-up phone line connection to the Internet.

This software-based modem has fewer components on-board, and is an ideal low-cost solution for PC with faster processors. Your computer's CPU will perform some of the communication tasks for the modem.

- V.92/V.90 standards
- Fax transmit/receive support (BVRP fax software provided)
- 2 RJ-11 phone jacks (1 to phone line, 1 to phone set)
- Operates in Windows environment



## **DFM-562SL** Modem PCI Adapter *Low-Cost Software Modem*



This modem card provides the same functions as the DFM-562IS modem card but uses a different chipset solution. It's a low-cost software-based analog modem designed the desktop PC. It plugs a PCI bus of your computer to provide a dial-up phone line connection to the Internet.

This software-based modem has fewer components on-board, and is an ideal low-cost solution for PC with faster processors. Your computer's CPU will perform some of the communication tasks for the modem.

- V.92/V.90 standards
- Fax transmit/receive support (BVRP fax software provided)
- 2 RJ-11 phone jacks (1 to phone line, 1 to phone set)
- Operates in Windows environment

## **DFM-560EL** External Modem *Serial Interface to Host*



This low-cost external modem provides dial-up phone line connection to the Internet. It connects to your PC through to a serial COM port. It's a hardware-based modem that provides fast communication performance.

- V.90 standard
- Fax transmit/receive support (BVRP fax software provided)
- 1 RJ-11 phone jack (to phone line)
- RS-232 serial interface to PC host
- Operates in Windows environment
- External power supply provided

## **DFM-562E** External Modem *Serial Interface to Host*



This external modem provides dial-up phone line connection to the Internet. It connects to your PC through to a serial COM port. It's a hardware-based modem that provides fast communication performance.

- V.92/V.90 standards
- Fax transmit/receive support (BVRP fax software provided)
- Voice support with MIC microphone & speaker jacks provided
- 1 RJ-11 phone jack (to phone line)
- RS-232 serial interface to PC host
- Operates in Windows environment
- External power supply provided

## **DU-562M** External Modem *USB Interface to Host, Low-Cost Software Modem*



This external modem provides dial-up phone line connection to the Internet. It connects to your PC through to a USB port. It's a software-based modem, and is an ideal low-cost solution for PC with faster processors. Your computer's CPU will perform some of the communication tasks for the modem.

- V.92/V.90 standards
- Fax transmit/receive support (BVRP fax software provided)
- Telephone Answering Machine (TAM) support, voice annotation through provided software
- 1 RJ-11 phone jack (to phone line)
- USB 1.1 interface to PC host
- Operates in Windows environment
- USB bus power, no external power supply required

## **DFM-562BT** Bluetooth Modem

**Personal Air**



This highly versatile Bluetooth-enabled analog modem can be plugged into any telephone wall phone socket to provide Bluetooth-enabled PDAs, desktop and notebook computers with a dial-up connection to the Internet. It's a hardware-based modem that provides fast communication performance.

- V.90/92 standards (V92 functions supported: Quick Connect (QC), PCM upstream and V.44 data compression)
- Bluetooth 1.1 connection to PC & PDA
- Bluetooth operating range up to 10 meters \*
- 128-bit data encryption for Bluetooth connection
- 1 RJ-11 phone jack (to phone line)
- Operates in Windows environment
- External power supply provided

\* Environmental factors may adversely affect range

<b>ANT24-0400</b>	Omni-Directional Antenna <a href="#">47</a>
<b>ANT24-0401</b>	Omni-Directional Antenna <a href="#">47</a>
<b>ANT24-0500</b>	Omni-Directional Antenna <a href="#">47</a>
<b>ANT24-0800</b>	Omni-Directional Antenna <a href="#">47</a>
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