

# Product Guide 2007



# Awards & Accolades

   <p>March 2007 Certified Five-Star Vendor</p>	<p>Altgamer D-Link High-Powered Wireless 108G Notebook Adapter Wins a 9.5 out of 10 Scores and Must Have Hardware Award from Altgamer <b>D-Link DWL-G680 High-Powered Wireless 108G Notebook Adapter</b></p>  <p>"The DWL-G680 is one strongwifi adapter. D-Link sure knows how to make a quality product for every type of user out there. I haveused many different networking brands over the years, and D-Link stands among the top of the makers."</p> <p>2007</p>
  <p>February 2007 First to Earn "Works with Windows Vista" Certification</p>	<p>LAPTOP Magazine D-Link Xtreme N Wireless Router Wins Perfect 5 of 5 Stars and Editors' Choice Award from LAPTOP Magazine <b>D-Link DIR-655 Xtreme N Wireless Router</b></p>  <p>"D-Link just keeps upping the 802.11n ante."</p> <p>2006</p>
<p>Target PC D-Link Xtreme N Wireless Router Wins Editors' Choice Award from Target PC <b>D-Link DIR-655 Xtreme N Wireless Router</b></p>  <p>"We loved it enough to make itpower our busy network at the office. The Xtreme N GigabitDIR-655 is by far one of the most advancedand feature packed router on today's market."</p> <p>2007</p>	<p>iParenting Media D-Link SECURESPOT Wins iParenting Media Award <b>D-Link SECURESPOT Internet Security Adapter</b></p>  <p>"SECURESPOT is an easy-to-manage, lower-cost alternative to purchasing, installing and maintaining separate antivirus, antispware and Internet security packages on individual computers connected to the home PC network."</p> <p>2006</p>
<p>TechTarget D-Link Switches Win Multiple Product Leadership Awards from TechTarget <b>D-Link Business-Class Switches</b></p>  <p>"The switches ranked high in almost every criteria, and survey respondents felt the product was a good value."</p>  <p>2007</p>	<p>Altgamer D-Link SECURESPOT Wins a 9.0 out of 10 Scores and Editors Choice Award from Altgamer <b>D-Link SECURESPOT Internet Security Adapter</b></p>  <p>"All in all the SecureSpot is worth every penny. I tested every aspect of the system and itwouldn't let anything through to my home network."</p> <p>2006</p>
<p>LAPTOP Magazine D-Link Xtreme N Wireless Router Wins Perfect 5 of 5 Stars and Editors' Choice Award from LAPTOP Magazine <b>D-Link DIR-655 Xtreme N Wireless Router</b></p>  <p>"D-Link just keeps upping the 802.11n ante."</p> <p>2007</p>	<p>VARBusiness D-Link Wi-Fi Phone Wins "Tech Innovation Product of the Year" Award from VarBusiness Magazine <b>D-Link Wi-Fi Phone</b></p>  <p>2006</p>
<p>Altgamer D-Link GamerLounge Router Wins a 9.5 out of 10 Scores and EditorsChoice Award from Altgamer <b>D-Link DGL-4300 Wireless 108G Gaming Router</b></p>  <p>"This router is just a beast, and inmy eyes is a Rolls-Royce of routers for gamers."</p> <p>2007</p>	<p>VARBusiness D-Link xStack Storage Wins VarBusiness Editor's Choice Award <b>D-Link xStack Storage iSCSI SAN Arrays</b></p>  <p>"For the SMB seeking higher capacity andbetter recovery at an affordable price, D-Link Systems is rolling out its xStack Storage iSCSI 3000 Series."</p> <p>2006</p>

For more awards and accolades, please visit our web sites.

## **Innovative Products for Consumers and Business**

D-Link is the global leader in connectivity for small, medium and large enterprise business networking. It's the largest supplier of SOHO and SMB networking, capturing 24.3% of the world's total SOHO/SMB connectivity market share.<sup>1</sup> The company is an award-winning designer, developer and manufacturer of wired and wireless network, broadband, remote connection, network security and multimedia/digital home solutions for the Small Office/Home Office (SOHO), Small to Medium Business (SMB), and Workgroup to Enterprise environments. With millions of networking and connectivity products manufactured and shipped worldwide, D-Link is a dominant player in the networking and communication arena.

### **Business Class Solutions**

D-Link delivers a wide range of powerful networking and connectivity solutions designed to create exceptional value for business at the enterprise, departmental and workgroup processing levels. D-Link provides dynamic solutions at reasonable costs, making them accessible to company budgets of all levels.

D-Link is the leading provider of networking and connectivity solutions to SOHO and SMB, with powerful solutions for deploying or upgrading to Gigabit Ethernet, 10-Gigabit Ethernet and 802.11n draft WLAN throughout an entire network. D-Link's award-winning xStack and the industry's first Giga/10-Giga wireless switches integrate wired and wireless LAN into a single network, providing powerful performance, security, easy deployment and centralized management for all compatible wired/wireless components. To take security one step further and provide complete protection from the end-point to the network gateway, D-Link's xStack switches and NetDefend firewalls support Microsoft's Network Access Protection (NAP) technology in the Windows Vista and Windows Server "Longhorn" environment, while D-Link's Unified Threat Management (UTM) firewalls provide anti-virus protection to guard businesses from external Internet threats.

D-Link's iSCSI-based Storage Area Network Arrays are designed to provide a reliable network data storage solution for customers in entry-level and SMB segments. They can easily be implemented as near-line storage to supplement an organization's primary IP network storage solution, or as a basic backup and recovery device. This evolutionary advancement in performance is a testament to the tightly integrated storage architecture and is a sharp contrast to the discrete implementation of competing products.

### **Broadband Solutions**

D-Link develops and builds the equipment that service providers need to provide high-speed communications reliably to their customers. Its supplying of more than 300,000 VDSL units to CHT Telecom in March 2007 is an example of the scope of its involvement in broadband Internet. Much more than just opening a tap of data for users, Broadband service providers market business applications, such as virtual private networks, network storage and integrated voice. VoIP is now coming into its own as an economical way to take advantage of network convergence, prompting business users to layer voice services on top of their IP VPN circuits. The breadth of broadband products that D-Link offers allows service providers to design systems tailor-made to their unique needs. This diversity and strength make it possible for D-Link to provide innovative solutions today that will adapt to the needs of emerging markets tomorrow and beyond.

### **Consumer/Digital Home Products**

D-Link puts the Digital Home within the reach of the average consumer for productivity and entertainment. It rides the cutting-edge of networking technology with next-generation networking solutions that include storage, multimedia, gaming, VoIP and surveillance solutions. In February 2007, D-Link was among the first to earn the "Works with Windows Vista" certification for its 802.11n draft wireless routers when this OS was just introduced. The future promises the ability to connect all networking devices for seamless interoperability and anytime, anywhere access. Our advanced communication products provide the ability to stream data wirelessly throughout one's home and to control various devices remotely.

The interactive home is the next step on the evolution of the Digital Home concept, and it is important for technology to be within reach of all consumers. D-Link helped pioneer products like digital media players, IP-based remote security cameras and video conferencing for consumers, and will continue to develop networked automation solutions that enhance the life of a digital home consumer.

### **Building Networks for People**

Continuing to meet the needs of consumers and continuing to innovate are things that cannot be achieved in a vacuum. D-Link maintains close ties with its international partners to make sure they are supplied with all of the knowledge, expertise, and support that they need to succeed in their markets. We also make sure that we are current with market intelligence about what consumers want, what prices they are prepared to pay and where the markets are heading. With this important knowledge in hand, D-Link can continue to innovate, enhance its brand equity, expand new and existing markets and continue "Building Networks for People."

<sup>1</sup> Source: InStat FY2006 Q3

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## ADSL2/2+ IP DSLAM

### Features & Benefits

- **Up to 8 Cascaded Units Manageable as Single Unit**
- **SNMP/Telnet Management**
- **CLI Through RS-232 Console Port**
- **IGMP Snooping, 150 Multicast Groups**
- **802.1Q VLAN, GARP/GVRP**
- **MAC/IP Filtering, MAC/IP-Based ACL Security**
- **802.1d Spanning Tree**
- **802.1p Traffic Prioritization QoS**
- **MAC/IP-Based Rate Limiting**
- **802.3ad Link Aggregation**
- **BRAS, 802.1x, DHCP Server/Relay, PPPoE, MPLS, VLAN-Based VPN, L3 Router, L2TP**
- **8 PVC Per Subscriber Line**

The IP DSLAM (DSL Access Multiplexer) are carrier-class, high performance devices deployed at the service provider CO (central office) side. They provide IP-based broadband access services to ADSL subscribers CPE (consumer premise equipment) in the multi-unit, multi-tenant buildings over the existed telephone line.

The IP DSLAM connect to the service provider's public optical network (PON) through their fiber interface. They extend the broadband service to the end user where the distance from central office may up to 5 km (for ADSL) or 6.1 km (for ADSL2+). Line performance offers rates from 32Kbps to 3 Mbps (upstream), and from 32Kbps to 24Mbps (downstream).



**DAS-3224F**  
24-Port IP DSLAM

- ◆ ADSL2/+ Standard, Annex A
- ◆ 24 ADSL Ports With POTS Splitters
- ◆ 1000BASE-T Gigabit Uplink
- ◆ 1000BASE-LX Gigabit Uplink Port Supports Fiber Cable Distance of Up to 10 km



**DAS-3324**  
24-Port IP DSLAM

- ◆ ADSL2/+ & Long Reach DSL, Annex A
- ◆ 24 ADSL Ports With POTS Splitters
- ◆ 1 or 2 Optional Gigabit Uplinks (1000BASE-T, 1000BASE-SX/LX)
- ◆ Up to 6 Cascaded Units Manageable as Single Unit



**DAS-3248**  
48-Port IP DSLAM

- ◆ ADSL2/+ Standard, Annex A
- ◆ 48 ADSL Ports With POTS Splitters
- ◆ 2 1000BASE-T Gigabit Uplinks



**DAS-3324G**  
24-Port IP DSLAM

- ◆ ADSL2/+ & Long Reach DSL, Annex A
- ◆ 24 ADSL Ports With POTS Splitters
- ◆ 1 or 2 SFP Uplink Slots
- ◆ Up to 6 Cascaded Units Manageable as Single Unit



**DAS-3224**  
24-Port IP DSLAM

- ◆ ADSL2/+ Standard, Annex A
- ◆ 24 ADSL Ports With POTS Splitters
- ◆ 2 1000BASE-T Gigabit Uplinks
- ◆ 10/100BASE-TX Port for Unit Cascading



**DAS-3248F**  
48-Port IP DSLAM

- ◆ ADSL2/+ Standard, Annex A
- ◆ 48 ADSL Ports With POTS Splitters
- ◆ 1000BASE-T Gigabit Uplink
- ◆ 1000BASE-LX Gigabit Uplink Port Supports Fiber Cable Distance of Up to 10 km

## ADSL2/2+ Modem & Router

### Features & Benefits

- **ADSL2+ Speeds up to 24Mbps Downstream, 1Mbps Upstream**
  - High enough for HDTV, streaming multimedia, voice over Internet.
  - High enough for business use.
- **Denial of Service (DoS) Attack Prevention, Stateful Packet Inspection (SPI)**
  - Basic Internet firewall for home and small business use.
- **Parental Control Through Web Site/Domain Name Blocking**
  - Protection against Internet abuse at home and office.
- **Priority Queues Quality of Service**
  - Smooth transfer of voice, music and video images over ADSL line for single user or groups of users.
- **Additional USB Interface**
  - Convenient connection for PC.

The ADSL2/2+ modems and routers are high-speed Internet connection devices that provide speeds of up to 24Mbps downstream and 1Mbps upstream. These speeds are suitable for high-speed multimedia Internet applications such as streaming video and voice over the Internet.

The standard interface on the ADSL modems and routers is Ethernet. For some modems and routers, however, there is an additional USB port, which offers convenient plug-and-play connection to computers. The ADSL routers are equipped with built-in ADSL interfaces and are primarily designed for several computers at home or in an office to share Internet access. In addition to ADSL line sharing, they also provide basic firewall functions (SPI and DoS prevention), user access security, parental control, and Priority Queues.

The ADSL wireless routers integrate WLAN for users wishing to connect to the Internet from a Wi-Fi network. For the office, the ADSL VPN routers offer hardware-based data encryption via embedded 3DES accelerators, providing users with secure data transfer over the Internet.



**DSL-320T, DSL-380T**  
ADSL2+ Ethernet Modem

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 10/100BASE-TX Ethernet Connection to Computer or Router



**DSL-322T, DSL-382T**  
ADSL2+ Combo Ethernet/USB Modem

- ◆ ADSL2/2+ Standards, Annex A (DSL-322T), Annex B (DSL-382T)
- ◆ 10/100BASE-TX Ethernet Connection to Computer or Router
- ◆ Additional USB Port for Computer Connection



**DSL-2300B**  
ADSL2+ Ethernet Modem

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 10/100BASE-TX Ethernet Connection to Computer or Router



**DSL-2320B**  
ADSL2+ Combo Ethernet/USB Modem

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 10/100BASE-TX Ethernet Connection to Computer or Router
- ◆ Additional USB Port for Computer Connection

## ADSL2/2+ Modem & Router



### DSL-520T DSL-520L DSL-580T

#### ADSL2+ Ethernet Router

- ◆ ADSL2/2+ Standards, Annex A (DSL-520T, DSL-520L), Annex B (DSL-580T)
- ◆ 10/100BASE-TX Ethernet LAN Port
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-2500B

#### ADSL2+ Ethernet Router

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 10/100BASE-TX Ethernet LAN Port
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-522T DSL-522L DSL-582T

#### ADSL2+ Combo Ethernet/USB Router

- ◆ ADSL2/2+ Standards, Annex A (DSL-522T, DSL-522L), Annex B (DSL-582T)
- ◆ 10/100BASE-TX Ethernet LAN Port
- ◆ Additional USB Port for Computer Connection
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-2520B

#### ADSL2+ Combo Ethernet/USB Router

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 10/100BASE-TX Ethernet LAN Port
- ◆ Additional USB Port for Computer Connection
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-2540T DSL-524L DSL-2541T

#### ADSL2+ 4-Port Ethernet Router

- ◆ ADSL2/2+ Standards, Annex A (DSL-2540T, DSL-524L), Annex B (DSL-2541T)
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-2540B

#### ADSL2+ 4-Port Ethernet Router

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-2600B

#### ADSL2+ Wireless G Ethernet Router

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 10/100BASE-TX Ethernet LAN Port
- ◆ Integrated 802.11g Wireless LAN
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-2640T DSL-2641T

#### ADSL2+ Wireless G 4-Port Ethernet Router

- ◆ ADSL2/2+ Standards, Annex A (DSL-2640T), Annex B (DSL-2641T)
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ Integrated 802.11g Wireless LAN
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-2640B

#### ADSL2+ Wireless G 4-Port Ethernet Router

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ Integrated 802.11g Wireless LAN
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall

## ADSL2/2+ Modem & Router



### DSL-G624M

#### ADSL2+ Wireless 108 G MIMO Ethernet Router

- ◆ ADSL2/2+ Standards, Annex A
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ Integrated 802.11g Wireless LAN (108Mbps Turbo Speed)
- ◆ Smart Antenna Technology
- ◆ Up to 8 Times Better Wireless Signal Range
- ◆ Port-Based VLAN Security
- ◆ SPI, DoS Firewall



### DSL-2740B DSL-2741B

#### RangeBooster N ADSL2+ Router

- ◆ ADSL2/2+ Standards, Annex A (DSL-2740B), Annex B (DSL-2741B)
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ Integrated 802.11n Draft Wireless LAN
- ◆ Wireless Speed Up to 4 Times Faster Than 802.11g
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DSL-G804V DSL-G864V

#### ADSL2+ Wireless G VPN Router

- ◆ ADSL2/2+ Standards, Annex A (DSL-G804V), Annex B (DSL-G864V)
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ Integrated 802.11g Wireless LAN
- ◆ 3DES Accelerator for Secure VPN Data Transfer on Internet
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall



### DVA-3340S DVA-3340SB

#### ADSL2+ VoIP Router

- ◆ ADSL2/2+ Standards, Annex A (DVA-3340S), Annex B (DVA-3340SB)
- ◆ 2 FXS VoIP Ports (SIP Protocol) for Phone/Fax Connections
- ◆ FXO PSTN Lifeline Port
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ USB Port for Computer Connection
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall
- ◆ Port-Based VLAN Security



### DVA-G3340S DVA-G3340SB

#### ADSL2+ Wireless G VoIP Router

- ◆ ADSL2/2+ Standards, Annex A (DVA-G3340S), Annex B (DVA-G3340SB)
- ◆ 2 FXS VoIP Ports (SIP Protocol) for Phone/Fax Connections
- ◆ FXO PSTN Lifeline Port
- ◆ Integrated 802.11g Wireless LAN
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ USB Port for Computer Connection
- ◆ QoS Priority Queues
- ◆ SPI, DoS Firewall
- ◆ Port-Based VLAN Security



### DVA-G3342SB

#### ADSL2+ ISDN Wireless G VoIP Router

- ◆ ADSL2/2+ Standard, Annex B
- ◆ 1 ISDN Port
- ◆ 2 FXS VoIP Ports (SIP Protocol) for 2 Telephone/Fax Connections
- ◆ FXO (PSTN) Lifeline Port
- ◆ Integrated 802.11g Wireless LAN
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ USB Port for Computer Connection
- ◆ QoS Priority Queues
- ◆ SPI Firewall



### DVA-G3342SC

#### ADSL2+ ISDN Wireless G VoIP PBX

- ◆ ADSL2/2+ Standard, Annex B
- ◆ 1 ISDN Port Supporting Up to 8 ISDN Phone Connections
- ◆ 2 FXS VoIP Ports (SIP Protocol) for 2 Telephone/Fax Connections
- ◆ FXO (PSTN) Lifeline Port
- ◆ IP PBX TK
- ◆ Integrated 802.11g Wireless LAN
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ USB 2.0 Port for USB Drive or Printer Connection
- ◆ QoS Priority Queues
- ◆ SPI Firewall

## VDSL2 Modem & Router

### Features & Benefits

- Upgrade From VDSL1**
  - VDSL2 outperforms VDSL in speed and phone line distance from central office (CO) switch to consumer premise equipment (CPE) modem or router.
  - Ideal for voice, video, data, high definition television (HDTV) and interactive gaming over the Internet.
- High Performance at Longer Distance**
  - Speeds of 25Mbps available to most consumers.
  - Speed of 100Mbps available on short loops (up to 300 m phone line distance).
  - Speed decreases less as phone line distance increase from 1 km.
- Interoperable With Existing Carrier DSL Equipment**
  - Easy upgrade to systems already installed over the last decade
- Up to Symmetric 100Mbps at Shortened Loop Lengths**
  - Allows operators to offer "super triple play" of video, Internet and voice services to compete with services offered by satellite and cable operators.
  - Ideal for HDTV, VoIP and video conferencing.
  - Unlike VDSL1 systems, VDSL2 is not limited to short loops or MTU (Multi-Tenant Units office buildings)/MDU (Multi-Dwelling Units apartment buildings and condominiums) applications. Can also be used for medium range applications.

VDSL2 (Very-High-Bit-Rate Digital Subscriber Line 2) is an ITU-T G.993.2 standard an access technology that exploits the existing infrastructure of telephone copper wires that are present in very home, office building, factory, and public premise. VDSL2 can be deployed from the telephone company and service provider central offices, from fiber-fed cabinets located near the customer premises, or within buildings.

VDSL2 is the newest and most advanced standard of DSL broadband wire line communications. Designed to support the wide deployment of services such as voice, video, data, high definition television (HDTV) and interactive gaming, VDSL2 enables operators and carriers to gradually, flexibly, and cost efficiently upgrade existing DSL infrastructure.

VDSL2 is an enhancement to G.993.1 VDSL that permits the transmission of asymmetric and symmetric (full-duplex) aggregate data rates many times higher on the twisted-pair phone wires using a bandwidth up to 30MHz.



**DSL-6300B**

#### VDSL2 Ethernet Modem

- ◆ RJ-11 Port for VDSL Connection
- ◆ 10/100BASE-TX Ethernet Connection to Computer or Router



**DSL-6341K**

#### VDSL2 4-Port Ethernet Modem

- ◆ 2 RJ-11 Ports (1 for VDSL, 1 for Telephone)
- ◆ Built-in POTS Splitter
- ◆ 10/100BASE-TX Ethernet Ports for 4 Computer Connections



**DSL-6640I**

#### VDSL2 4-Port Wireless Router

- ◆ RJ-11 Port for VDSL Connection
- ◆ 10/100BASE-TX Ethernet Ports for 4 Computer Connections
- ◆ Integrated 802.11g Wireless LAN
- ◆ NAT, DHCP Server for Group Sharing of Internet Line

## Cable Modem

### Features & Benefits

- DOCSIS/EuroDOCSIS 2.0 Standards**
  - Latest cable modem standard.
  - Backward compatible with earlier DOCSIS/EuroDOCSIS 1.0, 1.1 standards equipment.
- DOCSIS/EuroDOCSIS CableLabs Certified**
  - Compatibility with all DOCSIS compatible cable providers.
- High-Speed Internet Connection**
  - Maximum downstream speeds: 38Mbps (64QAM)/43Mbps (256QAM) <sup>1</sup>
  - Maximum upstream speeds: 320, 640, 1280, 2560, 5120 kbps (QPSK); 640, 1280, 2560, 5120, 10240 kbps (16QAM) <sup>1</sup>
- Automatic Finding of Send/Receive Data Channels**
  - More efficient and effective broadband connection.
  - Clears network congestion to boost network speeds.
- DES Encryption/Decryption**
  - Protection for data traveling on the TV network cable.
- Built-in MCNS MIBs**
  - For SNMP remote management, allows network management to be carried out across multi-vendor platforms.

The cable modems connect computers and remote routers to a broadband network, providing a standard-based solution for high-speed Internet access. These devices bridge radio-wave-like signals over the cable TV wiring to a standard Ethernet interface. Powered by TurboDOX bandwidth acceleration software, D-Link cable modems increase download speeds at up to 20 times for home users' enjoyment of popular Internet applications, such as file sharing, audio and video streaming, Internet TV and website uploading. <sup>1</sup>

D-Link cable modems make broadband connection more efficient and effective by clearing network congestion, resulting in a boost in download speeds. Users get more out of their broadband connection with increased bandwidth and enhanced performance. A single downstream 6MHz television channel may support up to 38Mbps of downstream data throughput from the cable head end using 64 QAM modulation, or 43Mbps downstream data using 256QAM modulation technology.

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

<sup>1</sup>Speeds may vary with Cable Service Operator.

- SNMP v1, v2c, v3 Support**
  - Easy integration with SNMP-based, vendor-independent managed network
- Static IP/Dynamic (DHCP) IP Assignment**
  - Enables efficient management of IP allocations.



**DCM-202**

#### Cable Modem

- ◆ DOCSIS/EuroDOCSIS 2.0 CableLabs Certified
- ◆ 10/100BASE-TX Ethernet Port
- ◆ USB 1.1 Port
- ◆ CATV Coaxial Port
- ◆ Supports Windows (Ethernet and USB), Mac OS & Unix/Linux (Ethernet Only)

## 802.11g Wireless LAN

### Features & Benefits

- **802.11g Standard**

Most widely used industry standard in WLAN.

- **2.4GHz Frequency Band**

Popular radio frequency band currently available for public use in most countries.

- **Up to 54Mbps Data Transfer Rate**

Decent bandwidth for wireless transfer of Internet surfing, file download, multimedia, voice and video.

- **Compatible With 802.11b Devices**

- Seamless integration with earlier standard wireless devices.
- Preservation of past investments in earlier standard wireless hardware and applications.

- **WISP Client Router**

This operation mode lets wireless Internet service (WISP) subscribers share Internet connection with Ethernet-enabled computers without the need for an extra router.

- **WISP Repeater**

This operation mode lets WISP subscribers share Internet connection with wireless computers without any extra router.

The Wireless G product line presents the most complete line of wireless products, ranging from wireless adapters to wireless access points, wireless routers and wireless presentation gateways. Wireless G complies with the 802.11g wireless LAN standard and uses the popular 2.4GHz frequency band, which is available for public use in most countries. Wireless G is backward compatible with legacy 802.11b wireless equipment, ensuring compatibility with a wide range of wireless devices.

This cost-effective wireless product line is ideal for home and business users needing an affordable high-speed wireless network. It provides data transfer rates of up to 54Mbps suitable for most home and SOHO applications, and complete network access security, privacy protection and data encryption including WEP, WPA and WPA2 personal and enterprise security.

- **64/128-Bit WEP Data Encryption**

Protection of wireless data traveling in the air that are sent by the users.

- **WPA EAP/PSK, WPA2 EAP/PSK With TKIP, AES Support**

- Wireless LAN security including data encryption keys and user authentication for network access.
- Keeps out intruders located next door, upstairs or downstairs.
- Advanced encryption and security schemes for business environments.

- **Workgroup Bridge with AP**

This operation mode allows an AP to act as wireless hub and a bridge at the same time.

- **Windows Vista Support**

Can operate in the latest Windows Vista environment.



#### DWL-G122

##### Wireless G USB Adapter

- ◆ USB Cable & Cradle Provided
- ◆ Supports Windows, Mac OS, Linux



#### DWA-110

##### Wireless G USB Adapter

- ◆ USB Cable & Cradle Provided
- ◆ Supports Windows, Mac OS, Linux



#### DWL-G630

##### Wireless G CardBus Adapter

- ◆ 32-Bit Bus Interface to PC
- ◆ Supports Windows, Linux



#### DWA-610

##### Wireless G CardBus Adapter

- ◆ 32-Bit Bus Interface to PC
- ◆ Supports Windows, Linux



#### DWL-G510

##### Wireless G PCI Adapter

- ◆ For Desktop PC
- ◆ Supports Windows, Linux



#### DWA-510

##### Wireless G PCI Adapter

- ◆ For Desktop PC
- ◆ Supports Windows, Linux



#### DWL-G710

##### Wireless G Range Extender

- ◆ Extends Wireless Signal Range
- ◆ Enables Wireless Connectivity in Basements, Garages, Other Indoor "Dead Spot" Areas



#### DWL-G700AP

##### Wireless G Access Point

- ◆ Operable in AP (Wireless Connectivity for Computers) or Repeater (Wireless Signal Range Extension)
- ◆ For Indoors Use



#### DAP-1150

##### Wireless G Access Point

- ◆ Operable in AP, AP Client or Repeater
- ◆ Wireless Protected Setup (WPS)
- ◆ For Indoors Use



#### DAP-1160

##### Wireless G Access Point

- ◆ Operable in 7 Modes: Access Point, AP Client, WDS, WDS with AP, Wireless Repeater, WISP Client Router or WISP Repeater
- ◆ 2 10/100BASE-TX Ethernet Ports for LAN and Computer Connection
- ◆ For Indoors Use



#### DI-524

##### Wireless G 4-Port Router

- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ Parental Control, SPI Firewall



#### DIR-300 DIR-301

##### Wireless G 4-Port Router

- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ Parental Control, SPI Firewall
- ◆ Wireless Protected Setup (WPS)



#### DI-524UP

##### Wireless G 4-Port Router With USB Printer Port

- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ USB Printer Sharing Supporting Windows, Mac OS, Unix LPR
- ◆ QoS Traffic Prioritization
- ◆ Parental Control, SPI Firewall



#### DWL-G730AP

##### Wireless G Pocket Router/AP

- ◆ Pocket-Sized, Lightweight, Ideal for Traveling
- ◆ Operable in AP, Wireless Router or Wireless Client Mode
- ◆ Can Be Powered Directly From PC's USB Port
- ◆ Traveling Case & Power Adapter Provided



## Wireless Presentation Gateway

### Features & Benefits

- **VGA and DVI-D Output Support**

Compatible with most projectors and monitors currently in use or sold in the market.

- **Multiple Format Support**

Can handle any format file such as PowerPoint, Excel, and Word sent by presenters to projector or monitor from their PC.

- **Audio Output Jack**

Presenters can connect speakers to projector or monitor to liven up presentations with stereo sound.

- **Integrated Ethernet Port**

Presenters can connect gateway to existing network for Internet access, and integrate content from the web to their presentations.

- **Software Installs Directly From Gateway**

- No need to insert CD in laptop to install client software.
- Client software installs directly into PC through wireless network, no cable required.

- **Multiple Presenter Support**

Seamless delivery of presentations for multiple users by way of simple Connect/Disconnect button.

- **No Need for Wireless Access Point**

- Presenter's PC can directly connect wirelessly to gateway.
- Groups can conduct presentations at hotels or public places where no network infrastructure is available.

The wireless presentation gateways allow business users to connect a projector screen with confidence and enjoy a new presentation experience. Presenters can connect wirelessly to a projector or monitor to display presentations, applications, and images from several notebooks or desktops without connecting additional bulky wires. With just a few clicks users can begin their presentation in style and impress clients. These gateways reduce the amount of downtime in meetings associated with multiple presenters and let everybody enjoy a productive presentation experience.

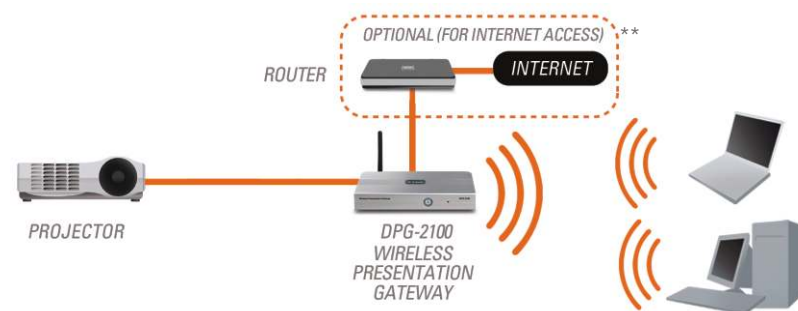


**DPG-2100**

#### Wireless Presentation Gateway

- ◆ Supports VGA, DVI-D Monitor Outputs
- ◆ Up to XGA (1024 x 768) Monitor Resolution
- ◆ Audio Output
- ◆ Integrated 802.11g Wireless LAN
- ◆ Multiple Connections From 10 Presenters \*
- ◆ Internet Connection Access \*\*
- ◆ Compact Size for Easy Placement
- ◆ Supports Windows XP

\* One connection at a time.  
\*\* For currently connected user only.



## Home/Office Wireless 108 G

### Features & Benefits

- **Up to 108Mbps Data Transfer Rate**

- 108Mbps Turbo mode speed when operating with other Wireless 108 G or 108 AG devices.
- High bandwidth for wireless transfer of Internet surfing, file download, multimedia, voice and video.

- **Compatible With 802.11b/g Devices**

- Seamless integration with earlier standard 801.11b wireless devices and Wireless G devices.
- Preservation of past investments in earlier standard wireless hardware and applications.

- **64/128/152-Bit WEP Data Encryption**

Protection of wireless data traveling in the air that are sent by users.

- **WPA EAP/PSK, WPA2 EAP/PSK With TKIP, AES Support**

- Wireless LAN security including data encryption keys and user authentication for network access.
- Keeps out intruders located next door, upstairs or downstairs.
- Advanced encryption and security schemes for business environments.



The Wireless 108 G complies with the 802.11g wireless LAN standard but offers throughput 15 times faster 802.11b devices and supports data transfer rates of up to 108Mbps (Turbo mode). Operating in the 2.4GHz frequency band, Wireless 108 G is ideal for home and office users implementing high-bandwidth applications such as audio/video streaming, on-line gaming and large file transfer over the wireless network. With high data transfer rates and compatibility with other 2.4GHz WLAN, Wireless 108 G is the ideal upgrade solution to a fast technology that also protects users' past investments in hardware.



**DWL-G132**

#### Wireless 108 G USB Adapter

- ◆ USB Extension Cable & Cradle Provided
- ◆ Supports Windows OS



**DWA-120**

#### Wireless 108 G USB Adapter

- ◆ USB Extension Cable & Cradle Provided
- ◆ Supports Windows OS

- **WDS Wireless Bridge**

This operation mode allows an AP to act as a wireless hub and a wireless bridge at the same time.

- **Windows Vista Support**

Can operate in the latest Windows Vista environment.



**DWL-G650**

#### Wireless 108 G CardBus Adapter

- ◆ 32-Bit Bus Interface to PC
- ◆ Supports Windows, Linux



**DWA-620**

#### Wireless 108 G CardBus Adapter

- ◆ 32-Bit Bus Interface to PC
- ◆ Supports Windows, Linux



**DWL-G680**

#### Wireless 108 G CardBus Adapter

- ◆ Dual High Gain Multi-Path Antennas
- ◆ Extended Wireless Operation Range
- ◆ Supports Windows OS

## Home/Office Wireless 108 G



### DWL-G520

#### Wireless 108 G PCI Adapter

- ◆ For Desktop PC
- ◆ Supports Windows, Linux



### DWA-520

#### Wireless 108 G PCI Adapter

- ◆ For Desktop PC
- ◆ Supports Windows, Linux



### DWL-G550

#### Wireless 108 G PCI Adapter

- ◆ 5dBi High Gain Multi-Path Antenna
- ◆ Extended Wireless Operation Range
- ◆ Supports Windows OS



### DWL-G810

#### Ethernet to Wireless 108 G Bridge

- ◆ Wireless Connection for PS2, Xbox, GameCube Console Through Ethernet Port
- ◆ OS-Independent, Operates in Any Environment



### DAP-1250

#### Wireless 108 G Access Point

- ◆ Operable as AP Client, AP (Wireless Connectivity for Computers), WDS (Wireless Bridge) or WDS With AP
- ◆ AP Grouping (Load Balancing)
- ◆ STA Partitioning, 802.1Q VLAN, Multiple SSID
- ◆ WMM (Wireless QoS)
- ◆ SNMP Manageable
- ◆ For Indoors Use



### DWL-2100AP

#### Wireless 108 G Access Point

- ◆ Operable as AP (Wireless Connectivity for Computers), WDS (Wireless Bridge), WDS With AP or Repeater (Signal Range Extension)
- ◆ AP Grouping (Load Balancing)
- ◆ STA Partitioning, 802.1Q VLAN, Multiple SSID
- ◆ WMM (Wireless QoS)
- ◆ SNMP Manageable
- ◆ For Indoors Use



### DI-624

#### Wireless 108 G 4-Port Router

- ◆ MAC-Based Access Control
- ◆ Domain/URL Filtering Parental Control
- ◆ Firewall: DoS Prevention, SPI, Intrusion Detection, Event Log
- ◆ 4 10/100BASE-TX Ethernet LAN Ports



### DI-624S

#### Wireless 108 G Storage Router

- ◆ Allows Creation of Personal Web Server
- ◆ Multiple Functions: Files/Storage Sharing, FTP Server, Printer Sharing, UPnP Audio/Video Server
- ◆ Firewall: DoS Prevention, SPI, Intrusion Detection, Event Log
- ◆ QoS Traffic Prioritization
- ◆ 2 USB 2.0 Ports for Hard Disks/Printer Connection
- ◆ 4 10/100BASE-TX Ethernet LAN Ports

## Business Class

### Features & Benefits

- **Up to 108Mbps Data Transfer Rate**

- 108Mbps Turbo mode wireless speed when operating with other 108 G or 108 AG devices.
- High bandwidth for wireless transfer of Internet surfing, file download, multimedia, voice and video.

- **64/128/152-Bit WEP Data Encryption**

- Protection of wireless data traveling in the air that are sent by users.

- **WPA EAP/PSK, WPA2 EAP/PSK With TKIP, AES Support**

- Wireless LAN security including data encryption keys and user authentication for network access.
- Keeps out intruders located next door, upstairs or downstairs.
- Advanced encryption and security schemes for business environments.

- **Windows Vista Support**

- Can operate in the latest Windows Vista environment.



D-Link's AirPremier offers business-level tools for creating wireless local networks in offices, factories and hot spots, and for connecting existing networks between buildings. Designed for business use, AirPremier offers functionalities such as consistent wireless connectivity, comprehensive network control, and secure user authentication. AirPremier adapters are equipped with high Gain antennas for wireless access within a wide operating range. AirPremier access points have rugged housing and Power over Ethernet (PoE) for installation on rooftops and other exterior locations where power outlets are not available.



### DWL-3200AP

#### Wireless 108 G Access Point

- ◆ 802.3af PoE Support, Plenum-Rated Housing
- ◆ Dual 5dBi Gain Antennas
- ◆ Operable in AP, WDS or WDS With AP Mode
- ◆ Multiple SSID/VLAN, 802.1Q VLAN Tagging
- ◆ Rouge AP Detection, WMM for QoS
- ◆ SNMP Management Through D-View
- ◆ For Indoors Use



### DWL-2700AP

#### Wireless G Outdoors Access Point

- ◆ Dual 5dBi High Gain Antennas
- ◆ Power over Ethernet (PoE)
- ◆ Plenum-Rated Housing
- ◆ Operable in AP, WDS or WDS With AP Mode
- ◆ Up to 54Mbps Wireless Speed
- ◆ 8 SSID, 802.1Q VLAN Security
- ◆ AP Grouping for Bandwidth Enhancement
- ◆ SNMP Manageable



### DWL-3260AP

#### Wireless 108 G Access Point

- ◆ 802.3af PoE Support
- ◆ Smoke Detector Shape, Ceiling Mounting
- ◆ Integrated Antenna, Connector for Optional External Antenna
- ◆ Operable in AP, WDS or WDS With AP Mode
- ◆ Multiple SSID/VLAN, 802.1Q VLAN Tagging
- ◆ Rouge AP Detection, AP Grouping (Load Balancing)
- ◆ WMM for QoS
- ◆ SNMP Management Through D-View

## Business-Class Wireless 108 AG

### Features & Benefits

#### • Dualband Operation

- Simultaneous operation in 802.11b/g 2.4GHz and 802.11a 5GHz frequency bands.
- More wireless bandwidth available for use.
- Network can be segmented according to frequency band.

#### • Up to 108Mbps Data Transfer Rate

- 108Mbps Turbo mode wireless speed when operating with other 108 G or 108 AG devices.<sup>1</sup>
- High bandwidth for wireless transfer of Internet surfing, file download, multimedia, voice and video.

#### • 64/128/152-Bit WEP Data Encryption

Protection of wireless data traveling in the air that are sent by users.

#### • WPA EAP/PSK, WPA2 EAP/PSK With TKIP, AES Support

- Wireless LAN security including data encryption keys and user authentication for network access.
- Keeps out intruders located next door, upstairs or downstairs.
- Advanced encryption and security schemes for business environments.

#### Windows Vista Support

Can operate in the latest Windows Vista environment.



AirPremier AG employs 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. AirPremier AG offers data transfer rates of up to 108Mbps Turbo Mode in either the 2.4GHz or 5GHz bands.<sup>1</sup> Hundreds of wireless clients can connect to this network, using any one of its non-overlapping channels.

Through the user access control function in 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, for example, use the 802.11a channels, while other employees may 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.



#### DWL-AG132

##### Wireless 108 AG USB Adapter

- ◆ USB Extension Cable & Cradle Provided
- ◆ Supports Windows OS



#### DWL-AG660

##### Wireless 108 AG CardBus Adapter

- ◆ 32-Bit Bus Interface to PC
- ◆ Supports Windows, Linux



#### DWL-AG530

##### Wireless 108 AG PCI Adapter

- ◆ For Desktop PC
- ◆ Supports Windows, Linux



#### DI-784

##### Wireless 108 AG 4-Port Router

- ◆ DoS Prevention, SPI, Intrusion Detection, Event Log
- ◆ MAC-Based Access Control
- ◆ Domain/URL Filtering Parental Control
- ◆ 4 10/100BASE-TX Ethernet LAN Ports



#### DWL-7100AP

##### Wireless 108 AG Access Point

- ◆ Operable in AP, WDS, WDS With AP, or Repeater Mode<sup>2</sup>
- ◆ WLAN STA Partitioning
- ◆ SNMP Manageable
- ◆ Indoors Use



#### DWL-7700AP

##### Wireless AG Outdoors Access Point

- ◆ Up to 54Mbps Wireless Speed
- ◆ Dual 5dBi Gain Antennas
- ◆ 802.3af Power Over Ethernet (PoE) (PoE Base Unit Provided)
- ◆ Plenum-Rated Housing
- ◆ Operable in AP, WDS or WDS With AP Mode
- ◆ Multiple SSID, 802.1Q VLAN, WLAN STA Partitioning
- ◆ SNMP Manageable



#### DWL-8200AP

##### Wireless 108 AG Access Point

- ◆ Plenum-Rated Housing
- ◆ Dual 10/100BASE-TX Ethernet Ports (One Port With 802.3af PoE)
- ◆ Dual Ethernet Ports With Separate SSID Can Simultaneously Connect to Wired Network
- ◆ Dual High Gain Antennas
- ◆ 802.1Q VLAN
- ◆ Operable in AP, WDS or WDS With AP Mode
- ◆ SNMP Management Through D-View
- ◆ Indoors Use

<sup>1</sup> 108Mbps Turbo mode operation on 5GHz frequency band not allowed in EU countries.

<sup>2</sup> WDS and repeater modes on 5GHz frequency band not allowed in EU countries.

## Wireless N, RangeBooster N, RangeBooster N 650

### Features & Benefits

#### • Draft 802.11n WLAN Specifications

Latest high-performance wireless technology.

#### • Superior Wireless Speed

- Data transfer rates up to 650% faster than the current 802.11g wireless devices (RangeBooster N 650), or up to 300Mbps (RangeBooster N).  
- Suitable for Internet DHTV, streaming video, online games, voice, and MP3 music.

#### • Superior Signal Coverage

Wireless operation range up to 5 times (RangeBooster N 650) or 4 times (RangeBooster N) farther than the current 802.11g devices, enables reception from greater distances.

#### • Compatible With 802.11b/g

Seamless integration with current and earlier standard wireless devices.

#### • 64/128-Bit WEP Data Encryption

Protection of wireless data traveling in the air that are sent by the users.

#### • WPA EAP/PSK, WPA2 EAP/PSK With TKIP, AES Support

- Wireless LAN security including data encryption keys and user authentication for network access.  
- Keeps out intruders located next door, upstairs or downstairs.  
- Advanced encryption and security schemes for business environments.

#### • Windows Vista Support

Operate in Windows 2000, XP and the latest Windows Vista environment.

**RANGEBOOSTER N™ 650**  
**RANGEBOOSTER N™**

RangeBooster N 650 uses the draft 802.11n specifications and 3 x 3 or 2 x 3 antenna design to deliver real world performance of up to 650% faster than an 802.11g wireless connection. Users can connect a RangeBooster N 650 router to a cable or DSL modem to create a secure wireless network to share photos, files, music, video, printers, and network storage throughout a home or office. With a built-in award-winning QoS Engine RangeBooster N 650 provides a better Internet experience by keeping digital phone calls (VoIP) and online gaming smooth and responsive.

Wireless N and RangeBooster N also employ the draft 802.11n specifications, but use the 2 x 2 antenna design to deliver up to 300Mbps data transfer rate and a signal range up to four times farther than 802.11g.



#### DWA-645

##### RangeBooster N 650 CardBus Adapter

- ◆ Up to 650% Faster, 5 Times Farther Than 802.11g
- ◆ 2 Reception Antennas, 3 Transmission Antennas to Boost Signal Strength
- ◆ Supports Windows



#### DWA-547

##### RangeBooster N 650 PCI Adapter

- ◆ Up to 650% Faster, 5 Times Farther Than 802.11g
- ◆ 3 Dipole Antennas to Boost Signal Strength
- ◆ Supports Windows



#### DAP-1353

##### RangeBooster N 650 Access Point

- ◆ Up to 650% Faster, 5 Times Farther Than 802.11g
- ◆ 3 Dipole Antennas to Boost Signal Strength



#### DIR-635

##### RangeBooster N 650 Router

- ◆ Up to 650% Faster, 5 Times Farther Than 802.11g
- ◆ MAC/IP-Based Access Control
- ◆ Domain/URL Filtering, Scheduling
- ◆ Parental Control, SPI Firewall
- ◆ 4 10/100BASE-TX Ethernet LAN Ports
- ◆ USB Port for Windows Connect Now (WCN) Setup



#### DWA-642

##### RangeBooster N CardBus Adapter

- ◆ 2 Integrated Antennas to Boost Signal Strength
- ◆ Supports Windows



#### DWA-542

##### RangeBooster N PCI Adapter

- ◆ 2 Dipole Antennas to Boost Signal Strength
- ◆ Supports Windows

## 2.4GHz / 5GHz Antenna

Antenna	ANT24-1800	ANT24-1801	ANT24-2100	ANT70-0800	ANT70-0801	ANT70-1000	ANT70-1800
Frequency	2.4GHz	2.4GHz	2.4GHz	2.4GHz/5GHz	2.4GHz/5GHz	2.4GHz/5GHz	2.4GHz/5GHz
Signal Directivity	Directional	Directional	Directional	Omni-Directional	Omni-Directional	Directional	Directional
Application Range	Outdoor	Outdoor	Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Outdoor
Gain (Without Cable Loss)	18dBi	18dBi	21dBi	2.4GHz: 8dBi 5GHz: 8dBi	2.4GHz: 8dBi 5GHz: 8dBi	2.4GHz: 8dBi 5GHz: 10dBi	2.4GHz: 14dBi 5GHz: 18dBi
Approximate Range at 1/11/54Mbps (Using Indoor AP)	-	-	-	2.4GHz: 700 m/350 m/100 m 5GHz: 1 km/500 m/200 m	2.4GHz: 700 m/350 m/100 m 5GHz: 1 km/500 m/200 m	2.4GHz: 800 m/400 m/150 m 5GHz: 1.2 km/600 m/250 m	-
Approximate Range at 1/11/54Mbps (Using Outdoor AP)	8 km/ 6 km/ 1.5 m	8 km/ 6 km/ 1.5 km	12 km/ 9 km/ 2.5 m	2.4GHz: 800 m/450 m/150 m 5GHz: 1 km/500 m/200 m	2.4GHz: 800 m/450 m/150 m 5GHz: 1 km/500 m/200 m	2.4GHz: 1k m/500 m/200 m 5GHz: 1.5 km/700 m/300 m	2.4GHz: 6 km/4.5 km/1 km 5GHz: 8 km/5 km/1.5 km
Half Power Beam Width	H 15 V 15	H 15 V 15	H 5 V 8	2.4GHz: H 360 V 15 5GHz: H 360 V 15	2.4GHz: H 360 V 15 5GHz: H 360 V 15	2.4GHz: H 58 V 55 5GHz: H 45 V 45	2.4GHz: H 30 V 30 5GHz: H 15 V 15
Pigtail Cable Length	-	-	-	-	-	-	-
Antenna Fixed Connector	N-Jack	N-Jack	N-Jack	N-Jack	N-Jack	N-Jack	N-Jack
Surge Protector for Outdoor	Included	Included	Included	Included	Included	Included	Included
Default Extension Cable Length	50 cm	50 cm	3 m	50 cm	50 cm	50 cm	50 cm
Default Mounting Configuration	Wall/Pole	Pole	Pole	Pole	Pole	Pole	Pole
Optional Accessory	-	-	-	-	-	-	-
Optional Antenna Cable Kit	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series

#### Notes:

1. Extended range reference based on RF-output power 17dBm (indoor AP), 23dBm (outdoor AP) with default cable loss.
  2. Transmission distance range based on two antennas of the same specs with default cable loss.
  3. Effective range based on EIRP (Effective Isotropic Radiation Power = device output power + antenna gain - cable loss).
- HPBW: Half Power Beam Width, H: horizontal plane pattern, V: vertical plane pattern  
Actual range subject to change due to users' physical environment. All figures are for reference only.



#### DWA-130

##### Wireless N USB Adapter

- ◆ 2 Integrated Antennas to Boost Signal Strength
- ◆ Supports Windows



#### DWA-140

##### RangeBooster N USB Adapter

- ◆ 2 Integrated Antennas to Boost Signal Strength
- ◆ Supports Windows



#### DWA-142

##### RangeBooster N USB Adapter

- ◆ 500% Faster Than 802.11g
- ◆ 2 Integrated Antennas to Boost Signal Strength
- ◆ Supports Windows

## Xtreme N

### Features & Benefits

- Draft 802.11n WLAN Specifications**  
 Latest high-performance wireless technology.
- Superior Wireless Speed**  
 Fastest wireless data transfer rate, suitable for Internet DHTV, streaming video, online games, voice, and MP3 music.
- Superior Signal Coverage Range**  
 Wireless operation range many times farther than the current 802.11g devices, enables reception from greater distances.
- Compatible With 802.11b/g Devices**  
 Seamless integration with current and earlier standard wireless devices.
- Encryption**  
 Protection of wireless data traveling in the air that are sent by the users.
- WPA EAP/PSK, WPA2 EAP/PSK With TKIP, AES Support**  
 - Wireless LAN security including data encryption keys and user authentication for network access.  
 - Keeps out intruders located next door, upstairs or downstairs.  
 - Advanced encryption and security schemes for business environments.
- Windows Vista Support**  
 Operate in Windows 2000, XP and the latest Windows Vista environment.

Xtreme N is the top of the D-Link wireless product range. It uses the draft 802.11n specifications and 3 x 3 antenna designs to deliver the fastest real world wireless performance, and an operation range many times farther than 802.11g. Users can connect an Xtreme N router to a cable or DSL modem to create a fast, secure wireless network to share photos, files, music, video, printers, and network storage throughout a home or office. With a built-in award-winning QoS Engine, Xtreme N provides an outstanding Internet experience by keeping digital phone calls (VoIP) and online gaming smooth and responsive.



#### DIR-655 Xtreme N Gigabit Router

- ◆ High-Performance CPU
- ◆ Gigabit WAN Port, 4 Gigabit LAN Ports
- ◆ 3 Dipole Antennas to Boost Signal Strength
- ◆ WMM & StreamEngine Intelligent QoS Technology
- ◆ MAC/IP-Based Access Control
- ◆ Domain/URL Filtering, Scheduling Parental Control
- ◆ SPI Firewall
- ◆ USB Port for Windows Connect Now (WCN) Setup



#### DIR-855 Xtreme N Dual Band Gigabit Router

- ◆ 2.4GHz and 5GHz Dual Band Operation
- ◆ All Other Functions Same as DIR-655
- ◆ Supports Windows



#### DWA-652 Xtreme N CardBus Adapter

- ◆ Multiple Reception and Transmission Antennas to Boost Signal Strength
- ◆ Supports Windows



#### DWA-643 Xtreme N ExpressCard Adapter

- ◆ Multiple Reception and Transmission Antennas to Boost Signal Strength
- ◆ Supports Windows



#### DWA-552 Xtreme N PCI Adapter

- ◆ 3 Dipole Antennas to Boost Signal Strength
- ◆ Supports Windows

## Antenna Cable Kits

Access Point	Product Number	Jumper Cable	Surge Arrestor	Low Loss Cable	Overall System Loss	Application
	ANT24-ODU03M	-	-	LMR200 0.3M	0.6dB	
	ANT24-ODU1M	-	-	LMR400 1M	0.6dB	
	ANT24-ODU3M	-	-	LMR400 3M	1.0dB	
	ANT24-DLK3M			LMR400 3M	2.0dB	

## 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:



#### DWA-556 Xtreme N PCIe Express Adapter

- ◆ 3 Dipole Antennas to Boost Signal Strength
- ◆ Supports Windows

## 2.4GHz Antenna

Antenna	ANT24-0401	ANT24-0500	ANT24-0501	ANT24-0501C	ANT24-0600	DWL-R60AT	ANT24-0700
							
<b>Frequency</b>	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz
<b>Signal Directivity</b>	Omni-Directional	Omni-Directional	Omni-Directional	Omni-Directional	Directional	Directional	Omni-Directional
<b>Application Range</b>	Indoor Ceiling	Indoor/Outdoor	Indoor	Indoor	Indoor	Indoor	Indoor
<b>Gain (Without Cable Loss)</b>	3.5dBi	5dBi	5dBi	5dBi	6dBi	6dBi	7dBi
<b>Approximate Range at 1/11/54Mbps (Using Indoor AP)</b>	250 m/100 m/40 m	500 m/ 250 m/60 m	500 m/ 200 m/50 m	500 m/ 200 m/60 m	600 m/350 m/ 80 m	600 m/350 m/ 80 m	500 m/ 250 m/60 m
<b>Approximate Range at 1/11/54Mbps (Using Outdoor AP)</b>	-	1.5 km/ 1.3 km/ 200 m	-	-	-	-	-
<b>Half Power Beam Width</b>	H 360 V 120	H 360 V 32	H 360 V 36	H 360 V 36	H 68 V 80	H 70 V 85	H 360 V 24
<b>Pigtail Cable Length</b>	-	30 cm	150 cm	-	150 cm	-	150 cm
<b>Antenna Fixed Connector</b>	SMA Jack	N-Jack	RP-SMA Plug	RP-SMA Plug	RP-SMA Plug	RP-SMA Plug	RP-SMA Plug
<b>Surge Protector for Outdoor</b>	-	Optional	-	-	-	-	-
<b>Default Extension Cable Length</b>	2 m	3 m	-	-	-	-	-
<b>Default Mounting Configuration</b>	Ceiling	Pole	Wall/Desktop/Magnetic	Attached to AP/Router	Wall/Desktop/Magnetic	Attached to AP/Router	Wall/Desktop/Magnetic
<b>Optional Accessory</b>	-	ANT24-SP	-	-	-	-	-
<b>Optional Antenna Cable Kit</b>	-	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	-	-	-	-	-

**Notes:**

1. Extended range reference based on RF-output power 17dBm (indoor AP), 23dBm (outdoor AP) with default cable loss.
  2. Transmission distance range based on two antennas of the same specs with default cable loss.
  3. Effective range based on EIRP (Effective Isotropic Radiation Power = device output power + antenna gain - cable loss).
- HPBW: Half Power Beam Width, H: horizontal plane pattern, V: vertical plane pattern  
Actual range subject to change due to users' physical environment. All figures are for reference only.

## 2.4GHz Antenna

ANT24-0700C	ANT24-0800	ANT24-0801	ANT24-1200	ANT24-1201	ANT24-1400	ANT24-1500	ANT24-0230
							
2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz	2.4GHz *
Omni-Directional	Directional	Directional	Directional	Directional	Directional	Omni-Directional	Omni-Directional
Indoor	Indoor/Outdoor	Indoor/Outdoor	Indoor	Outdoor	Outdoor	Outdoor	Indoor
7dBi	8dBi	8.5dBi	12dBi	12dBi	14dBi	15dBi	1.8dBi
600 m/300 m/70 m	700 m/ 350 m/100 m	800 m/ 500 m/150 m	1.5 m/ 1.2 m/500 m	-	-	-	500 m/400 m/200 m/ 100 m/5 m **
-	2 km/ 1 km/ 400 m	2.5 km/ 1.5 km/ 600 m	-	3 km/ 2.5 km/ 1 Km	6 km/ 4.5 km/ 1 Km	4 km/ 2.5 km/ 500 m	-
H 360 V 24	H 360 V 15	H 70 V 65	H 80 V 23	H 50 V 50	H 30 V 30	H 360 V 8	H 360 V 70
150cm	-	30cm	-	30 cm	30 cm	-	1.2 m
RP-SMA Plug	N-Jack	N-Jack	SMA Jack	N-Jack	N-Jack	N-Jack	PR-SMA Plug
-	Included	Included	-	Included	Included	Included	-
-	50 cm	3 m	3 m	50 cm	50 cm	3 m	-
Attached to AP/Router	Pole	Wall/Pole	Window/Wall	Wall/Pole	Wall/Pole	Pole	Desktop
-	-	-	-	-	-	-	-
-	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	-	-	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	ANT24-CB Series ANT24-ODU Series ANT24-DLK Series	-

\* Use with 802.11n draft wireless AP, router or adapter

\*\* Approximate range at 1/11/54/108/270Mbps

## Unified Access Wired/Wireless Switching

### Features & Benefits

- **Centralized Management**

Consistent user authentication and security policies. Easy identification of failed AP, easy swapping with new AP.

- **Pre-Set Configuration**

Security can be pre-set and RF channels auto-adjusted for each AP. When an AP is removed or added, switch automatically configures new AP with same configuration of replaced unit. Sensitive information not locally stored at the AP.

- **Comprehensive Security**

WEP, WPA/WPA2 data encryption, 802.1Q VLAN, up to 8 SSID per wireless frequency band.

- **Tracking/Maintenance of User Authentication**

Continuous connection for each wireless user, better network security.

- **Fast Roaming**

Wireless signals roamed not only across to AP connected to same switch, but also across AP connected to different switches, using inter-switch roaming.

- **Easy Deployment**

All switch ports support 802.3af PoE. AP supports 802.3af PoE, can be installed on high walls or ceilings away from AC power outlets. Switch's rack-mount design allows it to be hidden in equipment rack.

D-Link's wireless switching - an innovative evolution in wireless LAN - is designed to simplify installation and enhance the effectiveness of a medium-sized or large Wi-Fi network. It allows businesses to install a high-performance, secure, manageable and scalable unified wired/wireless network.

Wireless switching consists of one or multiple switches, and multiple wireless access points (AP). The switches are core units that consolidate the security, manage the bandwidth and maintain the intelligence of the entire wireless network. In addition to monitoring users' identities and maintaining their authentication as they roam, these switches can configure and control all aspects of the AP, including: RF channel and power management, wireless traffic segmentation, AP roaming and load balancing, rogue AP detection and AP access security. The AP can be dispersed throughout a site and directly attached to these switches, or indirectly connected through any Ethernet switch.

Traffic from wireless users is roamed not only across to the access points, but also among the peer wireless switches. In addition to intra-switch roaming, roaming across different subnets is also supported for secure wireless connection across multiple departments in a large enterprise. As roaming is through the Ethernet cable at the fast Gigabit speed, traffic bottlenecks are minimized and overall network performance is enhanced.

The AP, no matter where installed, are automatically discovered and centrally managed. As users move around the wireless network, all data information, translation, authentication paths and user tracking are executed on the switch end to provide network administrators with a consolidated and secure wireless system.

- **Gigabit Connection**

Fast signal roaming across AP at Gigabit speed. More difficult for thieves to intercept when signals are roamed via Ethernet cables.

- **Converged LAN/WLAN Deployment**

No restriction on port usage. Any switch port can be used for wired or wireless purposes.

- **Scalable Expansion**

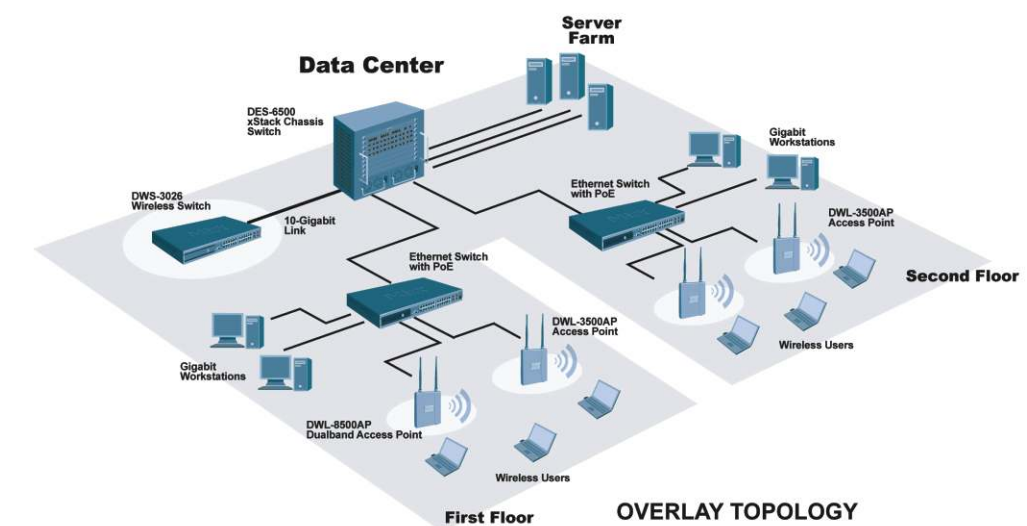
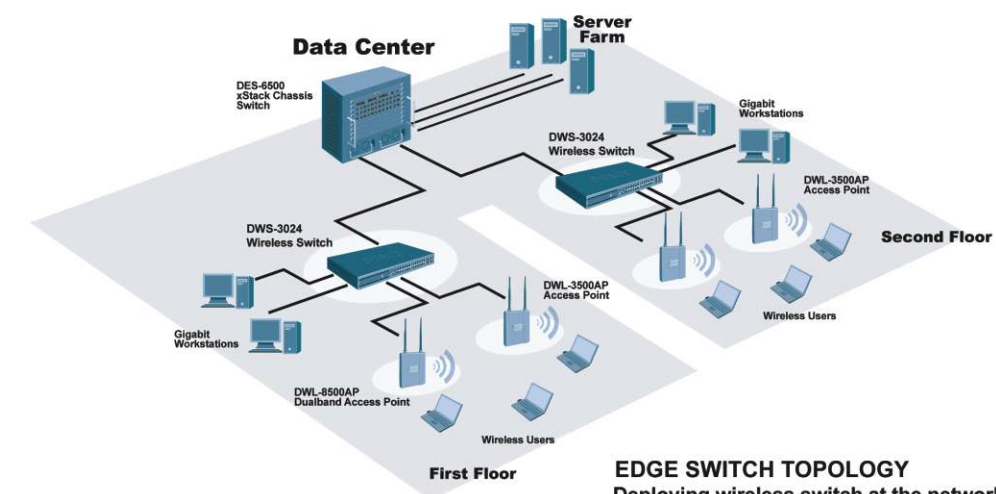
Each switch can manage up to 48 AP. Up to 4 switches can be gradually added in a peer-to-peer configuration as more AP are deployed.

- **Rogue AP Detection**

Identification of intruding AP for administrators to take proper actions.

- **Flexible Deployment**

In a unified LAN/WLAN deployment, D-Link's wireless switching architecture allows the switches to be placed deep inside an existing wired network, say in a data center, to protect current investments in infrastructure. Wireless traffic is tunneled to the switches for centralized data forwarding decision. An alternative would be to put the switches at the network edge for minimized users' distance from the AP, flexible scalability and distributed peer-to-peer WLAN switching.





## DWS-1008 8-Port Wireless Switch

- ◆ 8 Ethernet Ports (6 Ports With PoE)
- ◆ Can Manage Up to 8 DWL-8220AP Access Points



## DES-1228P 24-Port PoE Ethernet Switch

- ◆ 24 PoE 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP for Uplink to LAN
- ◆ 2 10/100/1000BASE-T Ports
- ◆ Can Manage Up to 24 DWL-3140AP Access Points



## DWL-3500AP Wireless G Access Point

- ◆ 802.11g 2.4GHz WLAN Standard
- ◆ Up to 108Mbps Wireless Speed
- ◆ Plenum-Rated Housing With PoE Support
- ◆ Dual 5dBi Gain Antennas
- ◆ WMM for QoS
- ◆ Connects Directly to DWS-3024/3026 Wireless Switch or Indirectly Through LAN Switch



## DWS-3024 24-Port Wireless Switch

- ◆ 24 PoE Gigabit Ports
- ◆ 4 Combo SFP for Fiber Uplink to LAN
- ◆ Can Manage Up to 48 DWL-3500AP/8500AP Access Points
- ◆ Expandable to 4 Peer DWS-3024/3026 Wireless Switches
- ◆ Optional Redundant Power Supply
- ◆ SNMP Manageable



## DEM-410X 1-Port 10-Gigabit Module

- ◆ 1 XFP Slot
- ◆ For Use With DWS-3026 Switch



## DWL-8220AP Wireless AG Access Point

- ◆ 802.11a/g 2.4GHz/5GHz Dual Band Operation
- ◆ Connects to/Managed by DWS-1008 Wireless Switch
- ◆ PoE Support
- ◆ Device Shape Resembles Smoke Detector, Ideal for Concealment on Ceiling



## DWL-3140AP Wireless G Access Point

- ◆ 802.11g 2.4GHz WLAN Standard
- ◆ Up to 108Mbps Wireless Speed
- ◆ PoE, WMM Support
- ◆ Connects to/Managed by DES-1228P Switch
- ◆ Low Profile ID, True Omni-Antenna Design
- ◆ Smoke Detector Shape, Ceiling Mounting



## DWL-8500AP Wireless AG Access Point

- ◆ 802.11a/g 2.4GHz/5GHz Dual Band Operation
- ◆ Up to 108Mbps Wireless Speed<sup>1</sup>
- ◆ Plenum-Rated Housing With PoE Support
- ◆ Dual High Gain Antennas
- ◆ WMM for QoS
- ◆ Connects Directly to DWS-3024/3026 Wireless Switch or Indirectly Through LAN Switch



## DWS-3026 24-Port Wireless Switch

- ◆ 2 Open Slots for 10-Gigabit Uplinks to LAN Backbone/Servers
- ◆ Can Manage Up to 48 DWL-3500AP/8500AP Access Points
- ◆ All Other Functions Same as DWS-3024



## DEM-410CX 1-Port 10-Gigabit Module

- ◆ 1 CX4 Port
- ◆ For Use With DWS-3026 Switch

<sup>1</sup> 108Mbps Turbo mode operation on 5GHz frequency band not allowed in EU countries.



## Residential Gateway

### Features & Benefits

- **Internet Sharing for Home/SOHO**
- **10/100BASE-TX Ethernet Connection to DSL/Cable Modem**
- **Multiple 10/100BASE-TX Ethernet Ports for Computer Connection**
- **MAC/IP Address-Based User Access Control**
- **SPI Firewall, DoS Attack Prevention**
- **URL Filtering, Domain Blocking, Scheduling Parental Control**

These broadband routers are affordable gateways that connect to DSL or cable modems for sharing of Internet connection among a group of home or office computers. Combining basic Internet gateway functions with firewall protection and user access control, they offer homes and small offices a cost-effective way to install a secure Internet link to the outside world.



**DI-604**  
4-Port Router

- ◆ 1 Ethernet WAN Port, 4 Ethernet LAN Ports



**DIR-100**  
4-Port Router

- ◆ 1 Ethernet WAN Port, 4 Ethernet LAN Ports
- ◆ IGMP, QoS for VoIP Traffic, On-Line Games



**DI-604UP**  
4-Port Router With USB Printer Port

- ◆ 1 Ethernet WAN Port, 4 Ethernet LAN Ports
- ◆ USB Port for Printer Connection
- ◆ Printer Sharing Supports Windows, Mac OS, Unix LPR



**DIR-120**  
4-Port Router With USB Printer Port

- ◆ 1 Ethernet WAN Port, 4 Ethernet LAN Ports
- ◆ USB Port for Printer Connection
- ◆ Printer Sharing Supports Windows, Mac OS, Unix LPR
- ◆ IGMP, QoS for VoIP Traffic, On-Line Games



**DI-704P**  
4-Port Router With Parallel Printer Port

- ◆ 1 Ethernet WAN Port, 4 Ethernet LAN Ports
- ◆ Parallel Printer Port
- ◆ Printer Sharing Supports Windows, Mac OS, Linux



**DI-707P**  
7-Port Router With Parallel Printer Port

- ◆ 1 Ethernet WAN Port, 7 Ethernet LAN Ports
- ◆ Parallel Printer Port
- ◆ Printer Sharing Supports Windows, Mac OS, Linux

## Office Router

### Features & Benefits

- **Internet Sharing for Office**
- **10/100BASE-TX Ethernet Connection to DSL/Cable Modem**
- **Multiple 10/100/1000BASE-T Gigabit LAN Ports**
- **Powerful CPU & QoS Engine for High Performance**
- **USB Printer Sharing**
- **User Access Control**
- **Policy-Based Scheduling**
- **SPI Firewall Protection**
- **QoS/User-Customizable Policies for VoIP, Multimedia Applications**

The office routers are equipped with powerful CPU and Gigabit ports for better performance. They can be connected to high-speed ADSL2+ or cable modems to let office users share bottleneck-free Internet connection. High-speed wireless connection of up to 108Mbps is provided. These routers provide built-in print server function for office printer sharing, high-performance QoS engines and user-customizable policies for bandwidth-sensitive applications like VoIP communication, plus firewall and user access control for network protection.



**DI-704GU**  
4-Port Office Router

- ◆ 4 Gigabit LAN Ports
- ◆ USB 2.0 Printer Port
- ◆ Printer Sharing Supports Windows, Mac OS, Linux



**DI-724GU**  
Wireless 108 G Office Router

- ◆ 4 Gigabit LAN Ports
- ◆ Integrated 802.11g Wireless LAN
- ◆ Up to 108Mbps Wireless Speed
- ◆ Wireless Security: WPA EAP/PSK, WPA2 EAP/PSK, TKIP, AES
- ◆ 64/128-Bit WEP Data Encryption
- ◆ USB 2.0 Printer Port
- ◆ Printer Sharing Supports Windows, Mac OS, Linux

## IPSec VPN Router

### Features & Benefits

#### • Ideal VPN Implementation for SMB

- Securely connects remote offices and remote users using DSL/cable modem Internet access rather than expensive dedicated WAN links or long-distance remote dial links.
- Increases the reach of company network without significantly expanding its infrastructure.

#### • IPSec-Based VPN

- Proven remote access technology used by most organizations today.
- Connections established using VPN client software preinstalled on user desktop, primarily useful on company-managed desktops.

#### • Data Tunnels & Encryption

- High levels of security through IPSec/PPTP/L2TP tunnels, policy-based content filtering (tunnel rule policies) and authentication technologies to protect data from unauthorized access.
- DES/3DES, SHA-1, DM5 multiple encryption algorithms to safeguard data against thieves during transmission over the Internet.

#### • Integrated Routing, QoS, Multicast Functions

Delivers latency-sensitive voice/video, terminal services and other traffic types while preserving

The VPN routers provide IPSec security for Virtual Private Network applications, enabling two Internet-connected remote sites to act as if they were part of a single LAN. Branch offices can deploy these routers to connect to head offices or trusted suppliers. Remote offices can also install these routers to let telecommuters (mobile users working outside of the office or workers sending in e-mail and reports from home) to transfer sensitive information with company networks. Such information can be securely transmitted over the Internet without the fear of being intercepted by thieves.

In a site-to-site connection, two remote routers equipped with IPSec VPN are deployed at each end of the Internet connection. In a telecommuter-to-office connection, the remote user runs a VPN client software program on a PC to connect to the office network installed with a VPN router.

The VPN routers provide VPN IPSec tunnels to remote sites or end-user clients, allowing the remote sites and mobile telecommuters to securely transfer sensitive information with company networks without the fear of being intercepted over the Internet. The routers provide VPN accelerators to perform data encryption/decryption to relieve the loading of the routers' own CPU for execution of other tasks and to enhance the routers' overall performance.

D-Link VPN routers are VPNC-certified, and can connect to any third-party VPNC-certified VPN routers at the remote site. For site-to-remote client connection, D-Link VPN routers work with any VPNC-certified client software. As part of a total solution, D-Link provides VPN Client Software (part number DS-601 and DS-605) for remote users to run on a Windows-based PC.

At affordable prices, D-Link VPN routers can also be deployed at homes, so users working away from home can securely access files and data on their own desktops' hard disks over the Internet from anywhere on the planet.

transport reliability and quality over Internet-based VPN.

#### • Built-in Firewall

- Domain blocking/URL filtering for parental control.
- SPI firewall and DoS attack prevention.
- Event log file and email to notify administrator of unusual events.

#### • VPNC Certified

- Site-to-site connection works with any D-Link or third-party VPNC-certified VPN router.
- Site-to-remote client connection works with D-Link VPN Client software (DS-601/605) or any VPNC-certified client software.



#### DI-804HV

##### 4-Port VPN Router

- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ 4 10/100BASE-TX Ethernet Ports for Computer Connection
- ◆ RS-232 COM Port for Backup ISDN/Analog Modem Connection
- ◆ VPNC Certified



#### DI-808HV

##### 8-Port VPN Router

- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ 8 10/100BASE-TX Ethernet Ports for Computer Connection
- ◆ RS-232 COM Port for Backup ISDN/Analog Modem Connection
- ◆ VPNC Certified



#### DIR-130

##### 8-Port VPN Router

- ◆ Powerful CPU/VPN Accelerator for High VPN Performance
- ◆ AES, HMAC-SHA1, HMAC-MD5 Encryption Support
- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ 8 10/100BASE-TX Ethernet Ports for Computer Connection



#### DI-824VUP

##### Wireless G VPN Router

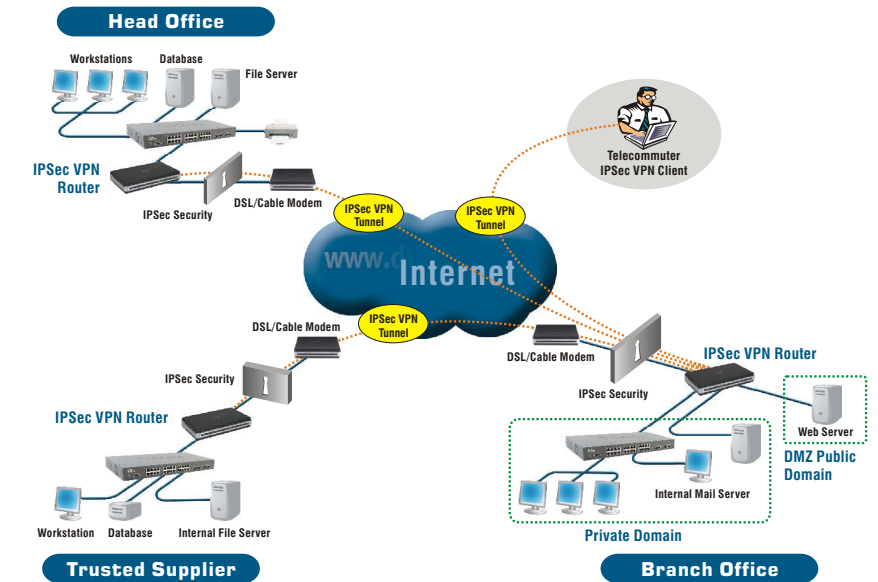
- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ Built-in 802.11g Wireless LAN
- ◆ 4 10/100BASE-TX Ethernet Ports for Computer Connection
- ◆ USB/Parallel Printer Ports
- ◆ Printer Sharing Supports Windows, Mac OS
- ◆ RS-232 COM Port for Backup ISDN/Analog Modem Connection
- ◆ VPNC Certified



#### DIR-330

##### Wireless G VPN Router

- ◆ Powerful CPU/VPN Accelerator for High VPN Performance
- ◆ AES, HMAC-SHA1, HMAC-MD5 Encryption Support
- ◆ Built-in 802.11g Wireless LAN
- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ 4 10/100BASE-TX Ethernet Ports for Computer Connection
- ◆ Easy Setup Using Windows Connect Now Via USB Port



Virtual Private Network IPsec Tunnels for VPN Application

## Cellular Router

### Features & Benefits

- **Wireless Networking on the Go**

Creation of wireless network for co-workers to remote access to office network from remote site. Wireless Internet access for passengers on train, bus or boat.

- **Mobile Video Transmission**

Direct connection of video cameras to high-speed 3G service to upload pictures from a web camera as the car is driven around.

- **Internet Access From 3G Service Subscribers**

Share Internet among home users where DSL or cable broadband wired connection is not available.

- **Emergency/Mobile Applications**

Ideal for mobile users in press media, finance/construction industries, police/emergency rescue teams, impromptu LAN parties at airports, hotels, convention halls.

The 3G mobile routers provide broadband access for mobile workgroups. Instead of connecting to a DSL or cable landline, they use the 3G services of mobile network operators. These cellular routers are ideal for mobile work teams, emergency response units, and corporate commute vehicles that need to provide an Internet connection while on the move. As they are affordable in price, they can also be used by 3G service subscribing consumers to set up hot spots without being tied to a single location. They allow users to access private networks away from the office where a cable or DSL Internet connection is not available.



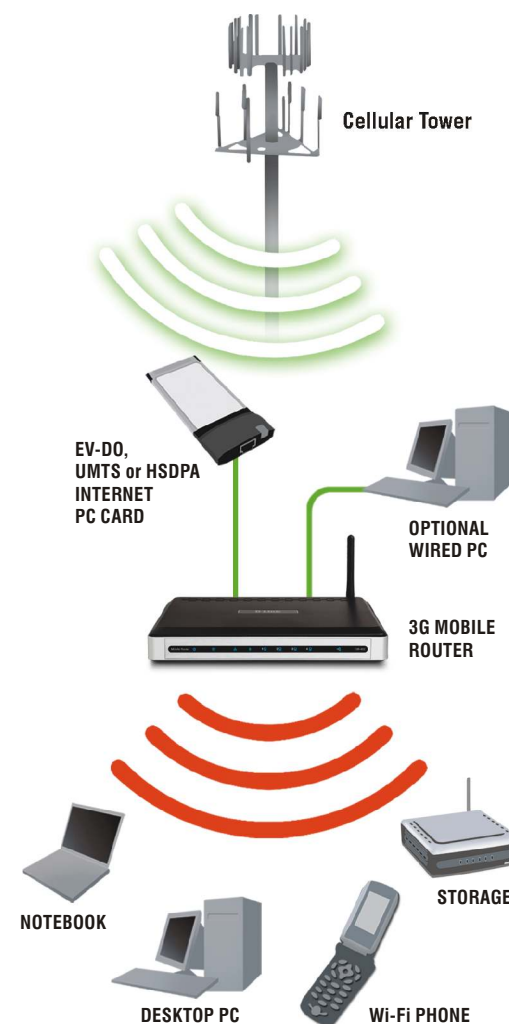
**DIR-450**  
EV-DO 3G Mobile Router

- ◆ 32-Bit CardBus Slot for Insertion of 3G Internet PC Card
- ◆ Compatible With EV-DO Standard Mobile Networks
- ◆ Up to 2.4Mbps Download 153Kbps Upload Internet Speed
- ◆ Integrated 802.11g Wireless LAN (Up to 108Mbps Turbo Speed)
- ◆ 4 10/100BASE-TX Ethernet Ports for Computer Connection
- ◆ USB 2.0 Port for Windows Connect Now (WCN) Setup
- ◆ WPA EAP/PSK, WPA2 EAP/PSK, TKIP, AES, 64/128/152-Bit WEP WLAN Security
- ◆ MAC/IP Address-Based User Access Control
- ◆ SPI Firewall Protection



**DIR-451**  
UMTS/HSDPA 3G Mobile Router

- ◆ 32-Bit CardBus Slot for Insertion of 3G Internet PC Card
- ◆ Compatible With UMTS and HSDPA Standard Mobile Networks
- ◆ UMTS: Up to 2Mbps Download 768Kbps Upload Internet Speed
- ◆ HSDPA: Up to 3.6Mbps Download 384Kbps Upload Internet Speed
- ◆ Integrated 802.11g Wireless LAN (Up to 108Mbps Turbo Speed)
- ◆ 4 10/100BASE-TX Ethernet Ports for Computer Connection
- ◆ USB 2.0 Port for Windows Connect Now (WCN) Setup
- ◆ WPA EAP/PSK, WPA2 EAP/PSK, TKIP, AES, 64/128/152-Bit WEP WLAN Security
- ◆ MAC/IP Address-Based User Access Control
- ◆ SPI Firewall Protection



**3G Mobile Router Connection**

# VPN Client Software

## IPSec VPN Client Connection

### Features & Benefits

- **Secure IPSec Client Internet Connection**
  - Protects Against Thieves for Private Data Traveling On Internet.
  - Connects Remote, Home Users to Office Network.
  - Allows Organizations to Build End-to-End Secure Connectivity for Mobile Employees/Telecommuters.
- **Easy-to-Deploy Windows-Based Software**
  - Standard-Based IPSec Tunneling.
  - Advanced 3DES/AES Data Encryption.
  - Supports All D-Link VPN IPSec Routers & NetDefend Firewalls.
  - VPNC-certified.

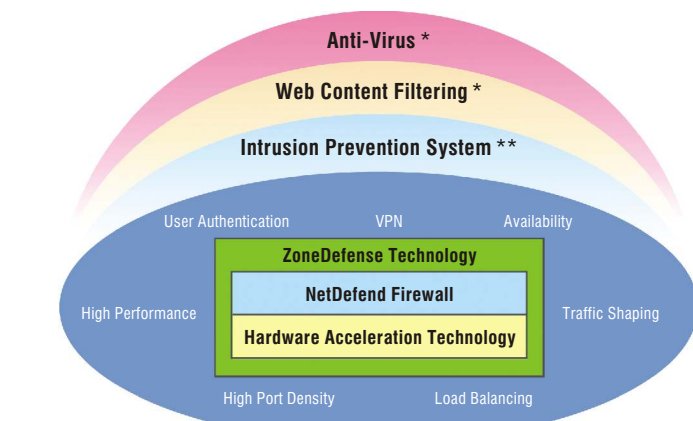


#### Network Security VPN Client

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



\* For UTM firewalls only  
\*\* For IPS and UTM firewalls



### Firewall Features

- Real-Time AntiVirus Gateway Inspection. (AV)
- Professional Intrusion Prevention System. (IPS)
- Automatic Signature Update.
- Zero Day Attack Protection.
- Web Surfing Management. (WCF)
- Low Cost Licensing Using Per-Firewall Service Maintenance.

# Firewall

## SECURESPOT

### Features & Benefits

- **Easiest Installation**
  - SECURESPOT provides the industry's easiest installation, Plug n' Play security for the entire home.
  - Works with any home broadband Ethernet router (Cable or DSL), Windows and Mac OS.
- **Unique Character**
  - Single box with a thin client on each PC vs. multiple software applications on each PC.
  - All the necessary required functions: parental controls, usage blocking and reporting.
- **Thin Client on PC**
  - Protection services travel with the LAN PCs. No matter where the PCs go, they are protected as long as they are connected to the Internet.
- **Total Network Security**
  - Three levels of security:
    - 1) On the web,
    - 2) At the SECURESPOT device,
    - 3) Thin client application on each PC.
  - Includes one year of protection for all services on up to four PCs, renewable annually.
  - Easier to manage than multiple licenses for multiple programs on multiple PCs.
  - Includes: Parental Control; Pop-Up Blocker; Anti-Virus Scanning and Protection; Spam Blocker; Anti-Spyware Scanning and Protection; Identity Theft Protection; Usage Reports; Block Usage by Time Schedule; Manage Network Security Settings of all PCs from a Single Location.

SECURESPOT is an all-in-one home Internet security device with parental controls. Designed for the consumers that need greater network security, but who would rather avoid the complications of software-based security, this device combines the functions of several different security software applications in a single box with the easiest installation. SECURESPOT addresses every kind of threat parents are worried about, and provides constantly monitored and updated Internet protection services. SECURESPOT is ideal for:

- Families with high-speed Internet access and multiple Purchase.
- Parents that want to monitor and protect their children from certain websites and web content. It can block usage by time schedule.
- Small businesses with up to ten employees.

### Three Layers of Security



- Protection software is automatically updated and SECURESPOT is always up-to-date.
- Customizable security services to suit personal preferences.

- **No Degradation of PC Performance**
  - SECURESPOT uses less system resources than multiple programs.
- **Expandability**
  - SECURESPOT protects unlimited additional PCs on home network (additional license required).
- **VoIP Accelerator**
  - QoS support to optimize upstream bandwidth for VoIP Internet phone.



### DSD-150 SECURESPOT

- ◆ Firewall Protection for Home/SOHO
- ◆ 10/100BASE-TX Ethernet WAN Port
- ◆ 10/100BASE-TX Ethernet LAN Port
- ◆ VoIP Accelerator
- ◆ Parental Control, Pop-Up & Spam Blocker
- ◆ Anti-Virus Scanning & Protection
- ◆ Anti-Spyware Scanning & Protection
- ◆ Identity Theft Protection
- ◆ Includes 1-Year Protection Services for 4 PC



## IPS Firewall



The IPS (Intrusion Prevention Service) firewalls provide an all-in-one business-class security solution with integrated functions including firewall, load balance, fault tolerance, content filtering, user authentication, Denial of Service (DoS) protection, Virtual Private Network (VPN) remote connection and malicious internal traffic prevention. These firewalls come with multiple user-configurable interfaces, including high-speed Gigabit ports, for flexible, bottleneck-free network deployments linking different workgroups and enterprises together.

All firewalls in this series can be remotely managed via a web-based interface or through a dedicated VPN connection. They include features to monitor and maintain a healthy and secure network, such as e-mail alerts, system log and real-time statistics. To minimize any impact of a disaster on an entire network, the NetDefend firewalls include a feature called ZoneDefense, a mechanism that operates seamlessly with D-Link LAN switches to automatically quarantine infected computers on the network and prevent them from flooding the network with malicious traffic.

IPS Firewall		DFL-200 For SOHO	DFL-210 For Workgroup & Branch Office	DFL-800 For Small Business	DFL-1600 For Medium-Sized Business	DFL-2500 For Enterprise
<b>Function/Feature</b>						
<b>Interface</b>	Ethernet: 10/100BASE-TX Ports Gigabit: 10/100/1000BASE-T Ports	1 Ethernet WAN 1 Ethernet DMZ 4 Ethernet LANs	1 Ethernet WAN 1 Ethernet DMZ (User-Configurable) 4 Ethernet LANs	2 Ethernet WANs 1 Ethernet DMZ 7 Ethernet LANs	6 User-Configurable Gigabit Ports	8 User-Configurable Gigabit Ports
<b>System Performance</b>	Firewall Throughput VPN Throughput Concurrent Sessions Policies	50Mbps 10Mbps 3,000 500	80Mbps 25Mbps 12,000 500	150Mbps 60Mbps 25,000 1,000	320Mbps 120Mbps 400,000 2,500	600Mbps 300Mbps 1,000,000 4,000
<b>Firewall System</b>	Transparent Mode	Proxy Arp	✓	✓	✓	✓
	NAT PAT	✓	✓	✓	✓	✓
	Dynamic Routing Protocol	✓	✓	OSPF	OSPF	OSPF
	H.323 NAT Traversal	✓	✓	✓	✓	✓
	Application Layer Gateway (ALG) Proactive Network Security	✓	✓	ZoneDefense	ZoneDefense	ZoneDefense
<b>Networking</b>	DHCP Server/Client	✓	✓	✓	✓	✓
	DHCP Relay	✓	✓	✓	✓	✓
	Policy-Based Routing	✓	✓	✓	✓	✓
	802.1q VLAN IP Multicast *	✓	IGMP v3	IGMP v3	IGMP v3	IGMP v3
<b>VPN</b>	Encryption Methods (DES/3DES/AES/Twofish/Blowfish/CAST-128)	DES/3DES/AES Only	All Methods	All Methods	All Methods	All Methods
	Dedicated VPN Tunnels **	80	100	300	1,200	2,500
	PPTP/L2TP Server	✓	✓	✓	✓	✓
	Hub and Spoke	✓	✓	✓	✓	✓
	IPSec NAT Traversal	✓	✓	✓	✓	✓
<b>Traffic Load Balance</b>	Outbound Load Balancing *	✓	When DMZ Configured as WAN 2	✓	✓	✓
	Server Load Balancing	✓	✓	✓	✓	✓
	Load balance Algorithms	✓	2 Types (Without Stickiness)	3 Types	3 Types	3 Types
	Traffic Redirect When Fail-Over	✓	✓	✓	✓	✓
<b>Bandwidth Management</b>	Policy-Based Traffic Shaping	✓	✓	✓	✓	✓
	Guaranteed Bandwidth	✓	✓	✓	✓	✓
	Maximum Bandwidth	✓	✓	✓	✓	✓
	Priority Bandwidth	✓	✓	✓	✓	✓
	Dynamic Bandwidth Limit Balancing	✓	✓	✓	✓	✓
<b>Intrusion Detection &amp; Prevention (IPS/IDP)</b>	NIDS Pattern	✓	✓	✓	✓	✓
	Automatic Pattern Update	✓	✓	✓	✓	✓
	DoS/DDoS Protection	✓	✓	✓	✓	✓
	Attack Alarm Via Email	✓	✓	✓	✓	✓
	Advanced IPS/IDP Subscription	✓	✓	✓	✓	✓
<b>IM/P2P Blocking</b>	IM/P2P Application Support	✓	***	***	***	***

\* Function available in future firmware upgrade.  
 \*\* Include PPTP, L2TP and IPSec tunnels; all included VPN tunnels are licensed.  
 \*\*\* Supported IM/P2P applications include 2Find MP3, Aimi, AOL InstantMessenger, ANTs P2P Ares P2P, Bit Torrent, Direct Connect, eDonkey, Gnutella, KaZaA, KCEasy, WinMX, iTunes, IRC, MSN Messenger, Yahoo! Messenger (based on Sep. 22, 2006 Pattern version).

## UTM Firewall



The Unified Threat Management (UTM) firewalls feature anti-virus protection to guard businesses, educational institutions and government organizations from external threats. They provide business-class security integrated functions including an anti-virus gateway, firewall, load balance, fault tolerance, content filtering, user authentication, Denial of Service (DoS) protection, Virtual Private Network (VPN) remote connection, and malicious internal traffic prevention.

The firewalls scan traffic, detect/block viruses, worms and Trojans, and filter URL. They are equipped with hardware-based accelerators to perform these extra functions, so CPU will not experience any performance degradation.

The firewalls include features to monitor and maintain a healthy and secure network, such as e-mail alerts, system log and real-time statistics. To protect against internal threats and minimize any impact of a disaster on an entire network, these firewalls include a feature called ZoneDefense, a mechanism that operates seamlessly with D-Link LAN switches to automatically quarantine infected computers on the network and prevents them from flooding the network with malicious traffic.

These firewalls can be remotely managed via a web-based interface or through a dedicated VPN connection. Multiple user-configurable interfaces are provided to facilitate flexible deployments.

UTM Firewall		DFL-260 For Workgroup & Branch Office	DFL-860 For Small Business
<b>Function/Feature</b>			
<b>Interface</b>	10/100BASE-TX Ethernet Ports	1 WAN 1 DMZ (User-Configurable) 4 LAN	2 WAN 1 DMZ 7 LAN
<b>System Performance</b>	Firewall Throughput VPN Throughput Concurrent Sessions Policies	80Mbps 25Mbps 12,000 500	150Mbps 60Mbps 25,000 1,000
<b>Firewall System</b>	Transparent Mode	✓	✓
	NAT PAT	✓	✓
	Dynamic Routing Protocol	✓	OSPF
	H.323 NAT Traversal	✓	✓
	Application Layer Gateway (ALG) Proactive Network Security	✓	ZoneDefense
<b>Networking</b>	DHCP Server/Client	✓	✓
	DHCP Relay	✓	✓
	Policy-Based Routing	✓	✓
	802.1q VLAN IP Multicast *	IGMP v3	IGMP v3
<b>VPN</b>	Encryption Methods (DES, 3DES, AES, Twofish, Blowfish, CAST-128)	DES, 3DES, AES, Twofish, Blowfish, CAST-128	DES, 3DES, AES, Twofish, Blowfish, CAST-128
	Dedicated VPN Tunnels **	100	300
	PPTP/L2TP Server	✓	✓
	Hub and Spoke	✓	✓
	IPSec NAT Traversal	✓	✓
<b>Traffic Load Balance</b>	Outbound Load Balancing *	When DMZ Configured as WAN 2	✓
	Server Load Balancing	✓	✓
	Load balance Algorithms	2 Types (Without Stickiness)	3 Types
	Traffic Redirect When Fail-Over	✓	✓
<b>Bandwidth Management</b>	Policy-Based Traffic Shaping	✓	✓
	Guaranteed Bandwidth	✓	✓
	Maximum Bandwidth	✓	✓
	Priority Bandwidth	✓	✓
	Dynamic Bandwidth Limit Balancing	✓	✓
<b>Intrusion Detection &amp; Prevention (IPS/IDP)</b>	NIDS Pattern	✓	✓
	Automatic Pattern Update	✓	✓
	DoS, DDoS Protection	✓	✓
	Customizable Detection Signature	✓	✓
	Attack Alarm via Email	✓	✓
<b>IM/P2P Blocking</b>	IM/P2P Application Support	***	***
<b>Content Filtering</b>	HTTP Type	URL, Keyword	URL, Keyword
	Script Type	Java, Cookie, ActiveX, VB	Java, Cookie, ActiveX, VB
	Email Type*	Blacklist, Keyword	Blacklist, Keyword
	External Database Content Filtering	✓	✓
	Real Time AV Scanning	✓	✓
<b>Anti-Virus</b>	Unlimited File Size	✓	✓
	Scans VPN Tunnels	✓	✓
	Supported Compression File	✓	✓
	Signature Licensor	Kaspersky	Kaspersky
	Automatic Pattern Update	✓	✓

\* Available in future firmware upgrade.  
 \*\* Include PPTP, L2TP and IPSec tunnels; all included VPN tunnels are licensed.  
 \*\*\* Supported IM/P2P applications include 2Find MP3, Aimi, AOL InstantMessenger, ANTs P2P Ares P2P, Bit Torrent, Direct Connect, eDonkey, Gnutella, KaZaA, KCEasy, WinMX, iTunes, IRC, MSN Messenger, Yahoo! Messenger (based on Sep. 22, 2006 pattern version).

## Intrusion Prevention System (IPS) Subscription

### Features & Benefits

- Focus on Attack Payload, not Attackers or IP Addresses**  
 IPS scan engine: an in-depth inspection of data from Layer 2 to Layer 7 protecting against both false positives and false negatives and preventing various types of network-based threats with a high degree of accuracy.
- IM and P2P Management**  
 D-Link's IPS service provides signatures to manage Instant Messaging (IM) and Peer-to-Peer (P2P) applications, so users can control what IM and P2P applications are blocked or allowed in their network.
- Zero Day Attack Protection**  
 IPS captures variations of attacks and stealthy malicious traffic to prevent outbreaks of these threats without creating unnecessary new signatures while still protecting against Zero-Day attacks.
- Continuous Automatic Signature Updates**  
 All IPS signatures are continuously updated automatically and made available through D-Link update servers worldwide. The service keeps customers IPS signature database as current as possible at the outside of new threats.
- Comprehensive IPS Signature Database**  
 Protects the system against network attacks using over 1,800 signatures as well as protocol anomaly inspection.



D-Link's IPS service adopts a unique technology--component-based signatures, which are built to recognize and protect against all varieties of known and unknown attacks, and which address all critical aspects of an attack or potential attack including payload, NOP sled, infection, and exploits.

In terms of signature coverage, the IPS database includes attack information and data from a global attack sensor-grid and exploits collected from public sites such as the National Vulnerability Database and Bugtrax.

D-Link is committed to deliver high quality IPS signatures by constantly creating and optimizing NetDefend signatures via the D-Link Auto-Signature Sensor System. Without overloading existing security appliances, D-Link IPS signatures ensure a high ratio of detection accuracy and the lowest ratio of false positives.

#### My D-Link

My D-Link provides a registration and management platform for all customers. Customers need to register their firewall to receive IPS update service from the NetDefend Center's My D-Link. The current status of all registered products will be presented, including Model Names, MAC addresses, Serial Numbers, Registration dates, and IPS Service Expiration dates. Customers can easily maintain all firewalls registered under My D-Link.

#### NetDefend Live

The NetDefend Center includes a NetDefend Live service for our customers. NetDefend Live is a platform for providing information about potential security breaches and associated advisories. When D-Link Security Center discovers new exploits and releases new signatures, associated security advisories will be simultaneously updated. This update frequency is provided on a 7 days a week, 24 hours a day, 365 days a year basis. The main purpose of NetDefend Live is to help customers know more about new signatures and vulnerabilities. MIS departments can use NetDefend Live as reference to uproot threats and patch vulnerabilities within the enterprise before they are exploited. With NetDefend firewalls as the first line of defense and NetDefend Live as the second, D-Link helps customers to counteract emerging network threats promptly, before they have an impact on business.

1 Year IPS Subscription for DFL-210 Firewall	IFL210IPS12
1 Year IPS Subscription for DFL-800 Firewall	IFL800IPS12
1 Year IPS Subscription for DFL-1600 Firewall	IFL1600IPS12
1 Year IPS Subscription for DFL-2500 Firewall	IFL2500IPS12

#### Complete IPS Signature Advisory

Complete IPS logs with vulnerability ID numbers, severity levels, attack descriptions, and recovery solutions enable MIS personnel to know about and respond quickly to network attacks.



## Information Security Gateway

### Features & Benefits

- Real Transparent Mode Implementation**
  - Easy installation with no change to existing network architecture.
  - Transparent in-line mode, seamless integration with other D-Link and third-party network appliances.
- Granular Layer 7 Applications Management**
  - Management by hosts, IP, groups and subnets.
  - Transparent control over IM, P2P applications, file transfer, streaming media and personal mailbox.
  - Discreet control of Internet activities through application of policy-based actions on hosts, groups, IP, subnets.
- Real-Time Traffic Monitoring**
  - Real-time traffic monitoring using visualized charts and graphs of hosts and applications.
  - Multiple two-tier and top 10 real-time traffic analysis and reports.
- Traffic Shaping by User Groups and Internet Applications**  
 Bandwidth management of Internet applications with scheduling by user groups or applications.
- Health Check and Victim Identification**
  - Detection and blocking of malicious programs such as Trojans, Spyware, Illegal Agents (Softether), Key Loggers and Network Worms.
  - Identification of victims in Intranet.
  - ZoneDefense mechanism to prevent malicious traffic from spreading in network.



The Information Security Gateway is a content management solution designed to protect businesses from emerging risks arising from an increasing use of instant messages (IM) and peer-to-peer (P2P) applications, and to optimize their bandwidth utilization. Capable of managing up to 200 nodes, this device is ideal for deployment at SMB network sites. It allows SMB to manage their employees' proper use of IM and P2P applications to increase productivity, while eliminating abuses and consequential threats to company security as well as degradation of valuable bandwidth.

Through automatic host learning and real-time traffic monitoring, network administrators can view the overall network status, know what Internet applications are being used, and identify the heavy users on the internal network. Using granular policy-based control, they can effectively manage the usage of these Internet applications to prevent misuse and optimize bandwidth utilization. This management of specific Internet application behaviors allows businesses to embrace the convenience of IM/P2P applications without compromising business information security or network performance.

Traffic shaping eliminates inappropriate bandwidth consumption resulted from unproductive P2P, multi-thread file transfer and streaming media applications. The Information Security Gateway enables businesses to regulate Internet application usage either by user groups or by applications in order to improve network performance and enhance employees' efficiency.

The Information Security Gateway detects and drops traffic with health concerns, such as Trojan, Spyware and Network Worms. It mitigates network threats by blocking illegal agents hidden in internal legitimate traffic and identifying harmful programs and victimized users in real time.



#### DFL-M510

##### Information Security Gateway

- ◆ 2 10/100BASE-TX Ports (1 WAN, 1 LAN)
- ◆ Up to 12,000 Concurrent TCP Sessions
- ◆ High-Performance ASIC-Based Layer 7 Packet Pattern Matching

#### Hardware Bypass

- No single point of failure.
- Maximized network uptime in case of network appliance hardware crash.

#### Simplified Installation/Setup

- Plug-and-play installation with no change to existing network.
- Automatic host information learning in MAC-based and IP-based modes.
- Java web-based Wizard, including Setup Wizard and Policy Wizard.

#### Log/Analysis Report

- Complete log information, including system and policy log details.
- External Syslog server support.
- Easy-to-read reports in HTML format.

#### Self-Protection From DoS/DDoS, Stealth Mode

- Self-protection from various kinds of DoS/DDoS attacks.
- No response to ICMP packets in Stealth mode.

## Unmanaged Ethernet Switch

### Features & Benefits

- **10/100BASE-TX Ports**  
Supporting 10/100Mbps  
Auto-Sensing Dual Speeds
- **Use Inexpensive Copper**  
Twisted-Pair Wires as  
Network Cable
- **Support Full/Half Duplex**  
Operation
- **Support 802.3x Flow Control**  
for Reliable Data Transfer
- **Auto MDI/MDIX Plug-and-  
Play Connection**
- **10/100/1000BASE-T Gigabit**  
Uplinks to Servers and  
Network Backbone

The unmanaged Ethernet switches are Layer 2 switching devices that provide plug-and-play connection for homes and small businesses. They use the copper twisted-pair wires as the network cable, and support full/half duplex operation for 10/100Mbps speeds, full duplex operation for Gigabit uplink ports. These switches provide 802.3x flow control for reliable data transfer, and auto MDI/MDIX to eliminate the need for cross over cables and simply installation.



**DES-1005D**  
5-Port Ethernet Switch

- ◆ 5 10/100BASE-TX Ports
- ◆ 1Gbps Switch Capacity
- ◆ Powered Through External Power Adapter



**DES-1008F**  
8-Port Ethernet Switch

- ◆ 7 10/100BASE-TX Ports
- ◆ 1 100BASE-FX Port (SC Connector)  
Supporting 2 km Multi-Mode Fiber
- ◆ 1.6Gbps Switch Capacity
- ◆ Powered Through External Power Adapter



**DES-1008D**  
8-Port Ethernet Switch

- ◆ 8 10/100BASE-TX Ports
- ◆ 1.6Gbps Switch Capacity
- ◆ Powered Through External Power Adapter



**DES-1016D**  
16-Port Ethernet Switch

- ◆ 16 10/100BASE-TX Ports
- ◆ 3.2Gbps Switch Capacity
- ◆ Metal Casing
- ◆ Internal Power Supply
- ◆ Mounting Kit for 19-Inch Standard Equipment Rack



**DES-1018DG**  
16-Port Ethernet Switch

- ◆ 16 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 7.2Gbps Switch Capacity
- ◆ Powered Through External Power Adapter



**DES-1024DG**  
22-Port Ethernet Switch

- ◆ 22 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 8.4Gbps Switch Capacity
- ◆ Powered Through External Power Adapter



**DES-1024D**  
24-Port Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 4.8Gbps Switch Capacity
- ◆ Metal Casing
- ◆ Internal Power Supply
- ◆ Mounting Kit for 19-Inch Standard Equipment Rack



**DES-1016R+**  
16-Port Ethernet Switch

- ◆ 16 10/100BASE-TX Ports
- ◆ 1 Open Slot for Optional Fiber Ports
- ◆ 3.2Gbps Switch Capacity
- ◆ 19-Inch Rack-Mount Metal Casing
- ◆ Internal Power Supply



**DES-1024R+**  
24-Port Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 1 Open Slot for Optional Fiber Ports
- ◆ 4.8Gbps Switch Capacity
- ◆ 19-Inch Rack-Mount Metal Casing
- ◆ Internal Power Supply



**DES-102F**  
2-Port Fiber Ethernet Module

- ◆ 2 100BASE-FX Ports (SC Connectors)
- ◆ Supports 2 km Multi-Mode Fiber
- ◆ 0.4Gbps Switch Capacity
- ◆ Optional Module for DES-1016R+, DES-1024R+ Switches



**DES-1026G**  
24-Port Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 8.8Gbps Switch Capacity
- ◆ 19-Inch Rack-Mount Metal Casing
- ◆ Internal Power Supply



**DES-1048**  
48-Port Ethernet Switch

- ◆ 48 10/100BASE-TX Ports
- ◆ 9.6Gbps Switch Capacity
- ◆ 19-Inch Rack-Mount Metal Casing
- ◆ Internal Power Supply



**DES-1050G**  
48-Port Ethernet Switch

- ◆ 48 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Ports
- ◆ 13.6Gbps Switch Capacity
- ◆ 19-Inch Rack-Mount Metal Casing
- ◆ Internal Power Supply

## Unmanaged Gigabit Switch

### Features & Benefits

- **10/100/1000BASE-T Gigabit Ports Supporting 10/100/1000Mbps Auto-Sensing Speeds**
- **Use Inexpensive Copper Twisted-Pair Wires as Network Cable**
- **Cost-Effective Alternative to Fiber Cable**
- **Support Full Duplex Operation**
- **Support 802.3x Flow Control for Reliable Data Transfer**
- **Auto MDI/MDIX Plug-and-Play Connection**

The unmanaged Gigabit switches are Layer 2 switching devices that provide plug-and-play connection for homes and small businesses. Connecting to the existing low-cost Cat. 5 copper twisted-pair wires as the transmission media, these switches allow users to instantly upgrade desktop computers and servers to Gigabit capability without having to install new, expensive fiber cables. They support full duplex operation, provide 802.3x flow control for reliable data transfer, and auto MDI/MDIX to eliminate the need for cross over cables and simply installation.



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

- ◆ 8 10/100/1000BASE-T Ports
- ◆ 16Gbps Switch Capacity
- ◆ Powered Through External Power Adapter



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

- ◆ 16 10/100/1000BASE-T Ports
- ◆ 32Gbps Switch Capacity
- ◆ Metal Casing
- ◆ Internal Power Supply
- ◆ Mounting Kit for Installation in 19-Inch Equipment Rack



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

- ◆ 5 10/100/1000BASE-T Ports
- ◆ 10Gbps Switch Capacity
- ◆ Powered Through External Power Adapter



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

- ◆ 8 10/100/1000BASE-T Ports
- ◆ 16Gbps Switch Capacity
- ◆ Metal Casing
- ◆ Internal Power Supply
- ◆ Mounting Kit for Installation in 19-Inch Equipment Rack



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

- ◆ 24 10/100/1000BASE-T Ports
- ◆ 48Gbps Switch Capacity
- ◆ Metal Casing
- ◆ Internal Power Supply
- ◆ Mounting Kit for Installation in 19-Inch Equipment Rack

## Managed Ethernet Switch

	Layer	Max. Port Density	10/100 Ports	PoE Ports	1000BASE-T Ports	SFP	100BASE-FX Ports	Open Slots	Stacking Ports	Stackable Units	Static Routing	Dynamic Routing	VLAN Groups	ACL	Single IP Mgmt
DES-3010G	L2	10	8	-	1	1	-	-	-	-	-	-	255	-	✓
DES-3010F	L2	10	8	-	1	-	1	-	-	-	-	-	255	-	✓
DES-3010FL	L2	10	8	-	1	-	1	-	-	-	-	-	255	-	✓
DES-3010G	L2	10	8	-	1	1	-	-	-	-	-	-	255	-	✓
DES-3018	L2	18	16	-	2 <sup>(2)</sup>	2 <sup>(2)</sup>	2 <sup>(2)</sup>	2	-	-	-	-	255	-	✓
DES-3026	L2	26	24	-	2 <sup>(2)</sup>	2 <sup>(2)</sup>	2 <sup>(2)</sup>	2	-	-	-	-	255	-	✓
DES-3028	L2	28	24	-	4	2 <sup>(1)</sup>	2 <sup>(4)</sup>	-	-	-	-	-	4K	✓	✓
DES-3028P	L2	28	24	24 <sup>(3)</sup>	4	2 <sup>(1)</sup>	2 <sup>(4)</sup>	-	-	-	-	-	4K	✓	✓
DES-3052	L2	52	48	-	4	2 <sup>(1)</sup>	2 <sup>(4)</sup>	-	-	-	-	-	4K	✓	✓
DES-3052P	L2	52	48	48 <sup>(3)</sup>	4	2 <sup>(1)</sup>	2 <sup>(4)</sup>	-	-	-	-	-	4K	✓	✓
DES-3400-28	L2+	28	24	-	4	2 <sup>(1)</sup>	2 <sup>(4)</sup>	-	2 <sup>(5)</sup>	8	✓	-	4K	✓	✓
DES-3400-28P	L2+	28	24	24 <sup>(3)</sup>	4	2 <sup>(1)</sup>	2 <sup>(4)</sup>	-	2 <sup>(5)</sup>	8	✓	-	4K	✓	✓
DES-3400-52	L2+	52	48	-	4	2 <sup>(1)</sup>	2 <sup>(4)</sup>	-	2 <sup>(5)</sup>	8	✓	-	4K	✓	✓
DES-3400-52P	L2+	52	48	48 <sup>(3)</sup>	4	2 <sup>(1)</sup>	2 <sup>(4)</sup>	-	2 <sup>(5)</sup>	8	✓	-	4K	✓	✓
DES-3526	L2	26	24	-	2	2 <sup>(1)</sup>	-	-	-	-	-	-	255	✓	✓
DES-3526DC	L2	26	24	-	2	2 <sup>(1)</sup>	-	-	-	-	-	-	255	✓	✓
DES-3550	L2	50	48	-	2	2 <sup>(1)</sup>	-	-	-	-	-	-	255	✓	✓
DES-3700-28	L2	28	24	-	4	4 <sup>(1)</sup>	2 <sup>(4)</sup>	-	-	-	-	-	4K	✓	✓
DES-3700-28DC	L2	28	24	-	4	4 <sup>(1)</sup>	2 <sup>(4)</sup>	-	-	-	-	-	4K	✓	✓
DES-3700-28M	L2	28	24	-	4	4 <sup>(1)</sup>	2 <sup>(4)</sup>	-	-	-	-	-	4K	✓	✓
DES-3828	L3	28	24	-	2	2 <sup>(1)</sup>	-	-	-	-	✓	✓	4K	✓	✓
DES-3828DC	L3	28	24	-	2	2 <sup>(1)</sup>	-	-	-	-	✓	✓	4K	✓	✓
DES-3828P	L3	28	24	24 <sup>(3)</sup>	2	2 <sup>(1)</sup>	-	-	-	-	✓	✓	4K	✓	✓
DES-3852	L3	52	48	-	2	2 <sup>(1)</sup>	-	-	-	-	✓	✓	4K	✓	✓

<sup>(1)</sup> Combo Ports

<sup>(2)</sup> Optional Ports

<sup>(3)</sup> 802.3af PoE function is integrated into 10/100Mbps ports

<sup>(4)</sup> If SFP slots are configured with 100BASE-FX transceivers

<sup>(5)</sup> Stacking ports are for dual-purpose stacking/1000BASE-T connection and counted as part of the 4 built-in 10/100/1000Mbps ports



## Web-Smart Switch

### Features & Benefits

#### SmartConsole Utility

- Easy access to the switch from a local PC.
- No need to type in any IP address or subnet, all switches connected on the network are displayed on the screen for instant access.

#### Web-Based Users' Interface

- Allows switch access from any location on the network or from a remote site, using a web-browser.
- Allows extensive switch configuration setting, which can be backed up for duplication in other switches.

#### Built-in MIB

- Switches can be polled for information about their status; traps of abnormal events can be sent out.
- Switches can be integrated with other third-party devices for management in an SNMP environment.

#### Complete Layer 2 Managed Switch Functions

- Include IGMP snooping, port mirroring, Spanning Tree and port trunks, important functions enhance performance and network resiliency.

#### VLAN Support

- 802.1Q VLAN Tagging enhances network security and performance.



The Web-Smart Switches are cost-effective LAN switches designed mainly to enhance the performance and security of small business networks. They provide many advanced features while maintaining the ease-of-use and basic cost characteristics of the unmanaged switches. Businesses with limited IT resources can deploy these switches to set up a manageable network without having to go through complex SNMP management.

The Web Smart Switches can be configured from any network computer through an Internet browser, dispensing users of the need to set up consoles and connect console cables. All switches are automatically discovered and displayed on a network topology. From a network station, network administrators can monitor network status and statistics and receive traps of system events or port errors.

Web Smart switches with 802.3af Power over Ethernet (PoE) carry electric power over the Ethernet cables. These switches are useful for surveillance and wireless networks, where cameras and access points typically need to be located at out-of-the-way locations, such as on the ceilings or rooftops, for maximum coverage. By transmitting remote power through the standard network cabling, these PoE switches provide a centralized power source for IP phones, cameras and wireless AP, eliminating the need for individual power cabling to these devices.

#### Quality of Service Support

- 802.1p Priority Queues enables users to run streaming multimedia and VoIP applications.

#### Network Access Security

- MAC address filters to screen access to network.
- 802.1x port-based authentication allows the network to be configured with external RADIUS servers.

#### Safeguard Engine

- Prevents ARP broadcast storm and protocol-based attacks.
- ASIC is used to execute this prevention task to offload switch's CPU workload.



#### DES-1316

##### 16-Port PoE Ethernet Switch

- ◆ 16 10/100BASE-TX Ports (8 Ports With 802.3af PoE)
- ◆ 3.2Gbps Switch Capacity



#### DES-1226G

##### 24-Port Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP Gigabit Uplinks
- ◆ 8.8Gbps Switch Capacity



#### DES-1228

##### 24-Port Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 10/100/1000BASE-T Ports
- ◆ 12.8Gbps Switch Capacity



#### DES-1228P

##### 24-Port PoE Ethernet Switch

- ◆ 24 10/100BASE-TX Ports (All Ports With 802.3af PoE)
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 10/100/1000BASE-T Ports
- ◆ 12.8Gbps Switch Capacity



#### DES-1250G

##### 48-Port Ethernet Switch

- ◆ 48 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP Gigabit Uplinks
- ◆ 13.6Gbps Switch Capacity



#### DES-1252

##### 48-Port Ethernet Switch

- ◆ 48 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 10/100/1000BASE-T Ports
- ◆ 17.6Gbps Switch Capacity



#### DGS-1216T

##### 16-Port Gigabit Switch

- ◆ 16 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo SFP Slots
- ◆ 32Gbps Switch Capacity



#### DGS-1224T

##### 24-Port Gigabit Switch

- ◆ 24 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo SFP Slots
- ◆ 48Gbps Switch Capacity



#### DGS-1248T

##### 48-Port Gigabit Switch

- ◆ 48 10/100/1000BASE-T Gigabit Ports
- ◆ 4 Combo SFP Slots
- ◆ 96Gbps Switch Capacity

## Entry-Level SNMP Managed Ethernet Switch

### Features & Benefits

#### Affordable Enterprise Features

- Include IP-MAC-port binding user access screening, traffic segmentation, 802.1Q VLANs, 802.1x port-based/MAC-based access control, external RADIUS server authentication support.
- 802.1D Spanning Tree/802.1w Rapid Spanning Tree, STP loopback detection and broadcast storm control for network resilience.
- 802.3ad Link Aggregation port trunks for switch cascading and server link.

#### Complete Set of Access Control List (ACL)

- (for DES-3028, 3028P, 3052, 3052P only)
- Up to 256 profiles, 256 centralized rules for individual switch ports or range of ports.
  - ACL rules can be based on switch port, VLAN ID, 802.1p Priority Queues, MAC address, IPv4 address, DSCP, protocol type, TCP/UDP port, user-defined packet content and time-based ACL.

#### CPU Interface Filtering

- Filters out vicious packets in internal network and prevents them from reaching and overwhelming switch's CPU.

#### Quality of Service

- Multi-level packet classification based on 802.1p Priority Queues, TOS, DSCP and MAC addresses.

These managed Layer 2 Ethernet switches provide an entry-level SNMP management solution for businesses. Workgroups looking for an advanced yet affordable solution can deploy these switches to bring managed Ethernet connection to their desktops.

These switches include more advanced software features than other switches of the same class. These features allow administrators to set up a secure network and fine-tune the workgroup performance. For inter-workgroup connection, the switches provide fiber uplinks to connect together groups of users in, for example, different classrooms or departments spread across on a campus or between buildings. Supporting D-Link's Single IP Management, these switches can be easily configured with any switches supporting D-Link's Single IP Management, including the xStack core switches, for integration with a more comprehensive network structured with backbone and centralized high-speed servers.



**DES-3010G**

#### 8-Port L2 Ethernet Switch

- ◆ 8 10/100BASE-TX Ports
- ◆ 1 10/100/1000BASE-T Gigabit Port
- ◆ 1 SFP Slot for Fiber Gigabit
- ◆ 5.6Gbps Switch Capacity



**DES-3010F**

#### 8-Port L2 Ethernet Switch

- ◆ 8 10/100BASE-TX Ports
- ◆ 1 100BASE-FX Port (SC Connector, 2 km Multi-Mode Fiber Transmission Distance)
- ◆ 1 10/100/1000BASE-T Gigabit Port
- ◆ 5.6Gbps Switch Capacity

#### Bandwidth Control

- Fine granularity to define limits down to 64Kbps segments for each port.
- When applied to control of broadcast storms infected with virus, can limit level of damage a virus attack can do to network.
- IGMP snooping to control multicast transmission.
- Port mirroring to facilitate diagnostics.

#### DHCP Auto-Configuration

- Network administrators can pre-set configurations and save them in server.

- Individual switches can boot their IP from server and load in pre-set configurations.

#### Single IP Management

- Multiple switch units can be managed as a single object (a virtual stack), all units identified by a single IP address.
- Network administrators can see Tree View of members of the virtual stack and network topology showing locations of the units and their link information.



**DES-3010FL**

#### 8-Port L2 Ethernet Switch

- ◆ 8 10/100BASE-TX Ports
- ◆ 1 100BASE-FX Port (SC Connector, 30 km Single-Mode Fiber Transmission Distance)
- ◆ 1 10/100/1000BASE-T Gigabit Port
- ◆ 5.6Gbps Switch Capacity



**DES-3018**

#### 16-Port L2 Ethernet Switch

- ◆ 16 10/100BASE-TX Ports
- ◆ 2 Open Slots for Optional Fiber Ethernet or Gigabit Uplinks
- ◆ 7.2Gbps Switch Capacity



**DES-3026**

#### 24-Port L2 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 Open Slots for Optional Fiber Ethernet or Gigabit Uplinks
- ◆ 8.8Gbps Switch Capacity



**DES-3028**

#### 24-Port L2 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP Gigabit Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 12.8Gbps Switch Capacity



**DES-3028P**

#### 24-Port L2 PoE Ethernet Switch

- ◆ 24 802.3af PoE 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 12.8Gbps Switch Capacity



**DES-3052**

#### 48-Port L2 Ethernet Switch

- ◆ 48 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 17.6Gbps Switch Capacity



**DES-3052P**

#### 48-Port L2 PoE Ethernet Switch

- ◆ 48 802.3af PoE 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP Gigabit Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 17.6Gbps Switch Capacity



**DEM-201F**

#### 1-Port 100BASE-FX Module

- ◆ 1 100BASE-FX Port (SC Connector)
- ◆ 2 km Multi-Mode Fiber Transmission Distance
- ◆ Supports DES-3018 & DES-3026 Switches



**DEM-201FL**

#### 1-Port 100BASE-FX Module

- ◆ 1 100BASE-FX Port (SC Connector)
- ◆ 15 km Single-Mode Fiber Transmission Distance
- ◆ Supports DES-3018 & DES-3026 Switches



**DEM-301T**

#### 1-Port 10/100/1000BASE-T Module

- ◆ 1 10/100/1000BASE-T Gigabit Port
- ◆ Supports DES-3018 & DES-3026 Switches



**DEM-301G**

#### 1-Slot SFP Module

- ◆ 1 SFP Slot
- ◆ Supports DES-3018 & DES-3026 Switches

## Stand-Alone SNMP Managed Gigabit Switch

### Features & Benefits

#### Affordable Enterprise Features

- Include traffic segmentation, 802.1Q VLANs, 802.1X port-based/MAC-based access control, and external RADIUS server authentication support.
- 802.1D Spanning Tree/802.1W Rapid Spanning Tree/802.1S Multiple Spanning Tree and broadcast storm control for network resilience.
- 802.3ad Link Aggregation port trunks for switch cascading and server link.

#### Quality of Service

- Packet prioritization based on 802.1p Priority Queues for smooth traffic for voice and multimedia applications.

#### Bandwidth Control

- IGMP snooping to control multicast transmission.
- Port mirroring to facilitate diagnostics.

#### IP Routing

- RIP v.1, v.2, OSPF routing protocols, DVMRP, PIM Dense mode support for Layer 3 packet routing (DGS-3312SR only).

#### Redundant Power Supply Support

- Switch can be connected to optional external power supply for redundant power backup.

The stand-alone SNMP managed Gigabit switches are powerful and versatile switches that provide Gigabit connection to the departmental desktops. These switches eliminate network bottlenecks and give network administrators the capability to fine-tune performance and set up security. They support standards based network management protocols (SNMP/RMON/ BOOTP/Telnet/Web) and can be easily integrated with most third-party network management products.

These switches provide advanced features to facilitate the deployment of applications across a departmental network, such as VoIP, streaming media, and multicast content delivery (IP video, software deployment etc). With high Gigabit port densities and multiple SFP support, these switches can easily adapt to changes in users' media requirements without the need to perform expensive upgrades.



**DGS-3312SR**

#### 12-Port L3 Modular Gigabit Switch

- ◆ 4 Combo 10/100/1000BASE-T/SFP Ports
- ◆ 2 Open Slots for Optional Modules
- ◆ 24Gbps Switch Capacity



**DEM-340T**

#### 4-Port 10/100/1000BASE-T Module

- ◆ 4 10/100/1000BASE-T Ports
- ◆ Supports DGS-3312SR Switch



**DEM-340MG**

#### 4-Slot SFP Module

- ◆ 4 SFP Slots
- ◆ Supports DGS-3312SR Switch



**DGS-3024**

#### 24-Port L2 Gigabit Switch

- ◆ 24 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 48Gbps Switch Capacity



**DGS-3048**

#### 48-Port L2 Gigabit Switch

- ◆ 48 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 96Gbps Switch Capacity



**DEM-540**

#### 4-Port Stacking Module

- ◆ 4 SIO Stacking Ports
- ◆ Supports DGS-3312SR Switch
- ◆ For Star Stacking With DES-3226S & DES-3326SR Switches

## Entry-Level Gigabit Stack

### Features & Benefits

#### Fault Tolerant Ring Stacking

- Any broken link between two units in a stack will not affect inter-switch traffic as the traffic is redirected toward the opposite direction.

#### High-Speed Physical Stacking

- Two stacking ports on the back of each switch, each port providing up to 5Gbps (10Gbps in full-duplex mode) data transfer rate.
- Shared 20Gbps Ring stacking topology, ample bandwidth for intra-stack traffic traveling through the stacking cables.

#### Scalable Expansion

- Up to 6 switch units per stack, up to 288 Gigabit ports per stack
- Switch units can be gradually added as network need grows.
- No interruption to network service or current configuration as switch units are added to stack.

#### Affordable Enterprise Features

- Include IP-MAC-port binding user access screening, traffic segmentation, 802.1Q VLAN, GVRP, Double VLAN, 802.1X port-based/MAC-based access control.
- 802.1D Spanning Tree/802.1W Rapid Spanning Tree/802.1S Multiple Spanning Tree, loopback detection and broadcast storm control for network resilience.
- 802.3ad Link Aggregation port trunks for stack cascading and server link.

These managed Layer 2 Gigabit switches provide an entry-level SNMP management solution for businesses. Workgroups looking for a flexible, advanced yet affordable solution can deploy these switches to bring managed Gigabit connection to their desktops.

These switches provide high Gigabit port densities, SFP fiber options and physical stacking. The stacking feature offers scalable expansion: switches can be stacked up to 6 units or 288 Gigabit ports per stack on a per-need basis to accommodate network growth. The two stacking ports on the back of each switch provide 5Gbps per-port bandwidth (10Gbps in full-duplex mode) for physical Ring stacking in a fault-tolerant topology. Expansion beyond a single stack is possible using the Gigabit port trunks between stacks or from the stack to the network backbone and the server paths.

These switches include more advanced software features than similar devices of the same class, allowing administrators to set up a secure network and fine-tune the workgroup performance. These features include a complete set of Access Control List, multi-level packet classification for Quality of Service and bandwidth management.

#### Quality of Service

- Multi-level packet classification based on 802.1p Priority Queues, TOS, DSCP, IP/MAC addresses and TCP/UDP port number.

#### Complete Set of Access Control List (ACL)

- Up to 15 profiles, 255 centralized rules for individual switch ports or range of ports.
- ACL rules can be based on switch port, VLAN ID, 802.1p Priority Queues, MAC address, IP address, DSCP, protocol type, TCP/UDP port and time-based ACL.

#### Safeguard Engine

- Prevents ARP broadcast storm and protocol-based attacks.
- ASIC is used to execute this prevention task to offload switch's CPU workload.

#### Bandwidth Control

- Fine granularity to define limits down to 64Kbps segments for each port.
- Flow-based bandwidth control.

#### Multicasting

- IGMP and MLD snooping to control multicast transmission.
- Port mirroring to facilitate diagnostics.

#### Pre-set Configuration File

- Administrators can pre-set configurations and save them as configuration files in TFTP server for download to switches.

#### DHCP Auto-Configuration

- Administrators can pre-set configuration in DHCP server for application in switches when they fetch their IP from this server.

## Entry-Level Gigabit Stack



### DGS-3100-24 24-Port L2 Gigabit Switch

- ◆ 24 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Stacking Ports
- ◆ 68Gbps Switch Capacity



### DGS-3100-24P 24-Port L2 PoE Gigabit Switch

- ◆ 24 802.3af PoE 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Stacking Ports
- ◆ 68Gbps Switch Capacity



### DGS-3100-48 48-Port L2 Gigabit Switch

- ◆ 48 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Stacking Ports
- ◆ 116Gbps Switch Capacity



### DGS-3100-48P 48-Port L2 PoE Gigabit Switch

- ◆ 48 802.3af PoE 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Stacking Ports
- ◆ 116Gbps Switch Capacity

## Access Layer Ethernet Switch

### Features & Benefits

- **Full Layer2 Functions**  
802.1Q VLAN, LACP Port Trunk, STP/RSTP/MSTP
- **Layer3 Protocol Support**  
RIP, OSPF, VRRP (DES-3800 series only)
- **Multicast Support**
  - IGMP Snooping,
  - IGMP v3, DVMRP, PIM-DM/SM (DES-3800 series only)
  - MLD Snooping (DES-3400 & DES-3700 series)
- **Quality of Service (QoS)**  
802.1p Priority Queues, L2/L3/L4 Multi-Layer CoS
- **Traffic Management**
  - Traffic Segmentation, Granular Bandwidth Control, Broadcast Storm Control
  - Jumbo Frames
- **Security**
  - Port Security, L2/L3/L4 ACL, 802.1x Port/MAC-based Access Control, IP-MAC-Port Binding, RADIUS/TACACS+ Authentication, SSH, SSL 802.1x Guest VLAN
  - MAC-based/Web-based Access Control (MAC/WAC) (DES-3400, DES-3700 & DES-3800 series)
  - Voice VLAN (DES-3400 & DES-3700 series)
  - Double VLAN (DES-3700 & DES-3800 series)



These Ethernet switches comprise the departmental access layer that can be seamlessly integrated with the core of a network. Ideal for deployment at the network edge closer to workstations for maximum scalability, these switches provide desktop users secure and smooth access to a network and its servers while allowing them to be easily integrated with other departmental workgroups via the core network backbone.

The access layer switches deliver performance, flexible expansion, robust security, and multi-layer Quality of Service (QoS). Supporting D-Link's Single IP Management, these switches can be easily stacked and configured with any switches supporting D-Link's Single IP Management, including the xStack core switches, to form part of a multi-level network structured with backbone and centralized high-speed servers. Without any stacking cable, cable distance barrier and physical stacking method limitations, an access layer stack can comprise units that are located anywhere on the same network domain, eliminating the possibility of any single point of failure.

The access layer switches can be Layer 2 or Layer 3 switches. The Layer 2 switches provide packet switching for departmental users while leaving higher level packet routing to the core switches. The Layer 3 switches blend L2 packet switching with dynamic L3 IP routing to relieve the core switches of some workload and remove unnecessary traffic from the network backbone and the server paths.

- **Safeguard Engine**
  - Prevents ARP broadcast storm and protocol-based attacks.
  - ASIC is used to execute this prevention task to offload switch's CPU workload.
- **ZoneDefense**  
Operates with D-Link NetDefend firewalls, automatically quarantines infected workstations and prevent them from flooding the network with malicious traffic
- **Redundant Power Supply Support**  
Optional external power supply for redundant power backup
- **Administration**  
Single IP Management, SNMP v1/v2c/v3, Web Management, Port Mirroring, CLI, Telnet, TFTP, Dual Image, BOOTP/DHCP relay, DHCP Relay Option 82, DHCP Auto Configuration, System log
- **Physical Ring Stacking**  
Cross-Stack Trunking (DES-3400 series)
- **D-View SNMP Management**  
Management software module provided for management under D-View

## Access Layer Ethernet Switch



### DES-3400-28

#### 24-Port L2+ Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 Stacking Ports \*
- ◆ 12.8Gbps Switch Capacity



### DES-3400-28P

#### 24-Port L2+ PoE Ethernet Switch

- ◆ 24 802.3af PoE 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 Stacking Ports \*
- ◆ 12.8Gbps Switch Capacity



### DES-3400-52

#### 48-Port L2+ Ethernet Switch

- ◆ 48 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 Stacking Ports \*
- ◆ 17.6Gbps Switch Capacity



### DES-3400-52P

#### 48-Port L2+ PoE Ethernet Switch

- ◆ 48 802.3af PoE 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 2 Stacking Ports \*
- ◆ 17.6Gbps Switch Capacity



### DES-3526

#### 24-Port L2 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 8.8Gbps Switch Capacity



### DES-3526DC

#### 24-Port L2 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 8.8Gbps Switch Capacity
- ◆ Internal DC Power Supply



### DES-3550

#### 48-Port L2 Ethernet Switch

- ◆ 48 10/100BASE-TX Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 13.6Gbps Switch Capacity



### DES-3700-28

#### 24-Port L2 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 4 Combo 10/100/1000BASE-T/SFP
- ◆ 12.8Gbps Switch Capacity



### DES-3700-28DC

#### 24-Port L2 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 4 Combo 10/100/1000BASE-T/SFP
- ◆ 12.8Gbps Switch Capacity
- ◆ Internal DC Power Supply



### DES-3700-28M

#### 24-Port L2 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 4 Combo 10/100/1000BASE-T/SFP
- ◆ 12.8Gbps Switch Capacity
- ◆ Can Withstand Extreme Outdoor Temperature



### DES-3828

#### 24-Port L3 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 12.8Gbps Switch Capacity



### DES-3828DC

#### 24-Port L3 Ethernet Switch

- ◆ 24 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 12.8Gbps Switch Capacity
- ◆ Internal DC Power Supply



### DES-3828P

#### 24-Port L3 PoE Ethernet Switch

- ◆ 24 802.3af PoE 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 12.8Gbps Switch Capacity



### DES-3852

#### 48-Port L3 Ethernet Switch

- ◆ 48 10/100BASE-TX Ports
- ◆ 2 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo 10/100/1000BASE-T/SFP
- ◆ 17.6Gbps Switch Capacity

\* Stacking ports can also be used as 10/100/1000BASE-T Gigabit uplinks; total Gigabit uplinks remain as 4.

## Access Layer Gigabit Stack

### Features & Benefits

- **Fault Tolerant Ring Stacking**

Any broken link between two units in a stack will not affect inter-switch traffic, as intra-stack traffic is redirected toward the opposite direction.

- **High-Speed Physical Stacking**

- Open slots for 10-Gigabit modules to use as stacking ports. Each stacking port provides 20Gbps full-duplex operation.  
- Shared 40Gbps full-duplex per stack, ample bandwidth for intra-stack traffic.

- **Scalable Expansion**

- Up to 12 units, 576 Gigabit ports per stack.  
- Switch units and optional 10-Gigabit modules can be gradually added as network need grows.

- **Trunking & Mirroring Across Stack**

Allows trunking and mirroring to span multiple switch units in the stack.

- **10-Gigabit Uplinks**

Open slots for optional 10-Gigabit modules for uplinks to network servers and backbone.

- **Full Layer 2 Functions**

802.1Q VLAN, Double VLAN, LACP Port Trunk, STP/RSTP/MSTP.

- **Enhanced Layer 2+ Functions**

- Layer 3 Routing: up to 128 Static Routes (IPv4/v6).  
- IPv6 tunneling.

- **Multicast Support**

IGMP Snooping, MLD Snooping.

These Gigabit switches comprise the enhanced Layer 2+ access layer stack designed for departmental Gigabit connection. Ideal for deployment at the network edge closer to workstations for maximum scalability, these switches can be seamlessly integrated with Layer 3 core switches through the optional 10-Gigabit uplinks to form part of a multi-layer network structured with high-speed backbone and centralized servers.

Optional 10-Gigabit modules can be installed in the open slots to create a physical stack. Up to 12 units can be stacked together to create 576 Gigabit ports. Users can install one or two 10-Gigabit ports as stacking interfaces, depending on whether the linear or fault-tolerant Ring stacking is implemented. Each stacking interface provides 20Gbps full duplex transmission on the cost-effective coaxial cable. Modules with single 10-Gigabit XFP can also be installed in any of the open slots for uplink to servers or a fiber backbone.

Alternatively, an enhanced Layer 2+ access layer Gigabit switch can operate as a stand-alone device. Embedded with Single IP Management capability, a stand-alone switch can form part of a virtual stack, where intra-stack traffic flows through the usual network wires, doing away with the costly stacking cables. Without stacking cables, cable distance barriers and physical stacking limitations, a virtual stack can comprise units that are located anywhere on the network to minimize the impact of any single point of failure.

- **Quality of Service (QoS)**

802.1p Priority Queues (8 queues), L2/L3/L4 Multi-Layer CoS.

- **Traffic Management**

Traffic Segmentation, Bandwidth Control Down to 64Kbps, Broadcast Storm Control, Jumbo Frame.

- **Safeguard Engine**

- Prevents ARP broadcast storm and protocol-based attacks.  
- ASIC is used to execute this prevention task to offload switch's CPU workload.

- **Administration**

Single IP Management, SNMP v1/v2c/v3, Web Management, Port Mirroring, CLI, Telnet, TFTP, Dual Image, BOOTP/DHCP relay, DHCP Relay Option 82, DHCP Auto Configuration, System log.

- **Security**

IP-MAC-Port Binding Port Security, L2/L3/L4 ACL, RADIUS/TACACS+ Authentication, SSH, SSL, 802.1X Port/MAC-based access control, MAC-based/Web-based Access Control (MAC/WAC), CPU Interface Filtering.

- **ZoneDefense**

Operates with D-Link NetDefend firewalls, automatically quarantines infected workstations and prevent them from flooding the network with malicious traffic.

- **Redundant Power Supply Support**

Optional external power supply for redundant power backup.

- **D-View SNMP Management**

Management software module provided for management under D-View.



### DGS-3426

#### 24-Port L2+ Gigabit Switch

- ◆ 24 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Open Slots for 10-Gigabit Modules
- ◆ 88Gbps Switch Capacity



### DGS-3426P

#### 24-Port L2+ PoE Gigabit Switch

- ◆ 24 802.3af PoE 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Open Slots for 10-Gigabit Modules
- ◆ 88Gbps Switch Capacity



### DGS-3427

#### 24-Port L2+ Gigabit Switch

- ◆ 24 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 3 Open Slots for 10-Gigabit Modules
- ◆ 108Gbps Switch Capacity



### DGS-3450

#### 48-Port L2+ Gigabit Switch

- ◆ 48 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Open Slots for 10-Gigabit Modules
- ◆ 136Gbps Switch Capacity



### DEM-410X

#### 1-Port 10-Gigabit Module

- ◆ 1 XFP Slot
- ◆ For Use as Uplink or Stacking Port



### DEM-410CX

#### 1-Port 10-Gigabit Module

- ◆ 1 CX4 Port
- ◆ For Use as Uplink or Stacking Port



### DEM-CB300CX

#### Twin-Axial Copper Cable

- ◆ 3 Meters' Cable Length
- ◆ For Use With DEM-410CX Module

## Core Gigabit Stack

### Features & Benefits

#### • Fault Tolerant Star & Ring Stacking

- Star stacking: units can connect to or disconnect from Stacking Master without any interruption to service of entire stack.
- Ring stacking: no interruption to service of entire stack if any link between two units is broken, as stack traffic is redirected toward opposite direction.

#### • High-Speed Physical Stacking

- Each stacking port provides 20Gbps full-duplex operation.
- Star stacking: full 120Gbps full-duplex bandwidth per stack.
- Ring stacking: shared 40Gbps full-duplex bandwidth per stack.

#### • Scalable Expansion

- Star stacking: up to 7 units, 312 Gigabit ports per stack.
- Ring stacking: up to 12 units, 384 Gigabit ports per stack.

#### • 10-Gigabit Fiber Uplinks

Open slots for optional 10-Gigabit modules for fiber uplinks to network servers and backbone (DXS-3326GSR & DXS-3350SR only).

#### • Complete Layer 2 Functions

802.1Q VLAN, LACP Trunking, STP/RSTP/MSTP.

#### • Layer 3 Routing/Redundancy

RIP, OSPF, VRRP.

#### • Multicast Support

IGMP Snooping, IGMP v3, DVMRP, PIM-DM/SM.

These switches comprise the network core devices that combine performance with scalable flexibility and versatile management. They offer physical Star and Ring stacking capability, fault tolerance, optional 10-Gigabit uplinks, Layer 3 packet routing and robust security/QoS -- all the features are typically found in the more expensive chassis-based solutions. For port density, this stack can provide up to 312 Gigabit ports in the Star architecture, or 384 Gigabit ports in the Ring topology.

Each switch is equipped with 2 stacking ports, each providing 10Gbps (20Gbps full-duplex) bandwidth. Up to 6 units can be stacked with a Stacking Master, itself equipped with 6 stacking ports for a 120Gbps full-duplex aggregated stacking bandwidth. Star stacking provides fault tolerance, as units can be added or removed without interrupting the service of the entire stack. The switches are stacked together through high-speed stack cables, allowing the entire stack to operate as a single high-performance entity. Alternatively, for installation sites with fewer switches to stack, shared 40Gbps Ring stacking topology can be employed, so users don't have to add a Stacking Master.

With Single IP Management support, users can easily add up to 32 switch units per stack outside of the physical stack. Multiple switches can be configured, monitored and maintained from any workstation running a web browser through one single IP address. The stack is managed as a single object, and all stacked units are identified by a single IP address.

These switches implement a robust set of multi-layer L2/L3/L4 features to ensure that critical network services like VoIP, ERP, Intranet and video conference are securely and well served. Powerful management tools including SNMP, RMON and web-based interfaces allow administrators to perform most management and configuration tasks effectively and with ease.

#### • Quality of Service

802.1p, 8 priority queues, L2/L3/L4 Multi-Layer CoS.

#### • Traffic Management

Traffic Segmentation, Bandwidth Control Down to 1Mbps, Broadcast Storm Control, Jumbo Frame.

#### • Security

Port Security, L2/L3/L4 ACL, RADIUS/TACACS+ Authentication, SSH/SSL, 802.1X Port/MAC-based access control.

#### • Redundant Power Supply Support

Optional external power supply for redundant power backup.

#### • Administration

Single IP Management, SNMP v1/v2c/v3, Web Management, Port Mirroring, CLI, Telnet, TFTP, Dual Image, BOOTP/DHCP relay, System Log.

#### • D-View SNMP Management

Management software module provided for management under D-View.

#### • ZoneDefense

Operates with D-Link NetDefend firewalls, automatically quarantines infected workstations and prevent them from flooding the network with malicious traffic.



#### DGS-3324SR

##### 24-Port L3 Gigabit Switch

- ◆ 24 10/100/1000BASE-T Gigabit Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Stacking Ports
- ◆ 88Gbps Switch Capacity



#### DGS-3324SRi

##### 24-Port L3 Gigabit Stacking Master

- ◆ 24 10/100/1000BASE-T Gigabit Ports
- ◆ 8 Combo SFP Slots
- ◆ 6 Stacking Ports
- ◆ 186Gbps Switch Capacity



#### DXS-3326GSR

##### 24-Slot L3 SFP Gigabit Switch

- ◆ 24 SFP Slots
- ◆ 4 Combo 10/100/1000BASE-T Gigabit Ports
- ◆ 1 Open Slot for 10-Gigabit Uplink Module
- ◆ 2 Stacking Ports
- ◆ 128Gbps Switch Capacity



#### DXS-3350SR

##### 48-Port L3 Gigabit Switch

- ◆ 48 10/100/1000BASE-T Gigabit Ports
- ◆ 4 Combo SFP Slots
- ◆ 1 Open Slot for 10-Gigabit Uplink Module
- ◆ 2 Stacking Ports
- ◆ 176Gbps Switch Capacity



#### DEM-420X

##### 2-Port 10-Gigabit Module

- ◆ 2 XFP Slots
- ◆ For Use With DXS-3326GSR, DXS-3350SR Switches



#### DEM-420CX

##### 2-Port 10-Gigabit Module

- ◆ 2 CX4 Ports
- ◆ For Use With DXS-3326GSR, DXS-3350SR Switches



#### DEM-CB300CX

##### Twin-Axial Copper Cable

- ◆ 3 Meters' Cable Length
- ◆ For Use With DEM-420CX Module



#### DEM-CB50

##### Stacking Cable

- ◆ Stacking Cable for DGS-3324SR, DGS-3324SRi, DXS-3326GSR, DXS-3350SR
- ◆ 50 cm's Cable Length



#### DEM-CB100

##### Stacking Cable

- ◆ Stacking Cable for DGS-3324SR, DGS-3324SRi, DXS-3326GSR, DXS-3350SR
- ◆ 1 Meter's Cable Length

XSTACK™

## Core Gigabit Stack

### Features & Benefits

- Fault Tolerant Ring Stacking**  
 No interruption to service of entire stack if any link between two units is broken, as stack traffic is redirected toward opposite direction.
- High-Speed Physical Stacking**  
 - Each stacking port provides 20Gbps full-duplex operation.  
 - Shared 40Gbps full-duplex bandwidth per stack.
- Scalable Expansion**  
 Up to 12 units, 576 Gigabit ports per stack.
- Trunking & Mirroring Across Stack**  
 Allows trunking and mirroring to span multiple switch units in the stack.
- 10-Gigabit Uplinks**  
 Open slots for optional 10-Gigabit modules for uplinks to network servers and backbone.
- Complete Layer 2 Functions**  
 802.1Q VLAN, Double VLAN, LACP Trunking, STP/RSTP/MSTP
- Layer 3 Functions**  
 - RIP v1/v2/ng, OSPF, VRRP  
 - Up to 256 IPv4 Static Routes, 128 Ipv6 Static Routes.
- Multicast Support**  
 IGMP Snooping, MLD Snooping, IGMP v1/v2/v3, DVMRP, PIM-DM/SM.
- Quality of Service**  
 802.1p, 8 priority queues, L2/L3/L4 Multi-Layer CoS.



These switches comprise the network core devices that combine performance with scalable flexibility and versatile management. They offer physical Ring stacking, fault tolerance, optional 10-Gigabit uplinks, Layer 3 packet routing and robust security/QoS -- all the features are typically found in the more expensive chassis-based solutions.

Optional 10-Gigabit modules can be installed in the open slots to create a physical stack. Up to 12 units can be stacked together to create 576 Gigabit ports. Users can install one or two 10-Gigabit ports as stacking interfaces, depending on whether the linear or fault-tolerant Ring stacking is implemented. Each stacking interface provides 20Gbps full duplex transmission on the cost-effective coaxial cable. Modules with single 10-Gigabit XFP can also be installed in any of the open slots for uplink to servers or a fiber backbone.

Alternatively, a core Gigabit switch can operate as a stand-alone device. Embedded with Single IP Management capability, a stand-alone switch can form part of a virtual stack, where intra-stack traffic flows through the usual network wires, doing away with the costly stacking cables. Without stacking cables, cable distance barriers and physical stacking limitations, a virtual stack can comprise units that are located anywhere on the network to minimize the impact of any single point of failure.

These switches implement the most advanced set of multi-layer L2/L3/L4 features in the xStack series to ensure that critical network services like VoIP, ERP, Intranet and video conference are securely and well served. Powerful management tools including SNMP, RMON, sFlow and web-based interfaces allow administrators to perform most management and configuration tasks effectively and with ease.

- Security**  
 IP-MAC-Port Binding Port Security, L2/L3/L4 ACL, RADIUS/TACACS+ Authentication, SSH/SSL, 802.1X Port/MAC-based access control, MAC-based/Web-based Access Control (MAC/WAC), CPU Interface Filtering.
- Traffic Management**  
 Traffic Segmentation, Bandwidth Control Down to 64Kbps, Broadcast Storm Control, Jumbo Frame.
- Administration**  
 Single IP Management, SNMP v1/v2c/v3, sFlow, Web Management, Port Mirroring, CLI, Telnet, TFTP, Flash File System, BOOTP/DHCP relay, DHCP Auto-Configuration, System Log.
- Redundant Power Supply Support**  
 Optional external power supply for redundant power backup.
- D-View SNMP Management**  
 Management software module provided for management under D-View.
- Safeguard Engine**  
 - Prevents ARP broadcast storm and protocol-based attacks.  
 - ASIC is used to execute this prevention task to offload switch's CPU workload.
- ZoneDefense**  
 Operates with D-Link NetDefend firewalls, automatically quarantines infected workstations and prevent them from flooding the network with malicious traffic.



**DGS-3612G**  
12-Port L3 Gigabit Switch

- ◆ 12 SFP Slots
- ◆ 4 Combo 10/100/1000BASE-T Ports
- ◆ 24Gbps Switch Capacity



**DGS-3627**  
24-Port L3 Gigabit Switch

- ◆ 24 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 3 Open Slots for 10-Gigabit Modules
- ◆ 108Gbps Switch Capacity



**DGS-3627G**  
24-Port L3 Gigabit Switch

- ◆ 24 SFP Slots
- ◆ 4 Combo 10/100/1000BASE-T Ports
- ◆ 3 Open Slots for 10-Gigabit Modules
- ◆ 108Gbps Switch Capacity



**DGS-3650**  
48-Port L3 Gigabit Switch

- ◆ 48 10/100/1000BASE-T Ports
- ◆ 4 Combo SFP Slots
- ◆ 2 Open Slots for 10-Gigabit Modules
- ◆ 136Gbps Switch Capacity



**DEM-410X**  
1-Port 10-Gigabit Module

- ◆ 1 XFP Slot
- ◆ For Use as Uplink or Stacking Port



**DEM-410CX**  
1-Port 10-Gigabit Module

- ◆ 1 CX4 Port
- ◆ For as Uplink or Stacking Port

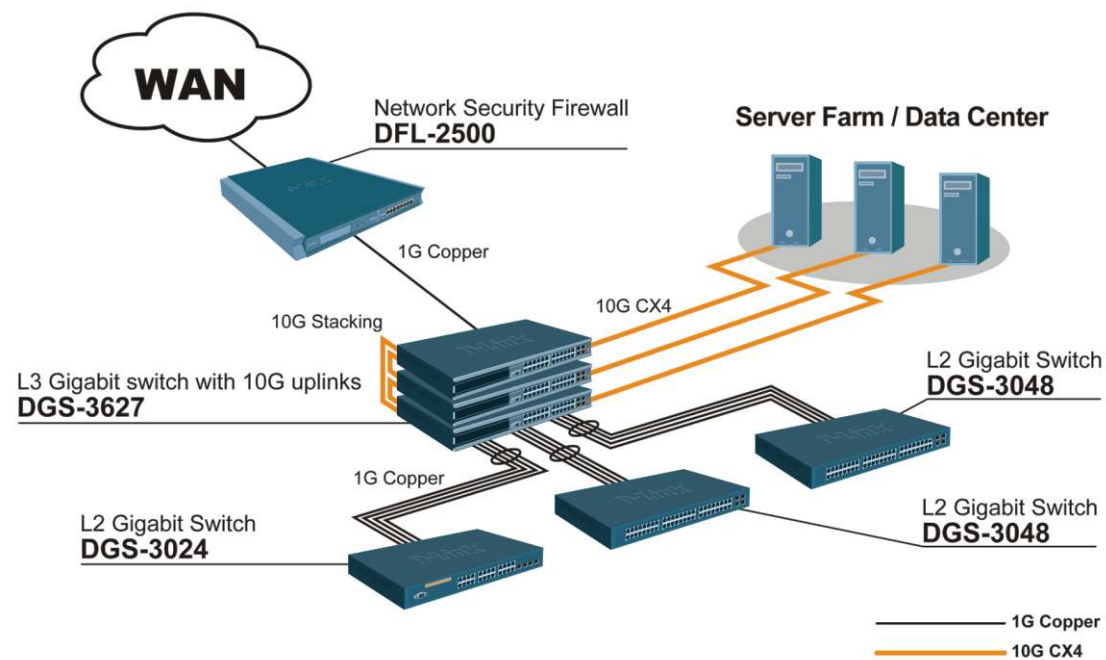


**DEM-CB300CX**  
Twin-Axial Copper Cable

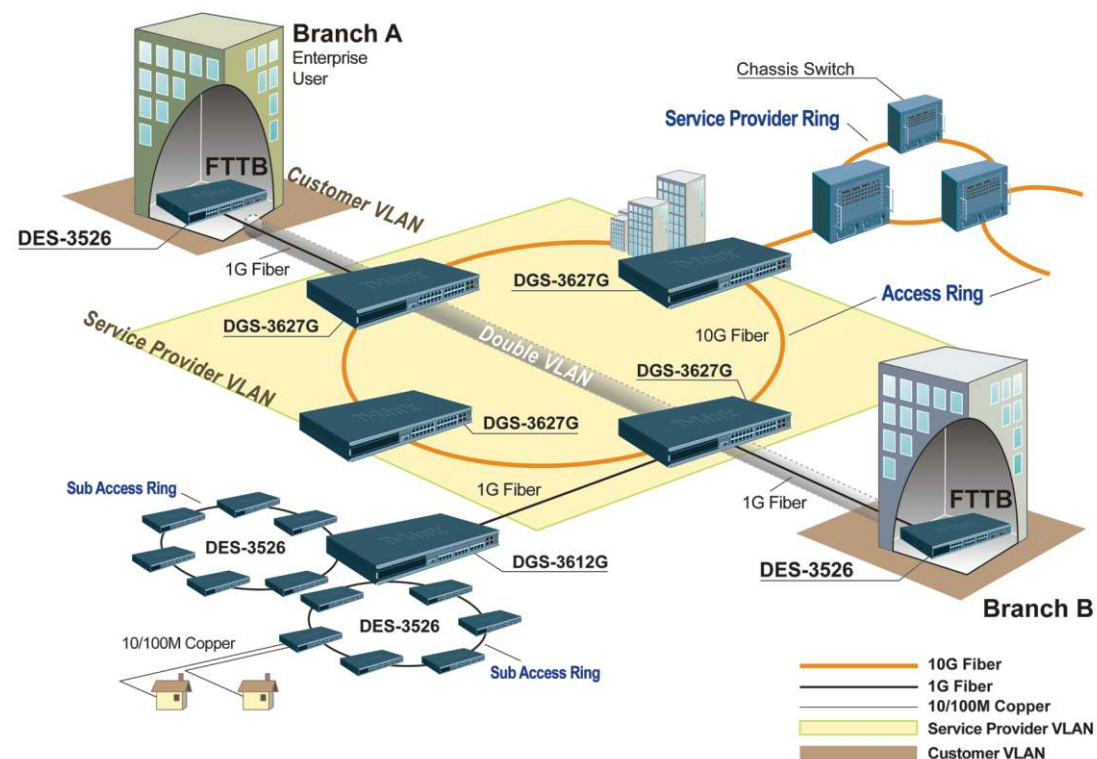
- ◆ 3 Meters' Cable Length
- ◆ For Use With DEM-410CX Module



## Deploying xStack Switches in an Enterprise Network



## Deploying xStack Switches in a Carrier Network



## Core Chassis

### Features & Benefits

- 9-Slot Chassis**
  - 1 CPU & Management module.
  - 8 card Slots for user-selectable port modules.
- High Port Density**

Users can select port modules to install maximum: 16 10-Gigabit slots for fiber SR, LR transceivers; 96 TP, SX or LX Gigabit ports; 96 FX fiber Ethernet ports; or 128 10/100Mbps Ethernet ports.
- Layer 2 Functions**

802.1Q VLAN, LACP Trunking, STP/RSTP/MSTP.
- Layer 3 Routing/Redundancy**

RIP, OSPF, VRRP.
- Multicast Support**

IGMP Snooping, IGMP v3, DVMRP, PIM-DM/SM.
- Quality of Service**

802.1p Priority Queues (8 queues), L2/L3/L4 Multi-Layer CoS.
- Traffic Management**

Traffic Segmentation, Bandwidth Control Down to 1Mbps, Broadcast Storm Control, Jumbo Frame.
- Security**

Port Security, L2/L3/L4 ACL, RADIUS/TACACS+ Authentication, SSH/SSL, 802.1X Port/MAC-based access control, CPU Interface Filtering.

This Layer 3 chassis switch provides configuration flexibility and performance necessary for deployment of a cost-effective enterprise, backbone and campus network. It provides a high density of Gigabit ports, 10-Gigabit support, high switch fabric capacity, fault tolerance, Quality of Service (QoS), and network security critical for enterprise applications.

Users can configure this chassis with up to 96 Gigabit ports, 16 10-Gigabit ports, 192 10/100Mbps Ethernet ports, 96 fiber Ethernet ports, or a combination of these. With 8 line card slots and a wide range of selectable port types, users can easily add and change modules to suit their requirements.

Using standards-based routing, this chassis provides instant support for Windows, Unix and Internet environments. Built-in wire-speed non-blocking switch fabric provides hardware-based packet filtering/forwarding.

This chassis switch implements an advanced set of multi-layer L2/L3/L4 features to ensure that critical network services like VoIP, ERP, Intranet and video conference are securely and well served. Powerful management tools including SNMP, RMON and web-based interfaces allow administrators to perform most management and configuration tasks effectively and with ease.



### DES-6500

#### 9-Slot L3 Chassis Switch

- ◆ CPU/Management Module Installed in Slot 1
- ◆ 8 Open Slots for Port Modules
- ◆ 160Gbps Switch Capacity
- ◆ 2 Slots for 2 DES-6511 Redundant Power Supply Units (1 DES-6511 Power Supply Unit Pre-Installed in Chassis)

- Safeguard Engine**
  - Prevents ARP broadcast storm and protocol-based attacks.
  - ASIC is used to execute this prevention task to offload switch's CPU workload.
- Redundant Power Supply Support**

Optional power supply installable in chassis for redundant power backup.
- Administration**

Single IP Management, SNMP v1/v2c/v3, Web Management, Port Mirroring, CLI, Telnet, TFTP, Dual Image, BOOTP/DHCP relay, System Log.
- D-View SNMP Management**

Management software module provided for management under D-View.



## Core Chassis



### DES-6504 12-Port 100BASE-FX Module

- ◆ 12 100BASE-FX Ports (SFF (LC) Connectors)
- ◆ Supports 2 km Multi-Mode Fiber



### DES-6508 16-Port 10/100BASE-TX Module

- ◆ 16 10/100BASE-TX Ports (RJ-45 Connectors)



### DES-6510 24-Port 10/100BASE-TX Module

- ◆ 24 10/100BASE-TX Ports (RJ-21 Connectors)



### DES-6506 24-Port Patch Panel Module

- ◆ Patch Panel for 24 RJ-45 Ports
- ◆ For Use With DES-6510 Port Module



### DES-6505 8-Port 1000BASE-SX Module

- ◆ 8 1000BASE-SX Gigabit Ports (SC Connector)
- ◆ Supports 550 m Multi-Mode Fiber



### DES-6507 12-Port 10/100/1000BASE-T Module

- ◆ 12 10/100/1000BASE-T Gigabit Ports
- ◆ 2 Combo SFP Slots



### DES-6509 12-Slot SFP Module

- ◆ 12 SFP Slots



### DES-6512 2-Port 10-Gigabit Module

- ◆ 2 XFP Slots



### DES-6511 Redundant Power Supply

- ◆ Input: 90 to 264 VAC, 47 to 63 Hz
- ◆ Output: 3.4VDC, 4 to 80A; 12VDC, 0.1 to 2A
- ◆ Up to 2 of This Power Supply Unit Can Be Installed in DES-6500 Chassis

## Managed Gigabit Switch

	Layer	Max. Port Density	10/100/1000 Ports	SFP	PoE Ports	Other Ports	Open Slots	Stacking Ports	Stackable Units	10-Gigabit Ports	Static Routing	Dynamic Routing	VLAN Groups	ACL	Single IP Mgmt
DGS-3312SR	L3	12	4,8 <sup>(2)</sup>	4 <sup>(1),8<sup>(2)</sup></sup>	-	-	2	12 <sup>(2)</sup>	1,12 <sup>(2)</sup>	-	✓	✓	255	✓	✓
DGS-3024	L2	24	24	4 <sup>(1)</sup>	-	-	-	-	-	-	-	-	255	-	-
DGS-3048	L2	48	48	4 <sup>(1)</sup>	-	-	-	-	-	-	-	-	255	-	-
DGS-3100-24	L2	24	24	4 <sup>(1)</sup>	-	-	-	2	6	-	-	-	256	✓	-
DGS-3100-24P	L2	24	24	4 <sup>(1)</sup>	24 <sup>(3)</sup>	-	-	2	6	-	-	-	256	✓	-
DGS-3100-48	L2	48	48	4 <sup>(1)</sup>	-	-	-	2	6	-	-	-	256	✓	-
DGS-3100-48P	L2	48	48	4 <sup>(1)</sup>	48 <sup>(3)</sup>	-	-	2	6	-	-	-	256	✓	-
DGS-3426	L2+	26	24	4 <sup>(1)</sup>	-	-	2	2 <sup>(2)</sup>	12	2 <sup>(2)</sup>	✓	-	4K	✓	✓
DGS-3426P	L2+	26	24	4 <sup>(1)</sup>	24 <sup>(3)</sup>	-	2	2 <sup>(2)</sup>	12	2 <sup>(2)</sup>	✓	-	4K	✓	✓
DGS-3427	L2+	27	24	4 <sup>(1)</sup>	-	-	3	2 <sup>(2)</sup>	12	3 <sup>(2)</sup>	✓	-	4K	✓	✓
DGS-3450	L2+	50	48	4 <sup>(1)</sup>	-	-	2	2 <sup>(2)</sup>	12	2 <sup>(2)</sup>	✓	-	4K	✓	✓
DGS-3324SR	L3	24	24	24 <sup>(1)</sup>	-	-	-	2	6,12 <sup>(4)</sup>	-	✓	✓	4K	✓	✓
DGS-3324SRi	L3	24	24	8 <sup>(1)</sup>	-	-	-	6	1,6 <sup>(4)</sup>	-	✓	✓	4K	✓	✓
DXS-3326GSR	L3	24	4 <sup>(1)</sup>	24	-	-	1	2	6,12 <sup>(4)</sup>	2 <sup>(2)</sup>	✓	✓	4K	✓	✓
DXS-3350SR	L3	50	48	4 <sup>(1)</sup>	-	-	1	2	6,12 <sup>(4)</sup>	2 <sup>(2)</sup>	✓	✓	4K	✓	✓
DGS-3612G	L3	12	4 <sup>(1)</sup>	12	-	-	-	-	-	-	✓	✓	4K	✓	✓
DGS-3627	L3	27	24	4 <sup>(1)</sup>	-	-	3	2 <sup>(2)</sup>	12	3 <sup>(2)</sup>	✓	✓	4K	✓	✓
DGS-3627G	L3	27	4 <sup>(1)</sup>	24	-	-	3	2 <sup>(2)</sup>	12	3 <sup>(2)</sup>	✓	✓	4K	✓	✓
DGS-3650	L3	50	48	4 <sup>(1)</sup>	-	-	2	2 <sup>(2)</sup>	12	2 <sup>(2)</sup>	✓	✓	4K	✓	✓
DES-6500	L3	192	96 <sup>(2)</sup>	96 <sup>(2)</sup>	-	192,64 <sup>(5)</sup>	8	-	-	16 <sup>(2)</sup>	✓	✓	4K	✓	✓

<sup>(1)</sup> Combo ports  
<sup>(2)</sup> Optional ports

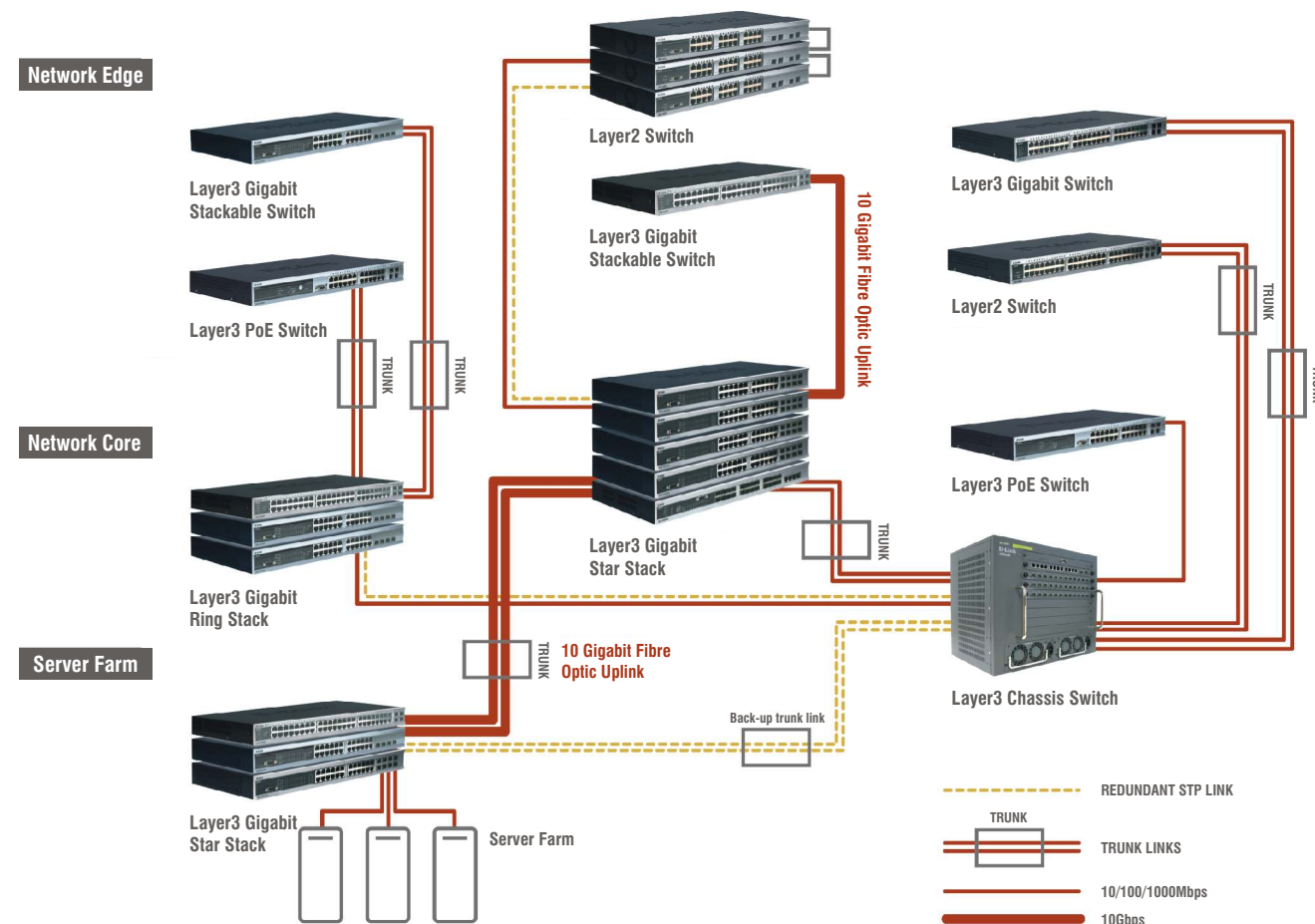
<sup>(3)</sup> 802.3af PoE function is integrated into 10/100/1000Mbps ports

<sup>(4)</sup> Star stacking: 6 DGS-3324SR, DXS-3326GSR or DXS-3350SR units + 1 DGS-3324SRi stacking master; Ring stacking: 12 units

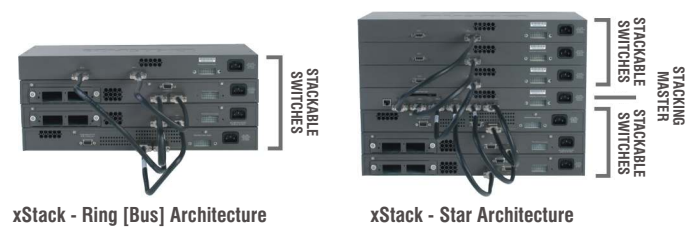
<sup>(5)</sup> Up to 192 10/100Mbps optional ports, 64 100BASE-FX optional ports, 64 1000BASE-SX optional ports

<sup>(6)</sup> 1 DGS-3312SR stacking master + 12 DES-3226S or DES-3326SR units.

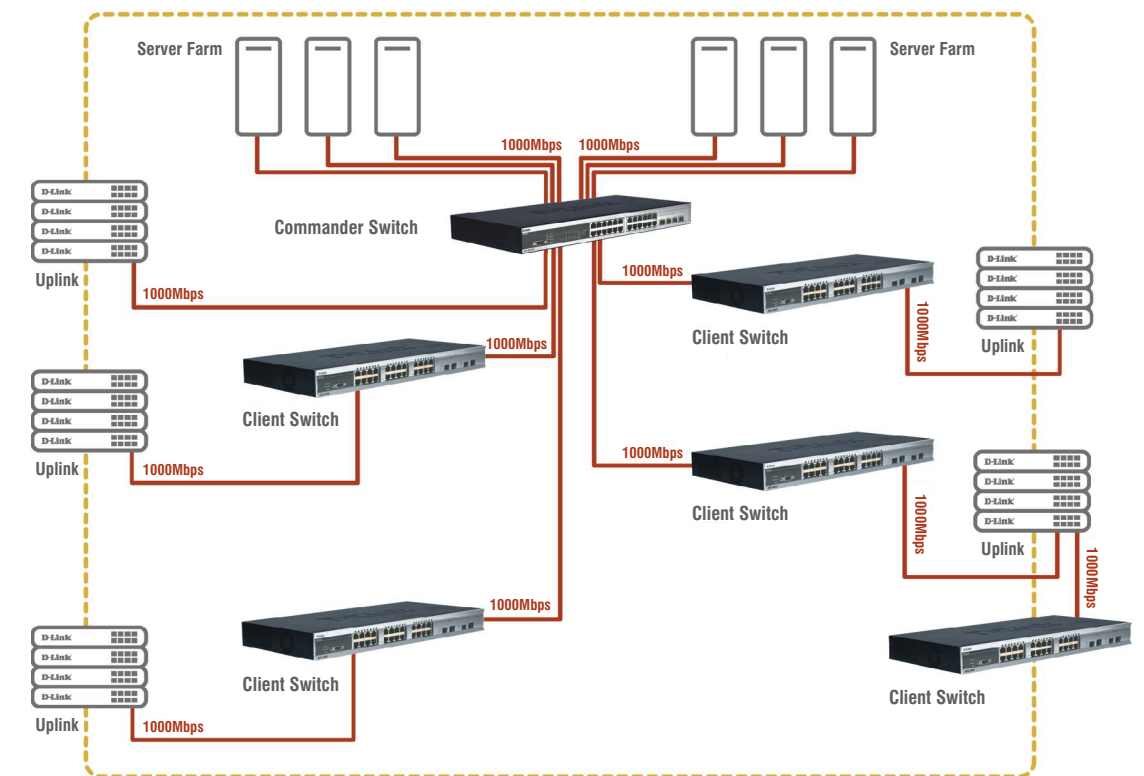
## xStack Network Solution



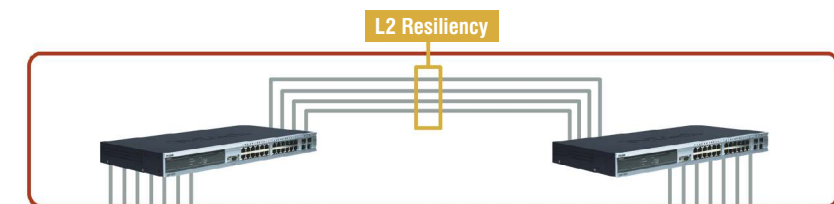
### Stack Architectures (Ring/Star)



## Single IP Management - Control up to 32 Devices via One IP Address



### Layer3 Core



### L3 Redundancy



### Layer2 Edge



## iSCSI for IP Networks

### Features & Benefits

#### • Embedded Centralized Storage Management

- Embedded IP-SAN Device Manager (IDM) allows monitoring/control of SAN via SMI-S (Storage Management Initiative) command set.
- Embedded secure server for remote configuration/monitoring of SAN storage subsystems.

#### • Advanced Management Features

- Additional advanced features for efficient management of network storage and optimal performance.

#### • Adaptive/Persistent Cache Management

- Provides write-back, write-through, write coalescing, multi-stream read-ahead on a volume basis.
- Optimizes cache utilization and performance in an application dependent manner.

#### • VLAN Zoning

- 802.1Q VLAN tagging to segregate traffic into isolated zones for secure access.
- Jumbo frames to improve network throughput/reduce CPU overhead.

#### • QoS

- 802.1p Priority Queues for time-sensitive packets.

#### • Volume Virtualization

- Storage management software stack for volume virtualization utilizing concept of storage Extents.
- Fundamental building blocks to enable RAID, online capacity expansion, volume migration.



The Storage Area Networks (SANs) are designed to provide a reliable network data storage solution for customers in entry-level and SMB segments. Utilizing a 10-Gigabit iSCSI System-on-a-Chip (SoC) solution that can handle over 65,000 I/Os per second and capable of supporting over 11TB raw capacity using high-capacity hard drives, these SANs can easily be implemented as near line storage to supplement primary IP network storage solution or be used as a basic backup and recovery device. This evolutionary advancement in performance is a testament to the tightly integrated xStack Storage architecture and is a sharp contrast to the discrete implementation of competing products.

D-Link SANs provide the industry's first built-in, fully integrated 10-Gigabit interface, providing up to 1160MBytes bandwidth and a high performance alternative to the 4Gbps Fiber Channel.

By utilizing a SoC design, D-Link SANs combine both networking and storage functions into a single specialized Application Specific Integrated Circuit (ASIC). The SoC solution combines 10-Gigabit iSCSI, TCP & IP offload, embedded processors, and a storage virtualization firmware stack onto a single chip. The tight integration of these functions eliminate interoperability, timing, and support issues found in competitive products that offer "discrete implementation" wherein a chassis, a main motherboard, a RAID storage controller, iSCSI software or controller, network interface cards, and operating system software are picked separately and then assembled. D-Link SANs outperform these discrete implementations and do so at a lower price point. They also deliver mission critical data quickly with state-of-the-art reliability.



**DSN-3200**

#### Gigabit iSCSI SAN Array

- ◆ Integrated iSCSI System-on-a-Chip (SoC)
- ◆ 8 10/100/1000BASE-T Ports
- ◆ 15 Drive Bays
- ◆ Over 11TB Capacity with 750GB Hard Drives
- ◆ Embedded Disk Controller Supporting RAID Levels 0, 1, 1+0, 5 & JBOD
- ◆ Up to 850MB Bandwidth
- ◆ 256MB to 4GB (256MB standard) Cache Memory
- ◆ 72 hrs Full Charge Battery Backup for Cache

- Drives of dissimilar sizes can be used to create volumes.
- Growth can occur without volume migration or reconstruction.



**DSN-3400**

#### 10-Gigabit iSCSI SAN Array

- ◆ Integrated iSCSI System-on-a-Chip (SoC)
- ◆ 1 10-Gigabit Port
- ◆ 15 Drive Bays
- ◆ Over 11TB Capacity with 750GB Hard Drives
- ◆ Embedded Disk Controller Supporting RAID Levels 0, 1, 1+0, 5 & JBOD
- ◆ Up to 1,160Mbytes Bandwidth
- ◆ 256MB to 4GB (256MB standard) Cache Memory
- ◆ 72 hrs Full Charge Battery Backup for Cache

- Single drives can contain multiple and divergent RAID technologies.
- Volume structure can provide infrastructure for Snapshot copies.

## D-View SNMP Network Management

### Features & Benefits

#### • SNMP Management

- Cost-effective, easy-to-use SNMP management software for management of workgroup/departmental networks.
- SNMP v1/v2c/v3 support for all major MIBs.

#### • Modular Structure

- Structured into an independent platform and plug-in modules for D-Link devices.

#### • Third-Party Device Support

- MIB compiler & MIB Browser allow easy management of third-party devices under the same platform.

#### • Multi-Layer Management

- Layer 3 utilities to manage Layer 3 switches and advanced routers.

#### • Versatile, Easy-to-Use Functions

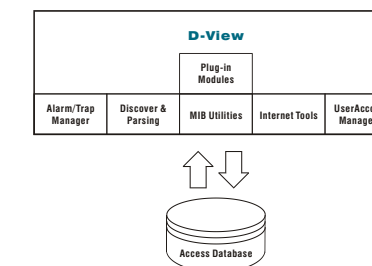
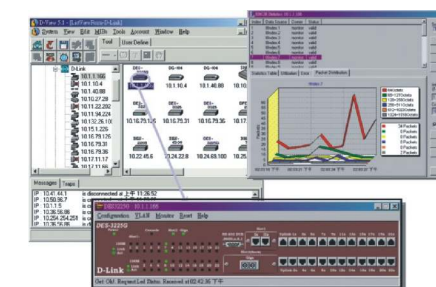
- Topology creation program useful for network design and layout planning.
- Multiple views to view objects in Ethernet domain by "tree".
- Trap/Alarm notification by e-mail.
- Database in familiar Microsoft Access format.

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 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.

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 D-Link devices to be managed.

Network administrators can manage non-D-Link SNMP devices without plug-in modules. D-View provides a MIB compiler for users 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 value for the MIB objects. 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.

D-View Professional Version	DS-501P
D-View Professional Version (Simplified Chinese)	DS-501P/CN
D-View Standard Version	DS-501S



D-View Vendor-Independent Platform and Users' Plug-In Modules



## Redundant Power Supply

### Features & Benefits

- Connect to Ethernet and Gigabit Switches
- Provide Backup Power for Switch's Built-in Power Supply
- Can be Installed as Stand-Alone Power Supply Units or Mounted in 19-Inch Multi-Slots Chassis
- Hot Swappable When Installed in Chassis
- Solid Metal Case Housing
- LED Status Indicators

The redundant power supply connects to an Ethernet or Gigabit switch to provide backup power for the built-in power supply units inside the switch. The redundant power supply can be installed as a stand-alone power supply unit, or mounted in a DPS-900 or DPS-800 chassis. The chassis has multiple slots that can accommodate several redundant power supply units, and can be mounted in a standard 19-inch equipment rack. All RPS units have solid metal case housing and LED status indicators. As they are independent units, they are hot swappable when used with the chassis.



#### DPS-300

##### Redundant Power Supply

- ◆ Maximun 90 Watts' Output Power
- ◆ 90 to 264 Volts, 47 to 63Hz AC Input Range
- ◆ Over Current Protection
- ◆ Mountable in DPS-800 or DPS-900 Chassis



#### DPS-600

##### Redundant Power Supply

- ◆ Maximun 500 Watts' Output Power
- ◆ 90 to 264 Volts, 47 to 63Hz AC Input Range
- ◆ Over Current Protection
- ◆ 19-Inch Width for Mounting in Standard Equipment Rack



#### DPS-500

##### Redundant Power Supply

- ◆ Maximun 140 Watts' Output Power
- ◆ 90 to 264 Volts, 47 to 63Hz AC Input Range
- ◆ Over Current Protection
- ◆ Mountable in DPS-800 or DPS-900 Chassis



#### DPS-800

##### 2-Slot Chassis

- ◆ 2 Slots Accommodating 2 RPS Units
- ◆ 19-Inch Width for Mounting in Standard Equipment Rack



#### DPS-200

##### Redundant Power Supply

- ◆ Maximun 60 Watts' Output Power
- ◆ 90 to 264 Volts, 47 to 63Hz AC Input Range
- ◆ Over Current Protection
- ◆ Mountable in DPS-800 or DPS-900 Chassis



#### DPS-CB400

##### Power Cable

- ◆ Power Cable for DPS-200, DPS-300 & DPS-500 RPS
- ◆ 4 Meter's Cable Length



#### DPS-900

##### 8-Slot Chassis

- ◆ 8 Slots Accommodating 8 RPS Units
- ◆ 19-Inch Width for Mounting in Standard Equipment Rack

### Redundant Power Supply & LAN Switch Compatibility

Switch	RPS	DPS-200 (60 Watts)	DPS-300 (90 Watts)	DPS-500 (140 Watts)	DPS-600 (500 Watts)
DES-3326SR		✓			
DES-3350SR		✓			
DES-3400-28		✓			
DES-3400-28P					✓
DES-3400-52		✓			
DES-3400-52P					✓
DES-3526		✓			
DES-3550		✓			
DES-3700-28		✓			
DES-3700-28M		✓			
DES-3828		✓			
DES-3828P					✓
DES-3852		✓			
DGS-3024			✓		
DGS-3048				✓	
DGS-3100-24			✓		
DGS-3100-48				✓	
DGS-3100-24P					✓
DGS-3100-48P					✓
DGS-3224TGR			✓		
DGS-3312SR			✓		
DGS-3426				✓	
DGS-3427				✓	
DGS-3450				✓	
DGS-3324SR				✓	
DGS-3324SRi				✓	
DXS-3326SR				✓	
DXS-3350SR				✓	
DGS-3612G				✓	
DGS-3627				✓	
DGS-3627G				✓	
DGS-3650				✓	

## Keyboard, Video, Mouse Switch

### Features & Benefits

#### • Save Money & Desktop Space

- Users with two PCs who need to use them at the same time can control their computers from a set of keyboard, monitor and mouse.
- Users of small laptop computers can connect a better, bigger monitor to connect both computers.
- Useful for home users, test labs and IT personnel.

#### • Auto-Scan Connected Servers/Computers

Automatic refreshing to see if connected computers are still "alive".

#### • Audible Signaling

Audible feedback for confirmation while switching back and forth between connected computers.

#### • Audio Socket

- Allows two connected PC to share a single set of speakers.
- Connects to a headphone.

#### • Flexible Computer Selection Methods

Users can select a connected computer by pushing a button on the KVM switch or by pressing a combination of "hot keys" on the keyboard.

#### • Direct Power Input From Connected Computers

No need to attach an external power adapter or power cable to the KVM switch.

The Keyboard, Video, Mouse (KVM) switch allows users to control of several computers or servers through a single keyboard, monitor and mouse. The computers and servers are connected to a KVM switch. From a single console, users can switch back and forth among the computers with a push of a button or hot keys. It's a very cost-effective way to control multiple computers that do different tasks.

The KVM switch over IP provides remote KVM access via a LAN or an Internet connection to a server. Designed for server control, this appliance integrates KVM, network connection and external modem support in a one-box solution.



**DKVM-2K**  
2-Port KVM Switch

- ◆ 2 KVM Ports
- ◆ PS/2 Keyboard & Mouse Support
- ◆ 2 Sets of 1.8 m KVM Cables Attached to KVM Switch



**KVM-121**  
2-Port KVM Switch

- ◆ 2 KVM Ports
- ◆ PS/2 Keyboard & Mouse Support
- ◆ Audio Socket to Connect to Audio Device
- ◆ 2 Sets of 1.8 m KVM Cables Attached to KVM Switch



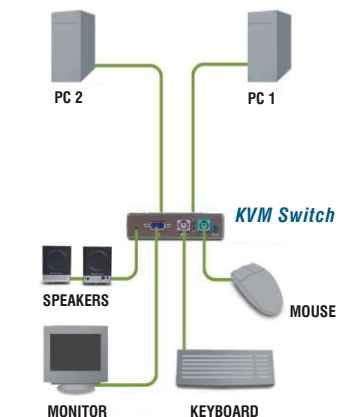
**KVM-221**  
2-Port USB KVM Switch

- ◆ 2 KVM Ports
- ◆ Audio Socket to Connect to Audio Device
- ◆ USB Keyboard & Mouse Support
- ◆ 2 Sets of 1.8 m KVM With Audio Cables Attached to KVM Switch



**DKVM-2KU**  
2-Port KVM Switch With USB Port

- ◆ 2 KVM Ports
- ◆ 1 USB 2.0 Port to Share USB Device Between 2 Connected PCs
- ◆ PS/2 Keyboard & Mouse Support
- ◆ 2 Sets of 1.8 m KVM Cables Attached to KVM Switch



**DKVM-4K**  
4-Port KVM Switch

- ◆ 4 KVM Ports
- ◆ PS/2 Keyboard & Mouse Support
- ◆ 2 Sets of 1.8 m KVM Cables Provided



**DKVM-4U**  
4-Port USB KVM Switch

- ◆ 4 KVM Ports
- ◆ USB Keyboard & Mouse Support
- ◆ 2 Sets of 1.8 m KVM Cables Provided



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

- ◆ 8 KVM Ports
- ◆ Stackable to 8 Units Per Stack
- ◆ Stackable With 16-Port DKVM-16 Switches
- ◆ 19-Inch Equipment Rack-Mountable
- ◆ PS/2 Keyboard & Mouse Support
- ◆ 2 Sets of 1.8 m KVM Cable Provided
- ◆ 1 Set of 1 m KVM Stacking Cable Provided
- ◆ External Power Adapter



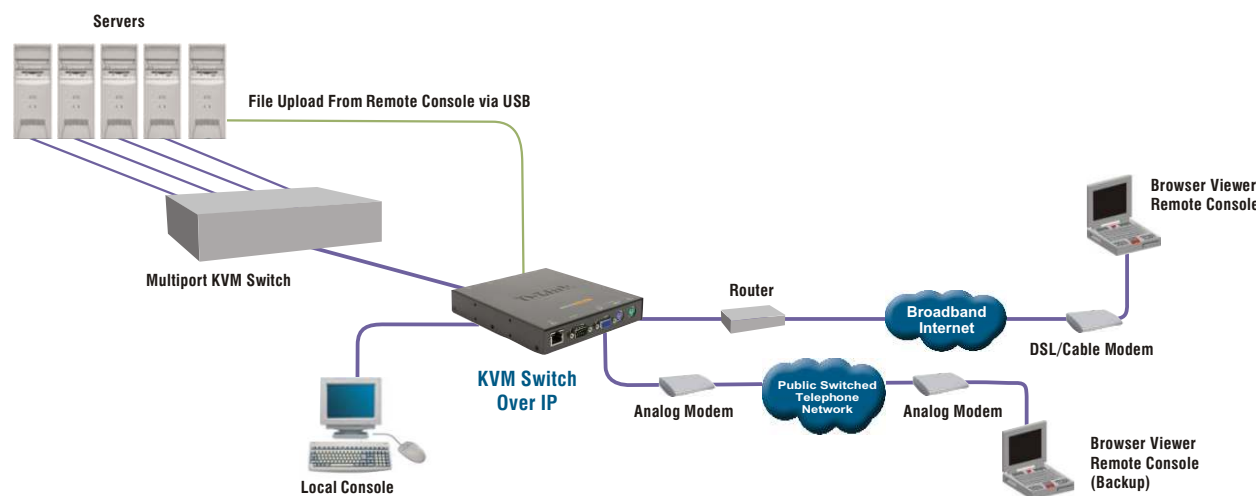
**DKVM-16**  
16-Port KVM Stackable Switch

- ◆ 16 KVM Ports
- ◆ Stackable to 8 Units Per Stack
- ◆ Stackable With 8-Port DKVM-8E Switch
- ◆ 19-Inch Equipment Rack-Mountable
- ◆ PS/2 Keyboard & Mouse Support
- ◆ 2 Sets of 1.8 m KVM Cable Provided
- ◆ 1 Set of 1 m KVM Stacking Cable Provided
- ◆ External Power Adapter



**DKVM-IP1**  
1-Port KVM Switch Over IP

- ◆ For Remote Control of Servers
- ◆ 1 KVM Port Connection to Server
- ◆ Ethernet Port for LAN or Internet Connection
- ◆ RS-232 Modem Port for Backup
- ◆ PS/2 Keyboard & Mouse Support
- ◆ USB 2.0 Port for Remote Connection to Server Hard Disk
- ◆ 256-Bit SSL Encryption for Data Encryption Over Internet
- ◆ Can Connect to Other KVM Switches to Expand KVM Port Density



Remote Access to servers Through KVM over IP

## Chassis-Based Media Converter

### Features & Benefits

- Convert Signals on Twisted-Pair Copper Cables to Signals on Fiber Cables
- Convert Signals on Multi-Mode Fiber Cables to Signals on Single-Mode Fiber Cables
- Extend Network Distance to Various Lengths
- Can Be Used as Stand-Alone Converters or Installed in Standard Rack-Mount Chassis
- Redundant Power Supply Option for Chassis-Based Configuration
- Optional Management Module to Manage Media Converters Installed in Chassis

The media converter converts signals for transmission on one type of cable to signals for transmission on another type of cable. This allows IT personnel to connect longer distance fiber cables between devices that are designed only for shorter distance cables, such as the Cat. 5 twisted-pair cable.

Each media converter is housed in a solid metal case, complete with LED status indicators and AC to DC power adapter. It can be used as stand-alone converter, or installed in a chassis. In case it is installed in the chassis, the metal case must be removed and the PC board is slid into a chassis slot. The chassis's power supply will be used instead of the media converters' own AC to DC power adapters. All 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 users monitor in real-time the status of all media converters and power supplies in the chassis. It also sends out alarms to alert users of abnormal situations. Management follows industry standards, including SNMP and http, allowing users to monitor and manage from a third-party SNMP management workstation or via a web browser.



#### DMC-300M

##### Twisted-Pair to Fiber Ethernet Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Signals
- ◆ Extends Network Distance Up to 2 km on Multi-Mode Fiber Cable
- ◆ MT-RJ Fiber Connector



#### DMC-515SC

##### Twisted-Pair to Fiber Ethernet Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Signals
- ◆ Extends Network Distance Up to 15 km on Single-Mode Fiber Cable



#### DMC-300SC

##### Twisted-Pair to Fiber Ethernet Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Signals
- ◆ Extends Network Distance Up to 2 km on Multi-Mode Fiber Cable



#### DMC-530SC

##### Twisted-Pair to Fiber Ethernet Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Signals
- ◆ Extends Network Distance Up to 30 km on Single-Mode Fiber Cable



#### DMC-560SC

##### Twisted-Pair to Fiber Ethernet Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Signals
- ◆ Extends Network Distance Up to 60 km on Single-Mode Fiber Cable



#### DMC-615SC

##### Fiber to Fiber Ethernet Media Converter

- ◆ Converts 100BASE-FX Multi-Mode Fiber to 100BASE-FX Single-Mode Fiber Signals
- ◆ Extends Network Connection Up to 15 km on Single-Mode Fiber Cable



#### DMC-700SC

##### Twisted-Pair to Fiber Gigabit Media Converter

- ◆ Converts 1000BASE-T Gigabit Twisted-Pair to 1000BASE-SX Gigabit Fiber Signals
- ◆ Extends Network Distance Up to 550 m on Multi-Mode Fiber Cable
- ◆ Link Pass-Through Function



#### DMC-805G

##### Twisted-Pair to Fiber Gigabit Media Converter

- ◆ Converts 1000BASE-T Twisted-Pair to 1000BASE-SX/LX Gigabit Fiber Signals
- ◆ SFP Slot for of User-Selectable Fiber Transceiver
- ◆ Extends Network Connection to Various Lengths Depending on SFP Transceiver Capability
- ◆ Link Pass-Through Function



#### DMC-810SC

##### Twisted-Pair to Fiber Gigabit Media Converter

- ◆ Converts 1000BASE-T Gigabit Twisted-Pair to 1000BASE-LX Gigabit Fiber Signals
- ◆ Extends Network Distance Up to 10 km on Single-Mode Fiber Cable
- ◆ Link Pass-Through Function



#### DMC-820SC

##### Twisted-Pair to Fiber Gigabit Media Converter

- ◆ Converts 1000BASE-T Gigabit Twisted-Pair to 1000BASE-LX Gigabit Fiber Signals
- ◆ Extends Network Distance Up to 20 km on Single-Mode Fiber Cable
- ◆ Link Pass-Through Function



#### DMC-1530SC

##### Twisted-Pair to Fiber Ethernet Smart Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Fiber Signals
- ◆ Extends Network Distance Up to 30 km on Single-Mode Fiber Cable
- ◆ Provides Intelligent Functions Such as LLCF, LLR
- ◆ Link Pass-Through Function



#### DMC-1580SC

##### Twisted-Pair to Fiber Ethernet Smart Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Fiber Signals
- ◆ Extends Network Distance Up to 80 km on Single-Mode Fiber Cable
- ◆ Provides Intelligent Functions Such as LLCF, LLR
- ◆ Link Pass-Through Function



#### DMC-1000

##### Media Converter Chassis

- ◆ 16 Bays to House Up to 16 Media Converters
- ◆ Standard 19-Inch Rack-Mountable
- ◆ Hot Swapping of Media Converters
- ◆ Hot Swappable Redundant Power Supply
- ◆ Power Redundancy & Power Isolation
- ◆ 1 Universal Internal AC to DC Power Supply Provided
- ◆ Second AC to DC Power Supply for Load-Sharing Purposes (Optional)
- ◆ Media Converter Power Isolation for Electrical Isolation From Each Bay

## Chassis-Based Media Converter



### DMC-1001 Redundant Power Supply

- ◆ 90 to 260 VAC/47 to 63 Hz Auto-Switching Input Power
- ◆ Power Overload Protection
- ◆ Load Sharing Support When 2 of This RPS Installed in DMC-1000 Chassis



### DMC-1002 Management Module

- ◆ SNMP/Web-Based Standards
- ◆ 10/100BASE-TX Ethernet & RS-232 Console Ports
- ◆ Real-Time Display of Link, Speed, Duplex Status of Media Converters
- ◆ Menu-Driven Terminal Program for Management via Console Port or Telnet
- ◆ Built-in SNMP Agent
- ◆ Supported Traps: Cold start, Warm Start, Authentication Fail, Power Fail, Fan Fail, Module Insertion, Module Pullout, Port Link Down, Port Link Up
- ◆ Factory Reset & Remote Software Reboot
- ◆ Remote Setting of Configurations of Smart Media Converters (LLCF Enable, LLR Enable, Port Enable, Auto-Negotiation Enable)
- ◆ Configuration Setting Upload/Download Through TFTP/Web
- ◆ TFTP/Web-Based Firmware Upgrade

Media Converter	Media Type Conversion	Max. Cable Length	Network Speed	Fiber Connector	Wave Length	Min. Tx Power (Launch Power)	Max. Tx Power (Launch Power)	Sensitivity	Power Budget
DMC-300M	Copper to Multi-Mode Fiber	2 km	100Mbps	MT-RJ	1300 nm	-23.5 dB	-14 dB	-31 dB	7.5 V
DMC-300SC	Copper to Multi-Mode Fiber	2 km	100Mbps	SC	1300 nm	-23.5 dB	-14 dB	-31 dB	7.5 V
DMC-515SC	Copper to Single-Mode Fiber	15 km	100Mbps	SC	1310 nm	-20 dB	0 dB	-32 dB	12 V
DMC-530SC	Copper to Single-Mode Fiber	30 km	100Mbps	SC	1310 nm	-15 dB	-8 dB	-34 dB	19 V
DMC-560SC	Copper to Single-Mode Fiber	60 km	100Mbps	SC	1310 nm	-5 dB	0 dB	-35 dB	30 V
DMC-615SC	Multi-Mode to Single-Mode Fiber	15 km	100Mbps	SC	1310 nm	-15 dB	-8 dB	-31 dB	16 V
DMC-700SC	Copper to Multi-Mode Fiber	550 m	1Gbps	SC	850 nm	-9.5 dB	-4 dB	-12.5dB	3 V
DMC-805G	Copper to Fiber	-	1Gbps	SFP Slot	-	-	-	-	-
DMC-810SC	Copper to Single-Mode Fiber	10 km	1Gbps	SC	1300 nm	-9.5 dB	-3 dB	-14.4 dB	4.9 V
DMC-920R	Copper to Single-Mode Fiber	20 km	100Mbps	SC	Tx: 1310 nm Rx: 1550 nm	-15 dB	-7 dB	-32 dB	17 V
DMC-920T	Copper to Single-Mode Fiber	20 km	100Mbps	SC	Tx: 1550 nm Rx: 1310 nm	-18 dB	-7 dB	-32 dB	14 V
DMC-1530SC	Copper to Single-Mode Fiber	30 km	100Mbps	SC	1310 nm	-15 dB	-8 dB	-34 dB	19 V
DMC-1580SC	Copper to Single-Mode Fiber	80 km	100Mbps	SC	1550 nm	-5 dB	0 dB	-35 dB	30 V
DMC-1910R	Copper to Single-Mode Fiber	15 km	1Gbps	LC	Tx: 1310 nm Rx: 1550 nm	-9 dB	-3 dB	-21 dB	12 V
DMC-1910T	Copper to Single-Mode Fiber	15 km	1Gbps	LC	Tx: 1550 nm Rx: 1310 nm	-9 dB	-3 dB	-21 dB	12 V
DFE-855	Copper to Multi-Mode Fiber	2 km	100Mbps	SC	1310 nm	-19 dB	-14 dB	-34 dB	5 V

## WDM Media Converter

### Features & Benefits

- No Budget Loss
- Minimal Reflection
- 1310 Micron Tx Wavelength
- 1550 Micron Rx Wavelength
- LLR Enable/Disable
- Fiber Auto-Negotiation/Manual

The WDM media converters use the Wavelength Division Multiplexing (WDM) single wavelength single-fiber technology for connection to avoid budget losses. These media converters are used in pair; each pair combines transmission (Tx) and reception (Rx) signals into one fiber strand using two wavelengths.

Each WDM media converter is housed in a solid metal case, complete with LED status indicators and AC to DC power adapter. It can be used as stand-alone converter, or installed in a DMC-1000 chassis. In case it is installed in the chassis, the metal case must be removed and the PC board is slid into a chassis slot. The chassis's power supply will be used instead of the media converters' own AC to DC power adapters. All WDM media converters are hot swappable when used with the chassis.



### DMC-1910R Twisted-Pair to Fiber Gigabit WDM Media Converter

- ◆ Converts 1000BASE-T Gigabit Twisted-Pair to 1000BASE-LX Gigabit Fiber Signals
- ◆ Uses in Pair With DMC-1910T or Equivalent Device
- ◆ Up to 15 km Single-Mode Fiber Cable Length



### DMC-920T Twisted-Pair to Fiber Ethernet WDM Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Fiber Signals
- ◆ Uses in Pair With DMC-920R or Equivalent Device
- ◆ Extends Network Distance Up to 20 km on Single-Mode Fiber Cable



### DMC-920R Twisted-Pair to Fiber Ethernet WDM Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Fiber Signals
- ◆ Uses in Pair With DMC-920T or Equivalent Device
- ◆ Extends Network Distance Up to 20 km on Single-Mode Fiber Cable



### DMC-1910T Twisted-Pair to Fiber Gigabit WDM Media Converter

- ◆ Converts 1000BASE-T Gigabit Twisted-Pair to 1000BASE-LX Gigabit Fiber Signals
- ◆ Uses in Pair With DMC-1910R or Equivalent Device
- ◆ Up to 15 km Single-Mode Fiber Cable Length

## Stand-Alone Media Converter

The stand-alone media converters are stand-alone devices that plug directly to the network switches, installed independently of any media converter chassis. They are cost-effective devices that convert twisted-pair Ethernet cable signals to fiber Ethernet cable signals.









### DFE-855 Twisted-Pair to Fiber Ethernet Media Converter

- ◆ Converts 10/100BASE-TX to 100BASE-FX Signals
- ◆ Extends Network Distance Up to 2 km on Multi-Mode Fiber Cable



## GBIC Transceiver




	DGS-707	DEM-310GM2
		
<b>Cable</b>	Multi-Mode Fiber	Multi-Mode Fiber
<b>Fiber Type</b>	50/125um or 62.5/125um Multi-Mode	62.5/125um Multi-Mode
<b>Max. Cable Length</b>	550 m	2 km
<b>Standard</b>	802.3z 1000BASE-SX	802.3z 1000BASE-LX
<b>Data Rate</b>	1 Gbps	1 Gbps
<b>Port Type</b>	SC	SC
<b>Wave Length</b>	850 nm	1310 nm
<b>Power Support</b>	3.3V/5V	3.3V/5V



	DGS-703	DGS-704	DGS-708	DGS-711
				
<b>Cable</b>	Single-Mode Fiber	Single-Mode Fiber	Single-Mode Fiber	Cat. 5 Twisted-Pair
<b>Fiber Type</b>	9/125um Single-Mode	9/125um Single-Mode	9/125um Single-Mode	-
<b>Max. Cable Length</b>	10 km	40 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>Data Rate</b>	1 Gbps	1 Gbps	1 Gbps	1 Gbps
<b>Port Type</b>	SC	SC	SC	RJ-45
<b>Wave Length</b>	1310 nm	1310 nm	1550 nm	-
<b>Power Support</b>	3.3V/5V	3.3V/5V	3.3V/5V	3.3V/5V

## Wavelength Division Multiplexing (WDM) Bi-Directional SFP Transceiver




	DEM-330T	DEM-330R	DEM-331T	DEM-331R
				
<b>Cable</b>	Single-Mode Fiber	Single-Mode Fiber	Single-Mode Fiber	Single-Mode Fiber
<b>Fiber Type</b>	9/125 um	9/125 um	9/125 um	9/125 um
<b>Max. Cable Length</b>	10 km	10 km	40 km	40 km
<b>Standard</b>	1000BASE-LX	1000BASE-LX	1000BASE-LX	1000BASE-LX
<b>Data Rate</b>	1 Gbps	1 Gbps	1 Gbps	1 Gbps
<b>Port Type</b>	LC	LC	LC	LC
<b>Wave Length</b>	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm
<b>Power Support</b>	3.3V	3.3V	3.3V	3.3V

## SFP Transceiver

	DEM-311GT	DEM-312GT2	DEM-310GT	DEM-314GT	DEM-315GT	DGS-712
						
<b>Cable</b>	Multi-Mode Fiber	Multi-Mode Fiber	Single-Mode Fiber	Single-Mode Fiber	Single-Mode Fiber	Cat. 5 Twisted-Pair
<b>Fiber Type</b>	50/125um or 62.5/125um Multi-Mode	62.5/125um Multi-Mode	9/125um Single-Mode	9/125um Single-Mode	9/125um Single-Mode	-
<b>Max. Cable Length</b>	550 m	2 km	10 km	50 km	80 km	100 m
<b>Standard</b>	802.3z 1000BASE-SX	802.3z 1000BASE-LX	802.3z 1000BASE-LX	802.3z 1000BASE-LX	802.3z 1000BASE-LX	802.3ab 1000BASE-T
<b>Data Rate</b>	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps	1 Gbps
<b>Port Type</b>	LC	LC	LC	LC	LC	RJ-45
<b>Wave Length</b>	850 nm	1310 nm	1310 nm	1310 nm	1550 nm	-
<b>Power Support</b>	3.3V	3.3V	3.3V	3.3V	3.3V	3.3V

	DEM-210	DEM-211
		
<b>Cable</b>	Single-Mode Fiber	Multi-Mode Fiber
<b>Fiber Type</b>	9/125um Single-Mode	62.5/125um Multi-Mode
<b>Max. Cable Distance</b>	15 km	2 km
<b>Standard</b>	802.3u 100BASE-FX	802.3u 100BASE-FX
<b>Data Rate</b>	100Mbps	100Mbps
<b>Port Type</b>	LC	LC
<b>Wave Length</b>	1310 nm	1310 nm
<b>Power Support</b>	3.3V	3.3V

## XFP Transceiver

	DEM-421XT	DEM-422XT	DEM-423XT
			
<b>Cable</b>	Multi-Mode Fiber	Single-Mode Fiber	Single-Mode Fiber
<b>Fiber Type</b>	50/125um or 62.5/125um Multi-Mode	9/125um Single Mode	9/125um Single Mode
<b>Max. Cable Length</b>	300 m	10 km	40 km
<b>Standard</b>	802.3ae 10GBASE-SR	802.3ae 10GBASE-LR	802.3ae 10GBASE-ER
<b>Data Rate</b>	10Gbps	10Gbps	10Gbps
<b>Port Type</b>	LC	LC	LC
<b>Wave Length</b>	850 nm	1310 nm	1550 nm
<b>Power Support</b>	3.3V/5V	3.3V/5V	3.3V/5V

## Ethernet Workstation & Server Adapter

### Features & Benefits

- Full/Half Duplex Operation
- 802.3x Flow Control in Full-Duplex
- ACPI Wake-On-LAN Power Management
- Optional Remote Boot Function
- Windows Vista Support

More than just simple network interface, the Ethernet adapters are designed for the workstations to operate in a secure network environment. They provide many software functions to make workstations an integrated part of a managed network.

The 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-530TX Ethernet PCI Adapter

- ◆ 10/100BASE-TX Port
- ◆ ACPI Wake-On-LAN Power Management
- ◆ 802.1x Port-Based Authentication
- ◆ Socket for Optional Remote Boot ROM
- ◆ Supports Windows, NetWare, IBM LAN, Sun PC-NFS, FTP PC/TCP, Linux



#### DFE-530TX+ Ethernet PCI Adapter

- ◆ 10/100BASE-TX Port
- ◆ ACPI Wake-On-LAN Power Management
- ◆ Socket for Optional Remote Boot ROM
- ◆ Supports Windows, NetWare, Linux, Mac OS, Packet Driver, NDIS Driver



#### DFE-538TX Ethernet PCI Adapter

- ◆ 10/100BASE-TX Port
- ◆ ACPI Wake-On-LAN Power Management
- ◆ 802.3x Flow Control Full-Duplex
- ◆ Socket for Optional Remote Boot ROM
- ◆ Supports Windows, NetWare, IBM LAN, FTP PC/TCP, SCO Open, Linux



#### DFE-550TX Advanced Ethernet PCI Adapter

- ◆ 10/100BASE-TX Port
- ◆ ACPI Wake-On-LAN Power Management
- ◆ IP Multicast
- ◆ 802.1Q VLAN, 802.1p Priority Queues
- ◆ SNMP Support
- ◆ Desktop Management Interface (DMI) Driver Provided
- ◆ Socket for Optional Remote Boot ROM
- ◆ Supports Windows, NetWare, IBM LAN, Sun PC-NFS, FTP PC/TCP, SCO OpenServer, NCSA, Linux



#### DFE-528TX Ethernet PCI Adapter

- ◆ 10/100BASE-TX Port
- ◆ Supports Windows, NetWare, Unix, Mac OS



#### DFE-550FX Fiber Ethernet PCI Adapter

- ◆ 100BASE-FX SC Port
- ◆ Up to 2 km Multi-Mode Fiber Cable Length
- ◆ ACPI Wake-On-LAN Power Management
- ◆ 802.1Q VLAN, 802.1P Priority Queues
- ◆ Socket for Optional Remote Boot ROM
- ◆ Supports Windows, NetWare, Linux



#### DFE-690TXD Ethernet CardBus Adapter

- ◆ 10/100BASE-TX Port
- ◆ 32-bit CardBus Interface to PC Host
- ◆ Supports Windows, NetWare, NCSA, Linux



#### DUB-E100 USB 2.0 Ethernet Adapter

- ◆ Connects Devices Equipped With USB Ports to Ethernet Network
- ◆ USB Cable With Type A Plug Provided
- ◆ Supports Windows
- ◆ Microsoft WHQL 2000, XP Certified



#### DFE-580TX 4-Port Ethernet Server PCI Adapter

- ◆ 4 10/100BASE-TX Ports
- ◆ 800Mbps Server-to-Switch Port Trunk
- ◆ Per-Port Load Balance/Fault Tolerance
- ◆ Dynamic Fail Over in Backup Mode
- ◆ 802.1p Priority Queues
- ◆ Supports in Windows, Linux



#### DFE-902 Ethernet Network Kit

- ◆ Includes 2 DFE-528TX Ethernet PCI Adapters & 5-m UTP Cables



#### DFE-910 Ethernet Network Kit

- ◆ Includes 2 DFE-528TX Ethernet PCI Adapters, DES-1005D 5-Port 10/100Mbps Ethernet Switch, & 2 6-m UTP Cables

## Remote Boot ROM



The remote boot ROM are optional chips that can be plugged onto the adapters for remote boot from boot servers. This function allows users to deploy the Ethernet adapters in diskless workstations and configure them with access security. Diskless workstations are useful for deployment at public network sites such as schools and libraries. These workstations cannot boot by themselves; users need to key in their passwords to remote boot up the system from a boot server.

#### DFE-530+R RPL Boot ROM

- ◆ For Use With DFE-530TX+ Ethernet PCI Adapter v.FX

#### DFE-530+P PXE Boot ROM

- ◆ For Use With DFE-530TX+ Ethernet PCI Adapter v.FX

#### DFE-534R3 RPL Boot ROM

- ◆ For Use With DFE-530TX Ethernet PCI Adapter

#### DFE-534P3 PXE Boot ROM

- ◆ For Use With DFE-530TX Ethernet PCI Adapter

#### DFE-538R RPL Boot ROM

- ◆ For Use With DFE-538TX Ethernet PCI Adapter v.F1

#### DFE-538P PXE Boot ROM

- ◆ For Use With DFE-538TX Ethernet PCI Adapter v.F1

#### DFE-554C RPL Boot ROM

- ◆ For Use With DFE-550TX Ethernet PCI Adapter v.C3

#### DFE-554CP PXE Boot ROM

- ◆ For Use With DFE-550TX Ethernet PCI Adapter v.C3

#### DFE-554FP PXE Boot ROM

- ◆ For Use With DFE-550FX Ethernet PCI Adapter

#### DGE-528R RPL/PXE Boot ROM

- ◆ For Use With DGE-528T Gigabit PCI Adapter

## Gigabit Workstation & Server Adapter

### Features & Benefits

- PCI Express 4x Interface**
  - 2Gbps data addressing for higher throughput.
  - Ideal for servers, storage and system area networks (SAN).
  - Backward compatible with PCI and PCI-X addressing, allows all existing applications and Operating Systems to function unchanged.
- Full-Duplex Mode**
  - Doubles network data transfer rate to 2Gbps, providing servers with bottleneck-free paths for server-client applications.
- 802.3x Flow Control**
  - Operating in full-duplex mode, minimizes data packet loss between server and Gigabit switch.
- Wake-On-LAN Power Management**
  - Allows network administrators to power ON/OFF computers from remote sites.
  - Useful for application in secure network environments such as in a school or public library.
- On-Board Screening of VLAN Tagged Ethernet Frames**
  - Allows administrators to configure workstations and servers with Virtual LAN security or traffic segmentation.
- 802.1p Priority Queues Support**
  - Allows workstations and servers to run time-sensitive applications such as voice and video.
- Windows Vista Support**
  - Can operate in the latest Windows Vista environment.

The Gigabit adapters bring Gigabit network speed to the desktop PC and servers. On the high-end are the fiber Gigabit PCI Express x4 high-performance adapters that let businesses take advantage of the PCI Express (PCIe) slots of their servers to enhance network performance with fiber-optic connectivity. The adapters' dedicated input/output (I/O) bandwidth PCIe ensures priority performance without bus sharing for Gigabit Ethernet connectivity in fiber-optic networks.

For workstations, the copper Gigabit adapters provide an inexpensive alternative solution to the fiber-optic. Using the existing low-cost Cat. 5 copper twisted-pair network cable as the transmission media, these adapters allow desktops computers to instantly upgrade to Gigabit capability without requiring installation of new, expensive fiber cables.



**DGE-528T**

#### Copper Gigabit PCI Adapter

- ◆ 10/100/1000BASE-T Port
- ◆ PCI 33/66MHz Clock Speed Support
- ◆ 8KB Transmit/64KB Receive FIFO to Reduce PC Overheads
- ◆ ACPI Wake-On-LAN Power Management
- ◆ 802.1Q VLAN Tagging
- ◆ Supports Windows, NetWare, Linux, Mac OS



**DGE-530T**

#### Copper Gigabit PCI Adapter

- ◆ 10/100/1000BASE-T Port
- ◆ ACPI Wake-On-LAN Power Management
- ◆ 802.1p Priority Queue, 802.1Q VLAN
- ◆ Built-in MIB for SNMP Management
- ◆ Supports Windows, NetWare, Linux, Mac OS



**DGE-560SX**

#### Fiber Gigabit PCI Express x4 Adapter

- ◆ 1000BASE-SX SC Port
- ◆ PCI-E 1.0a Interface With 2.5GHz Signaling
- ◆ Up to 550 m Multi-Mode Fiber Cable Length
- ◆ ACPI 2.0 Power Management
- ◆ 9K Bytes Jumbo Frame
- ◆ 802.1p Priority Queue, 802.1Q VLAN
- ◆ Built-in MIB for SNMP Management
- ◆ Laser Eye Safety Certified
- ◆ Supports Windows, Linux



**DGE-660TD**

#### Copper Gigabit CardBus Adapter

- ◆ 10/100/1000BASE-T Port
- ◆ 32-bit CardBus Interface to PC Host
- ◆ 8KB Transmit/64KB Receive FIFO to Reduce PC Overheads
- ◆ Low Laptop PC Battery Power Consumption
- ◆ Supports Windows, NetWare, NDIS

## PoE Adapter & Midspan

### Features & Benefits

- Standard 110-240VAC Conversion to Low-Voltage DC Power**
  - Use existing LAN cables to power network devices.
  - A single Cat. 5 or better cable can carry both Ethernet data and DC power.
  - Simplify network hardware integration and power management.
  - Network devices do not need to confine to locations near power outlets.
- Central Power Source Provision to Entire LAN Infrastructure**
  - Network accessories can be scattered around and connected to single PoE midspan or PoE switch.
  - Network devices do not need to confine to locations near power outlets.
  - Eliminate time and cost of installing separate power cabling and providing dedicated, uninterrupted power supply for each individual network device.
- Guaranteed Power Protection Against Unforeseen Emergencies**
  - PoE midspans and PoE switches can be connected to Uninterruptible Power Supply (UPS).
  - Continuous operation for all connected network devices during power failures.

The Power Over Ethernet (PoE) adapters and midspans are designed to help simplify network maintenance and deployments at offices, factories and Wi-Fi hot spots. They allow surveillance cameras and wireless access points to be installed on building rooftops, ceilings or high walls for maximum coverage. Cameras and wireless access points can be placed up to 100 meters away from the power sources. It is at these places that wall AC outlets are inaccessible and providing power to these locations is difficult and expensive.

The PoE adapters and midspans are also handy for Internet telephone installation at offices, eliminating the need to individually power each IP phone. By transmitting remote power through the standard network cabling, these adapters do away with the need for an AC outlet at each device location. Only a single Ethernet cable is run to each IP phone, camera or wireless AP, instead of separate power and data cables.



**DWL-P200**

#### Power Over Ethernet Adapter

- ◆ Transmits Power Up to 100 m<sup>1</sup>
- ◆ Selectable 5VDC or 12VDC Power Output
- ◆ Power Surge Protection
- ◆ Includes Base Unit & Terminal Unit
- ◆ No Need to Connect to PoE Switch



**DWL-P50**

#### Power Over Ethernet Adapter

- ◆ 802.3af PoE Standard Compliance
- ◆ Transmits Power Up to 100 m<sup>1</sup>
- ◆ Selectable 5VDC or 12VDC Power Output
- ◆ Power Surge Protection
- ◆ Connects to 802.3af Compliant PoE Switch or Midspan



**DWL-P1012**

#### 12-Port Power Over Ethernet Midspan

- ◆ 12 802.3af PoE Ports
- ◆ Management Through Web Browser or Web Smart Utility
- ◆ PoE Port Grouping & Scheduling
- ◆ 19-Inch Rack Size for Installation in Equipment Rack

<sup>1</sup> Maximum distance per IEEE 802.3u specifications.

## Printer Sharing

### Features & Benefits

- **Multi-Function Equipment Support**

- Multi-function equipment provides printing, scanning and faxing functions.
- Scanning support allows users to use the same equipment to scan a document and send the output file to a workstation through the print server.

- **IPP (Internet Printing Protocol) Support**

IP address can be set in a print server for remote users to output print files to the printer from a remote place.

- **HP PJI Bi-directional Printer Communication Protocol Support**

(for Parallel Printer Ports)

Using this protocol, a print server can collect information and report the status of the attached printer.

- **User Access Control**

Useful for office environments and multi-port printers, this function allows the network administrator to say who can use which printers.

- **Windows-Based Administration Program**

Easy setup and management of print jobs.

- **Built-in MIB**

Print servers can be managed in an SNMP environment.

The print servers connect to printers so they can be shared over a network. The single-port print servers save costs and are convenient for both the large office and the small workgroup. For homes and the small office with just one printer to share, these single-port devices are ideal. For large offices with many printers scattered at different places, users can plug a single-port print server to each of these printers to share them on the network.

The multi-port print servers have a number of printer ports, so users don't need to install a separate print server for each printer that they want to share. Where printers are closely placed together, it makes sense to buy a print server that offers several printer ports. Each of the printers to be shared can be attached to a port of the same print server through a printer cable. Multi-port print servers are equipped with powerful CPU and abundant RAM buffers, so even when all printers printing at the same time, users will not experience any degradation of performance.



#### DP-301P+

##### Single-Port Parallel Print Server

- ◆ Parallel Printer Port
- ◆ Connects to Network Through 10/100BASE-TX Port
- ◆ IPP Remote Printing
- ◆ User Access Control
- ◆ Supports Windows, Mac OS, Unix
- ◆ Directly Connects to Printer's Parallel Port, No Printer Cable Required



#### DP-G301

##### Single-Port Wireless G Parallel Print Server

- ◆ Parallel Printer Port
- ◆ 10/100BASE-TX Port and 802.11g Wireless Network Connection
- ◆ IPP Remote Printing
- ◆ User Access Control
- ◆ Supports Windows, Mac OS, Linux, Unix, NetWare



#### DP-301U

##### Single-Port USB Print Server

- ◆ USB 1.1 Port
- ◆ Connects to Network Through 10/100BASE-TX Port
- ◆ IPP Remote Printing
- ◆ Supports Windows, Mac OS, Unix, NetWare



#### DP-G310

##### Single-Port Wireless G USB Print Server

- ◆ USB 2.0 Port
- ◆ 10/100BASE-TX Port and 802.11g Wireless Network Connection
- ◆ IPP Remote Printing
- ◆ User Access Control
- ◆ Web-Based Configuration
- ◆ Supports Windows, Apple Mac OS, NetWare, Linux, Unix



#### DP-300U

##### 3-Port Print Server

- ◆ 1 USB 1.1 Port, 2 Parallel Printer Ports
- ◆ 10/100BASE-TX Ethernet Network Port
- ◆ Supports Windows, Apple Mac OS, Linux, Unix, NetWare



#### DP-300+

##### 3-Port Print Server

- ◆ 1 Serial Port, 2 Parallel Printer Ports
- ◆ 10/100BASE-TX Ethernet Network Port
- ◆ IPP Remote Printing
- ◆ User Access Control
- ◆ Supports Windows, Apple Mac OS, Unix



#### DP-G321

##### 3-Port Wireless G Print Server

- ◆ 2 USB 2.0 Ports, 1 Parallel Printer Port
- ◆ 10/100BASE-TX Port and 802.11g Wireless Network Connection
- ◆ IPP Remote Printing
- ◆ User Access Control
- ◆ Supports Windows, Apple Mac OS, NetWare, Linux, Unix



#### DPR-1260

##### 4-Port Wireless 108 G USB Print Server

- ◆ 4 USB 2.0 Ports
- ◆ 802.11g Wireless Speed Up to 108Mbps
- ◆ 10/100BASE-TX Ethernet Port
- ◆ Ethernet Port Can Also Act as Bridge Port for Wireless LAN
- ◆ Supports Scanning Function in Multi-Function Equipment
- ◆ Supports Windows XP, 2000

## Internet Videophone

### Features & Benefits

#### Real-Time Face-to-Face Video Conference

Watch live video and see friends' faces while talking over the Internet.

#### Quality Audio/Video

- Video display at up to 30 frames per second at 352 x 288 pixels (CIF) or 176 x 144 pixels (QCIF).
- Speakerphone with jitter buffer, echo cancellation and comfort noise generation to match or surpass normal phone quality.

#### TV Connection

- Videophones without LCD screen connect to living room TV sets to display video.
- Videophones with integrated LCD can connect to TV too for large screen display.
- Callers can get full screen view or picture-in-picture view.
- PAL or NTSC TV format support (factory set).

#### Remote Control

- Answer incoming videophone calls and initiate new ones from TV screen.
- View caller ID on TV screen
- View auto-IP-mapping phonebook and select number (caller IP address) on TV screen.
- Adjust remote view or self view.

#### Quality of Service (QoS) Support

Prioritized Internet traffic handling for smooth image and voice transmission/reception.

The videophones are unique appliances from D-Link that combine voice and video transmission/reception over the broadband Internet. These phones integrate CMOS cameras into them to capture and send speakers' faces to the opposite sides, so callers can watch each other's actions while talking.

Designed for home and office use, these appliances provide a low-cost video conference solution that operates without the need for any computer hardware and software. At two remote places, users simply plug two videophones to the Internet to talk face-to-face anywhere in the world.

D-Link videophones use the industry-standard H.323 protocol for video streaming over the Internet. They can connect to any devices that use this standard for video conferencing, and not just to other D-Link videophones. For face-to-face talks, users can also connect D-Link videophones to other devices that use the popular Microsoft web-based NetMeeting.

#### External Speaker Connection

Can use built-in speaker or external speakers for better sound.

#### Convenient PSTN and Internet Phone

- Default connection is to normal telephone (PSTN) when the phone is picked up to dial out.
- Users press "Broadband" button and select destination from Speed-Dial List to initiate a video conference call.
- Videophones accept both PSTN and VoIP incoming calls.

#### Integrated Wi-Fi Interface

- Callers can sit anywhere at home or in the office and talk on the phone.
- TV does not need to be placed near phone line or DSL modem.



#### DVC-1000

##### Videophone

- ◆ Connects to TV Set
- ◆ Connects to DSL/Cable Modem Through Ethernet Port



#### DVC-1100

##### Wireless G Videophone

- ◆ Connects to TV Set
- ◆ Connects to DSL/Cable Modem or Broadband Router Through Ethernet Port or Integrated 802.11g Wireless LAN



#### DVC-2000

##### Desktop Videophone

- ◆ Integrated 5-Inch Color TFT LCD
- ◆ Connects to DSL/Cable Modem Through Ethernet Port
- ◆ Can Connect to TV Set Through Video Out Interface



#### DVC-20

##### Varifocal Lens

- ◆ Wide Angle View for Wider Coverage or "Zoom In" View for a Close-Up
- ◆ High Quality Glass Lens Elements
- ◆ 2 x 4-8mm Focal Lens
- ◆ 66° to 63° Horizontal, 38° to 20° Vertical, 66° to 33° Diagonal
- ◆ For Use With DVC-1000, DVC-1100 Video Phones

## PC Camera

## PC Camera

### Features & Benefits

#### Internet PC Camera

- Useful for video chats, video e-mail, personal surveillance, personal album and remote tutorial over Internet.
- Can record digital video directly to a PC's hard drive and edit photos.

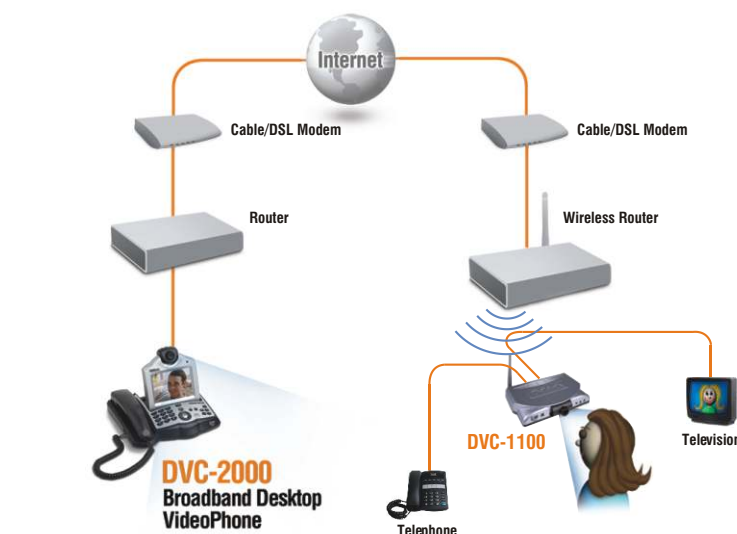
#### Fully Contained Units

Include all necessary hardware to capture video for transmission over the Internet.

#### Connect to PC's USB Port

No need to plug in power adapter.

**VisualStream**  
Digital Multimedia



The PC cameras are fully contained units with all the necessary hardware to capture video for transmission over the Internet. These cameras connect to the PC's USB interface and draw power directly from the PC's USB bus. Ideal for use with laptop and portable computers, this camera can be used for video chats, video e-mail, personal surveillance, personal album and remote tutorial. Software is provided to record digital video directly to a PC's hard drive and edit photos.



#### DSB-C120

##### 100K Pixel PC Camera

- ◆ 352 x 288 Resolution
- ◆ Color CMOS Sensor
- ◆ 24-Bit RGB Colors
- ◆ USB Connection to Computer
- ◆ Clip Provided for Mounting on Laptop Computer or Monitor Screen



#### DSB-C320

##### 330K Pixel PC Camera

- ◆ 640 x 840 Resolution
- ◆ Color CMOS Sensor
- ◆ 64 Million Colors
- ◆ Up to 30fps @ QVGA
- ◆ Built-in Microphone
- ◆ USB Connection to Computer
- ◆ Clip Provided for Mounting on Laptop Computer or Monitor Screen

## Internet Camera

### Features & Benefits

- **10x Optical Zoom Auto Focus/Auto Iris Lens**

- Greater clarity from recording than digital zooms alone.
- High level of details necessary to identify people, license plate numbers, etc.

- **3GPP Support**

- Live camera feed of camera can be pulled from a 3G cellular network using a cell phone or PDA with 3G video player.
- From anywhere within a 3GPP service area, users can monitor a home or office in real time while walking or driving.

- **Motion Detection Recording**

- Instead of recording 24 hours a day, 7 days a week, images can be recorded to a computer hard drive only when motions are detected.
- Saves disk space, eliminates time wasted to view unnecessary images.

- **Triggered Event Browsing**

- Playback of recorded video consumes little time using fast database searching.

- **Multiple Camera Display on Single Screen**

- Overall view of up to 16 cameras on a single computer screen at one central location.
- Can select any of the displayed cameras and zoom up.



The Internet cameras let users watch and listen remotely from anywhere. They connect to an Ethernet wired and wireless network at home, in a building, factory or campus, and via broadband to the Internet. Equipped with lens sensors, digital zoom, low-light video capture capabilities, and advanced software functions for multi-camera monitoring and management, these cameras provide a comprehensive surveillance system for homes and businesses.

The cameras are designed as stand-alone systems complete with CPU and integrated web server, and do not need to hook up to any computers. Once connected to the network, users can use the IP address built inside the camera to access it and view live streaming video.

Surveillance software is provided to let users view multiple cameras on a single computer screen at a central location. Images can be recorded to the computer's hard drive. The cameras can be connected to external alarms and sensors, and users can set up automatic email alerts that are sent through the Internet.

The Internet camera supports motion-detected recording to save disk space and eliminate the time otherwise wasted to view the entire record. Image playback consumes little time with triggered-event browsing and fast database searching.

The Pan/tilt Internet cameras provide angle movement and digital zoom controllable from a web interface for monitoring of all angles with closed up details. Using the 2-way audio Internet cameras, users can view and listen from a remote place while talking to a person at the camera site through a speaker attached to the camera.

The day-and-night Internet cameras (DCS-3420) are equipped with high-quality CCD sensors, low-light and no light capabilities for capture of sharp video in any environment. Accessories such as illuminators, optical auto-IRIS lens and LED lens are available for use with these cameras.

With the alarm-triggered global reaction function, the camera software can send an alarm to the system to trigger other cameras and security equipment to react in a global manner. The cameras can be used with Power over Ethernet, and can be placed on high ceilings or in hidden places where AC outlets are not available.

- **UPnP Support**

- Computers running Windows can automatically recognize all installed cameras and add them to the network.
- Cameras can be accessed and viewed from any network place as a device on the network.

- **DDNS Support**

- Users can assign an easy-to-remember name and domain to the camera.
- Can remote access the camera without having to remember its IP address, even if the Internet Service Provider has changed it.

	DCS-900	DCS-G900	DCS-950	DCS-950G	DCS-2100	DCS-2120	DCS-3220	DCS-3220G	DCS-3420	DCS-5300	DCS-5300G	DCS-5220	DCS-6620	DCS-6620G
MJPEG	✓	✓							✓				✓	✓
MPEG-4			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CMOS	✓	✓	✓	✓	✓	✓						✓		
CCD							✓	✓	✓	✓	✓		✓	✓
Fixed Lens	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓
C/CS Mount Lens							✓	✓	✓					
Built-in Microphone			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Support External Microphone									✓				✓	✓
Support External Speaker							✓	✓	✓	✓	✓		✓	✓
Frames Per Second	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps	30fps
Built in Wireless LAN		802.11g		802.11g		802.11g		802.11g	802.11g		802.11g	802.11g		802.11g
Max.Cameras on Single Screen	16	16	16	16	16	16	16	16	16	16	16	16	16	16
I/O							✓	✓	✓	✓	✓		✓	✓
Enable/Disable LED's	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Java Support	✓	✓												
Motion Detection	By Software	By Software	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Email Notification	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
UPnP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
DDNS	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Scheduled Recording to HD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Audio Recording			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
TV Output									BNC	AV	AV		AV	AV
Remote Control										✓	✓		✓	✓
Motorized Pan and Tilt										✓	✓	✓	✓	✓
Optical Zoom													10X	10X
Digital Zoom					4X	4X	4X	4X	4X	4X	4X	4X	10X	10X
3GPP						✓							✓	
Support Day & Night Lens									✓					
Support Auto IRIS Lens									✓					
Power Input	5VDC/2.5A	5VDC/2.5A	5VDC/2.5A	5VDC/2.5A	5VDC/2A	5VDC/2A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A	12VDC/1.5A

## Outdoor Enclosure

### Features & Benefits

- **Water Resistance/Dust-Proof Protection**
- **Heater/Blower for Protection Against Heat/Cold Temperature**
- **Built-in Power Supply for Easy Cable Management**
- **Angle-Adjustable Mounting Brackets**
- **Vertical or Horizontal Installation**

The Internet camera outdoor enclosures protect the Internet camera from the rigors of outdoor use. These fixed-type enclosures include heavy-duty, angle-adjustable mounting brackets that can be used to secure the camera on a vertical or horizontal surface. These enclosures maximize the full potential of the Internet cameras to secure and protect homes and business buildings.



**DCS-45**

#### Internet Camera Outdoor Enclosure

- ◆ Thermal Barrier Design to Withstand Temperature Fluctuations
- ◆ Flip Open Top for Easy Installation
- ◆ Aluminum Housing with Steel Bracket
- ◆ For Use With DCS-2000, DCS-3220 Cameras



**DCS-60**

#### Internet Camera Outdoor Enclosure

- ◆ IP44 Certified for Water Resistance and Dust-Proof Operation
- ◆ Integrated Heater and Blower for Camera to Operate in Wider Range of Temperature
- ◆ Built-In Power Supply to Simplify Installation
- ◆ Aluminum Housing
- ◆ For Use With DCS-2000, DCS-3220 Cameras



**DCS-50**

#### Internet Camera Outdoor Enclosure

- ◆ IP66 Certified for Water Resistance and Dust-Proof Operation
- ◆ Built-In Power Supply to Simplify Installation
- ◆ Aluminum Housing
- ◆ For Use With DCS-2000, DCS-3220 Cameras



**DCS-70**

#### Internet Camera Outdoor Enclosure

- ◆ IP66 Certified for Water Resistance and Dust-Proof Operation
- ◆ Dome Type Enclosure
- ◆ Integrated Heater and Blower for Camera to Operate in Wider Range of Temperature
- ◆ Built-In Power Supply to Simplify Installation
- ◆ Aluminum Housing with Smoked Acrylic Cover
- ◆ For Use With PTZ Cameras

## Network Attached Storage

### Features & Benefits

- **Network File Sharing**
  - Share documents, music, photos, videos across home/office network or on Internet.
  - Create central network point for backing up valuable files.
- **Compact Size & Low Cost**
  - Much smaller desktop size than PC-based servers.
  - Can be deployed at a fraction of the cost of a PC-based server.
- **UPnP AV Compatible**
  - Stream music, photos and video to UPnP AV compatible network media players.
- **Built-in FTP Server**
  - Remote access of files on hard drives located at home from outside through the Internet.
- **High Speed Access**
  - For SATA network storage, RAID 0 combines both drives in a "striped" configuration, enabling speeds up to 23Mbps read, 15Mbps write.
  - Gigabit connection can increase these speeds to 184Mbps read, 120Mbps write.
- **Ready for Operation**
  - Integrated OS software, no need to purchase and install separate software.
  - Transparent multi-platform file sharing is easily accessible at system power-on.

The Network Attached Storage (NAS) are compact storage devices that can be easily connect to a home or office network, or to the Internet. Ideal for disk and file sharing, these devices provide the hardware reliability and interoperability with major operating systems. They come with embedded software for ready file access that saves users the cost of buying separate OS software and the trouble of installing it.



**DSM-600**

#### IDE Network Storage Enclosure

- ◆ Open Bay for 3.5-Inch ATA/IDE Hard Drive
- ◆ 2 USB 2.0 Port to Connect to External ATA/IDE Hard Disks or Flash Drives
- ◆ 10/100/1000BASE-T Gigabit Network Connection
- ◆ Built-in FTP Server
- ◆ Scheduled Full or Incremental Disk Backup
- ◆ Operates in Windows, Mac OS, Linux



**DSM-G600**

#### IDE Wireless G Network Storage Enclosure

- ◆ Open Bay for 3.5-Inch ATA/IDE Hard Drive
- ◆ 2 USB 2.0 Port to Connect to External ATA/IDE Hard Disks or Flash Drives
- ◆ 802.11g Wireless and 10/100/1000BASE-T Gigabit Network Connection
- ◆ Built-in FTP Server
- ◆ Scheduled Full or Incremental Disk Backup
- ◆ Operates in Windows, Mac OS, Linux

#### Flexible Drive Modes for SATA Drives

- Standard mode to create 2 separately accessible hard drives.
- JBOD mode combines both drives for maximum space efficiency.
- RAID 0 combines both drives in "striped" configuration for highest performance.
- RAID 1 provides redundancy drive backup.



**DNS-323**

#### SATA Network Storage Enclosure

- ◆ 2 Open Bays for 3.5-Inch SATA Hard Drives
- ◆ 2 USB 2.0 Print Server Port
- ◆ 10/100/1000BASE-T Gigabit Network Connection
- ◆ Built-in FTP Server
- ◆ Supports Standard, JBOD, RAID 0, RAID 1 Drive Modes
- ◆ Operates in Windows, Mac OS, Linux

## VoIP Gateway & Phone Adapter

### Features & Benefits

- **Save Long Distance/International Phone Charges**

- Make calls using subscribed Internet broadband line already installed at home or office.
- No incurring toll charges from telephone companies.
- Pay only small charges for VoIP phone forwarding services.

- **SIP Protocol Support**

- Industry's latest Voice over the IP network protocol.
- Compatible with popular SIP Internet phone services.

- **Combination FXS/FXO Port Support**

- Flexible gateway deployment for enterprises and ISP.

- **PSTN Lifeline Phone Port**

- Uninterrupted phone/fax communication with or without the Internet.
- Relays outgoing phone calls to PSTN automatically in case of a power outage at, or when VoIP service is disconnected.

- **Quality of Service (QoS)**

- Prioritized transmission for voice packets over the Internet.
- Minimized interruption to voice transmission/reception due file transfer, web surfing and other Internet uses.

- **Call Detailed Records**

- Allow users to view call duration, time and date of call and call latency.

The VoIP gateways and phone adapters allow homes and businesses to take advantage of their DSL/cable modem connection to make inexpensive Internet phone calls. Through broadband connection, these devices allow users to access voice and fax services over the Internet to significantly reduce the cost of international and long distance calls.

Gateways and phone adapters for homes and small offices typically have one or two phone ports. For large offices, the gateways can have up to 32 phone ports for multiple users to make simultaneous Internet phone calls.

There are two types of VoIP gateways: station gateways and trunk gateways. The station gateways have FXS phone ports that connect to regular phone sets, Ethernet WAN ports that connect to DSL/cable modems and built-in router function/Ethernet LAN ports for convenient computer connection. The VoIP trunk gateways are equipped with FXO ports, which can connect to PBX, key telephone systems or PSTN phone lines for analog voice, and Ethernet LAN ports which connect to office LAN (IP networks) for VoIP data.

- **Multi-Language Interactive Voice Response (IVR)**

- Configuration of individual phone connection by directly using the phone set.

- **Extensive Call Feature Support**

- Generally includes Call Transfer, Call Hold, Call Waiting, Caller ID Display, 3-Way Conference functions.
- Allows service providers to offer these functions to their subscribers.
- Provided that their telephone sets support these functions, callers can take advantage of the features offered.

- **Built-in Routing/Firewall Functions**

- Allows users to surf the web while making Internet phone calls.
- Sharing of Internet connection among a group of computers.
- DoS attack prevention firewall protection for connected computers.

- **Automatic Call Redirect (ACR) Table**

- Lists emergency numbers such as police/ambulance service, and special telephone numbers and redirects to the PSTN line when dialing to these number is made.

## VoIP Station Gateway



### DVG-1401SP

#### 1-Port VoIP Station Gateway

- ◆ 1 FXS Port
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router
- ◆ PSTN Lifeline Port



### DVG-1102S

#### 2-Port VoIP Station Gateway

- ◆ 2 FXS Ports
- ◆ Ethernet WAN Port
- ◆ Ethernet LAN Port
- ◆ Built-in Router



### DVG-1402S DVG-1420SP

#### 2-Port VoIP Station Gateway

- ◆ 2 FXS Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router
- ◆ PSTN Lifeline Port With ACR (DVG-1420SP Only)



### DVG-G1402S

#### 2-Port Wireless G VoIP Station Gateway

- ◆ 2 FXS Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router
- ◆ Integrated 802.11g Wireless LAN



### DVG-5004S

#### 4-Port VoIP Station Gateway

- ◆ 4 FXS Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router & Firewall
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-5008S

#### 8-Port VoIP Station Gateway

- ◆ 8 FXS Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router & Firewall
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-2016S

#### 16-Port VoIP Station Gateway

- ◆ 16 FXS Ports in 1 RJ-21 Connector
- ◆ Ethernet WAN Port
- ◆ Ethernet LAN Port
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-2032S

#### 32-Port VoIP Station Gateway

- ◆ 32 FXS Ports in 2 RJ-21 Connectors
- ◆ Ethernet WAN Port
- ◆ Ethernet LAN Port
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



## VoIP Trunk Gateway



### DVG-3004S

#### 4-Port VoIP Trunk Gateway

- ◆ 4 FXO Ports
- ◆ Ethernet LAN Port
- ◆ Auto-Attendant, Call-Holding, Ring-Back, Call In Progress Support <sup>1</sup>



### DVG-6004S

#### 4-Port VoIP Trunk Gateway

- ◆ 4 FXO Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router & Firewall
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-6008S

#### 8-Port VoIP Trunk Gateway

- ◆ 8 FXO Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router & Firewall
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-3016S

#### 16-Port VoIP Trunk Gateway

- ◆ 16 FXO Ports in 1 RJ-21 Connector
- ◆ Ethernet WAN Port
- ◆ Ethernet LAN Port
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-3032S

#### 32-Port VoIP Trunk Gateway

- ◆ 32 FXO Ports in 2 RJ-21 Connectors
- ◆ Ethernet WAN Port
- ◆ Ethernet LAN Port
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response

## Combo VoIP Station/Trunk Gateway



### DVG-7022S

#### 4-Port VoIP Station/Trunk Gateway

- ◆ 2 FXS Ports
- ◆ 2 FXO Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router & Firewall
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-7044S

#### 8-Port VoIP Station/Trunk Gateway

- ◆ 4 FXS Ports
- ◆ 4 FXO Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router & Firewall
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-7062S

#### 8-Port VoIP Station/Trunk Gateway

- ◆ 6 FXS Ports
- ◆ 2 FXO Ports
- ◆ Ethernet WAN Port
- ◆ 4 Ethernet LAN Ports
- ◆ Built-in Router & Firewall
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response

## Combo VoIP Station/Trunk Gateway



### DVG-4088S

#### 16-Port VoIP Station/Trunk Gateway

- ◆ 8 FXS Ports, 8 FXO Ports (in 1 RJ-21 Connector)
- ◆ Ethernet WAN Port
- ◆ Ethernet LAN Port
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response



### DVG-4032S

#### 32-Port VoIP Station/Trunk Gateway

- ◆ 16 FXS Ports, 16 FXO Ports (in 2 RJ-21 Connectors)
- ◆ Ethernet WAN Port
- ◆ Ethernet LAN Port
- ◆ Call Detailed Records
- ◆ Multi-Language Interactive Voice Response

## VoIP Telephone Adapter



### DVG-2001S

#### 1-Port VoIP Telephone Adapter

- ◆ 1 FXS Port
- ◆ Ethernet WAN Port



### DVG-5121SP

#### 2-Port VoIP Telephone Adapter

- ◆ 2 FXS Ports
- ◆ Ethernet WAN Port
- ◆ Ethernet LAN Port
- ◆ Built-in Router
- ◆ User Access Filtering & Parental Control
- ◆ 802.1Q VLAN Tag & Voice VLAN Security
- ◆ PSTN Lifeline Port



### DPH-50U

#### VoIP USB Telephone Adapter

- ◆ Mini USB 1.1 Port With USB Cable to Connect to PC
- ◆ 1 RJ-11 Port to Connect to Regular Phone Set
- ◆ 1 RJ-11 Port to Connect to Wall Phone Line
- ◆ Receive/Make PSTN & VoIP Phone Calls on Regular Phone Set
- ◆ Use Skype & QQ Softphone for PC to PC & PC to Phone Calls
- ◆ 3-Way Conference, Call Forwarding & Toll Bypassing <sup>1</sup>
- ◆ VoIP Call Forward to Remote PSTN Phone Set/Cell Phone & Vice Versa
- ◆ Can Connect to DECT, 2.4GHz, 900MHz Cordless Phones
- ◆ Phone Conversation Recording Capability
- ◆ Can Auto-Detect & Hold Incoming PSTN & VoIP Calls

<sup>1</sup>Functions' availability depends on phone sets' capabilities and telephone service providers' offering, which may come with or without additional charges.

## IP Phone

### Features & Benefits

- Make Phone Calls Worldwide**  
 Call virtually anywhere through the Internet.
- Easy to Use**
  - Look and feel like ordinary phone sets.
  - Easy installation and configuration through web-based interface.
- Superior Sound**  
 Echo Cancellation, CNG, VAD and Dynamic Jitter Buffer features for excellent sound quality.
- Convenient Phone Features**  
 Numerous useful phone functions supported, including Call Transfer, Forward and Hold, 3-Way Conference, Speed Dial/Phone Book, Caller ID Display and LCD screen.<sup>1</sup>
- Voice VLAN Support**  
 Isolates callers' voice communication so it cannot be tapped over the network.
- 802.1P Priority Queues Support**  
 Streamlines traffic so web browsing and Internet download will not interfere with voice traffic and degrade Internet phone quality.
- Extra LAN Port**  
 For connection to PC's Ethernet interface; allows callers to talk on the IP Telephone while browsing web sites, send e-mail, transfer files and do other network tasks.
- SIP Protocol Support**
  - Industry's latest Voice over the IP network protocol.
  - Compatible with popular SIP Internet phone services.

The IP phones allow callers to take advantage of their DSL/cable modem connection to make inexpensive Internet phone calls. By utilizing the IP phones with a VoIP service plan, home and business users have the potential to dramatically reduce local and long distance telephone charges compared to a standard telephone service.

The IP phones combine the industry's latest Voice over the IP network (VoIP) technology with advanced communication features, and are compatible with industry-wise phone service. They give callers the advantages of VoIP, while retaining the same look and feel of the familiar analog telephones.

The IP phones are stand-alone devices and do not require a computer to make Internet connection. They provide Ethernet ports to connect to DSL/cable modems, or to home/office broadband routers. Once connected to the Internet, users are ready to make and receive calls. The IP phones incorporate Quality of Service (QoS) to ensure that voice received through the Internet is the same as or even surpasses that received on the ordinary phone.

The Wi-Fi phones are IP phones with built-in WLAN interfaces. They provide the freedom of wireless connectivity and the benefits of Voice over IP (VoIP) all in one sleek portable flip-style phone. With a growing number of Wi-Fi hotspots and metropolitan areas deploying low-cost or free high-speed Internet connection, mobile users will have more places to use the Wi-Fi phones. Applications include making Internet phone calls at an Internet café, or from a car or truck in a parking lot equipped with hot spots.

<sup>1</sup> Functions' availability depends on phone sets' capabilities and telephone service providers' offering, which may come with or without additional charges.



### DPH-110S

#### IP Phone

- ◆ Speakerphone for Hands-Free Phone Conference
- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ Second 10/100BASE-TX Connection to PC to Surf Webs While Making Internet Phone Calls



### DPH-120S

#### IP Phone

- ◆ Speakerphone for Hands-Free Phone Conference
- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ Second 10/100BASE-TX Connection to PC to Surf Webs While Making Internet Phone Calls
- ◆ LCD to Display Caller ID & Address Book



### DPH-140S

#### IP Telephone

- ◆ Speakerphone for Hands-Free Phone Conference
- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ Second 10/100BASE-TX Connection to PC to Surf Webs While Making Internet Phone Calls
- ◆ LCD to Display Caller ID & Address Book
- ◆ 10 Memory Speed Dial Keys



### DPH-300S

#### Cordless IP Phone

- ◆ Ready-to-Call IP/DECT Cordless Phone Bundled With www.mydlink.com Service
- ◆ 1800 to 1900MHz Frequency, 10 RF Channels
- ◆ 10/100BASE-TX Ethernet Connection to DSL/Cable Modem
- ◆ Second 10/100BASE-TX Connection to PC to Surf Webs While Making Internet Phone Calls
- ◆ LCD to Display Caller ID & Address Book
- ◆ Can Operate as IP Phone or Analog PSTN Phone



### DPH-540

#### Wi-Fi Phone

- ◆ Clamshell Handset
- ◆ Integrated 802.11g Wireless LAN
- ◆ Wireless Connection to Internet Hot Spot
- ◆ Color LCD to Display Caller ID & Address Book



### DPH-541

#### Wi-Fi Phone

- ◆ Clamshell Handset
- ◆ Integrated 802.11g Wireless LAN
- ◆ Wireless Connection to Internet Hot Spot
- ◆ Color LCD to Display Caller ID & Address Book

## IP PBX

### Features & Benefits

- **SIP Protocol Support**
  - Industry's latest Voice over the IP network protocol.
  - Compatible with popular SIP Internet phone services.
- **All Essential Telephony Features Provided**
  - Call forwarding, call hold, hold music, find me-follow me, voice mail, IVR/auto-attendant, customizable greetings.
  - Incoming calls are directed by integrated auto-attendant and hunt groups to assist callers to their destinations.
  - Can utilize standard phone lines via an external phone line gateway or Internet Telephony services.
- **Easy Expansion**
  - Phone extensions can be located anywhere with Internet access.
  - Can add multiple IP PBX units to increase number of extensions or unite a company that has many locations under a single PBX system.
  - Additional extensions can be easily added via license codes.
- **Convenient Web-Based Management**
  - Administrator can assign each extension a profile of telephony features that allows the best match for a user's job function.
  - Individual users can fine-tune their assigned profile via the web to match their daily business schedule.

The IP PBX (Private Branch Exchange) unify the voice network with data applications, using the office LAN as the platform to connect IP phones to the call manager. They offer a cost-effective alternative to the traditional analog PBX, as owners do not have to maintain two separate networks for voice and data. Moving and adding an employee to a phone system is as simple as unplugging a telephone and plugging it to a new location, without the need for costly service calls from legacy PBX vendors.

The IP PBX use VoIP protocol to establish connections between users, and combine the features of traditional PBX with the networking advantages of IP devices. They use the SIP PBX technology to provide a new architecture for business communication, enabling organization-wide management support and extensive features such as multi-party conference calls, Interactive Voice Response (IRV) and voice mail.

- **Integrated DoS/IDS Firewall**
  - Intrusion detection and protection against denial of service attacks.
- **Integrated Conference Bridge**
  - No need for expensive external phone conference hardware and service.
  - Users can schedule and invite parties to conferences via web configuration.
  - Conference notifications are sent out by e-mail, which include phone numbers and access codes.
- **MD5 SIP authentication encryption encoder**
  - Prevents hackers from breaching the system.



**DVX-1000**

### IP PBX

- ◆ 25 IP Phone Line Extensions
- ◆ Supports 25 Simultaneous Inbound/Outbound Calls
- ◆ Supports Multiple Users Across Multiple Sites
- ◆ Add External Analog Trunk Gateways to Use Standard Phones
- ◆ Can Cascade IP PBX Together Through LAN Ports to Get More Phone Extensions
- ◆ Integrated Conference Bridge & Firewall

## Bluetooth Personal Area Network

### Features & Benefits

- **Bluetooth Profile Compliance**
  - Interoperability with vendor-independent, Bluetooth standard-compliant devices.
- **Up to 2.1Mbps Wireless Transfer Rate (Bluetooth 2.0)**
  - Up to 723.2 Kbps basic data rate, enhanced rate up to 2.1Mbps (asymmetrical) or 1.5Mbps (symmetrical). Asymmetrical rates are used for data transfer (PC to mobile phone or PC to web); symmetrical rates are used for voice (mobile phone to headset).
  - Decent speed within a convenient range between Bluetooth-enable devices.
- **Up to 10 or 20 Meters' Operation Range**
  - Operation range depends on antenna capability.<sup>1</sup>
- **Adaptive Frequency Hopping (AFH) Function (Bluetooth 1.2, 2.0)**
  - Uses Enhanced Inquiry Scan for immediate Frequency Hopping Synchronization (FHS) response.
  - Automatically selects any unused frequency channels to establish a connection.
  - Maintains a high level of connection when operating in environments where 2.4GHz Wi-Fi devices are also present.



**DBT-122**

### USB Bluetooth Adapter

- ◆ Bluetooth 2.0 Class 2 Compliant
- ◆ Up to 2.1Mbps Asymmetrical, 1.5Mbps Symmetrical Transfer Rates
- ◆ USB 2.0 Connection to PC
- ◆ Adaptive Frequency Hopping (AFH) Function
- ◆ Internal Antenna With Up to 10 m Operating Range<sup>1</sup>
- ◆ 128-Bit Encryption
- ◆ Supports Windows, Mac OS



**DBT-900AP**

### Bluetooth-to-Ethernet Access Point

- ◆ Bluetooth 1.1 Class 2 Compliant
- ◆ Up to 723Kbps Transfer Rate
- ◆ Enables Bluetooth Devices to Access Services on Ethernet Networks (E-Mail, File Transfer, Internet Logon)
- ◆ Ethernet Connection with DHCP Assignments
- ◆ User Access Authorization/Authentication
- ◆ Simultaneous Access to Internet/Intranet
- ◆ External Antenna With Up to 20 m Operating Range<sup>1</sup>
- ◆ 56-Bit Data Encryption
- ◆ Works Seamlessly With Computers & PDA<sup>2</sup>

- **128-Bit Data Encryption**
  - Security protection for data transferred in the air among Bluetooth-enable devices.



<sup>1</sup> Environmental factor may adversely affect range.  
<sup>2</sup> Computers and PDAs connecting to DBT-900AP must be Bluetooth-enabled with PAN Profile support.

## Wireless Media Player & Audio Adapter

### Features & Benefits

- **Wireless Streaming Multimedia to Home Entertainment Center**

Enjoy MP3 music, digital photos and video footages in the comfort of the living room.

- **TV Screen Menu Selection via Remote Control**

- Users select file folders and file types (JPEG, MPEG-4, etc.) in PC hard drive to share; Media Player adds them to its on-screen menu.
- Use remote control to select and play.

- **Transparent Operation**

- All file/folder sharing and streaming take place behind the scene.
- Family members can work on programs on computer while others are watching digital video on TV screen.

- **High-Definition Multimedia Interface (HDMI)**

Connect to High-Definition TV for pure sound and images of up to 1080 interlace resolution (DSM-520).

- **Sleek Stereo Appliance Design**

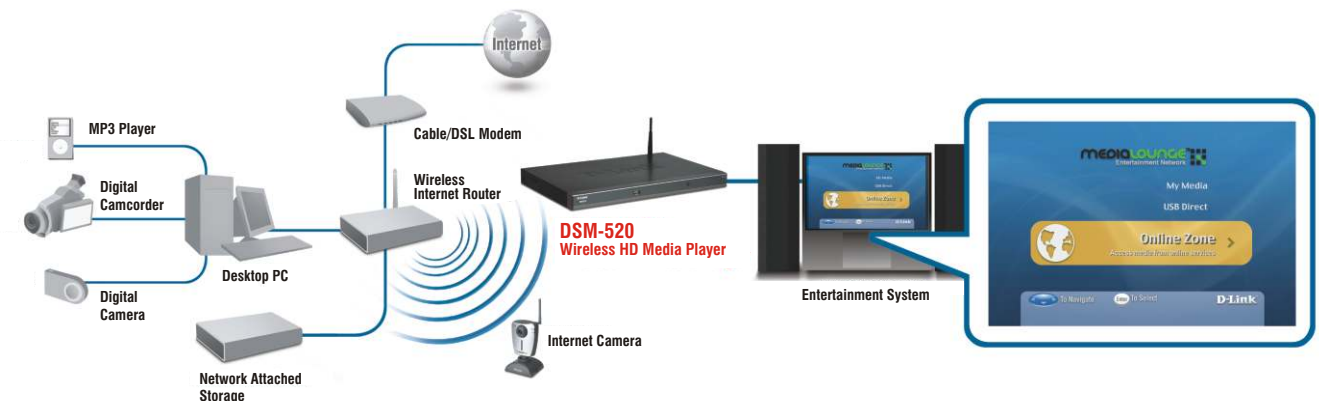
Good for placing side by side other living room entertainment appliances.

- **UPnP AV & WCN Support**

- Intel Networked Media Product Requirements (NMPR) compliance, seamless integration with other UPnP AV media devices.
- Windows Connect Now (WCN) simplifies configuration of all wireless appliances.

The Wireless Media Players unite a home network with the home entertainment center, allowing users to share, access, and enjoy digital multimedia in the comfort of the living room. They connect to the TV and let users access digital media content stored on the PC or a network attached storage, browse music files, watch videos and view digital photos. They also allow users to access on-line media contents on the TV through a home broadband Internet connection.

The wireless audio adapter connects to a flash drive, PC or hard drive to play digital sound. It comes with a convenient remote control and can connect wirelessly to the Internet to play broadcast radio programs and music. For quality sound, it can connect to a stereo system. This appliance has a sleek, beautiful desktop design, suitable for placing in the living room.



**DSM-520**  
Wireless HD Media Player

- ◆ HDMI (High-Definition Multimedia Interface) for HD TV Connection
- ◆ Supports WMV9 Video Format
- ◆ All Other Functions Same as DSM-320RD



**DSM-320RD**  
Wireless Media Player

- ◆ Stream Media Content From PC or Network Storage to Entertainment Center
- ◆ Listen to Digital Music on Stereo System
- ◆ View Digital Photos, Slideshows, Video on TV
- ◆ Integrated 802.11g Wireless Connection
- ◆ Can Connect Through Ethernet Interface
- ◆ Built-in DVD Player Supporting DVD, VCD, SVCD, CD, MP3 Formats
- ◆ Built-in Card Reader Supporting SD, Compact Flash (Type I/II), MMC, Memory Stick Formats



**DSM-120**  
Wireless Audio Adapter

- ◆ 2 USB Ports to Connect to Flash Drive & PC
- ◆ Compartment for 2.5-Inch Hard Drive
- ◆ Play MP3 Music From Flash Drive, PC or Attached Hard Drive
- ◆ Play Internet Music & Radio Programs
- ◆ 802.11g Wireless Connection to PC, AV Server & Broadband Router
- ◆ Can Also Connect Through Ethernet Interface
- ◆ S/PDIF Digital Audio Output Sockets
- ◆ RCA Audio Output Sockets



## For Online Games

### Features & Benefits

#### • Integrated 10/100/1000 BASE-T Gigabit Ports

- Gigabit connection from game consoles for latency-free gaming experience.
- Pre-configured ports can accommodate up to 256 policies for games applications.

#### • 108Mbps Wireless Speed, 5dBi High-Gain Antennas

- High-speed wireless connectivity.
- Optimal range for exceptional wireless signal coverage.

#### • Customizable Settings

- Allow gamers to add or modify new applications or game configurations.

#### • GameFuel System Technology

- Quality of Service (QoS) embedded in router gives top priority to multimedia packets.
- Full bandwidth to let gamers stay competitive on-line.

#### • WPA/WPA2 Security, WEP Data Encryption

- WPA EAP/PSK, WPA2 EAP/PSK access and data security with TKIP and AES support for wireless adapters and routers.
- User-selectable 64/128/152-bit WEP for flexible wireless data encryption schemes.

The gaming routers are high-performance devices designed for today's and tomorrow's games. Powered for high-performance, these gaming devices push the limits of basic networking technology to let gamers experience the evolution in networking and stay competitive in on-line games. Fit for the true online gamers, the gaming routers provide the uninterrupted and latency-free gaming experience serious on-line gamers expect.

The gaming routers give top priority to multimedia packets traveling on the network, providing the full bandwidth for demanding gaming applications to let gamers stay competitive on-line. They are equipped with high-performance CPU to support thousands of concurrent connections and multiplayer interactivity, and enable multi-tasking between other applications without degradation in game connection.

The gaming routers let players play their games while protecting their networks. The gaming routers protect gamers' wireless data with Wi-Fi Protected Access WPA/WPA2 and 128-bit Wired Equivalent Privacy (WEP) data encryption. Integrated Stateful Packet Inspection (SPI) firewall and access control policies help protect networks against hackers, war drivers, and other unauthorized users.



**DGL-4100**

#### Broadband Gaming Router

- ◆ 4 Gigabit Connections to Game Consoles
- ◆ Ethernet Connection to DSL/Cable Modem



**DGL-4300**

#### Wireless 108 G Gaming Router

- ◆ Integrated 802.11b/g Wireless LAN
- ◆ 4 Gigabit Connections to Game Consoles
- ◆ Ethernet Connection to DSL/Cable Modem

#### • Firewall Integrated into Router

- Stateful Packet Inspection (SPI) firewall prevents illegal Internet intruders.
- Can control user access based on time, date and applications.
- Can prevent access to undesired web sites through domain and URL filtering.

**GAMERLOUNGE**  
NETWORKING EVOLVED



## USB Adapter & Hub, 1394 FireWire Adapter



The USB adapters and hubs provide plug-and-play connection for multimedia devices and peripherals. The USB hubs allow up to 127 USB devices to be daisy chained. They offer increased functionality with additional bandwidth, allowing more peripherals to be added to computers. They also support over-current detection for connected devices.

The combo USB hubs offer built-in IEEE 1394 (FireWire) capabilities, bringing together multiple multimedia technologies together in an all-in-one, high-performance solution for your digital media applications. With USB and 1394 ports, users have plenty of room to connect DV camcorder, hard drives, digital cameras, web cams or other FireWire and USB devices.

For older computers not equipped with USB or 1394 ports, users can insert upgrade adapters to add USB and 1394 ports to the computer system.



**DUB-A2**

#### 2-Port USB 2.0 PCI Adapter

- ◆ 2 USB 2.0 Downstream (Type A) Ports
- ◆ USB-IF Certified
- ◆ Supports Windows



**DU-520**

#### 5-Port USB 2.0 PCI Adapter

- ◆ 5 USB 2.0 Downstream (Type A) Ports
- ◆ USB-IF Certified
- ◆ Supports Windows, Mac OS



**DUB-C2**

#### 2-Port USB 2.0 CardBus Adapter

- ◆ 2 USB 2.0 Downstream (Type A) Ports
- ◆ Supports Windows, Mac OS



**DFB-A5**

#### Combo USB PCI Adapter

- ◆ 2 USB 2.0 Downstream (Type A) Ports
- ◆ 2 External 1394 Ports, 1 Internal 1394 Port
- ◆ USB-IF Certified
- ◆ Supports Windows, Mac OS



**DUB-104**

#### 4-Port USB 2.0 Hub

- ◆ 4 USB 2.0 Type A Downstream Ports
- ◆ 1 USB 2.0 Type A Upstream Dongle
- ◆ Built-in Compartment to Hold Fold-up Dongle
- ◆ USB-IF Certified
- ◆ Supports Windows, Mac OS
- ◆ Slim Pocket-Sized, Lightweight, Easy to Carry
- ◆ USB Bus Powered
- ◆ Optional External Power Adapter



**DUB-H4**

#### 4-Port USB 2.0 Hub

- ◆ 4 USB 2.0 Type A Downstream Ports
- ◆ 1 USB 2.0 Type B Upstream Port
- ◆ USB-IF Certified
- ◆ Supports Windows, Mac OS
- ◆ 1.8 m USB Cable Provided
- ◆ Powered Through External AC Power Adapter



**DUB-H7**

#### 7-Port USB 2.0 Hub

- ◆ 7 USB 2.0 Type A Downstream Ports
- ◆ 1 USB 2.0 Type B Upstream Port
- ◆ USB-IF Certified
- ◆ Supports Windows, Mac OS
- ◆ 1.8 m USB Cable Provided
- ◆ Powered Through External AC Power Adapter

\*Maximum wireless signal rate when in operation with other D-Link GamesLounge, Wireless 108 G and Wireless 108AG devices. Network conditions and environmental factors may lower actual data throughput. 108Mbps Turbo mode in 5GHz frequency band not allowed in EU countries.

## Powerline Ethernet Adapter

### Features & Benefits

- High Transmission Rate**
  - The latest generation of D-Link Powerline adapters (DHP-300) can deliver data transfer rates of up to 200Mbps.
  - Ideal for streaming video and music from PC or storage servers in other rooms to High-Definition TV and Media Players in living room.
- Quality of Service Support**
  - Video, Internet phone and on-line games won't experience glitches while file downloads or web surfing are taking place.
- Uses Different AC Frequencies**
  - Household appliances' electrical current doesn't interfere with the data network.
- Data Encryption/Net ID Security**
  - Keep out intruders in the same building.
  - Isolate home or office network from users in other apartments on the same floor that share the building electrical wiring.
- 802.1Q VLAN Tag**
  - Network isolation to prevent Internet phone from being tapped.

Powerline transmits data on the electrical wiring and does not require any new network cables. Because power outlets are located on nearly every wall of a house, users can easily connect the network and share Internet access. It is ideal for connecting home network entertainment components normally located near a power outlet. Any Ethernet-ready devices, such as broadband routers, computers, High Definition TV, digital video recorders, game consoles, Internet cameras, print servers and D-Link Media Players can be added to a home network.

Powerline can be used to extend a Wi-Fi network in the home or small office building. A pair of Powerline adapters can link two wireless locations without the need to run Ethernet cables. Combined with a broadband cable/DSL connection, every room with electrical outlets will have easy access to high-speed Internet connection.



#### DHP-100 Powerline Ethernet Adapter

- ◆ HomePlug 1.0 Standard
- ◆ 4.5 to 21MHz Frequency Band
- ◆ AC Power Prongs
- ◆ 10/100BASE-TX Ethernet Port
- ◆ 14Mbps Data Transfer
- ◆ 56-Bit DES Data Encryption



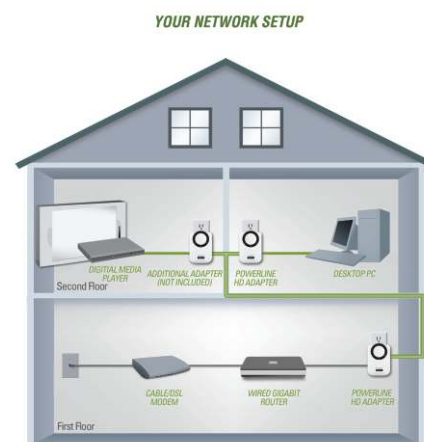
#### DHP-300 Powerline Ethernet Adapter

- ◆ 2 to 32MHz Frequency Band
- ◆ AC Power Prongs
- ◆ 10/100BASE-TX Ethernet Port
- ◆ 200Mbps Data Transfer
- ◆ DES/3DES Data Encryption



#### DHP-200 Powerline Ethernet Adapter

- ◆ HomePlug 1.0 Standard
- ◆ 4 to 21MHz Frequency Band
- ◆ AC Power Prongs
- ◆ 10/100BASE-TX Ethernet Port
- ◆ Enhanced 85Mbps Data Transfer
- ◆ 56-Bit DES Data Encryption



## Dial-up Modem

### Features & Benefits

- Latest V.92 Standard Compliance
- Hardware Modems With On-Board Components to Offload Host PC's Communication Tasks
- Low-Cost Software Modems for PC With Faster Processors
- Bundled BVRP Fax Software to Send/Receive Fax

Supporting line speeds of up to 56Kbps (receive rates) and 48Kbps (transmit rates), the analog modems connect into the phone line to establish a dial-up Internet link. These low-cost dial-up modems allow home users to surf the Internet or access e-mail without the need for DSL, cable modem or ISDN subscriptions.

Complying with industry standards, the analog modems perform data compression and error correction for fast and reliable transmission/reception. In addition to Internet connection, these modems also support fax transfer, with transmission/reception rates of up to 14.4Kbps.



#### DFM-562I Analog Modem PCI Adapter

- ◆ V.92/V.90 Standards
- ◆ MIC Microphone & Speaker Jacks for Loud Speaker Connection
- ◆ 2 RJ-11 Phone Jacks (to Phone Line & Phone Set)
- ◆ Supports Windows



#### DFM-562E Analog Modem

- ◆ V.92/V.90 Standards
- ◆ RS-232 Serial Interface to PC
- ◆ MIC Microphone & Speaker Jacks for Voice
- ◆ Supports Windows
- ◆ Powered Through External Power Adapter



#### DFM-562IS Analog Modem PCI Adapter

- ◆ Software Modem
- ◆ V.92/V.90 Standards
- ◆ 2 RJ-11 Phone Jacks (to Phone Line & Phone Set)
- ◆ Supports Windows



#### DFM-560EL Analog Modem

- ◆ V.90 Standard
- ◆ RS-232 Serial Interface to PC
- ◆ Supports Windows
- ◆ Powered Through External Power Adapter



#### DU-562M USB Analog Modem

- ◆ Software Modem
- ◆ V.92/V.90 Standards
- ◆ USB Interface to PC
- ◆ Supports Telephone Answering Machine (TAM)
- ◆ Supports Windows
- ◆ USB Bus Power, No External Power Supply Required

<b>ANT24-0230</b>	Omni-Directional Antenna <b>21</b>
<b>ANT24-0401</b>	Omni-Directional Antenna <b>20</b>
<b>ANT24-0500</b>	Omni-Directional Antenna <b>20</b>
<b>ANT24-0501</b>	Omni-Directional Antenna <b>20</b>
<b>ANT24-0501C</b>	Omni-Directional Antenna <b>20</b>
<b>ANT24-0600</b>	Directional Antenna <b>20</b>
<b>ANT24-0700</b>	Omni-Directional Antenna <b>20</b>
<b>ANT24-0700C</b>	Omni-Directional Antenna <b>21</b>
<b>ANT24-0800</b>	Omni-Directional Antenna <b>21</b>
<b>ANT24-0801</b>	Directional Antenna <b>21</b>
<b>ANT24-1200</b>	Directional Antenna <b>21</b>
<b>ANT24-1201</b>	Directional Antenna <b>21</b>
<b>ANT24-1400</b>	Directional Antenna <b>21</b>
<b>ANT24-1500</b>	Omni-Directional Antenna <b>21</b>
<b>ANT24-1800</b>	Directional Antenna <b>17</b>
<b>ANT24-1801</b>	Directional Antenna <b>17</b>
<b>ANT24-2100</b>	Directional Antenna <b>17</b>
<b>ANT24-CB03N</b>	Antenna RF Extension Cable <b>19</b>
<b>ANT24-CB06N</b>	Antenna RF Extension Cable <b>19</b>
<b>ANT24-CB09N</b>	Antenna RF Extension Cable <b>19</b>
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<b>ANT24-ODU1M</b>	Antenna Cable Kit <b>19</b>
<b>ANT24-ODU3M</b>	Antenna Cable Kit <b>19</b>
<b>ANT24-DLK3M</b>	Antenna Cable Kit <b>19</b>
<b>ANT24-SP</b>	Lightning Surge Arrestor/Protector <b>19</b>
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<b>ANT70-0801</b>	Omni-Directional Antenna <b>17</b>
<b>ANT70-1000</b>	Directional Antenna <b>17</b>
<b>ANT70-1800</b>	Directional Antenna <b>17</b>
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<b>DAP-1160</b>	Wireless G Access Point <b>9</b>
<b>DAP-1250</b>	Wireless 108 G Access Point <b>12</b>
<b>DAP-1353</b>	RangeBooster N 650 Access Point <b>16</b>
<b>DAS-3224</b>	24-Port IP DSLAM <b>2</b>
<b>DAS-3224F</b>	24-Port IP DSLAM <b>2</b>
<b>DAS-3248</b>	48-Port IP DSLAM <b>2</b>
<b>DAS-3248F</b>	48-Port IP DSLAM <b>2</b>
<b>DAS-3324</b>	24-Port IP DSLAM <b>2</b>
<b>DAS-3324G</b>	24-Port IP DSLAM <b>2</b>
<b>DBT-122</b>	USB Bluetooth Adapter <b>95</b>
<b>DBT-900AP</b>	Bluetooth-to-Ethernet Access Point <b>95</b>

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<b>DCS-50</b>	IP Camera Outdoor Enclosure <b>86</b>
<b>DCS-60</b>	IP Camera Outdoor Enclosure <b>86</b>
<b>DCS-70</b>	IP Camera Outdoor Enclosure <b>86</b>
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<b>DCS-950</b>	IP Camera <b>85</b>
<b>DCS-950G</b>	IP Camera <b>85</b>
<b>DCS-2100</b>	IP Camera <b>85</b>
<b>DCS-2120</b>	IP Camera <b>85</b>
<b>DCS-3220</b>	IP Camera <b>85</b>
<b>DCS-3220G</b>	IP Camera <b>85</b>
<b>DCS-3420</b>	IP Camera <b>85</b>
<b>DCS-5300</b>	IP Camera <b>85</b>
<b>DCS-5300G</b>	IP Camera <b>85</b>
<b>DCS-5220</b>	IP Camera <b>85</b>
<b>DCS-6620</b>	IP Camera <b>85</b>
<b>DCS-6620G</b>	IP Camera <b>85</b>
<b>DCS-G900</b>	IP Camera <b>85</b>
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<b>DEM-201FL</b>	1-Port 100BASE-FX Module <b>45</b>
<b>DEM-210</b>	SFP Transceiver <b>75</b>
<b>DEM-211</b>	SFP Transceiver <b>75</b>
<b>DEM-301T</b>	1-Port 10/100/1000Mbps Module <b>45</b>
<b>DEM-301G</b>	1-Slot SFP Module <b>45</b>
<b>DEM-310G</b>	M2 GBIC Transceiver <b>74</b>
<b>DEM-310GT</b>	SFP Transceiver <b>75</b>
<b>DEM-311GT</b>	SFP Transceiver <b>75</b>
<b>DEM-312GT</b>	2 SFP Transceiver <b>75</b>
<b>DEM-314GT</b>	SFP Transceiver <b>75</b>
<b>DEM-315GT</b>	SFP Transceiver <b>75</b>
<b>DEM-330T</b>	SFP Transceiver <b>74</b>
<b>DEM-330R</b>	SFP Transceiver <b>74</b>
<b>DEM-331T</b>	SFP Transceiver <b>74</b>
<b>DEM-331R</b>	SFP Transceiver <b>74</b>
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<b>DEM-340T</b>	4-Port 10/100/1000BASE-T Module <b>46</b>
<b>DEM-410X</b>	1-Port 10-Gigabit Module <b>25, 53, 57</b>
<b>DEM-410CX</b>	1-Port 10-Gigabit Module <b>25, 53, 57</b>
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<b>DEM-420CX</b>	2-Port 10-Gigabit Module <b>55</b>

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<b>DEM-422XT</b>	XFP Transceiver <b>75</b>
<b>DEM-423XT</b>	XFP Transceiver <b>75</b>
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<b>DEM-CB100</b>	Stacking Cable <b>55</b>
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<b>DES-1016D</b>	16-Port Ethernet Switch <b>38</b>
<b>DES-1018DG</b>	16-Port Ethernet Switch <b>39</b>
<b>DES-1024D</b>	24-Port Ethernet Switch <b>39</b>
<b>DES-1024DG</b>	22-Port Ethernet Switch <b>39</b>
<b>DES-1016R+</b>	16-Port Ethernet Switch <b>39</b>
<b>DES-1024R+</b>	24-Port Ethernet Switch <b>39</b>
<b>DES-1026G</b>	24-Port Ethernet Switch <b>39</b>
<b>DES-1048</b>	48-Port Ethernet Switch <b>39</b>
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<b>DES-3028</b>	24-Port L2 Ethernet Switch <b>45</b>
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<b>DES-3052P</b>	48-Port L2 PoE Ethernet Switch <b>45</b>
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<b>DES-3400-28P</b>	24-Port L2+ PoE Ethernet Switch <b>50</b>
<b>DES-3400-52</b>	48-Port L2+ Ethernet Switch <b>50</b>
<b>DES-3400-52P</b>	48-Port L2+ PoE Ethernet Switch <b>50</b>
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<b>DES-3526DC</b>	24-Port L2 Ethernet Switch <b>50</b>

<b>DES-3550</b>	48-Port L2 Ethernet Switch <b>50</b>
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<b>DES-6505</b>	8-Port Fiber Gigabit Module <b>60</b>
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<b>DES-6507</b>	12-Port Combo Gigabit Module <b>60</b>
<b>DES-6508</b>	16-Port 10/100Mbps Module <b>60</b>
<b>DES-6509</b>	12-Slot SFP Module <b>60</b>
<b>DES-6510</b>	24-Port 10/100Mbps Module <b>60</b>
<b>DES-6511</b>	Redundant Power Supply <b>60</b>
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<b>DFE-550FX</b>	Fiber Ethernet PCI Adapter <b>76</b>
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<b>DFE-554CP</b>	PXE Boot ROM <b>77</b>
<b>DFE-554FP</b>	PXE Boot ROM <b>77</b>
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<b>DPH-541</b>	Wi-Fi Phone <b>93</b>
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<b>DPR-1260</b>	4-Port Wireless 108 G USB Print Server <b>81</b>
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<b>DPS-300</b>	Redundant Power Supply <b>66</b>
<b>DPS-500</b>	Redundant Power Supply <b>66</b>
<b>DPS-600</b>	Redundant Power Supply <b>66</b>
<b>DPS-800</b>	2-Slot Chassis <b>66</b>
<b>DPS-900</b>	8-Slot Chassis <b>66</b>
<b>DPS-CB400</b>	Power Cable <b>66</b>
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<b>DS-501P/CN</b>	D-View Professional Version (Simplified Chinese) <b>65</b>
<b>DS-501S</b>	D-View Standard Version <b>65</b>
<b>DS-601</b>	Network Security VPN Client <b>32</b>
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<b>DSB-C120</b>	100K Pixel PC Camera <b>83</b>
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<b>DSL-322T</b>	ADSL2+ Combo Ethernet/USB Modem <b>3</b>
<b>DSL-380T</b>	ADSL2+ Ethernet Modem <b>3</b>
<b>DSL-382T</b>	ADSL2+ Combo Ethernet/USB Modem <b>3</b>
<b>DSL-520T</b>	ADSL2+ Ethernet Router <b>4</b>
<b>DSL-520L</b>	ADSL2+ Ethernet Router <b>4</b>
<b>DSL-522T</b>	ADSL2+ Combo Ethernet/USB Router <b>4</b>
<b>DSL-522L</b>	ADSL2+ Combo Ethernet/USB Router <b>4</b>
<b>DSL-524L</b>	ADSL2+ 4-Port Ethernet Router <b>4</b>
<b>DSL-580T</b>	ADSL2+ Ethernet Router <b>4</b>
<b>DSL-582T</b>	ADSL2+ Combo Ethernet/USB Router <b>4</b>



<b>DSL-2300B</b>	ADSL2+ Ethernet Modem <b>3</b>
<b>DSL-2320B</b>	ADSL2+ Combo Ethernet/USB Modem <b>3</b>
<b>DSL-2500B</b>	ADSL2+ Ethernet Router <b>4</b>
<b>DSL-2540T</b>	ADSL2+ 4-Port Ethernet Router <b>4</b>
<b>DSL-5220B</b>	ADSL2+ Combo Ethernet/USB Router <b>4</b>
<b>DSL-2540B</b>	ADSL2+ 4-Port Ethernet Router <b>4</b>
<b>DSL-2541T</b>	ADSL2+ 4-Port Ethernet Router <b>4</b>
<b>DSL-2600B</b>	ADSL2+ Wireless GEthernet Router <b>4</b>
<b>DSL-2640B</b>	ADSL2+ Wireless G4-Port Ethernet Router <b>4</b>
<b>DSL-2640T</b>	ADSL2+ Wireless G4-Port Ethernet Router <b>4</b>
<b>DSL-2641T</b>	ADSL2+ Wireless G4-Port Ethernet Router <b>4</b>
<b>DSL-2740B</b>	RangeBooster N ADSL2+ Router <b>5</b>
<b>DSL-2741B</b>	RangeBooster N ADSL2+ Router <b>5</b>
<b>DSL-6300B</b>	VDSL2 Ethernet Modem <b>6</b>
<b>DSL-6341K</b>	VDSL2 4-Port Ethernet Modem <b>6</b>
<b>DSL-6640I</b>	VDSL2 4-Port Wireless Router <b>6</b>
<b>DSL-6624M</b>	ADSL2+ Wireless 108G MIMO Ethernet Router <b>5</b>
<b>DSL-6804V</b>	ADSL2+ Wireless GVPN Router <b>5</b>
<b>DSL-6864V</b>	ADSL2+ Wireless GVPN Router <b>5</b>
<b>DSM-120</b>	Wireless Audio Adapter <b>97</b>
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<b>DSM-520</b>	Wireless HD Media Player <b>96</b>
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<b>DU-520</b>	5-Port USB 2.0 PCI Adapter <b>99</b>
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<b>DUB-A2</b>	2-Port USB 2.0 PCI Adapter <b>99</b>
<b>DUB-C2</b>	2-Port USB 2.0 CardBus Adapter <b>99</b>
<b>DUB-E100</b>	USB 2.0 Ethernet Adapter <b>77</b>
<b>DUB-H4</b>	4-Port USB 2.0 Hub <b>99</b>
<b>DUB-H7</b>	7-Port USB 2.0 Hub <b>99</b>
<b>DVA-3340S</b>	ADSL2+ VoIP Router <b>5</b>
<b>DVA-3340SB</b>	ADSL2+ VoIP Router <b>5</b>
<b>DVA-G3340S</b>	ADSL2+ Wireless GVoIP Router <b>5</b>

<b>DVA-G3340SB</b>	ADSL2+ Wireless GVoIP Router <b>5</b>
<b>DVA-G3342SB</b>	ADSL2+ ISDN Wireless G VoIP Router <b>5</b>
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<b>DVG-1402S</b>	2-Port VoIP Station Gateway <b>89</b>
<b>DVG-1420SP</b>	2-Port VoIP Station Gateway <b>89</b>
<b>DVG-2001S</b>	1-Port VoIP Telephone Adapter <b>91</b>
<b>DVG-2016S</b>	16-Port VoIP Station Gateway <b>89</b>
<b>DVG-2032S</b>	32-Port VoIP Station Gateway <b>89</b>
<b>DVG-3004S</b>	4-Port VoIP Trunk Gateway <b>90</b>
<b>DVG-3016S</b>	16-Port VoIP Trunk Gateway <b>90</b>
<b>DVG-3032S</b>	32-Port VoIP Trunk Gateway <b>90</b>
<b>DVG-4032S</b>	32-Port VoIP Station/Trunk Gateway <b>91</b>
<b>DVG-4088S</b>	16-Port VoIP Station/Trunk Gateway <b>91</b>
<b>DVG-5004S</b>	4-Port VoIP Station Gateway <b>89</b>
<b>DVG-5008S</b>	8-Port VoIP Station Gateway <b>89</b>
<b>DVG-5121SP</b>	2-Port VoIP Telephone Adapter <b>91</b>
<b>DVG-6004S</b>	4-Port VoIP Trunk Gateway <b>90</b>
<b>DVG-6008S</b>	8-Port VoIP Trunk Gateway <b>90</b>
<b>DVG-7022S</b>	4-Port VoIP Station/Trunk Gateway <b>90</b>
<b>DVG-7044S</b>	8-Port VoIP Station/Trunk Gateway <b>90</b>
<b>DVG-7062S</b>	8-Port VoIP Station/Trunk Gateway <b>90</b>
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<b>DVG-G1402S</b>	2-Port Wireless G VOIP Station Gateway <b>89</b>
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<b>DWA-120</b>	Wireless 108 G USB Adapter <b>11</b>
<b>DWA-130</b>	Wireless N USB Adapter <b>17</b>
<b>DWA-140</b>	RangeBooster N USB Adapter <b>17</b>
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<b>DWA-510</b>	Wireless G PCI Adapter <b>9</b>
<b>DWA-520</b>	Wireless 108 GPCI Adapter <b>12</b>
<b>DWA-542</b>	RangeBooster N PCI Adapter <b>16</b>
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<b>DWA-610</b>	Wireless G CardBus Adapter <b>9</b>

<b>DWA-620</b>	Wireless 108 G CardBus Adapter <b>11</b>
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<b>DWL-2700AP</b>	Wireless G Outdoors Access Point <b>13</b>
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<b>DWL-3200AP</b>	Wireless 108 G Access Point <b>13</b>
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<b>DWL-7700AP</b>	Wireless AG Outdoors Access Point <b>15</b>
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<b>DWL-AG660</b>	Wireless 108 AG CardBus Adapter <b>14</b>
<b>DWL-G122</b>	Wireless G USB Adapter <b>8</b>
<b>DWL-G132</b>	Wireless 108 G USB Adapter <b>11</b>
<b>DWL-G510</b>	Wireless G PCI Adapter <b>9</b>
<b>DWL-G520</b>	Wireless 108 GPCI Adapter <b>12</b>
<b>DWL-G550</b>	Wireless 108 GPCI Adapter <b>12</b>
<b>DWL-G630</b>	Wireless G CardBus Adapter <b>8</b>
<b>DWL-G650</b>	Wireless 108 G CardBus Adapter <b>11</b>
<b>DWL-G680</b>	Wireless 108 G CardBus Adapter <b>11</b>
<b>DWL-G700AP</b>	Wireless G Access Point <b>9</b>
<b>DWL-G710</b>	Wireless G Range Extender <b>9</b>
<b>DWL-G730AP</b>	Wireless G Pocket Router/AP <b>9</b>
<b>DWL-G810</b>	Ethernet to Wireless 108 G Bridge <b>12</b>
<b>DWL-P50</b>	Power Over Ethernet Adapter <b>79</b>
<b>DWL-P200</b>	Power Over Ethernet Adapter <b>79</b>
<b>DWL-P1012</b>	12-Port Power Over Ethernet Midspan <b>79</b>
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<b>DWS-1008</b>	8-Port Wireless Switch <b>24</b>
<b>DWS-3024</b>	24-Port Wireless Switch <b>25</b>
<b>DWS-3026</b>	24-Port Wireless Switch <b>25</b>
<b>DXS-3326GSR</b>	24-Slot L3 SFP Gigabit Switch <b>55</b>
<b>DXS-3350SR</b>	48-Port L3 Gigabit Switch <b>55</b>

<b>ECB-ANT240500</b>	SMA-male to SMA-female Cable <b>19</b>
<b>ECB-ANT240800</b>	SMA-male to SMA-female Cable <b>19</b>
<b>ECB-ANT241200</b>	SMA-male to SMA-female Cable <b>19</b>
<b>IFL210IPS12</b>	1 Year IPS Subscription for DFL-210 Firewall <b>34</b>
<b>IFL800IPS12</b>	1 Year IPS Subscription for DFL-800 Firewall <b>34</b>
<b>IFL1600IPS12</b>	1 Year IPS Subscription for DFL-1600 Firewall <b>34</b>
<b>IFL2500IPS12</b>	1 Year IPS Subscription for DFL-2500 Firewall <b>34</b>
<b>KVM-121</b>	2-Port KVM Switch <b>68</b>
<b>KVM-221</b>	2-Port USB KVM Switch <b>68</b>

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