



### Integrated Firewall/VPN

- + Powerful Firewall Engine
- + Virtual Private Network (VPN) Security
- + Granular Bandwidth Management
- + 802.1Q VLAN Tagging
- + D-Link End-to-End Security Solution (E2ES) Integration with ZoneDefense™<sup>1</sup>

### Advanced Functions

- + Stateful Packet Inspection (SPI)
- + Detect/Drop Intruding Packets
- + Server Load Balancing<sup>1</sup>
- + Policy-based Routing

### Unified Threat Management

- + Intrusion Prevention System (IPS)<sup>3</sup>
- + Antivirus (AV) Protection powered by Kaspersky<sup>2,3</sup>
- + Web Content Filtering (WCF)<sup>2,3</sup>
- + Optional Service Subscriptions
- + DNSBL-based Anti-SPAM

### Virtual Private Network (VPN)

- + IPsec NAT Transversal
- + VPN Hub and Spoke
- + IPsec, PPTP, L2TP
- + DES, 3DES, AES, Twofish, Blowfish, CAST-128 Encryption
- + Automated Key Management via IKE/ISAKMP
- + Aggressive/Main/Quick Negotiation



## Network Security Firewall

### NetDefend™ UTM Firewall Series

D-Link NetDefend™ Unified Threat Management (UTM) firewalls (DFL-210, DFL-260, DFL-800, and DFL-860) provide a powerful security solution to protect business networks from a wide variety of threats. UTM Firewalls offer a comprehensive defense against virus attacks, unauthorized intrusions, and harmful content, enhancing fundamental capabilities for managing, monitoring, and maintaining a healthy network.

### Enterprise-class Firewall Security

The DFL-210, DFL-260, DFL-800, and DFL-860 provide complete advanced security features to manage, monitor, and maintain a healthy and secure network. Network management features include: Remote Management, Bandwidth Control Policies, URL Black/White Lists, Access Policies and SNMP. For network monitoring, these firewalls support e-mail alerts, system logs, consistency checks and real-time statistics.

### Unified Threat Management

For superior Layer 7 content inspection and protection, the DFL-210, DFL-260, DFL-800, and DFL-860 provide an integrated intrusion detection and prevention system, gateway antivirus, and content filtering services. The real-time update service keeps the IPS information, antivirus signatures, and URL databases current. Combined, these enhancements help to protect the office network from application exploits, network worms, and malicious code attacks, and provide everything a business needs to safely manage employee Internet access.

### Powerful VPN Performance

The DFL-210, DFL-260, DFL-800, and DFL-860 offer an integrated VPN client and server. This allows remote offices to securely connect to a head office or a trusted partner network. Mobile users working from home or

remote locations can also safely connect to the office or access company data and e-mail. The firewalls support IPsec, PPTP, and L2TP protocols in Client/Server mode and can handle pass-through traffic as well. Advanced VPN configuration options include: DES/3DES/AES/Twofish/Blowfish/CAST-128 encryption, Manual or IKE/ISAKMP key management, Quick/Main/Aggressive Negotiation modes, and VPN authentication support using either an external RADIUS server or a large user database.

### Robust Intrusion Prevention

NetDefend UTM firewalls employ component-based signatures, a unique IPS technology that recognizes and protects against all varieties of known and unknown attacks. This system can 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 sensor-grid and exploits collected from public sites such as the National Vulnerability Database and Bugtrax. NetDefend UTM firewalls constantly create and optimize NetDefend signatures via the D-Link Auto-Signature Sensor System without overloading existing security appliances. These signatures ensure a high ratio of detection accuracy and a low ratio of false positives.

### Stream-based Virus Scanning

The DFL-210, DFL-260, DFL-800, and DFL-860 examine files of any size, using a stream-based virus scanning technology that eliminates the need to cache incoming files. The zero-cache scanning method not only increases inspection performance but also reduces network bottlenecks. NetDefend UTM firewalls use virus signatures from Kaspersky Labs to provide systems with reliable and accurate antivirus protection, as well as prompt signature updates. Consequently, viruses and malware can be effectively blocked before they reach the network's desktops or mobile devices.

### Enhanced Network Services

- + DHCP Server/Client/Relay
- + IGMP V3
- + H.323 NAT Transversal
- + Robust Application Security for ALGs
- + OSPF Dynamic Routing Protocol¹
- + Run-time Web-based Authentication

### Web Content Filtering

Web Content Filtering helps administrators monitor, manage, and control employee usage of and access to the Internet. The NetDefend UTM firewalls implement multiple global index servers with millions of URLs and real-time website data to enhance performance capacity and maximize service availability. These firewalls use highly granular policies and explicit black/white lists to control access to certain types of websites for any combination of users, interfaces and IP networks. The firewall can actively handle Internet content by stripping potential malicious objects, such as Java Applets, JavaScripts/ VBScripts, ActiveX objects, and cookies.

### UTM Services

Maintaining an effective defense against various threats originating from the Internet requires that all three

databases used by NetDefend UTM firewalls are kept up-to-date. In order to provide a robust defense, D-Link offers NetDefend Firewall UTM service subscriptions, which include updates for every aspect of defense: Intrusion Prevention Systems (IPS), Antivirus (AV), and Web Content Filtering (WCF). NetDefend UTM Subscriptions ensure that each of the firewalls' service databases is complete and effective.

### NetDefend UTM Subscription

The standard NetDefend UTM Subscription provides your firewall with UTM service updates for two years³ starting from the day you activate or extend your service. The NetDefend UTM Subscription can be renewed annually to provide your firewall with the most up-to-date security service available from D-Link.



Technical Specifications	DFL-210/260	DFL-800/860
<b>Interfaces</b>		
Ethernet	1 10/100 WAN Port 1 10/100 DMZ Port 4 10/100 LAN Ports	2 10/100 WAN Ports 1 10/100 DMZ Port 7 10/100 LAN Ports
Console	1 DB-9 RS-232	1 DB-9 RS-232
<b>System Performance</b>		
Firewall Throughput⁴	80Mbps	150Mbps
VPN Throughput⁵	25Mbps	45Mbps
IPS Throughput⁶	20	40
Antivirus Throughput⁶	10	20
Concurrent Sessions	10,000	20,000
Policies	500	1,000
<b>Firewall System</b>		
Transparent Mode	yes	yes
NAT, PAT	yes	yes
Dynamic Routing Protocol	-	OSPF
H.323 NAT Transversal	yes	yes
Time-Scheduled Policies	yes	yes
Application Layer Gateway	yes	yes
Protective End-Point Security	-	ZoneDefense

## Networking

DHCP Server/Client	yes	yes
DHCP Relay	yes	yes
Policy-based Routing	yes	yes
IEEE 802.1q VLAN	8	16
IP Multicast	IGMP v3	IGMP v3

## Virtual Private Network (VPN)

Encryption Methods	yes	yes
Dedicated VPN Tunnels	100	200
PPTP/L2TP Server	yes	yes
Hub and Spoke	yes	yes
IPSec NAT Transversal	yes	yes
Outbound Load Balancing	yes	yes
Server Load Balancing	yes	yes
Outbound Load Balance Algorithms	Round-robin, Weight-based Round-robin, Destination-based, Spill-over	Round-robin, Weight-based Round-robin, Destination-based, Spill-over
Traffic Redirect at Fail-Over	yes	yes

## Bandwidth Management

Policy-based Traffic Shaping	yes	yes
Guaranteed Bandwidth	yes	yes
Maximum Bandwidth	yes	yes
Priority Bandwidth	yes	yes
Dynamic Bandwidth Balancing	yes	yes

## High Availability (HA)

WAN Fail-Over	yes	yes
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## Intrusion Detection & Prevention System (IDS/IPS)<sup>3</sup>

Automatic Pattern Update	yes	yes
DoS, DDoS Protection	yes	yes
Attack Alarm via E-mail	yes	yes
Advanced IDS/IPS Subscription	yes	yes
IP Blacklist by Threshold or IDS/IPS	-	yes

## Content Filtering

HTTP Type	URL Blacklist/Whitelist	URL Blacklist/Whitelist
Script Type	Java, Cookie, ActiveX, VB	Java, Cookie, ActiveX, VB
E-mail Type	E-mail Blacklist/Whitelist	E-mail Blacklist/Whitelist
External Database Content Filtering <sup>2,3</sup>	yes	yes

## Antivirus<sup>2,3</sup>

Real Time AV Scanning	yes	yes
Unlimited File Size	yes	yes
Scans VPN Tunnels	yes	yes
Supports Compressed Files	yes	yes
Signature Licensor	Kaspersky	Kaspersky
Automatic Pattern Update	yes	yes

## Physical and Environmental

Power Supply	External Power Adapter	External Power Adapter
Dimensions (W x D x H)	9.25in x 6.38in x 1.42in (235mm x 162mm x 36mm)	11.02in x 8.43in x 1.73in (280mm x 214mm x 44mm)
Operating Temperature	32 to 104°F (0 to 40°C)	33 to 104°F (0 to 40°C)
Storage Temperature	-4 to 158°F (-20 to 70°C)	-4 to 158°F (-20 to 70°C)
Operating Humidity	5% to 95% Non-Condensing	5% to 95% Non-Condensing
EMI	FCC Class A, CE Class A, C-Tick, VCCI	FCC Class A, CE Class A, C-Tick, VCCI
Safety	UL LVD (EN60950-1)	LVD (EN60950-1)
MTBF	186,614 Hours	140,532 Hours

## Subscription Services

IPS Subscription	DFL-210 (90-Day Trial) DFL-260 (2 Years)	DFL-800 (90-Day Trial) DFL-860 (2 Years)
AV Subscription	DFL-210 (90-Day Trial) DFL-260 (2 Years)	DFL-800 (90-Day Trial) DFL-860 (2 Years)
WCF Subscription	DFL-210 (90-Day Trial) DFL-260 (2 Years)	DFL-800 (90-Day Trial) DFL-860 (2 Years)

## Warranty Information

Warranty	1-Year Limited <sup>7</sup>	1-Year Limited <sup>7</sup>
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## Ordering Information

DFL-210	NetDefend Network Security UTM Firewall, 1 WAN, 1 DMZ, 4 LAN, 90-Day IPS/AV/WCF Subscription
DFL-260	NetDefend Network Security UTM Firewall, 1 WAN, 1 DMZ, 4 LAN, 2-Year IPS/AV/WCF Subscription
DFL-800	NetDefend Network Security UTM Firewall, 2 WAN, 1 DMZ, 7 LAN, 90-Day IPS/AV/WCF Subscription
DFL-860	NetDefend Network Security UTM Firewall, 2 WAN, 1 DMZ, 7 LAN, 2-Year IPS/AV/WCF Subscription
DFL-210-AV-12 <sup>2</sup>	NetDefend AV 1-Year Subscription for DFL-210
DFL-260-AV-12	NetDefend AV 1-Year Subscription for DFL-260
DFL-800-AV-12 <sup>2</sup>	NetDefend AV 1-Year Subscription for DFL-800
DFL-860-AV-12	NetDefend AV 1-Year Subscription for DFL-860
DFL-210-IPS-12	NetDefend IPS 1-Year Subscription for DFL-210
DFL-260-IPS-12	NetDefend IPS 1-Year Subscription for DFL-260
DFL-800-IPS-12	NetDefend IPS 1-Year Subscription for DFL-800
DFL-860-IPS-12	NetDefend IPS 1-Year Subscription for DFL-860



DFL-210/260/800/860

Ordering Information

DFL-210-WCF-12 <sup>2</sup>	NetDefend WCF 1-Year Subscription for DFL-210
DFL-260-WCF-12	NetDefend WCF 1-Year Subscription for DFL-260
DFL-800-WCF-12 <sup>2</sup>	NetDefend WCF 1-Year Subscription for DFL-800
DFL-860-WCF-12	NetDefend WCF 1-Year Subscription for DFL-860

<sup>1</sup> Feature available in DFL-800/860 models only.  
<sup>2</sup> Feature available in DFL-210/800 models with firmware 2.26.xx or higher.  
<sup>3</sup> 2-year subscriptions are included with DFL-260/860 models only. DFL-210/800 models require additional license purchases for services after the 90-day trial period expires.  
<sup>4</sup> The maximum firewall plaintext throughput is based on RFC2544 testing methodologies.  
<sup>5</sup> VPN throughput is measured using UDP traffic at 1420 byte packet size adhering to RFC 2544.  
<sup>6</sup> IPS and Anti-Virus performance test based on HTTP protocol with a 1Mb file attachment run on the IXIAIxFload. Testing is done with multiple flows through multiple port pairs.  
<sup>7</sup> 1-Year Limited Warranty available only in the USA and Canada.

All references to speed are for comparison purposes only. Product specifications, size and shape are subject to change without notice, and actual product appearance may differ from that depicted herein.