

High-Performance Integrated Firewalls

For Business Network Security

- Integrated Firewall/VPN Appliance
- Proactive Network Security
- Increase Network Efficiency & Utilization
- Multiple User-Configurable Ethernet/Gigabit Interfaces
- Powerful Firewall & VPN Data Encryption Performance
- Unrestricted User Support

FEATURES

Integrated Functions

- Firewall Protection
- Proactive Security With ZoneDefense Mechanism 5
- Content Filtering/Intrusion Detection
- User Authentication
- Instant Message/P2P Blocking
- Denial of Service (DoS) Protection
- Virtual Private Network (VPN) Security
- Bandwidth Management

Content Filtering

- URL/E-Mail Filtering
- Java Script/Active X/Cookie Filtering
- IM/P2P Program Filtering

Fault Tolerance

- WAN Traffic Fail-Over
- Active/Passive Modes for High Availability ¹

Bandwidth Management

- WAN Traffic Bandwidth Management
- Multi-WAN Interfaces for Traffic Load Sharing/Load
 Balancing
- Policy-Based Routing

Hardware

- Powerful Firewall Engines
- Multiple User-Configurable Ports
- High-Speed Gigabit Interfaces

Setup & Management

- Installation Wizard for Quick Setup
- Easy Web-Based Configuration/Management
- Command Line Interface (CLI)
- Logging and Real-Time Monitoring
- Centralized Management ²

¹ For DFL-1600 and DFL-2500 only ² Used in conjunction with D-Link Central Management Device (DFL-1600 and DFL-2500 only)

³ For DFL-800,DFL-1600 and DFL-2500 only



With businesses becoming increasingly network-dependent, your investment in a reliable network security solution becomes crucial. D-Link NetDefend presents you a series of powerful next-generation business-class network security solutions. NetDefend addresses your growing concerns over network security, hacker attacks, virus threats and increasing privacy demands. Each firewall in this series can offer you a high return on investment through robust security features, flexible configuration and maximum network protection.

D-Link NetDefend firewalls provide you with the assurance of a dedicated network security solution, with integrated functions including firewall, load balance, fault tolerance, ZoneDefense, content filtering, user authentication, instant message and peer-to-peer application blocking, Denial of Service (DoS) protection and Virtual Private Network (VPN) secure remote connection. These devices meet the security and remote access needs of business that demands high performance at competitive prices. Advanced features are integrated and packed into a single housing to provide your network administrators with an all-in-one business-class level security solution.

To minimize any impact of a disaster on an entire network, D-Link NetDefend firewalls include a special feature called ZoneDefense -- a mechanism that operates seamlessly with D-Link LAN switches to perform proactive network security. ZoneDefense automatically quarantines infected computers on the network and prevents them from flooding your network with malicious traffic.

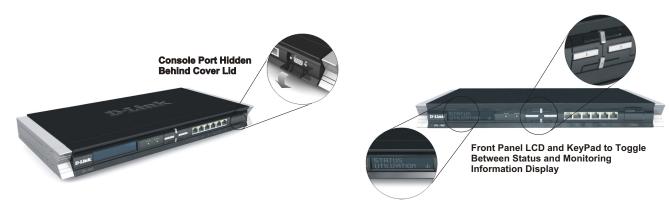
Within an industrial chassis, D-Link NetDefend firewalls pack up an impressive set of hardware that includes high-speed processors, large databases and firewall power to handle up to a million concurrent sessions. These firewalls come with multiple user-configurable interfaces, including high-speed Gigabit ports, for flexible, scalable and bottleneck-free network deployments linking your 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 flexible features to monitor and maintain a healthy and secure network, such as e-mail alerts, system log and real-time statistics. These features, along with the ability for firmware upgrade, ensure that your firewall can provide and maintain maximum performance and security for your network.









4 Distinctive Firewalls

For 4 Different Business Sizes

DFL-210 FOR SOHO

- Firewall Throughput: 80Mbps
- VPN Performance: 25Mbps (3DES/AES)
- 1 Ethernet WAN Port, 4 Ethernet LAN Ports,
 - 1 Ethernet DMZ Port *



DFL-800 FOR SMALL BUSINESS

- Firewall Throughput: 150Mbps
- VPN Performance: 60Mbps (3DES/AES)
- 2 Ethernet WAN Ports, 7 Ethernet LAN Ports,
 1 Ethernet DMZ Port *



DFL-1600 FOR MEDIUM BUSINESS

- Firewall Throughput: 320Mbps
- VPN Performance: 120Mbps (3DES/AES)
- 6 User-Configurable Gigabit Ports



DFL-2500 FOR ENTERPRISE

- Firewall Throughput: 600Mbps
- VPN Performance: 300Mbs (3DES/AES)
- 8 User-Configurable Gigabit Ports



* DMZ port is user-configurable.

Integrated VPN/Firewall Functions

Complete Range of Firewalls for Workgroups & Enterprises

A complete range of firewalls designed to meet different criteria for workgroups' and enterprises' infrastructures, information security needs, total costs of ownership and performance requirements.

Next-Generation User Interfaces

Extreme ease of use and humanized vision embedded in nextgeneration networking products. NetDefend firewalls make extensive use these features to render your configuration and management tasks as simple as a child's play.

High-Speed Gigabit Interfaces

Multiple user-configurable interfaces, including high-speed Gigabit ports, for flexible, scalable and bottleneck-free network deployments linking different small/medium-sized workgroups and enterprises together.

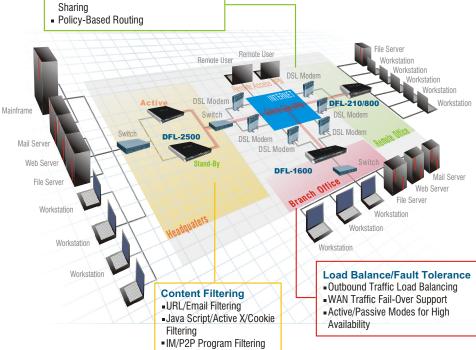
Proactive Network Security

Minimal disaster impact on your entire network. NetDefend firewalls feature a ZoneDefense mechanism that operates seamlessly with your D-Link LAN switches to perform proactive network security. NetDefend firewall can also block IM/P2P programs and filter contents to increase the efficiency and utilization of your network.



Effective Bandwidth Management

- Traffic Bandwidth Management
- Multi-WAN Interfaces for Traffic Load
 Charing







Specification Chart DFL-210 DFL-800 DFL-1600 DFL-2500









Interfaces	Multiple User-Configurable Ports	1 Ethernet WAN Port 1 Ethernet DMZ Port ³ 4 Ethernet LAN Ports	2 Ethernet WAN Ports 1 Ethernet DMZ Port ³ 7 Ethernet LAN Ports	6 User-Configurable Gigabit Ports	8 User-Configurable Gigabit Ports			
	Firewall Throughput	80Mbps	150Mbps	320Mbps	600Mbps			
Custom Doufermon on a 4	VPN Throughput	25Mbps	60Mbps	120Mbps	300Mbps			
System Performance 4	Concurrent Sessions	12,000	25,000	400,000	1,000,000			
	Policies	500	1,000	2,500	4,000			
	PPPoE	√	√	√	√			
	Transparent Mode	√	√	√	√			
Firewall System	NAT, PAT	√	√	√	√ 2005			
	Dynamic Routing Protocol	- √	0SPF	0SPF	OSPF			
	H.323 NAT Traversal		V	√ √	√ √			
	Time-Scheduled Policies Application Layer Gateway (ALG)			v				
	Proactive Network Security	=	ZoneDefense	ZoneDefense	ZoneDefense			
	DUOD Companioni	√	√	√	√			
	DHCP Server/Client DHCP Relay	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		V	V			
Networking	Policy-Based Routing	· ·	, V	·	· ·			
Networking	IEEE 802.1q VLAN	·	· v	·	· /			
	IP Multicast 1	IGMP, IGMP Snooping	IGMP, IGMP Snooping	IGMP, IGMP Snooping	IGMP, IGMP Snoopin			
	Encryption Methods	,	,		,			
	(DES/3DES/AES/Twofish/Blowfish/CAST-128)	√	√	√	√			
Vintual Drivete Natural (VDN)	Dedicated VPN Tunnels	100	300	1,200	2,500			
/irtual Private Network (VPN)	PPTP/L2TP Server	√	√	√	√			
	Hub and Spoke IPSec NAT Traversal	<u>√</u>	√	√	√			
	IPSec IVAT Traversal	√	√	√	√			
	Console Interface	RS-232	RS-232	RS-232	RS-232			
	Web-Based User Interface	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS			
System Management	Command Line/SSH ¹ Firmware Upgrade	√ 		√ ./	√			
ysterri wanagement	Config. Backup/Restore		v	v				
	Trust Host for Remote Management		v	V				
	Central Management System ²	, √	, V	√	, √			
	Built-in Database	√	√	√	√			
	External Database							
User Authentication	• RADIUS	√	√	√	√			
DSEI Authentication	• LDAP 1	√,	√,	√.	√,			
	Microsoft IAS	√	√	√	√			
	XAUTH for IPSec Authentication	√	√	√	√			
	Internal Log	√	√	V	√			
	External Log	Syslog Server	Syslog Server	Syslog Server	Syslog Server			
ogging and Monitoring	Email Notification	√	√	√	√			
ogging and Monitoring	Event Log and Alarm	√	√	√	√			
	SNMP	SNMP v1, v2c	SNMP v1, v2c	SNMP v1, v2c	SNMP v1, v2c			
	Outbound Load Balancing 1	√	√	√	√			
voffic Lood Dolongo	Server Load Balancing		√	√	√			
raffic Load Balance	Load Balance Algorithms Traffic Redirect at Fail-Over	2 Types √	3 Types √	3 Types	3 Types √			
	Traffic neuffect at Faii-Over	,	Y	Y	v			
	Policy-Based Traffic Shaping	√	√	√	√			
Bandwidth Management	Guaranteed Bandwidth	<u>√</u>	√	√	√ 			
Ĭ I	Maximum Bandwidth Priority Bandwidth	√ √	√ √	√ √	√ √			
	-	√ ⁵		•				
	WAN Fail-Over Active/Passive Modes	√	√	√ √	√ √			
High Availability (HA)	Device Failure Detection	-			V √			
	Link Failure Detection	=	-	V	√ √			
	FW/VPN Session Sync.	-	-	, ,	√			
	Automatic Pattern Update	√	V	V	V			
atministra Provincia (IDO)	DoS, DDoS Protection	√ √	√	V	√ √			
ntrusion Prevention (IPS)	Attack Alarm via Email	√	√ √	√	√			
	HTTP Type	URL, Keyword	URL, Keyword	URL, Keyword	URL, Keyword			
Content Filtering	Script Type	Java, Cookie, ActiveX, VB	Java, Cookie, ActiveX, VB	Java, Cookie, ActiveX, VB	Java, Cookie, ActiveX			
	Email Type 1	Black List, Keyword	Black List, Keyword	Black List, Keyword	Black List, Keyword			
M/P2P Blocking	Supported IM/P2P Applications	2 Find MP3	. Aimini, Ares P2P Bit Torrent, Direct Co	onnect, Gnucleus, Gnutella, Ka7aA WinMx	iTunes, IRC.			
W/ Zi Diooking		2 Find MP3, Aimini, Ares P2P, Bit Torrent, Direct Connect, Gnucleus, Gnutella, KaZaA WinMx, iTunes, IRC, MSN Messenger, Skype, Yahoo! Messenger						
	(Based on Mar.29, 2006 Pattern Version)		MSN Messenger, Sk	ype, ranoo! Messenger				

<sup>Available in future firmware upgrade
Used in conjunction with D-Link Central Management Device
J DMZ port is user-configurable
Maximum performance based on RFC 2544 (for firewall).
Actual performance may vary depending on network conditions and activated services
Available when DMZ port is configured as WAN port</sup>





Software Features

Firewall System

- Proprietary firewall system kernel, providing more security than open source-based firewalls
- Stateful Packet Inspection
- ZoneDefense with seamless integration with D-Link LAN switches 3
- Content filtering and Intrusion Detection
- Time-scheduled policy-based routing and bandwidth management

Virtual Private Network (VPN)

- DES/3DES/AES/Twofish/Blowfish/CAST-128 encryption
- IKE v.2 and X.509 v.3 authentication
- VPN keep alive/Hub and Spoke

Routing and IP Assignment

- IP alias
- DHCP Server/Client/Relay/over IPSec
- OSPF dynamic routing protocol
- HTTP, FTP, SMTP, H.323, SIP⁵ Application Layer Gateway
- IEEE 802.1g tag-based VLAN

User Authentication

- Local database, external database with RADIUS/LDAP/Microsoft IAS
- Run-time user authentication
- Multiple authentication servers' simultaneous operation
- IP and MAC address binding

Bandwidth Management

- Guaranteed/Maximum/Priority bandwidth control
- Outbound traffic load balancing
- Policy-based bandwidth management

Traffic/Device Fault Tolerance

- WAN interface fail-over
- Active/passive modes for High Availability ¹

Logging and Reporting

- Device management via HTTP, HTTPS and SSH 5
- SNMP v.1. v.2c and SNMP traps
- Real-time system monitoring and event log/alert
- Built-in LCM module for sample configuration
- Supports Central Management System
- Available on DFL-1600 and DFL-2500 only
 Used in conjunction with D-Link Central Management Device
 Available on DFL-800, DFL-1600 and DFL-2500
- Available on DFL-210 when DMZ port is configured as WAN port
- Available in future firmware upgrade

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DFL-210

DFL-800

DFL-1600

DFL-2500









	1.0	T. C.		-			
Power Input	External Power Adapter	External Power Adapter	Internal Universal Power Supply	Internal Universal Power Supply			
Dimensions	235 x 162 x 36 mm Desktop Size	280 x 214 x 44 mm Desktop Size	440 x 254 x 44 mm 19-inch Standard Rack-Mount Width, 1U Height	440 x 454 x 44 mm 19-inch Standard Rack-Mount Width, 1U Height			
Operating Temperature	0° to 40°C						
Storage Temperature	-20° to 70°C						
Operating Humidity	5% to 95% non-condensing						
EMI	FCC Class A CE Class A C-Tick	FCC Class B CE Class B C-Tick	FCC Class A CE Class A C-Tick	FCC Class A CE Class A C-Tick			
Safety	TUV UL LVD (EN60950)	TUV UL LVD (EN60950)	UL LVD (EN60950)	UL LVD (EN60950)			









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