

Product Highlights

Comprehensive UTM Firewall Solution

Provides a versatile, integrated firewall solution to secure you network, with anti-spam, anti-virus, web content filtering, and application control features

ZoneDefense End-to-End Security (E2ES)

D-Link's proactive ZoneDefense End-to-End Security platform quarantines compromised workstations on the network and prevents malicious traffic flooding

Complete VPN Feature

With support for a wide range of security protocols, secure remote communication is easily configured and maintained in virtually any environment



DFL-870 NetDefend UTM Firewall

Features

Integrated Firewall

- Multiple WAN ports for WAN failover and outbound load balancing
- · Link aggregation on LAN ports
- IEEE 802.1Q VLAN
- Granular bandwidth management
- D-Link pro-active ZoneDefensetm End-to-End Security (E2ES) solution

Unified Threat Management (UTM)

- Intrusion Detection & Prevention System (IDPS)
- Anti-virus protection
- Web Content Filtering (WCF) in HTTP/HTTPS
- Application control
- Email security

Virtual Private Network (VPN)

- Supports IPSec, PPTP, L2TP, GRE protocols
- Redundant VPN gateway
- Hub-and-spoke VPN support

Advanced Functions

- User authentication through:
- Captive portal
- User Identity Awareness
- · Active/passive High Availability (HA)

The D-Link DFL-870 NetDefend UTM Firewall is a next generation Unified Threat Management (UTM) firewall which provides a powerful security solution to protect business networks from a wide range of threats. The DFL-870 offers a comprehensive defense against virus attacks, unauthorized intrusions, and flooding of harmful traffic, for successfully managing, monitoring, and maintaining a healthy network.

Enterprise-Class Security and Performance

The DFL-870 provides a complete set of advanced security features to secure, manage, and monitor your network. These features include remote management, bandwidth control policies, URL blacklists and whitelists, access policies, and SNMP support. The DFL-870 furthermore supports email alerts, system logging, consistency checking, and real-time statistics gathering that keeps you up-to-date on the status of the network. Additionally, multiple WAN ports support traffic load balancing and failover, thus guaranteeing Internet availability and bandwidth.

Unified Threat Management

The D-Link DFL-870 integrates an intrusion detection and prevention system, gateway antivirus, content filtering, and application control for superior Layer 7 content inspection. An acceleration engine increases throughput, while the real-time update service keeps the IDPS information, anti-virus signature, URL and application databases current. Combined, these enhancements help to protect office networks from application exploits, network worms, malicious code attacks, and provide everything a business needs to safely manage employee Internet access. D-Link offers optional, cost-efficient, per-device NetDefend Firewall UTM Service subscriptions that ensure that each of the firewall's service databases remain current¹.



Robust Intrusion Prevention

The DFL-870 employs component-based signatures, a unique Intrusion Detection and Prevention System (IDPS) technology which recognizes and protects against all varieties of known and unknown attacks. This can address all critical aspects of an attack or potential attack including payload, NOP sled, infection, and exploits. In terms of signature coverage, the IDPS 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. The DFL-870 constantly creates and optimizes NetDefend signatures via the D-Link Auto-Signature Sensor System without overloading existing security appliances. These signatures ensure high detection accuracy and a minimal amount of false positives. Automatic updates from a comprehensive IDPS signature database focus on attack payloads to protect the network against zero-day attacks.

Web Content Filtering

Web Content Filtering (WCF) helps administrators monitor, manage, and control employee Internet usage. The DFL-870 implements multiple global index servers with millions of URLs and real-time website data to enhance performance capacity and maximize service availability. The firewall uses granular policies and explicit blacklists and whitelists to control access to certain types of websites for any combination of users, interfaces, and IP networks. The firewall can actively handle Internet content in both regular HTTP and secured HTTPS connections by stripping potential malicious objects, such as Java, JavaScript, and VBScript applets, ActiveX objects, and cookies. Integration of SafeSearch Enforcement² also ensures that results from search engine providers are provided without malicious content.

Application Control

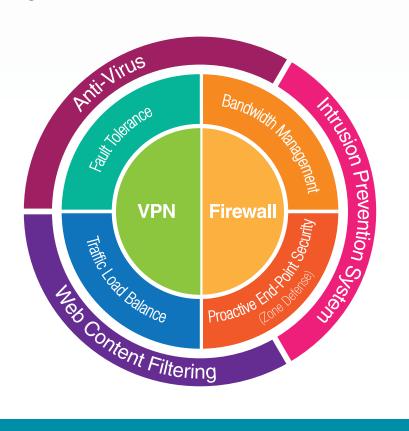
Application control enhances security by only allowing certain types of network traffic for predefined applications. The DFL-870 uses application control to help accurately shape network traffic by either giving priority or applying control policies to effectively manage network utilization. Using packet inspection and a database of application signatures based on the application's network usage patterns, the DFL-870 gives complete control over the content that is delivered to end users.

Powerful VPN Performance

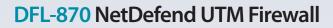
The DFL-870 NetDefend UTM Firewall offers an integrated VPN client and server which support IPSec, PPTP and L2TP protocols. This allows remote offices to securely connect to a head office or a trusted partner network. With hardware-based VPN engines, it supports and manages a large number of VPN configurations. It supports IPSec, PPTP and L2TP protocols in client/ server mode and can handle pass-through traffic as well.

Stream-based Virus Scanning

The DFL-870's stream-based virus scanning examines files of any size while eliminating the need to cache incoming files first. This zero-cache scanning method not only increases inspection performance, but also reduces network bottlenecks. Kaspersky Labs virus signatures to provide reliable and accurate anti-virus and malware protection, as well as prompt signature updates.

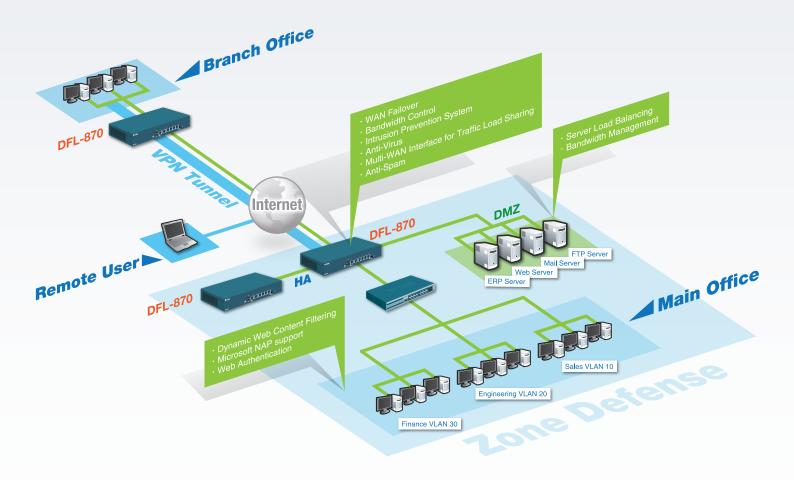


Segmented Overview of the DFL-870's Dedicated Features





Secure Enterprise Network Implementation Using the DFL-870





Technical Specifications

Interface				
Ports	 6 x configurable 10/100/1000BASE-T port: 2 x USB 2.0 ports (reserved for future use) 			
Performance ³				
Firewall Throughput ⁴	• 4 Gbps			
VPN Throughput ⁵	• 1 Gbps			
IPS Throughput ⁶	• 450 Mbps			
Anti-virus Throughput ⁶	• 600 Mbps			
Application Control Throughput ⁶	• 700 Mbps			
Concurrent Sessions	• 500,000			
New Sessions per Second	• 45,000			
Supported Number of Policies	• 2,000			
Physical				
Power Supply	• 100 ~ 240 V AC, internal AC power supply	• 100 ~ 240 V AC, internal AC power supply		
Maximum Power Consumption	• 20 W	• 20 W		
Dimensions (W x D x H)	• 278 x 183 x 44 mm (10.95 x 7.20 x 1.73 in	• 278 x 183 x 44 mm (10.95 x 7.20 x 1.73 inch)		
Weight	• 1.7 kg (3.75 lbs)			
Temperature	• Operating: 5 to 35 °C	• Storage: -20 to 70 °C		
Operating Humidity	• 0% to 95% RH, non-condensing	• 0% to 95% RH, non-condensing		
MTFB	• 374,681 hours	• 374,681 hours		
EMI	FCC Class A VCCI	• CE Class A		
Safety	• LVD (EN60950-1)			



Software			
Firewall System	 NAT/PAT Dynamic Routing Protocol OSFPv2 Application layer gateway HTTP FTP H.323 POP3 SMTP SIP TFTP 	 Transparent mode H.323 NAT Traversal Time-scheduled policies ZoneDefend proactive endpoint security User Authentication Local user database RADIUS Microsoft AD LDAP 	
Networking	 DHCP server/client DHCP relay IGMPv3 IP multicasting IPv6 support 	 Policy-based Routing IEEE 802.1Q VLAN Link aggregation 	
Traffic Load Balancing	Outbound load balancing Failover traffic redirection	Server load balancing	
Bandwidth Management	 Guaranteed bandwidth Priority bandwidth Time-scheduled traffic shaping Dynamic bandwidth balancing 	 Maximum bandwidth Policy-based traffic shaping VPN tunnel bandwidth management IDP traffic shaping 	
High Availability (HA)	 WAN failover Device failure detection FW/VPN session synchronisation 	Active/passive modeLink failure detection	
Virtual Private Network (VPN)	 200 tunnels Encryption methods: DES 3DES AES Blowfish Twofish CAST-128 	 IKE/IKEv2 Redundant IPSec VPN gateway Hub-and-spoke IPSec NAT traversal Dead Peer Detection (DPD) PPTP/L2TP server/client GRE L2TP over IPSec 	
Intrusion Detection & Prevention System (IDPS)	 12, 24, 36 months service subscription Automatic pattern updating DoS/DDoS attack protection 	 Email-based intrusion notification IP blacklisting based on threshold or IDP/IPS Advanced IDP/IPS subscription 	
Content Filtering	 12, 24, 36 months service subscription Web URL blacklisting/whitelisting: HTTP HTTPS Customize forbidden web page Maximum file size protection SafeSearch Enforcement² 	 Filtering based on script types: Java applets JavaScript VBScript Cookies ActiveX 	
Anti-Virus	 Real-time scanning Virus scanning for protocols: HTTP FTP SMTP POP3 IMAP 	 Stream-based scanning Anti-virus over VPN ZIP/GZIP compressed file scanning up to 10 levels Signature licensing Kaspersky 	
Application Control	 12, 24, 36 months service subscription Supports 1,000+ recognized applications Schedule and rule-based control 	 Application bandwidth management, policy control, and prioritization 	
Email Security	 Supported protocols: SMTP POP3 IMAP File type whitelisting/blacklisting 	 Email address filtering Sender/receiver blacklist Exempt list File extension and MIME type verification Anti-spam 	

DFL-870 NetDefend UTM Firewall

System Management	 Install Wizard Command line interface (CLI) SNMP (v1/v2c) Email notifications 	 Web-based user interface (HTTP/HTTPS) Secure Shell (SSH) Syslog Real-time performance monitoring 		
Ordering Information				
Part Number	Description			
DFL-870	NetDefend UTM Firewall			

Service subscription options may vary depending on the region.
 The SafeSearch Enforcement only supports Google, Bing, and Yahoo search engines.
 Actual performance may very depending on network conditions and services activated on the firewall.
 Firewall throughput was measured using UDP traffic with a 1,518 bytes packet size, conforming with RFC2544.
 VPN Throughput was measured using UDP traffic with a 1,420 bytes packet size, conforming with RFC2544.
 IPS and anti-virus performance is based on FTP protocol with a 1 GB file attachment run on IXIA IxLoad. Testing was done with multiple flows through multiple port pairs.

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