UNIFIED THREAT MANAGEMENT
- Intrusion Prevention System (IPS)
- Anti-Virus (AV) Protection
- Dynamic Web Content Filtering (WCF)
- 12 Months of Free Updates

ROBUST THROUGHPUT*
- 70 Mbps Firewall
- 25 Mbps VPN
- 15 Mbps IPS/Antivirus

HIGH CAPACITY
- 6,000 Current Sessions
- 300 Policies

RELIABLE FIREWALL
- Powerful Web User Interface
- Port Address Translation (PAT)
- Network Address Translation (NAT)
- Layer 3: Route Mode, NAT Mode
- Layer 2: Transparent Mode

VIRTUAL PRIVATE NETWORK (VPN)
- Hardware VPN Acceleration
- IPSec NAT Traversal
- IPSec, PPTP, L2TP
- DES, 3DES, AES, Twofish, Blowfish, CAST-128 Encryption Automated Key Management via IKE/ISAKMP

PORTS
- 4 Gigabit Ethernet LAN
- 1 Ethernet WAN
- 1 Gigabit Ethernet DMZ
- 1 USB
- 1 COM

* Performance based on RFC 2544

NetDefend™ SOHO UTM Firewall

Today's continuously shifting security environment presents a challenge for small/home office networks with limited IT capabilities. Fortunately, the DFL-160 NetDefend™ SOHO Unified Threat Management (UTM) Firewall provides a comprehensive defense against virus attacks, unauthorized intrusions, and harmful content. These UTM features enhance fundamental firewall capabilities for managing, monitoring, and maintaining a healthy network.

User-Friendly Design
A user-friendly web interface assists with initial setup and simplifies the configuration of complex security settings. The DFL-160's compact and unobtrusive desktop chassis is easily incorporated into an existing network.

Gigabit Interface for Maximum Throughput
A Gigabit Ethernet interface ensures high-speed performance and facilitates interoperability with existing network hardware. The DFL-160 can carry out IPS and Anti-Virus scanning functions simultaneously without degrading firewall and VPN performance. The firewall is able to perform with a much higher throughput than comparable antivirus-capable UTM firewalls.

Unified Threat Management
Unified Threat Management (UTM) features provide a reliable defense against a diverse assortment of Internet threats. The DFL-160 maintains separate databases for Intrusion Prevention, Anti-Virus, and Web Content Filtering. D-Link's NetDefend™ SOHO UTM subscription service ensures that these three databases remain consistent, accurate, and up-to-date.

Virus Scanning
Updates from respected partner Kaspersky Labs™ provide the DFL-160 with prompt and reliable antivirus signatures. Viruses and malware can be effectively blocked before they reach workstations on the network.
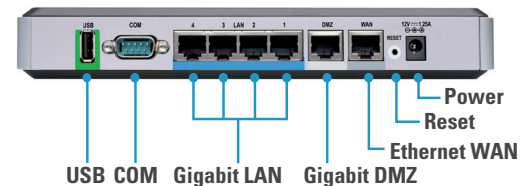
Intrusion Detection and Prevention
An IPS database includes security information from a global sensor-grid as well as exploit data for zero-day attack prevention. The DFL-160 delivers high quality IPS signatures by constantly creating and optimizing NetDefend™ SOHO signatures via the D-Link Auto-Signature Sensor System. Without overloading existing security appliances, these signatures ensure a high ratio of detection accuracy and the lowest ratio of false positives.

Dynamic Web Content Filtering
Web Content Filtering allows administrators to monitor, manage, and control the material that enters the network. The DFL-160 makes use of multiple global index servers with millions of URLs and real-time information. Using policies and explicit black/white lists, administrators can allow or disallow access to specified websites.
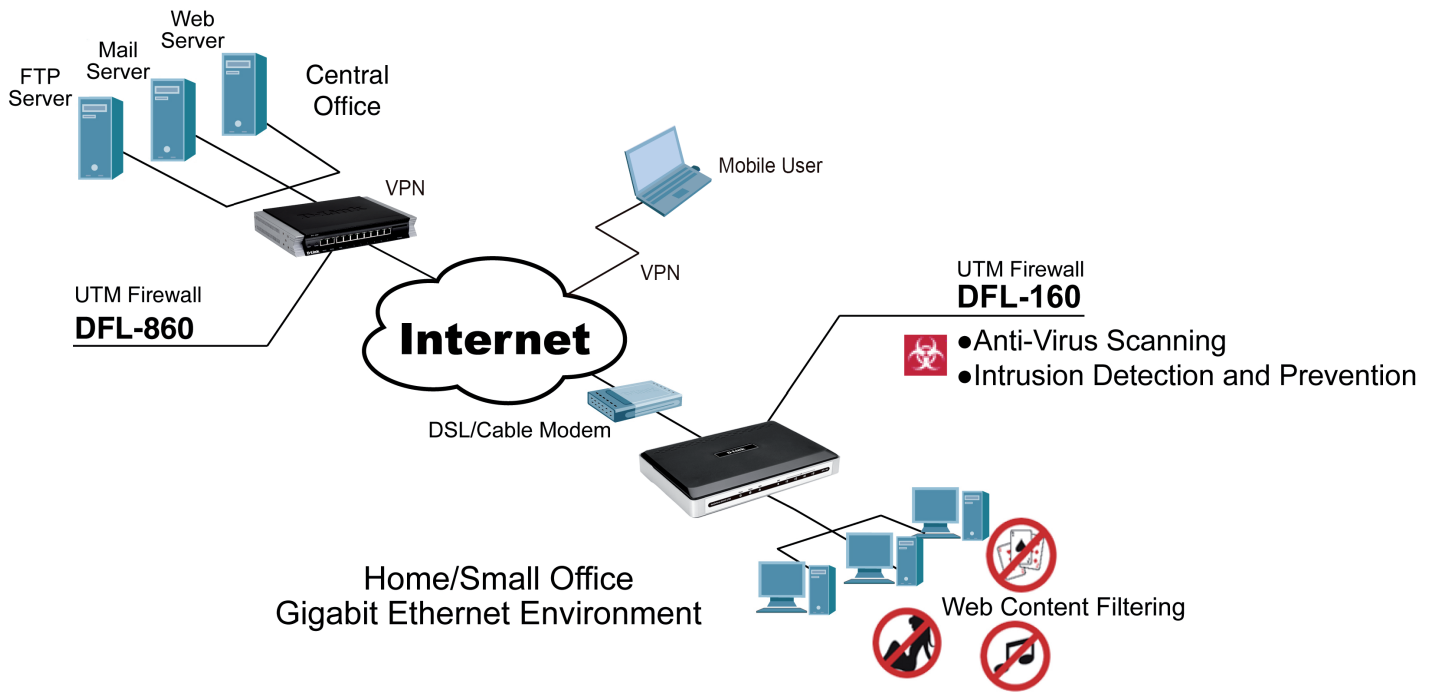
Rear Panel Connections

USB COM Gigabit LAN Gigabit DMZ

Power
Reset
Ethernet WAN

NetDefend™ SOHO UTM Firewall

NetDefend SOHO UTM Firewall

Security Integration	Next Generation Platform	Network Management	UTM Security Service
Intrusion Prevention Gateway Anti-Virus Web Content Filtering Stateful Packet Inspection	Gigabit Interface High Performance User-Friendly GUI Compact Housing	Access Control Port Forwarding IPSec NAT Traversal PPTP/L2TP/IPSec VPN	Automatic Updates Up-to-Date Signatures Extensive Signature Database Affordable Service Cost

Comprehensive Services in NetDefend™ Center http://security.dlink.com.tw

VPN and Network Security Implementation Using NetDefend™ SOHO UTM Firewall

Web Server
Mail Server
FTP Server
Central Office

VPN

Mobile User

UTM Firewall
DFL-860

UTM Firewall
DFL-160
●Anti-Virus Scanning
●Intrusion Detection and Prevention

VPN

Internet

DSL/Cable Modem

Home/Small Office
Gigabit Ethernet Environment

Web Content Filtering

NetDefend™ SOHO UTM Firewall

Technical Specifications

Hardware	CPU: Intel IXP435 @ 400 MHz	Flash: 128 MB
	DRAM: 128 MB	VPN Accelerator

Ports	4 x Ethernet LAN (10/100/1000)	1 x DB-9 RS-232 Console Port
	1 x Ethernet WAN (10/100)	1 x USB 2.0
	1 x Ethernet DMZ (10/100/1000)	

Performance and Capacity*	Firewall Performance: 70 Mbps	Current Session: 6,000
	3DES/AES Performance: 25 Mbps	Policies: 300
	IDP/Antivirus Performance: 15 Mbps	Supported Users: Unrestricted

Firewall Mode of Operation	Layer 3 mode: Route Mode, NAT Mode	Port Address Translation (PAT)
	Layer 2 mode: Transparent Mode	Port Forwarding
	Network Address Translation (NAT)	Time-Scheduled Policies Configuration

Virtual Private Network (VPN)	IPSec Protocol: ESP	Site to Site VPN, Remote Access VPN for IPSec
	IPSec Mode: Tunnel Mode, Transport Mode	Up to 30 Dedicated VPN Tunnels
	Encryption Method: DES/3DES/AES/Twofish/Blowfish/CAST-128/NULL	IKE Mode: Main Mode
	Authentication Algorithm: MD5, SHA-1	Key Management: Pre-share Key
	Support PPTP/L2TP/IPSec VPN Server	IPSec NAT Traversal (NAT-T)
	PPTP Server Supports MPPE Encryption	Prevents Replay Attack
	XAUTH Authentication Support	

IP Assignment & Routing	Static IP Address	Internal DHCP Server
	PPPoE for xDSL, PPTP Client for xDSL, DHCP Client for WAN interface	

Networking	IP Multicast: IGMP v3 Routing and Forwarding (Compatible with v1 and v2)	Supports ALG (Application Layer Gateway) HTTP, FTP, POP3, SMTP, TFTP
	DDNS Client: D-Link DDNS, DynDNS.org.	

System Management	Web UI Interface	Supports D-Link NTP Server
	SNTP and UDP Time Synchronization	

User and Device Administration	Multi-level User Permission Control (Administrator and Read-Only)	Software Upgrade, Configuration Backup/Restore from Web UI

User Authentication	Built-in User Database: 250 Users	

Logging and Monitoring	Internal Log Capacity: 500 Records	Supports 2 Log Receivers
	Log Viewer	VPN Tunnel Monitor
	Email Notification for IDP Log	Separate Internal Logging for IDP, AV, WCF
	Supports External Syslog Server	

* Performance based on RFC 2544

NetDefend™ SOHO UTM Firewall

Bandwidth Management	Guaranteed Bandwidth	Priority-Bandwidth Utilization
	Maximum Bandwidth	

Intrusion Detection and Prevention System (IDP)	NIDS Pattern Auto Update	Detects Nimda and CodeRed Attacks
	DoS, DDoS Attack Protection	Attack Alarm Via Email Notification

Anti-Virus Packet Inspection	Supported Protocol: HTTP, FTP, SMTP, POP3	Supported Compression File Formats: ZIP, GZIP
	Anti-Virus over VPN	Decompression Explosion Protection
	Protocol/Port Configurable	Scan Exclusion Control
	Scanning of all MIME Types	

Dynamic Web Content Filtering	HTTP Web URL Filter	Over 30 Web Content Categories

E-mail Security**	Supported Protocol: SMTP	Anti-Spam
	Sender/Recipient Email Address Blacklist/Exempt List Filtering	Real-Time DNSBL/Open Relay Database Server
	MIME Header Check for File Extensions Filtering	Weight-based DNS Blacklist
	Email Rate Protection	Customized Spam Tag Information in Email Subject
	Email Size Protection	Forward Blocked Emails

LEDs	Power, Status, WAN, DMZ	4 x LAN (Link/Action/Speed)

Operating Temperature	0º to 50º C	

Operating Humidity	5% to 95% (Non-condensing)	

Power Consumption	< 20 W	

Dimensions (L x W x H)	220 x 150 x 32.5 mm	

Weight	480 g	

** Functions available via future firmware upgrade

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