



DFL-500

Firewall in a desktop box with complete virus scanning, intruder detection and remote VPN access functions for SOHO networks.

Network Secure VPN Firewall for SOHO

The DFL-500 is a cost-effective firewall that provides comprehensive network protection, performance and easy installation. A hardware device that is much easier to install and more effective than software-based firewalls, the DFL-500 offers an ideal protection for a residence or SOHO with plug-and-play connection, complete security against outside intruders, Virtual Private Network (VPN) support through data encryption and authentication, and easy administration.

Complete Security

Your office is connected to the outside world through the Internet. It is easy for hackers to analyse your databases to steal or destroy data. The DFL-500 provides a wide range of protection against outside attacks, plus comprehensive security that includes user authentication, scheduled policies and Virtual Server Mapping. The DFL-500 provides NAT translation of IP addresses from the internal private network to the public IP network.

Content Filtering & Virus Scanning

The DFL-500 provides filtering of potentially malicious codes embedded in web pages, can remove Active objects, Java, JavaScript and other potential threats. It provides virus scanning for all incoming and outgoing email and attachments, plus virus checking for Web plug-ins and downloaded Web content.

Easy Installation

All you need to do is connect the network cables. To the outside world, you connect an RJ-45 plug to your DSL/cable modem, Internet gateway or router. To your office, you plug in another RJ-45 jack to your network switch or hub. The DFL-500 provides CPU, system memory and embedded software, all ready to run.

Access Control

Administration access can be controlled so that the DFL-500 can be administered from the protected internal network or

the external public Internet. The DFL-500 supports an internal database for authenticating user access to various services. It maps public IP addresses to information servers on the internal network to allow public access. It also prevents access to particular web sites, using powerful pattern matching to block access to URLs or keywords.

Scheduled Policies

Firewall policies may be scheduled for different times of the day/week/month and for one time use or recurring.

Remote Access VPN

The DFL-500 supports VPN functions including PPTP, L2TP, IPSec, ESP security in tunnel mode, LAN-to-LAN and mobile remote access.

Hardware Acceleration

The DFL-500 uses a special design ASIC to perform VPN encryption and decryption. It off-loads CPU loading through hardware-based acceleration.

Management

The DFL-500 supports web-based management using a secure SSL connection from a remote terminal either on the internal network or even from an external remote site. The DFL-500 can also be administered on-site using its RS-232 serial connection.

Key Features

- Easy to install with Quick Installation Wizards
- Web-based management and software updated via browser
- Firewall operation mode supports NAT/PAT or transparent mode
- Supports content filtering by key word checking
- Triple-DES data encryption
- Anti-virus scanning

DFL-500

Technical Specifications

Hardware Specifications

Processor
133MHz

System Memory
On board 64MB

Flash Memory
32MB CompactFlash Card

Network Interface
2 10/100Mbps ports (1 Internal & 1 External)

LED Indicators
- Power
- Status
- Interface link and activity

Software Specifications

Security Feature:

- **Firewall:** Stateful Packet Inspection (SPI) to Prevent Denial of Service (DoS) attacks (Syn flood, ICMP flood, UDP flood, "ping of death", IP spoofing, land attack, tear drop attack, IP address sweep attack, Win Nuke attack), Intrusion Detection System (IDS) including logging, reporting and e-mail alerts, address, service and protocol, Web URL content filtering.
- **VPN Functionality:** Twenty dedicated VPN tunnels, Manual key and IKE Security Association (SA) assignment, 56-bit (DES) or 168-bit (3DES) IPsec encryption algorithm, MD5 or SHA-1 authentication algorithm, pre-shared key, perfect forward secrecy (Diffie-Helman and Oakley client support), key life and IKE lifetime time settings, prevent replay attack, remote access VPN (client-to-Site), site-to-site VPN.
- **Mode of Operation:** Network Address Translation (NAT), static routing, unrestricted users per port.

Protocol Support:

- **Network:** IP routing, TCP/IP, UDP, ICMP, PPPoE
- **IP addressing:** DHCP (client and server)
- **Routing:** RIP v1, RIP v2 (Static Routing, Dynamic Routing)
- **VPN/Security:** IPsec (ESP), MD5, SHA-1, DES, 3DES, IKE, PPTP, L2TP

RFC Support:

- PPTP client and server (RFC 2637)
- IPsec tunnel mode (RFC 2401)
- HMAC-MD5-96 (RFC 2403)
- HMAC-SHA1-96 (RFC 2404)
- Encapsulation Security Payload Protocol (RFC 2406)
- DHCP server (RFC 2131)
- DHCP client (RFC 2131)
- TFTP client (RFC 1350)
- IP routing (RIP1, RIP2) (RFC 2453)
- NAT (many-to-one) (RFC 1631)
- PPPoE (RFC 2516)

Services

- ftp
- http
- NAT

Authentication

- HMAC MD5 or HMAC SHA-1 authentication/data integrity

Key Exchange

- Automatic IKE based on Pre-Shared Key

Attack Protection Provided

- IP Source Routing
- IP Spoofing
- SYN flood attack
- ICMP flood
- UDP flood
- Land attack
- Address sweep attack
- Tear drop attack
- Win nuke attack
- Port Scan attack
- Ping of Death

VPN Firewall for SOHO

Dedicated VPN Tunnels
20

Concurrent Sessions
3,000

Physical & Environmental

Power Input
100 - 240V auto-voltage external AC power adapter

Power Consumption
36 Watts max

Dimensions
215 x 163 x 45 mm (8.46 x 6.4 x 1.77 inches)

Operating Temperature
0°C ~ 45°C

Storage Temperature
0°C ~ 60°C

Humidity
5% ~ 95%, non-condensing

EMI Certification

- FCC Class B
- CE Class B
- BSMI Class B
- C-Tick

Safety

- UL
- TUV

Disclaimer

Customers are advised to install separate personal anti-virus software on individual machines to avoid other sources of virus infections (for example, including but not limited to, virus-infected file via portable media). D-Link will not be held responsible and it is the customer's own responsibility for any loss of data and/or whatsoever consequences arising from the use of this software.



Ordering Information

Firewall With VPN Support
DFL-500 2 10/100Mbps ports

For country-specific external AC power adapter, please specify one of the following after the model number:

- /U Includes no AC power adapter
- /A Includes an American standard AC power adapter
- /E Includes an EU standard AC power adapter
- /B Includes a U.K. standard AC power adapter
- /N Includes an Australian standard AC power adapter
- /CN Includes an Australian standard AC power adapter

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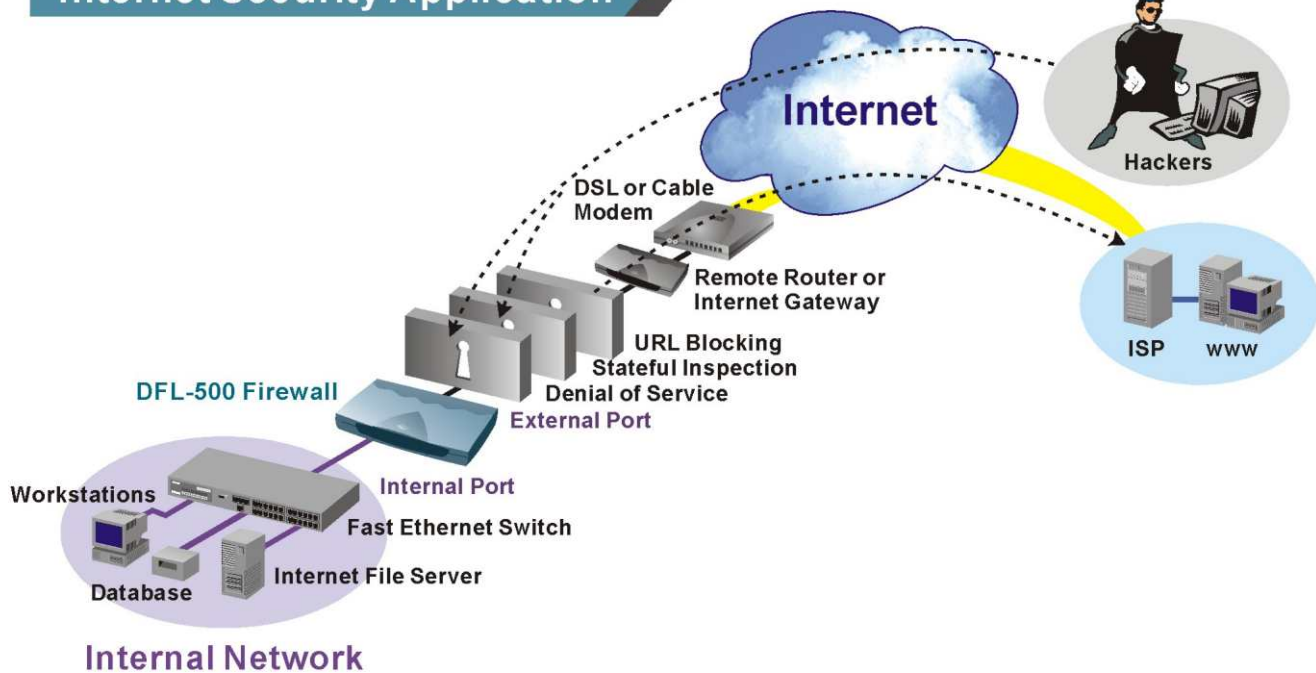
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Internet Security Application



Virtual Private Network

