



# FVS328

## ProSafe VPN Firewall with Dial Back-up

### 50 VPN Tunnels for Encrypted Remote Access

- *Help is there when you need it! NETGEAR provides 24x7 telephone and e-mail technical support in English, with selected local language support during office hours.*

NETGEAR's ProSafe™ VPN Firewall with Dial Back-up is a low cost, high-performance network solution that furnishes multidimensional security. Fully equipped and broadband-capable, this Virtual Private Network (VPN) firewall comes with connection insurance: a built-in serial port for dial-up access. This practical feature means your business can maintain operation if your broadband Internet connection fails. It lets you retain an analog or ISDN modem for emergency backup and also provides a migration path from analog and ISDN to broadband, making the transition effortless.

High on security, this true firewall provides Denial of Service (DoS) protection and Intrusion Detection using Stateful Packet Inspection (SPI), URL access and content filtering, logging, reporting, and real-time alerts. It supports up to 50 IPsec VPN tunnels simultaneously using Public Key Infrastructure (PKI), reducing your operating costs and improving the security of your network. With 8 auto-sensing, Auto Uplink™ switched LAN ports and Network Address Translation (NAT) routing, up to 253 users can access your broadband connection at the same time.

**Surefire** • Built-in serial port provides a backup connection for an external ISDN or analog modem – no downtime if your broadband connection fails. Alternatively, the serial port can provide a dial-in or LAN-to-LAN function.

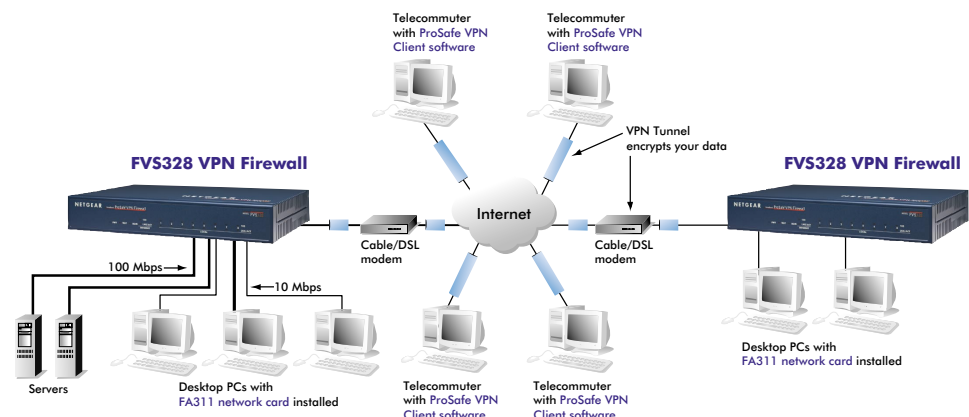
**Business-Class Secure** • Supports up to 50 IPsec VPN tunnels simultaneously, allowing for secured connections to branch offices and your “on-the-go” mobile workforce. Network Address Translation (NAT) routing enables shared access to your broadband connection. Additionally, in NAT-off mode, classical routing allows for customized network configuration. Includes Web page URL keyword filtering, 168-bit 3DES IPsec encryption capability and secure Public Key Infrastructure (PKI) support. Sends you e-mail notification of network activity – reporting and tracking of hacker attempts – as well as real-time alerts. A high-powered 150 MHz CPU ensures speedy data traffic, and VPN throughput.

**Thoroughly Protected** • Takes care of all your security needs, with True Firewall using Stateful Packet Inspection (SPI), Denial of Service (DoS) attack protection, and VPN pass-through for extra security. SYSLOG and reporting enable thorough network monitoring. IKE authentication provides peace of mind against unauthorized VPN network access. The ProSafe VPN Firewall with Dial Back-up provides optimal value and defense against network security threats.

**Easy to Use** • Smart Wizard connects to your ISP quickly; the user-friendly Web-based configuration screen and install assistant reduce setup time. Secure remote administration via Secure Socket Layer (SSL) makes it simple to connect to multiple sites. This well-built firewall has an integrated 8-port 10/100 Mbps switch and is compatible with Windows®, UNIX®, Macintosh®, and Linux® O/S. It comes with an Ethernet cable (up to \$15 in value), and Auto Uplink™ on the LAN ports eliminates the need for crossover cables.

**Flexible & Durable** • Make a VPN connection to other VPN devices or connect through NETGEAR's ProSafe VPN Client software, sold separately in single and five-user licenses- supports popular Microsoft® Windows® platforms and is easy to configure, cost-effective and provides broad security support. Support for DHCP (client and server) as well as PPPoE allows for easy, widespread deployment. The rugged metal unit houses advanced, high-quality electronics, and NETGEAR's tested and proven technology is backed by a 3-year warranty.

### Typical Network Setup



## Package Contents

- FVS328 ProSafe VPN Firewall with Dial Back-up
- Power adapter
- 10ft Ethernet cable
- Installation guide
- Warranty/Support Information card

## Related Products

- FVS318 ProSafe VPN Firewall (8 VPN tunnels)
- FVL328 ProSafe VPN Firewall (100 VPN tunnels)
- WG302 ProSafe 802.11g Access Point
- FWG114P ProSafe 802.11g Wireless Firewall with USB Print Server
- FWAG114 ProSafe 802.11a/g Wireless VPN Firewall
- VPN01L and VPN05L VPN ProSafe VPN Client Software
- FA311 10/100 PCI Adapter
- GA311 10/100/1000 PCI Adapter
- FA511 10/100 32-bit CardBus Adapter
- FA120 USB 2.0 Fast Ethernet Adapter



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\* Free basic installation support provided for 90 days from date of purchase; optional premium support available.

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## Technical Specifications

### • Physical Interfaces:

- **LAN ports:** Eight (8) 10/100 Mbps auto-sensing, Auto Uplink™ RJ-45 ports (one Cat 5 UTP cable included)
- **WAN ports:**
  - 10/100BASE-T Ethernet RJ-45 port to connect to any broadband modem, such as DSL or cable
  - RS-232 serial port with DB-9 connector for an external analog or ISDN modem

### • Security Features:

- **Firewall:** Stateful Packet Inspection (SPI) to prevent notorious Denial of Service (DoS) attacks, Intrusion Detection System (IDS) including logging, reporting and e-mail alerts, Web URL keyword filtering
- **VPN Functionality:** Fifty (50) dedicated VPN tunnels, Manual key and Internet Key Exchange (IKE) Security Association (SA) assignment with pre-shared key and RSA/DSA signatures, key life and IKE lifetime time settings, perfect forward secrecy (Diffie-Hellman groups 1 and 2 and Oakley support), operating modes (Main, Aggressive, Quick)
- **Mode of Operation:** Network Address Translation (NAT), static routing, unrestricted users per port, NAT-off classical routing
- **IP Address Assignment:** Static IP address assignment, internal DHCP server on LAN, DHCP client on WAN, PPPoE client support

### • Performance Features:

- **Throughput:** 50+ Mbps WAN-to-LAN throughput, 20 Mbps 3DES (168 bit) VPN tunnel

### • Management Features:

- **Administration Interface:** Web graphic user interface, user name and password protected; Smart Wizard and Auto Detect for basic parameter settings; remote management support authenticated through IP address or IP address range, and password
- **Configuration and Upgrades:** Upload and download configuration settings, firmware upgradeable flash memory and DRAM
- **Logging:** SYSLOG, e-mail alerts

### • 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, AH), MD5, SHA-1, DES, 3DES, IKE, PKI

### • User Support:

- **LAN:** Up to 253 users

### • Modem Support:

Most popular broadband, ISDN and analog modems. See the technical support section at [www.netgear.com](http://www.netgear.com) for compatible ISDN and analog modems.

### • RFC Support:

- PPTP client and server (RFC 2637)
- IPSec tunnel mode (RFC 2401)
- Authentication Header Protocol (RFC 2402)
- HMAC-MD5-96 (RFC 2403)
- HMAC-SHA1-96 (RFC 2404)
- DES-CBC Cipher algorithm Encapsulation Security Payload Protocol (RFC 2406)
- Domain of Interpretation (RFC 2407)
- Internet Security Association and Key Management Protocol (ISAKMP) (RFC 2408)
- Oakley (RFC 2412)
- DHCP server (RFC 2131)
- DHCP client (RFC 2131)
- IP routing (RIP1, RIP2) (RFC 2453)
- NAT (many-to-one) (RFC 1631)
- Compression Control Protocol (RFC 1974)
- IP Control Protocol (RFC 1332)
- PPPoE (RFC 2516)

### • Functions:

- Smart Wizard to automatically detect ISP Address type (static, dynamic, PPPoE)
- Port Range Forwarding
- Exposed Host (DMZ)
- Enable/Disable WAN Ping
- DNS Proxy
- MAC Address Cloning/Spoofing
- NTP support
- PPPoE login client support
- Telstra BigPond cable login support
- Diagnostic tools (ping, trace route, other)
- Port/Service blocking

### • Maintenance:

- Save/Restore Configuration
- Restore Defaults,
- Upgrades via Web Browser
- Display Statistics

### • Hardware Specifications:

- **Processor:** 150 MHz MIPS32
- **Memory:** 2Mb Flash, 16 Mb DRAM
- **Power adapter:** 12VDC, 1.2A Plug is localized to country of sale in North America, Australia, Europe, United Kingdom
- **Dimensions:** 25.4 x 17.8 x 3.96 cm (10 x 7 x 1.56 in.)
- **Weight:** 1.23 kg (2.7 lb.)

### • Environmental Specifications:

- **Operating temperature:** 0 to 40°C
- **Operating humidity:** 90% maximum relative humidity, noncondensing