




NETGEAR ProSafe Wireless VPN Products Reference Guide



For a complete wireless solution in even the most challenging environments, NETGEAR's ProSafe line of access points, wireless VPN firewalls, antennas, and adapters, give you multiple options for extending the reach and performance of your wireless infrastructure devices. Offering enterprise-class wireless reliability, security, upgradeability, flexibility and manageability, Netgear ProSafe wireless VPN products support IEEE 802.11a, 802.11b and 802.11g, Wi-Fi Protected Access (WPA) authentication, VPN security associations end-point tunnels, AES/3DES encryption and 802.11i readiness ensure your corporate network and data transmissions stay protected.

NETGEAR ProSafe Wireless VPN Products are ideal for:

- Secure, high-speed wireless access to corporate network resources, e-mail, and the Internet
- Secure sharing of corporate resources for remote users and/or mobile workforce
- Branch offices, campus or departmental environments, mobile workforce, office roamers and hotspots
- Company with 25-100 users implementing wireless LANs as either an Ethernet alternative or mobile extension to Ethernet
- Companies who prefer one simple device to perform several critical functions

			
Model	FVG318	FWG114P	FWAG114
Product Description	ProSafe 802.11g Wireless VPN Firewall 8	ProSafe 802.11g Wireless VPN Firewall 2 w/USB Print Server	ProSafe Dual Band Wireless VPN Firewall 2
Key Features	<ul style="list-style-type: none"> • Built-in IEEE 802.11g Access Point • 54 Mbps – up to 108 Mbps • 8-port 10/100 switch • SPI firewall • Cable/DSL NAT router • Support for 8 IPSec-based VPN security association (SA) end points • Single detachable 5 dBi antenna • SNMP (v2c) manageable • WPA2 Enterprise, 802.11i • WiFi Multimedia (WMM) 	<ul style="list-style-type: none"> • Built-in IEEE 802.11g Access Point • 4-port 10/100 switch • SPI firewall • Cable/DSL NAT router • Support for two IPSec-based VPN security association (SA) end points • Integrated USB Print Server • RS232 Serial Port with DB-9 connector for WAN auto-fail-over capability • Single detachable 5 dBi antenna • WPA2 Enterprise, 802.11i • WiFi Multimedia (WMM) 	<ul style="list-style-type: none"> • Built-in IEEE 802.11a/g Access Point • 54 Mbps – up to 108 Mbps on both bands 802.11a and 802.11g • 4-port 10/100 switch • SPI firewall • Cable/DSL NAT router • Support for two IPSec-based VPN security association (SA) end points • 2 built-in 2 dBi antennas • Wi-Fi Protected Access (WPA)
Wi-Fi Certified	✓	✓	✓
Other	• VPNC certified	• Intel® Centrino™ Certified • VPNC certified	• VPNC certified

Accessories

	ProSafe Wireless VPN Firewalls
Laptop NIC	WAG511 ProSafe Dual Band 802.11a/b/g Wireless PC Card with AutoCell support WG511T 108 Mbps Wireless PC Card
Desktop NIC	WAG311 ProSafe Dual Band 802.11a/b/g/ Wireless PCI Adapter with AutoCell support WG311T 108 Mbps Wireless PCI Adapter
NETGEAR Compatible Antennas	ANT2409, ANT2405; ANT24D18 <ul style="list-style-type: none"> • Medium- or long-range connections to extend your wireless network • Approved antenna cables offer low loss at 2.4 GHz for flexible WLAN setup • Works with IEEE 802.11b and 802.11g (2.4 GHz) devices • Choices include directional and omni-directional antennas • Options include point-to-point and point-to-multipoint antennas • Includes low-loss cables, mounting hardware, and other accessories • FCC-approved to work with NETGEAR ProSafe Wireless VPN Firewalls: FVG318, FWG114P • 1.5 m, 3 m, 5 m, and 10 m antenna cables
NETGEAR Compatible Software	ProSafe VPN Client Software VPN01L/VPN05L <ul style="list-style-type: none"> • Provides secure, remote access to corporate network resources • Robust encryption and authentication • Client-initiated VPN support from popular Microsoft® Windows® platforms • Preset configuration files available for NETGEAR VPN/Firewall routers • NAT traversal support • GUI for configuring security policies and managing certificates • Redundant gateway capability • Extensive interoperability with IPSec-compliant devices

Technical Specifications

	FVG318	FWG114P	FWAG114
Wireless Support	<ul style="list-style-type: none"> • IEEE 802.11b/g Wireless Access Point • Up to 108 Mbps • Backward compatible 802.11b-based networks 	<ul style="list-style-type: none"> • IEEE 802.11b/g Wireless Access Point • Up to 54 Mbps • Backward compatible 802.11b-based networks 	<ul style="list-style-type: none"> • IEEE 802.11a and an 802.11g access point • Up to 108 Mbps • Backward compatible 802.11b-based networks
Frequency Rate		2.4 GHz	2.4 GHz and 5.0 GHz
Ports	<ul style="list-style-type: none"> • LAN: Eight (8) 10/100 Mbps • WAN: One (1) 10/100 Mbps • Antenna Connector: One (1) reverse SMA 	<ul style="list-style-type: none"> • LAN: Four (4) 10/100 Mbps • WAN: One (1) 10/100 Mbps • Printer Connection: USB 1.1 • Modem: RS232 Serial with DB-9 male connector • Antenna Connector: One (1) reverse SMA 	<ul style="list-style-type: none"> • LAN: Four (4) 10/100 Mbps • WAN: One (1) 10/100 Mbps
IPSec VPN Tunnels	8	2	2
Switch	8-Port 10/100 Mbps	4-Port 10/100 Mbps	4-Port 10/100 Mbps
SPI Firewall Router	✓	✓	✓
Print Server		USB	
SSID	Single	Single	Dual
Antenna	One (1) 5 dBi detachable	One (1) 5 dBi detachable	Four (4) built-in 2 dBi antennas in 2 housings
User support	<ul style="list-style-type: none"> • LAN: Up to 253 users • WLAN: Up to 64 users 	<ul style="list-style-type: none"> • LAN: Up to 253 users • WLAN: Up to 64 users 	<ul style="list-style-type: none"> • LAN: Up to 253 total users • WLAN: up to 128 users
Security	<ul style="list-style-type: none"> • Wi-Fi Protected Access (WPA2), 802.11i • Firewall: Stateful Packet Inspection (SPI) to prevent 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 email alerts; Web URL content filtering • VPN Functionality: Manual key and IKE Security Association (SA) assignment, key life and IKE lifetime time settings prevent replay attack, remote access VPN (client-to-site), site-to-site VPN, IPSec NAT traversal (VPN pass-through) • VPN Security: IPSec (end point and pass-through), IPSec (ESP), PPTP, L2TP pass-through, SPI, MD5, SHA-1, DES, 3DES, IKE, AES, PKI, x.509 certificates • Mode of Operation: NAT, static routing, unrestricted users per port • IP Address Assignment: Static IP address assignment, internal DHCP server on LAN, DHCP client on WAN, PPPoE client support 	<ul style="list-style-type: none"> • Wi-Fi Protected Access (WPA2), 802.11i • WEP encryption: 40/64-bit and 128-bit • Block SSID Broadcast • Wireless station access control list • Firewall Security: Stateful Packet Inspection (SPI), NAT, DoS Attack prevention, Intrusion Detection including logging, reporting and e-mail alerts, Web URL content filtering, prevent replay attack (reassemble attack). Advanced features include block Java™/URL/ActiveX™ based on extension, FTP/SMTP/RPC program filtering • VPN Security: IPSec (ESP, AH), MD5, SHA-1, DES, 3DES, IKE, PKI • Encryption: 168-bit 3DES IPSec and 56-bit DES encryption capability • VPN pass-through tunnels (IPSec, L2TP, PPTP) • IP Address Assignment: Static IP address assignment, internal DHCP server on LAN, DHCP client on WAN, PPPoE client support 	<ul style="list-style-type: none"> • Wi-Fi Protected Access (WPA) • Firewall Security: Stateful Packet Inspection (SPI), NAT, DoS Attack prevention, Intrusion Detection including logging, reporting and e-mail alerts, Web URL content filtering, prevent replay attack (reassemble attack). Advanced features include block Java™/URL/ActiveX™ based on extension, FTP/SMTP/RPC program filtering • VPN Security: IPSec (ESP, AH), MD5, SHA-1, DES, 3DES, IKE, PKI • Encryption: 168-bit 3DES IPSec and 56-bit DES encryption capability VPN pass-through tunnels (IPSec, L2TP, PPTP) • WEP encryption: 40/64-, 128- and 156-bit
WPA Support	WPA/WPA2 – Enterprise, 802.11i	WPA/WPA2 – Enterprise, 802.11i	WPA – Enterprise, 802.11i
Network Management	SNMP v2c (MIB II)		
User Interface	Smart Wizard Assistant Install, VPN Wizard and web-user interface	Smart Wizard Assistant Install, VPN Wizard and web-user interface	Smart Wizard Assistant Install, VPN Wizard and web-user interface
Remote Configuration	<ul style="list-style-type: none"> • Browser-based administration • Remote management by IP Administration 	<ul style="list-style-type: none"> • Browser-based administration • Remote management by IP Administration 	<ul style="list-style-type: none"> • Browser-based administration • Remote management by IP Administration
Physical Dimension	252 mm x 180 mm x 40 mm (9.92 x 7.1 x 1.57 inches)	32 x 188 x 124 mm (1.25 x 7.4 x 4.9 inches)	2.8 x 19 x 13 cm (1.2 x 7.5 x 5.1 inches)
Package Contents	<ul style="list-style-type: none"> • One (1) 5 dBi Detachable Antenna • Resource CD • Power adapter • Ethernet cable • Installation guide • Warranty/support information card 	<ul style="list-style-type: none"> • One (1) 5 dBi Detachable Antenna • Resource CD • Power adapter • Ethernet cable • Installation guide • Warranty/support information card 	<ul style="list-style-type: none"> • Resource CD • Power adapter • Ethernet cable • Installation guide • Warranty/support information card
Operating humidity	90% maximum relative humidity, non-condensing		
Operating temperature	0 to 40° C (32 to 104° F)		
Premium support available	✓	✓	✓
Warranty	3 years	3 years	3 years