



WG302

ProSafe™ Wireless Access Point 802.11g

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

Intelligent Networking Features for a Scalable, Secure Solution
NETGEAR's ProSafe 802.11g Wireless Access Point WG302 delivers the secure, reliable, high performance wireless local area networks (WLANs) today's mobile workforce demands.

This powerful device provides the ultimate in industry standard access to corporate network resources, email and the Internet. Fully compatible with IEEE 802.11g, (2.4 GHz), it can also be set for dynamic 108 Mbps 802.11g. With its robust security measures, simplified management and configuration, extended range, integrated IEEE 802.3af power over Ethernet (PoE), and Wi-Fi certification, the WG302 brings standards-based enterprise-level functionality at a mid-market price.

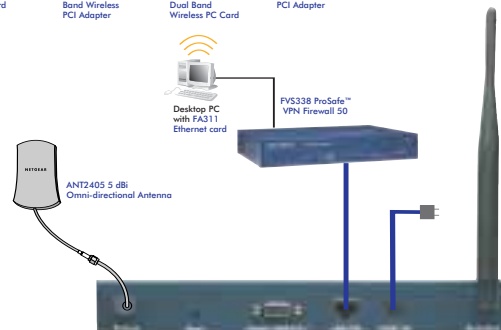
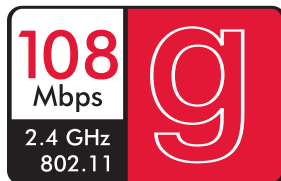
And, with AutoCell™ RF management technology, RF patterns are monitored and automatically tuned to balance signals across the network, thus minimizing channel interference and optimizing WLAN performance. AutoCell-enabled WG302s provide dynamic transmit power control, automatic channel selection and load balancing.

Security ● Complies with industry security standards for wireless data encryption, and user authorization. 802.11i, WPA2 Enterprise provides enhanced, interoperable wireless networking security. WPA and 802.1x support enables strong mutual authentication to ensure that only legitimate clients associate with corporate RADIUS servers. Supports MAC address authentication with 256-user Access Control List (ACL) and VPN pass-through.

Management ● Integrated IEEE 802.3af-based Power over Ethernet (PoE) support eliminates extra cables and the need to locate near a power outlet, as the access point is powered over the Ethernet cable. Supports Simple Network Management Protocol (SNMP) MIB I, MIB II, and 802.11 MIB using SNMP-based network management software, such as HP OpenView™. Supports all popular 802.1x port-based authentication protocols, including Extensible Authentication Protocol (EAP) Transport Layer Security (TLS), Protected EAP (PEAP), and Tunneled TLS (TTLS). Console port facilitates local configuration and monitoring. Users can remotely configure, update, and monitor multiple WG302's simultaneously via FTP.

Aptitude ● IEEE 802.11g wireless standard – with optional speeds up to 108 Mbps – takes care of business communications with great dispatch and skill. Delivers functionality for point-to-point and point-to-multi-point bridging and repeater modes. AutoCell provides dynamic transmit power control, automatic channel selection and load balancing when used in conjunction with the ProSafe 802.11a/b/g Dual Band PC Card WAG511, to optimize WLAN performance.

Usability ● Cost effective, simple to install and use. Plenum rated – appropriate for placement above drop-down ceilings and under raised floors. Equipped with convenient Smart Wizard™ browser-based interface. Fitted with two external, detachable 5 dBi antennas – obtain NETGEAR's antenna and flexible point placement accessories separately for expanded wireless capacity and range. IEEE 802.11e-based Quality of Service (QoS) support is available via future firmware upgrade. Protected with a NETGEAR 3-year warranty.



Product Specifications

- **Wireless:**
 - **Standards:** IEEE 802.11g 54 Mbps
 - **Antennas:** Two (2) 5 dBi detachable
 - **Typical maximum power output:** 19.8 dBm
 - **Typical maximum receive sensitivity:** 96 dB
- Note: Maximum Tx varies based on country and/or region selection to ensure local regulatory compliance.
- **Physical Interfaces:**
 - **LAN Port:** One (1) 10/100BASE-T Ethernet (RJ-45) port with Auto Uplink™ (Auto MDI-X) with IEEE 802.3af Power over Ethernet (PoE) support
 - **Power adapter:** Output 12 VDC, 1.2 A; plug is localized to country of sale
 - **Five (5) LEDs:** Power, Test, 100 Mbps, Link/ACT, and WLAN 802.11g
 - **Console Port:** One (1) with standard RS-232C interface with DB-9 male connector
 - **Antenna Connectors:** Two (2) reverse SMA
 - **Network Management:**
 - Remote configuration and management through Web browser, SNMP or Telnet with command line interface (CLI)
 - SNMP management supports SNMP MIB I, MIB II, and 802.11 MIB

- **Advanced Wireless Features:**
 - Bridging and repeater mode
 - Simultaneous wireless bridge and access point mode
 - Adjustable transmit power control 100 mW down to 0 mW
 - Dynamic transmit power control and channel selection with AutoCell
 - Wi-Fi Multimedia (WMM™) to optimize audio, video and voice applications

- **Receive Sensitivity:**

- 802.11b	
1 Mbps	-93 dBm
2 Mbps	-92 dBm
5.5 Mbps	-92 dBm
11 Mbps	-89 dBm
- 802.11g	
6 Mbps	-93 dBm
9 Mbps	-90 dBm
12 Mbps	-90 dBm
18 Mbps	-88 dBm
24 Mbps	-84 dBm
36 Mbps	-80 dBm
48 Mbps	-76 dBm
54 Mbps	-75 dBm

- **Security:**
 - Wi-Fi Protected Access 2 (WPA2), 802.11i
 - Block SSID Broadcast
 - VPN pass-through support
 - MAC address filtering with access control lists – up to 256 users
 - 802.1x RADIUS support with EAP TLS, TTLS, PEAP
 - Secure SSH Telnet
 - Secure Socket Layer (SSL) remote management login
 - Wireless isolation enables peer-to-peer blocking so users may not access another user's PC

- **Standards, Safety and Electromagnetic Conformance:**

- IEEE 802.11g (2.4 GHz Frequency Band, DSSS Modulation Type)
- IEEE 802.3af Power over Ethernet (PoE)
- FCC Part 15 Subpart B and Subpart C
- CE EN60950, EN 300328-2 v1.1.1 (2000-07), EMC EN301489-1 v1.2.1 (2000-08), and EN301489-17 v1.1.1 (2000-09), EN55022(B), CISPR22(B), AS/NZS 3548(B)

- **Physical Specifications:**

- **Dimensions:** 25.4 x 17.8 x 3.18 cm (10 x 7 x 1.25 in.)
- **Weight:** 574 g (1.27 lb)
- **Processor and memory:** Intel® IXP422, 8 MB Flash, 16 MB DRAM

- **Environmental Specifications:**

- **Operating temperature:** 0 to 40° C (32 to 104° F)
- **Operating humidity:** 90% maximum relative humidity, noncondensing

- **Warranty:**

NETGEAR 3-year warranty

Package Contents

- ProSafe 802.11g Wireless Access Point WG302
- Two (2) 5 dBi Detachable Antennas
- Resource CD
- Power adapter
- Ethernet cable
- Wall Mounting Kit
- Installation guide
- Warranty/support information card

System Requirements

- Windows® 98, Me, 2000, or XP
- 2 Mbytes of available disk space

Antennas and Accessories

- ANT24O5 5 dBi Omni-directional antenna
- ANT24O9 9 dBi Indoor/Outdoor Omni-directional Antenna
- ANT24D18 18 dBi Indoor/Outdoor Directional antenna
- Five (5) antenna cable lengths: 1.5, 3, 5, 10, and 30 m

AutoCell RF Management and Control

AutoCell RF Management technology is sophisticated cognitive radio software embedded in the WG302 firmware that is accessed via the user interface. The AutoCell-enabled WG302 monitors radio frequency (RF) patterns and automatically tunes the access point signal strength and channel selection to avoid interference to achieve optimum performance.

NETGEAR Related Products

- FVXS538 ProSafe™ VPN Firewall 200
- FVS338 ProSafe™ VPN Firewall 50
- FVS318 ProSafe™ VPN Firewall 8
- FWG114P ProSafe™ 802.11g Wireless Firewall with Print Server
- WAG511 Dual Band 802.11a/b/g Wireless PC Card
- WAG311 Dual Band 802.11a/b/g/ Wireless PCI Adapter
- WG511T 108 Mbps Wireless PC Card
- WG311T 108 Mbps Wireless PCI Adapter



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* Free basic installation support provided for 90 days from date of purchase. Advanced product features and configurations are not included in free basic installation support; optional premium support available.

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