



# WAG302

## ProSafe™ Dual Band Wireless Access Point

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

### Protect and Expand Your Intelligent Wireless Network

It's easy to be impressed by NETGEAR®'s business-class WAG302. The WAG302 Access Point supports both 5 GHz and 2.4 GHz 54 Mbps radio transmission with up to 108 Mbps in both 802.11g and 802.11a in turbo mode to support up to 128 simultaneous wireless clients and client types within the same coverage area. And with AutoCell™ cognitive radio software, the WAG302 offers optimum WLAN performance in high density, high interference deployments.

Built-in security and manageability features make it ideal for any organization or institution facing increasing mobile computing needs. To protect sensitive communications and data on the wireless LAN, the WAG302 Access Point offers the most advanced and comprehensive set of authentication and encryption security capabilities on the market today. Web-based network management tools make configuration and remote management of the network painless, while SNMP and ProSafe Network Management System NMS100 integrates the wireless LAN with your wired infrastructure. Wi-Fi certification ensures interoperability with Wi-Fi-certified products from other vendors.

### Secure and Extensible

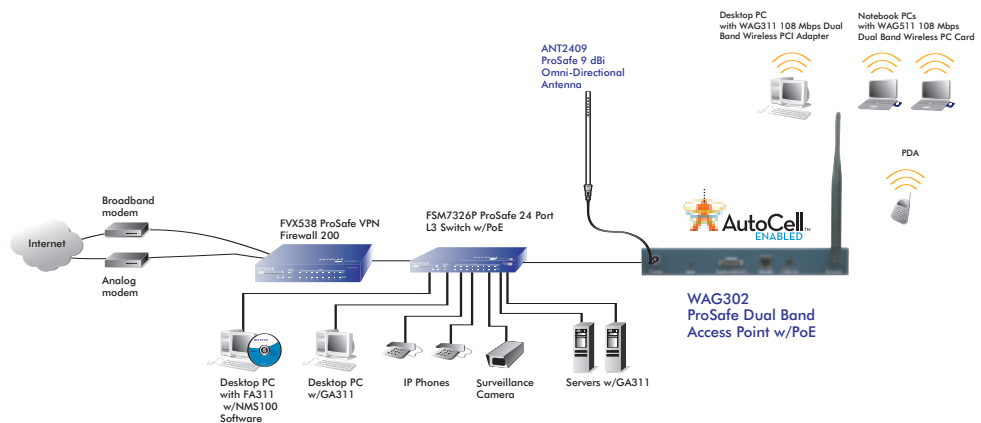
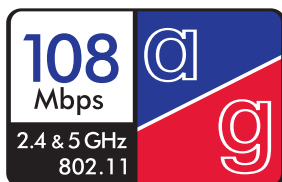
- NETGEAR access points support the highest available security standard, WPA2 Enterprise.\*\* With 40/64-, and 128/152-bit WEP shared key encryption and advanced AES 256-bit encryption ensures the privacy of all wireless transmissions. 802.1x RADIUS server authentication controls wireless network access and centralizes user authorization across the network. TKIP dynamic key assignment improves security and simplifies deployment. MAC address access control lists control access to network resources. Other security measures include, block SSID broadcast, rogue access point detection and notification\*\*, secure management interfaces: SSL and SSH, and intra-cell blocking to prevent client-to-client snooping - also supports VPN pass-through.

### Efficient

- With radio frequency (RF) management technology, the wireless network self optimizes. The WAG302 with AutoCell intelligently chooses channels and dynamically adjusts the power levels to ensure coverage and avoid interference. The embedded IEEE 802.3af power over ethernet (PoE) port expands installation options by eliminating the need to locate the WAG302 near a power outlet. Supports Simple Network Management Protocol (SNMP) MIB I, MIB II and 802.11MIB. Console port facilitates local configuration and monitoring. Users can remotely configure, update and monitor multiple WAG302's via FTP. Supports Wireless Distribution System (WDS) for bridging and repeater modes - even able to be configured as a bridge and access point simultaneously.

### Simple

- Cost effective and simple to install and use. Plenum rated - appropriate for placement above drop-down ceilings and under raised floors. Equipped with the convenient Smart Wizard™ browser-based interface for quick installation. Fitted with two powerful detachable 5 dBi antennas - expand wireless capacity and range with NETGEAR ProSafe antennas for the 2.4 GHz frequency band. IEEE 802.11e\*\* Quality of Service (QoS) support makes it easy to handle Voice over IP (VoIP) and multimedia applications. Protected with a NETGEAR 3-year warranty.



## Technical Specifications

- **Wireless:**
  - **Standards:** IEEE 802.11a, IEEE 802.11g, IEEE 802.11i\*\*, IEEE 802.11e\*\*
  - **Antennas:** Two (2) 5 dBi detachable
  - **Typical maximum power output:** 802.11a (15 dBm), 802.11g (20 dBm)
  - **Typical maximum receive sensitivity:** 802.11a (89 dB), 802.11b/g (87dBm)

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™ and 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, WLAN 802.11a
  - **Console Port:** One (1) with standard RS-232C interface with DB-9 male connector
  - **Antenna Connectors:** Two (2) 5 dBi 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

• <b>Receive Sensitivity:</b>			
- <b>802.11b</b>			
	1 Mbps	-93 dBm	-87dBm
	2 Mbps	-92 dBm	-84dBm
	5.5 Mbps	-92 dBm	-83dBm
	11 Mbps	-89 dBm	-80dBm
- <b>802.11g</b>			
	6 Mbps	-93 dBm	-82dBm
	9 Mbps	-90 dBm	-81dBm
	12 Mbps	-90 dBm	-79dBm
	18 Mbps	-88 dBm	-77dBm
	24 Mbps	-84 dBm	-74dBm
	36 Mbps	-80 dBm	-70dBm
	48 Mbps	-76 dBm	-66dBm
	54 Mbps	-75 dBm	-65dBm
- <b>802.11a</b>			
	6 Mbps	-89 dBm	
	9 Mbps	-88 dBm	
	12 Mbps	-87 dBm	
	18 Mbps	-86 dBm	
	24 Mbps	-82 dBm	
	36 Mbps	-79 dBm	
	48 Mbps	-73 dBm	
	54 Mbps	-69 dBm	

- **Security:**
  - IEEE 802.11i Wi-Fi Protected Access (WPA-2)\*\*
  - Block SSID Broadcast
  - VPN pass-through support
  - MAC address filtering with access control lists up to 255 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 802.3af 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:** 996.15 g (2 lbs. 13 oz.)
  - **Processor:** 266 MHz Intel XScale IXP 422B
  - **Memory:** 16MB Flash, 32MB DRAM
  - **Power over Ethernet required:** 10 W

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

- **Warranty:**  
NETGEAR 3-year warranty

## Antennas and Accessories

- ANT2405 5 dBi Omni-directional antenna
- ANT2409 9 dBi Indoor/Outdoor Omni-directional Antenna
- ANT24D18 18 dBi Indoor/Outdoor Directional Antenna
- Four (4) antenna cable lengths: 1.5, 3, 5 and 10 m

## AutoCell RF Management and Control

AutoCell RF Management technology is sophisticated cognitive radio software embedded in the WAG302 firmware that is accessed via the user interface. The AutoCell-enabled WAG302 monitors radio frequency (RF) patterns and automatically tunes the access point signal strength and channel selection to avoid interference to achieve optimum performance. An evaluation copy of the separately sold AutoCell View monitoring software is available on the Resource CD.

## Package Contents

- ProSafe Dual Band Wireless Access Point WAG302
- Two (2) 5 dBi Detachable Antennas
- Resource CD
- Power adapter
- Ethernet cable
- Wall Mounting Kit
- Installation guide
- Warranty/support information card

## System Requirements

- PC or laptop, configured for an Internet connection, with Windows® 98, Me, 2000 or XP and 802.11b, 802.11g and/or 802.11a Wi-Fi adapter card

## NETGEAR Related Products

- WAG511 ProSafe Dual Band PC Card with AutoCell
- FS108P ProSafe 8 Port Fast Ethernet Switch with PoE
- FVS318 ProSafe VPN Firewall 8
- FVS338 ProSafe VPN Firewall 50
- FVX538 ProSafe VPN Firewall 200
- WG102 ProSafe 802.11g Access Point
- WG302 ProSafe 802.11g Access Point
- FSM7326P 24 Port Layer 3 Managed Switch with PoE
- NMS100 ProSafe Network Management Software



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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.

\*\*Available via future firmware upgrade