



# WAG511

## ProSafe™ Dual Band Wireless PC Card 32-bit CardBus

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

### ● **Tri-mode 802.11a/b/g PC Card Takes You Everywhere**

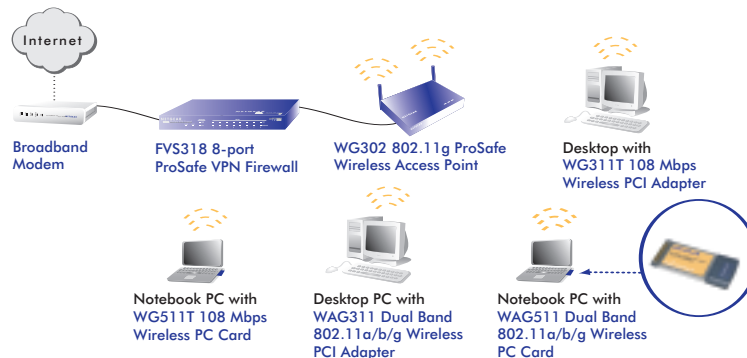
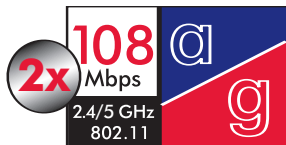
Freedom of movement and universal access — NETGEAR's Dual Band Wireless PC Card gives you both in spades! Remarkably versatile, it lets you access any 802.11a/b/g wireless network from your notebook PC. Put it in your notebook PC and no matter where you are, at home, at the office, at the airport or in other public access areas, you'll get high-speed access to corporate resources, e-mail, and the Internet. WAG511 automatically chooses the frequency with the most available bandwidth — either the widely used 802.11g or the interference-free 802.11a — each able to achieve up to 108 Mbps in turbo mode.\*\* Easy to set up and use, it will automatically select the best connection available and adapt the settings to match. The WAG511 is Propagate AutoCell™-enabled for optimized performance when used with the Netgear ProSafe Wireless Access Point, model WG302.

**High Speed** ● Fully IEEE 802.11a (5 GHz), 802.11b and 802.11g (2.4 GHz) compliant, this high-speed wireless PC card sends digital images, videos, and MP3 files across your wireless network at speeds of up to 108 Mbps in turbo mode. Dynamic rate shifting according to environmental conditions gives you the fastest possible connections from your notebook PC.

**Freewheeling** ● With AutoCell technology, supports sophisticated, quick acting office roaming for notebook PC users for shared broadband Internet access and resources. Gives you untethered mobility at home, the office, the airport, and other public hotspots. NETGEAR's Wireless LAN Manager lets you create profiles that reflect specific WLAN settings for each place you travel.

**Secure** ● 802.11i-ready, protects your information with the highest level of industry-standard WPA (Wi-Fi Protected Access) security. MAC address authentication offers enhanced security by ensuring only authorized users are able to access the network. VPN pass-through support also included. Optional AutoCell Enhanced RF Privacy mode ensures only trusted clients have access to the wireless network.

**Trustworthy** ● Thorough testing ensures quality and dependable operability. NETGEAR backs this wireless PC card with a solid 3-year warranty.



**Technical Specifications**

**802.11b/g**

- **Radio Data Rate:**
  - 802.11b - 1, 2, 5.5 & 11 Mbps
  - 802.11g - 6, 9, 12, 18, 24, 36, 48, 54 Mbps
- **Frequency:**
  - 2.412 - 2.462 GHz (US)
  - 2.412 - 2.484 GHz (Japan)
  - 2.412 - 2.472 GHz (Europe ETSI)
  - 2.457 - 2.462 GHz (Spain)
  - 2.457 - 2.472 GHz (France)
- **Modulation Type:**
  - OFDM with BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK
- **Operating Range:**
  - **Outdoor Environment:**
    - 54 Mbps @ 100 ft (30.5 m)
    - 6 Mbps @ 1200 ft (366 m)
  - **Indoor Environment:**
    - 54 Mbps @ 60 ft (18.3 m)
    - 6 Mbps @ 300 ft (91.4 m)

**802.11a**

- **Radio Data Rate:**
  - 6, 9, 12, 18, 24, 26, 48, 54 Mbps and 108 Mbps in Turbo mode
- **Frequency:**
  - 5.15 - 5.25 GHz (low band)
  - 5.25 - 5.35 GHz (middle band)
  - 5.725 - 5.825 GHz (high band)
- **Operating Range:**
  - **Outdoor Environment:**
    - 11 Mbps @ 398 ft (120 m)
    - 5.5 Mbps @ 561 ft (170 m)
    - 2 Mbps @ 890 ft (270 m)
    - 1 Mbps @ 1485 ft (450 m)
  - **Indoor Environment:**
    - 11 Mbps @ 198 ft (60 m)
    - 5.5 Mbps @ 264 ft (80 m)
    - 2 Mbps @ 430 ft (130 m)
    - 1 Mbps @ 660 ft (200 m)
- **Receiver Sensitivity:**
  - 54Mbps OFDM, 10% PER,-73dBm)
  - 48Mbps OFDM, 10% PER,-76dBm)
  - 36Mbps OFDM, 10% PER,-82dBm)
  - 24Mbps OFDM, 10% PER,-85dBm)
  - 18Mbps OFDM, 10% PER,-88dBm)
  - 12Mbps OFDM, 10% PER,-89dBm)
  - 11Mbps CCK, 8% PER,-91dBm)
  - 9Mbps OFDM, 10% PER,-90dBm)
  - 6Mbps OFDM, 10% PER,-91dBm)
  - 5.5Mbps CCK, 8% PER,-92dBm)
  - 2Mbps QPSK, 8% PER,-93dBm)
  - 1Mbps BPSK, 8% PER,-94dBm)

- **Transmit Output Power:**
  - 15dBm +- 2dB

• **Security:**

- WPA, WPA-PSK Support, 802.11i-ready
- PTP, P2TP, IPSec, VPN pass-through support
- AutoCell Enhanced Privacy mode

• **Drivers:**

- Windows 98SE, ME, 2000 and XP

• **Physical Specifications:**

- **Dimensions:** 4.76 x 2.13 x .45 in (121.x 54 x 11.44 mm)
- **Weight:** 1.6 oz (43.4 g)

• **Environmental Specifications:**

- **Operating temperature:** 32 to 140° F (0 to 60° C)
- **Operating humidity:** 5-95%, noncondensing

• **Electromagnetic Compliance:**

- FCC Part 15 Sub Class B and Class E

• **Certifications:**

- Microsoft Windows Hardware Quality Labs (WHQL) for Windows XP
- Wi-Fi Certified

• **Warranty:**

- NETGEAR 3-year warranty

**System Requirements**

- Pentium® Class PC with CD-ROM drive
- Available CardBus PC Card Type II slot
- Windows® 98, Me, 2000, or XP

**Package Contents**

- WAG511 Dual Band Wireless PC Card 32-bit CardBus
- Install Guide
- Resource CD
- Warranty/Support information card

**NETGEAR Related Products**

- WAG311 Dual Band 802.11a/b/g Wireless PCI Adapter
- WG302 802.11b ProSafe Wireless Access Point
- WG602 54 Mbps Wireless Access Point
- WGR614 54 Mbps Wireless Router
- WGT624 108 Mbps Wireless Firewall Router
- WG511T 108 Mbps Wireless PC Card

*\*\*Actual results may vary depending upon the operating environment.*

**What is Propagate AutoCell?**

AutoCell is the industry's first patent-pending technology that optimizes WLAN performance. Embedded as part of the WAG511 driver utility, AutoCell provides stable, high performing network connections, load balancing and more efficient roaming.



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