



## WAB501

# Dual Band Wireless Adapter 32-bit CardBus

### 802.11a / 802.11b Wireless Connectivity for Notebook PCs

- *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.*

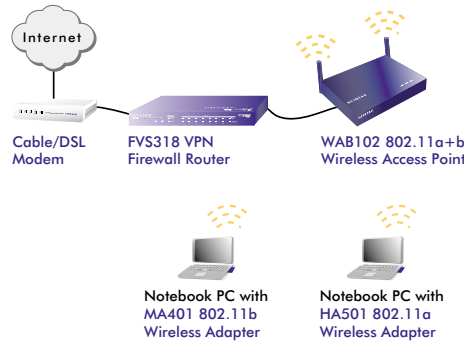
- Freedom of movement and flexibility of access – NETGEAR's Dual Band Wireless Adapter gives you both in spades! This versatile PC card works with either wireless standard, 802.11a or 802.11b, to keep you connected today and tomorrow. Put it in your notebook PC and no matter where you are, at home, at the office, at the airport or in other public access areas, this versatile adapter automatically selects the best connection available, giving you constant access to corporate resources, e-mail, and the Internet. Use it to quickly network employees, saving the time and expense of Ethernet cabling, or use it to upgrade your existing network to the faster 802.11a. Easy to set up and use, it auto-selects the best available connection and adapts the settings to match. NETGEAR's intuitive Install Wizard makes driver installation a cinch. And with up to 152-bit WEP encryption, you can rest assured that your wireless network communications are private.

- **At Your Service** Fully IEEE 802.11a (5 GHz) and 802.11b (2.4 GHz) compliant for wireless network access from your notebook PC. Delivers digital images, videos, and MP3 files at speeds of up to 108 Mbps in turbo mode, much faster than most wireless networks. Dynamic rate shifting according to environmental conditions achieves the fastest possible connections.

- **Untethered** Supports office roaming for notebook PC users for shared broadband Internet access and resources. Provides maximum mobility from home, the office, the airport, and other public access areas. And, the NETGEAR Wireless LAN Manager lets you create profiles that reflect specific WLAN settings for each place you travel.

- **Secure** Provides the highest available level of industry-standard WEP encryption: 128-bit for 802.11b devices and up to 152-bit for 802.11a devices. MAC address authentication offers enhanced security by ensuring only authorized users can access the network. 802.1x support is provided with Windows® XP.

- **Trustworthy** Thorough testing ensures quality and dependable operability, which NETGEAR backs up with a solid 3-year warranty.



## Technical Specifications

### 802.11a

- **Radio Data Rate:**
  - 6, 9, 12, 18, 24, 36, 48, 54 Mbps
  - 108 Mbps for 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:
    - 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)
- **Encryption:**
  - 40-bit (also called 64-bit), 128-bit, 152-bit WEP encryption
- **Receive Sensitivity:**
  - 6 Mbps: - 85 dBm
  - 9 Mbps: - 84 dBm
  - 12 Mbps: - 83 dBm
  - 18 Mbps: - 81 dBm
  - 24 Mbps: - 77 dBm
  - 36 Mbps: - 74 dBm
  - 48 Mbps: - 69 dBm
  - 54 Mbps: - 68 dBm
  - Turbo - 108 Mbps: - 65 dBm

### • 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)

### • Encryption:

- 40-bit (also called 64-bit), 128-bit WEP encryption

### • Receive Sensitivity:

- 1 Mbps: - 94 dBm
- 2 Mbps: - 93 dBm
- 5.5 Mbps: - 92 dBm
- 11 Mbps: - 91 dBm

## Warranty

- Limited 3-year

## Package Contents

- WAB501 Dual Band Wireless Adapter 32-bit CardBus
- User's Guide
- Resource CD
- Warranty card
- Support information card

## Minimum System Requirements

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

### 802.11b

- **Radio Data Rate:**
  - 1, 2, 5.5 & 11 Mbps (Auto rate capable)
- **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)

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