



# HE102

## 54 Mbps 802.11a Wireless Access Point

### Ultra-fast, Roaming Access to Network Resources

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

NETGEAR's HE102 802.11a Wireless Access Point provides users untethered access to the network and Internet whether in their conference room, home, classroom or cafeteria. With the NETGEAR HE102 and other NETGEAR 802.11a products, you can create a network from the ground up or extend your wired network to accommodate new locations and users. With blazing speeds of 54Mbps, or up to 72Mbps in turbo mode, you can deploy high-bandwidth applications never before possible. Send and receive large files, including high-quality audio and video, anywhere in your business or classroom. Share presentations and collaborate on graphics-intensive projects without being tied to your desk. You'll immediately experience reliable, IEEE 802.11a LAN connectivity that's protected with industry-standard 64/128/152-bit WEP encryption.

Superior capacity increases potential wireless network density. In combination with NETGEAR's HA501 Wireless PC Card, the HE102 reliably and securely supports up to 64 users per access point. And it does not interfere with IEEE 802.11b or Bluetooth™ devices. NETGEAR's 54 Mbps wireless product line is based on Wi-Fi5 technology, supports Windows® 98, Me, NT 4.0, 2000, and XP operating systems.

### High-Speed

Delivers blazing speeds of 54Mbps or up to 72Mbps in turbo mode, and quickly creates or extends your LAN without the time or expense of Ethernet cabling.

### Far-Reaching

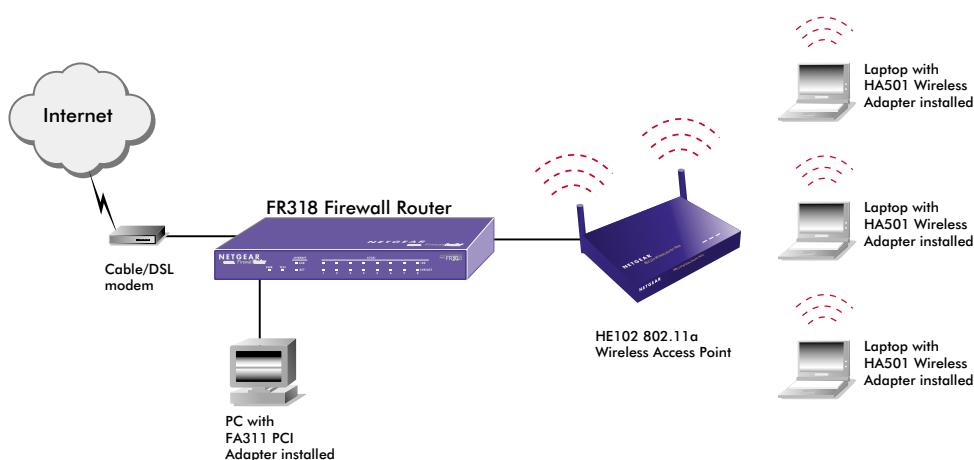
Extends your Ethernet LAN by allowing secure, mobile access to network resources. Simply connect one or more NETGEAR HE102 Access Points to your existing network or broadband connection, then add a NETGEAR HA501 Wireless PC Card Adapter to each notebook PC. With high-speed wireless connectivity, mobile users can be more productive, wherever their work happens to be.

### Competent

Eight non-overlapping transmission channels in the 5 GHz band (5.15 to 5.35 GHz) provide access for up to 64 users per access point. This means an organization can provide greater bandwidth at a lower cost than the previous generation of Wireless LANs.

### Protective

Prevents unauthorized access to your data transmissions with secure, industry-standard 60/128/152-bit WEP encryption technology. A lower level of data encryption or no data encryption is available to simplify your network setup or to improve data transfer rate.



### Technical Specifications

- **Network Speeds:**
  - 6, 9, 12, 24, 36, 48, 54, 72, 100 Mbps
- **Modulation Type:**
  - OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
- **Encryption:**
  - Hardware-based 64, 128 & 152-bit WEP encryption
- **Frequency Band:**
  - 5.15 ~ 5.25 GHz (lower band)  
for US/Canada, Japan
  - 5.25 ~ 5.35 GHz (middle band)  
for US/Canada
- **Standards:**
  - IEEE 802.11a
- **Compatibility:**
  - Windows® 98, Me, NT 4.0, 2000, XP
- **Dimensions:**
  - L: 12.38 cm (4.9 in)
  - W: 18.26 cm (7.2 in)
  - H: 2.54 cm (1.0 in)
- **Environmental Specifications:**
  - Operating temperature: 0 to 60°C (32 to 140° F)
  - Operating humidity: 5-95%, noncondensing
- **Operating Range:**
  - Closed Environment
    - @ 54 Mbps 60 ft. (18.3m)
    - @ 6 Mbps 300 ft. (91.4m)
  - Open Environment
    - @ 54 Mbps 100 ft. (30.5m)
    - @ 6 Mbps 1200 ft. (366m)

- **Electromagnetic Compliance:**

- FCC Part 15, Class B

- **Warranty:**

- 5 Years (2 years power supply)

### System Requirements

- Windows 98, NT 4.0, Me, 2000 or XP
- 2 MB of free hard drive space

### Package Contents

- HE102 802.11a Wireless Access Point
- User's Guide
- Warranty and registration card
- Support card

**NETGEAR®**

4500 Great America Parkway  
Santa Clara, CA 95054 USA  
Phone: 1-888-NETGEAR  
E-mail: sales@NETGEAR.com  
www.NETGEAR.com

©2002 NETGEAR, Inc. NETGEAR®, the Netgear Logo, the Gear Guy, and Everybody's connecting are trademarks or registered trademark of Netgear, Inc. in the United States and/or other countries. Microsoft, Windows, and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries. Other brand and product names are trademarks or registered trademarks of their respective holders. Information is subject to change without notice. All rights reserved.  
D-HE102-0