



HR314

Cable/DSL High-Speed Wireless Router 802.11a • 54Mbps • 5GHz

Secure, High-speed Wireless Networking

- *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.*

- **Speed, easy access, and protection** – you can count on all three when you install NETGEAR's Cable/DSL 802.11a High-Speed Wireless Router. Data transfer at blazing speeds of up to 54 Mbps or even 72 Mbps in "turbo mode" puts your business in the fast lane. You'll not only experience speedier file transfers, but you can share your broadband Internet connection, files and printers with up to 253 computers! This high-performance router lets you extend your existing Ethernet network to remote locations within the building with all the ease of wireless connectivity. It gives users the freedom to roam throughout the office and stay connected to the corporate network. At the same time, you can be assured of total privacy with NAT routing protecting your computers and your network against hackers. There's also a free and complete Freedom™ Anti-Virus and privacy software bundle included to provide additional protection for your network. And your optimized network will be up and running in minutes – Smart Wizard and Install Assistant help to make setup fast and easy.

- Triple-Equipped** • One: a NAT router allows you to share one broadband Internet connection on multiple PCs and thwarts hackers.
Two: a built-in IEEE 802.11a Wireless Access Point allows you to connect PCs without running additional wires.
Three: a built-in 4-port 10/100 switch directly connects your PCs to your network

- Highly Accomplished** • Up to 6 times faster than 11 Mbps 802.11b wireless, this router gives you extensive coverage and available bandwidth, plus reliable connectivity with eight (8) non-overlapping channels in the 5 GHz band (5.15 to 5.35 GHz). Its superior capacity supports more users than 11 Mbps wireless networks – up to 64 – and increases potential wireless network density.

- Ever Vigilant** • Your network is protected from wireless eavesdroppers, with up to 152-bit encryption. Network Address Translation (NAT) routing stops hackers' attempts while it enables shared access to your broadband connection. IPSec-based VPN (Virtual Private Network) pass-through allows you secure access to your office or corporate network. Web page URL content filtering lets you control access to inappropriate Web sites, and you can set it to send you e-mail alerts and reports of surfing activity, plus tracking information. Additionally, free, complete anti-virus software for eight PCs (a \$240 value) is included, which blocks, scans, and destroys virus, worm, and Trojan attacks.

- User Friendly** • Smart Wizard connects to your ISP quickly; the easy-to-use Web-based configuration screen and Install Assistant reduce setup time. Remote administration capability makes connecting to multiple sites a breeze. Port Forwarding controls make it simple to play Internet games, communicate using multimedia applications (such as NetMeeting), and establish a DMZ. Lighted LEDs display status at a glance, and an Ethernet cable is included for connecting your first computer – saving you up to \$15.

Typical Network Setup





Related Products

For connecting computers:

- Fast Ethernet PCI Adapter for desktops (FA311 or FA312)
- Fast Ethernet Adapter for laptops (FA411 or FA511)
- Fast Ethernet USB Adapter (FA101 or FA120)
- FVS318 ProSafe VPN Firewall

To extend the network with or without new wires:

- Fast Ethernet Switch (FS605 or FS608) to add additional computers
- Wireless Access Point (ME102 or HE102) for mobile access
- Powerline Ethernet Adapter (XE602) to use your electrical wiring as a network
- Phoneline Bridge (PE102) to use your phone lines as a network
- HA501 Wireless CardBus Adapter

System Requirements

- Broadband (cable, DSL, satellite or wireless) modem with Ethernet RJ-45 connector and Internet service
- Ethernet connection (adapter and cable) for each PC
- TCP/IP Networking software (Windows® 95, 98, Me, NT, 2000, XP, Mac® OS, NetWare®, UNIX®, Linux®)
- Internet Explorer® 5.0 or Netscape® 4.7 or higher

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Technical Specifications

- **Network Speeds:**
 - 6, 9, 12, 24, 36, 45, 54, 72, 100 Mbps
- **Modulation Type:**
 - OFDM (BPSK, QPSK, 16-QAM, 64-QAM)
- **Frequency Band:**
 - 5.15 - 5.25 GHz (lower band) for US/Canada, Japan
 - 5.25 - 5.35 GHz (middle band) for US/Canada
- **Encryption:**
 - Hardware-based 40/64-, 128- & 152-bit
- **Standards:**
 - IEEE 802.11a
- **Compatibility:**
 - Windows® 95, 98, Me, NT 4.0, 2000, and XP
- **Routing Protocols:**
 - TCP/IP, CSMA/CD, UDP, DNS, RIP-1, RIP-2, NAT, PPTP, PPPoE, DHCP (client & server), VPN pass-through (IPSec, L2TP)
- **Interface Specifications:**
 - LAN: IEEE 802.3i (10BASE-T) Ethernet or IEEE 802.3u (100BASE-TX) Fast Ethernet (auto-sensing), RJ-45
 - WAN: IEEE 802.3i (10BASE-T) Ethernet, RJ-45
- **Dimensions:**
 - H: 1.4" (3.5 cm) W: 9.95" (25.3 cm) x D: 7.1" (18.1 cm)
- **Weight:**
 - 3.28 lb (1.49 Kg)
- **Environmental Specifications:**
 - Operating temperature: 0° to 40° C (32° to 104° F)
 - Operating humidity: 90% maximum relative humidity, noncondensing
- **Electromagnetic Compliance:**
 - FCC Part 15 Class B
 - VCCI Class B
 - EN 55 022 (CISPR 22) Class B
- **Environmental Specifications:**
 - Operating temperature: 0° to 40° C (32° to 104° F)
 - Operating humidity: 90% maximum relative humidity, noncondensing
- **Operating Range:**
 - Closed Environment:
 - @54 Mbps 60 ft (18.3 m)
 - @6 Mbps 300 ft (91.4 m)
 - Open Environment:
 - @54 Mbps 100 ft (30.5 m)
 - @6 Mbps 1200 ft (366 m)
- **Warranty:**
 - Router & power adapter - 3 years

- **Security Features:**
 - **VPN Functionality:** NAT traversal (VPN pass-through) for IPsec, PPTP and L2TP VPNs
 - **Mode of Operation:** Up to 253 users (less number of wireless users)
 - **IP Address Assignment:** Up to 253 users (less number of wireless users)
- **Management Features:**
 - **Administration Interface:** Web graphic user interface, user name and password protected. Smart Wizard and Auto Detect for basic parameter settings. Remote management support authenticated through IP address or IP address range, and password
 - **Configuration and Upgrades:** Up to 253 users (less number of wireless users)
- **Application Support :**
 - Quake, Half-Life, StarCraft, Unreal Tournament, PPTP, MIRC, ICQ, AOL Instant Messenger, Microsoft Messenger, NetMeeting, Real Player, Windows Media Player, QuickTime, Net2Phone, DialPad, and many more.
- **RFC Support:**

PPTP client and server	(RFC 2637)
IPSec tunnel mode (pass through mode), IP v4	(RFC 2401)
DHCP server	(RFC 2131)
DHCP client	(RFC 2131)
TFTP client	(RFC 1350)
IP routing (RIP1, RIP2)	(RFC 2453)
NAT (many-to-one)	(RFC 1631)
IP control Protocol	(RFC 1332)
PPPoE	(RFC 2516)
- **Functions:**
 - Smart Wizard to automatically detect ISP Address type (static, dynamic, PPPoE), Port Range Forwarding, Exposed Host (DMZ), Enable/Disable WAN Ping, DNS Proxy, MAC Address Cloning, NTP support, URL Content Filtering, E-mail Alerts, DHCP Server (Info and display table), PPPoE login client support, WAN DHCP Client, Diagnostic tools (ping, trace route, other).
- **Maintenance:**
 - Save/Restore Configuration, Restore Defaults, Upgrades via Web Browser, Display Statistics, Logging
- **Hardware Specifications:**
 - **Processor:** Arm 7 50 MHz, PowerPC
 - **Memory:** 1Mb Flash, 4 Mb DRAM

Package Contents

- HR314 Cable/DSL 802.11a High-Speed Wireless Router
- Power Adapter*
- Ethernet Category 5 cable (up to a \$15 value)
- Installation Guide
- Resource CD-ROM
- Warranty and Registration card
- Support Information card

* **Power Adapter**
Plug is localized to country of sale in North America, Australia, Europe, United Kingdom, Japan