

## Entertainment router for faster gaming, music, and HD video streaming

The Dual-Band Wireless-N Gigabit Router is really four devices in one box. First, there's the dual-band Wireless Access Point, which lets you connect to the network without wires. There's also a built-in 4-port full-duplex 10/100/1000 Switch to connect your wired-Ethernet devices together at up to gigabit speeds. The Router function ties it all together and lets your whole network share a high-speed cable or DSL Internet connection.

We've also included a Storage Link that lets you easily add gigabytes of storage space onto your network using readily available USB 2.0 hard drives -- or plug in a USB flash disk for a convenient way to access your portable data files. The built-in Media Server streams music, video, and photos from the attached storage device to any UPnP compatible media adapter. And you can get to your files from anywhere in the world through the Internet.

The Access Point built into the Router uses a dual-band version of the very latest wireless networking technology, Wireless-N (draft 802.11n). By overlaying the signals of multiple radios for each band, Wireless-N's "Multiple In, Multiple Out" (MIMO) technology multiplies the effective data rate. Unlike ordinary wireless networking technologies that are confused by signal reflections, MIMO actually uses these reflections to increase the range and reduce "dead spots" in the wireless coverage area. The robust signals travel farther, maintaining wireless connections much farther than standard Wireless-G

Wireless-N works great with standard Wireless-G, -A, and -B equipment, but when both ends of the wireless link are Wireless-N, the router can increase the throughput even more by using twice as much radio band, yielding speeds much faster than standard Wireless-G. But unlike other speed-enhanced technologies, Wireless-N can dynamically enable this double-speed mode for Wireless-N devices, while still connecting to other wireless devices at their respective fastest speeds. In congested areas, the "good neighbor" mode ensures that the Router checks for other wireless devices in the area before gobbling up the radio band.

To help protect your data and privacy, the Router can encode all wireless transmissions with industrial-strength 256-bit encryption. It can serve as your network's DHCP Server, has a powerful SPI firewall to protect your PCs against intruders and most known Internet attacks, and supports VPN pass-through. Configuration is a snap with the web browser-based configuration utility.

The incredible speed of Wireless-N and gigabit wired networking is ideal for media-centric applications like streaming video, gaming, and Voice over IP telephony, and gives you plenty of headroom to run multiple media-intense data streams through the network at the same time, with no degradation in performance.

## DATASHEET

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Internet-sharing Router and 4-port Gigabit Switch, with a built-in, dual-band, speed and range enhanced Wireless Access Point

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Two simultaneous, separate, radio bands double your available bandwidth

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MIMO technology uses multiple radios per band to create robust signals for maximum range and speed, with reduced dead spots

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Connect a hard drive or flash-based USB storage device to allow access to your music, video, or data files from within your network, or through the Internet

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Advanced wireless security and SPI firewall for protection from Internet attacks

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## Simultaneous Dual-N Band Wireless Router

Model: WRT610N

## Features

- Built-in Storage Link, transform any USB storage device into a NAS
- Built-in Media Server, streams music, video, and photos to any UPnP compatible media adapter
- Blazing fast wireless speeds for high bandwidth applications such as video streaming or file sharing
- All ports support Gigabit speed and Auto-Crossover (MDI/MDI-X) -- no need for crossover cables
- MIMO technology uses multiple radios to create a robust signal that travels farther and faster, with reduced dead spots.
- Performance Investment Protection: Compatibility with Wireless-A (802.11a), Wireless-B (802.11b) and Wireless-G (802.11g) Standards
- Supports up to 128-bit encryption



## Specifications

Model	WRT610N
Standards	Draft 802.11n, 802.11a, 802.11g, 802.11b, 802.3, 802.3u, 802.3ab
Ports	Power, Ethernet, Internet, USB
Button	Reset, Wi-Fi Protected Setup
LEDs	Power, USB, Internet, Wireless, Wi-Fi Protected Setup Ethernet (1-4)
No. of Antennas	3 internal antennas per each 2.4GHz & 5GHz radio band
Modulations	802.11b: CCK, QPSK, BPSK 802.11g: OFDM 802.11a: OFDM Wireless-N: BPSK, QPSK, 16-QAM, 64-QAM
RF Pwr (EIRP) in dBm	2.4GHz 802.11b: 16+/-1.5dBm Typical @ Normal Temp Range 802.11g: 13.5+/-1.5dBm Typical @ Normal Temp Range Wireless-N 20MHz: 13+/-1.5dBm Typical @ Normal Temp Range Wireless-N 40MHz: 13+/-1.5dBm Typical @ Normal Temp Range 5GHz 802.11a: 12.5+/-1.5dBm Typical @ Normal Temp Range Wireless-N 20MHz: 8.5+/-1.5dBm Typical @ Normal Temp Range Wireless-N 40MHz: 11+/-1.5dBm Typical @ Normal Temp Range
Receive Sensitivity	2.4GHz 11Mbps: -86dBm @ Typical 54Mbps: -71dBm @ Typical 130Mbps (20MHz): -70dBm @ Typical 270Mbps (40MHz): -66dBm @ Typical 5GHz 54Mbps: -67dBm @ Typical 130Mbps (20MHz): -68dBm @ Typical 270Mbps (40MHz): -62dBm @ Typical
Antenna Gain in dBi	2.4GHz: RIFA 1 & RIFA 2 & RIFA 3 <= 4dBi (Typical) 5GHz: RIFA 1 & RIFA 2 & RIFA 3 <= 3.5dBi (Typical)
UPnP	Supported
Security Features	WEP, WPA, WPA2
Security Key Bits	Up to 128-bit encryption

## Environmental

Dimensions	8.86" x 1.38" x 7.09" (225 x 35 x 180 mm)
Unit Weight	1 lb, 15.94 oz (452 g)
Power	12V or 1.5A
Certifications	FCC, IC, CE, Wi-Fi a/b/g/draft-n,
Operating Temp.	0 to 40°C (32 to 104°F)
Storage Temp.	-20 to 60°C (-4 to 140°F)
Operating Humidity	10 to 80%, Noncondensing
Storage Humidity	5 to 90% Noncondensing

### Package Contents

- Simultaneous Dual-N Band Wireless Router
- Setup software and User Guide on CD-ROM
- Ethernet Network Cable
- Power Adapter

### Minimum Requirements

- Internet Explorer 6.0 , Safari 3.1 or Firefox 1.0 or higher for browser-based configuration
- CD-ROM drive
- Wired or Wireless Network Adapter with TCP/IP Protocol\*
- LELA software and Setup Wizard require up-to-date Windows XP, Vista, or Vista 64-bit Edition
- Setup Wizard also runs under Mac OS X 10.4 or higher

\*For optimum performance, we recommend Linksys Dual-Band Wireless-N adapters



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Linksys products are available in more than 50 countries, supported by 12 Linksys Regional Offices throughout the world. For a complete list of local Linksys Sales and Technical Support contacts, visit our worldwide website at [www.linksys.com](http://www.linksys.com)

The maximum performance for wireless is derived from IEEE Standard 802.11 specifications. Actual performance can vary, including lower wireless network capacity, data throughput rate, range and coverage. Performance depends on many factors, conditions and variables, including distance from the access point, volume of network traffic, building materials and construction, operating system used, mix of wireless products used, interference and other adverse conditions.

Check the product package and contents for specific features supported. Specifications are subject to change without notice.



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