

## WN-301R

### Wireless 11N Integrate Antenna Broadband Router

The AirLive WN-301R is the 802.11n Wireless Integrate Antenna Broadband Router and backward compatible with 802.11b/g. The transmitting data rate can be up to 300Mbps. The WN-301R features two intelligent hidden antennas offering high performance and enhances superior coverage range. Its complete backward compatibility with AirLive Turbo-G and MIMO-G families.



**300Mbps**

### Fast Transfer Wireless Router

#### Full Compatibility with Turbo-G and Wireless-G

The AirLive Wireless-N family is fully compatible with Turbo-G and Wireless-G devices. In fact, they will run at full Turbo speed when linking with Turbo-G products. Therefore, you can get the maximum performance out of your legacy equipments. The AirLive Wireless-N technology protects your current investment while making your wireless network ready for the future.

The AirLive WN-300 family is designed to provide faster speed and wider coverage than standard 802.11 products using MIMO, Turbo-G, and XR Technologies.

#### MIMO

A smart antenna technology that uses 2 or more antennas to achieve wider wireless coverage and less wireless dead spots. MIMO contains 3 key component technologies to achieve the result

#### Turbo G

A technology that uses packet-overdrive technique to achieve much faster performance than standard 802.11g device.

#### XR

A technology that uses range-overdrive technique to increase the range and reduce wireless dead spots for better overall wireless coverage.

The result is having wider coverage and up to 6 times faster speed than standard 802.11g wireless equipment. That means as the distance goes further, the 11N speed will drop slower comparing to non-MIMO solutions. It is fully compatible with 802.11g, 802.11b, Turbo-G, and MIMO-G devices. So you don't have to give up your existing wireless equipment.

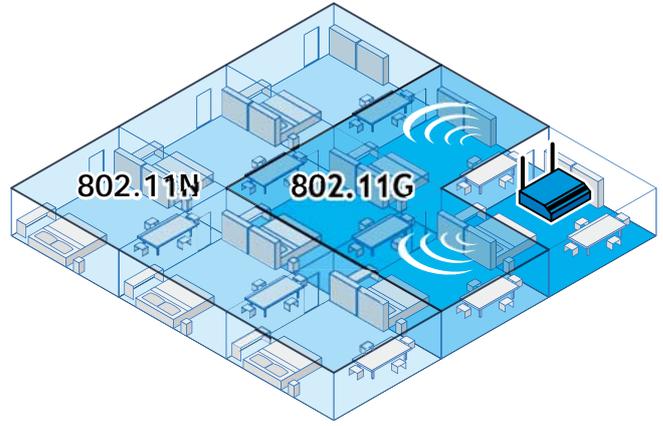
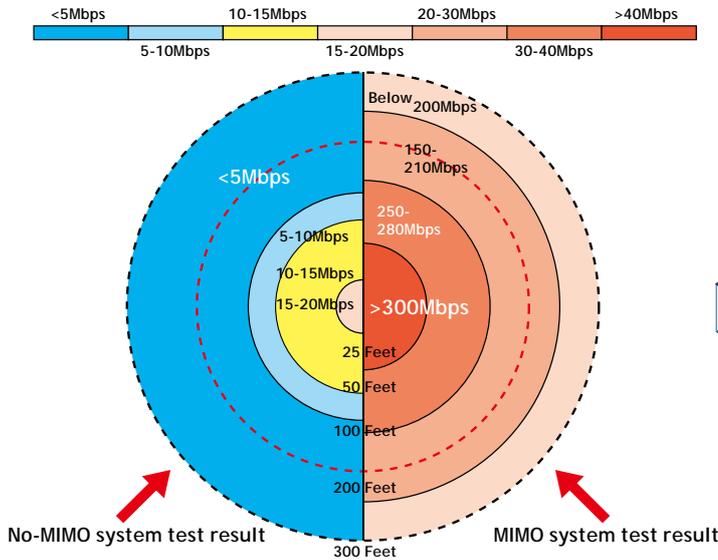
Manufacturer

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Wireless LAN speed are measured in 2 different standards

**Physical Layer Speed**

Physical layer speed is how fast the hardware chipset switch data. It is not the measurement of real file transfer speed. However, most WLAN standards are rated by their physical Layer speed. For example, when we quote 802.11g standard as "54Mbps", we are referring to the physical layer speed.

**MAC Layer Speed**

MAC layer speed is how fast the wireless device transfer real data. It is the real measurement of performance.

**Wireless LAN Speed Comparison\***

Standard	802.11a	802.11b	802.11g	Turbo-G	MIMO-G	Super-A	802.11n
<b>Physical Layer Speed</b>	54Mbps	11Mbps	54Mbps	125Mbps	125Mbps	108Mbps	300Mbps
<b>MAC Layer Speed</b>	23Mbps	4Mbps	20Mbps	30Mbps	30Mbps+	33Mbps	120Mbps
<b>MIMO Technology</b>					●		●
<b>Frequency Band</b>	5 GHz	2.4 GHz	2.4 GHz	2.4 GHz	2.4 GHz	5 GHz	2.4GHz or 5 GHz (depends on specification)

\* The performance are approximate values. Actual values depend on distance, obstacles, and interference.

The 802.11n offer substantial performance boost over other standards in real world performance than other wireless standards. It is perfect for multimedia and office applications. However, the 802.11n performance depends on MIMO functions; the performance boost is not useful for outdoor long distance applications.

## WPS (WiFi Protected Setup)

WPS is a standard created by Wi-Fi alliance to simply the process of building a secured home wireless network. In another word, it makes the process of making wireless encryption much easier. A WPS PBC (Push Button) enabled device will feature a push button where users simply push a button on the both the AP/Router and wireless USB dongle to setup the secured connection.

\* The 802.11n mode works only when using with other 802.11n devices or device that support WPS function.

## AirLiveGuard Wireless Security

Wireless Security has always been a concern for most users. The AirLiveGuard system is a combination of multiple layers of wireless protections. You can disable SSID broadcast that will prevent other users seeing the wireless network without knowing the exact SSID name. WN-300R also supports Mult SSIDs which you can make your two of the wireless SSID and separate the wireless network. By using isolation SSID, traffic on one SSID will not forward any data to other SSIDs.

**Mode**

Wireless Mode Mode : AP mode

SSID : airtlive

SSID1 airtlive

Broadcast SSID

Isolation Within SSID

Security Setting:  
SSID1 :Disabled

Then the WPA2-PSK/WPA-PSK/WEP/WPA-802.1X function encryptions the data, so intruders won't be able to interpret the wireless data. Therefore, those intruders can not use your wireless connection. At last, the DoubleGuard access control system will lock wireless access to your PC's MAC and IP address. You can choose whether to let PC that is not on the MAC access list to use Internet connection, associate with wireless, or communicate with LAN PC only.

**Trusted Wireless Stations**

Trusted Wireless Stations Other Wireless Stations

<< >>

Edit

Name:

Address:  (Physical/MAC address)

## Specifications

### Interface

- 1 x 10/100Mbps WAN port
- 4 x 10/100Mbps switching LAN ports
- Auto MDI/MDI-X functions

### Broadband Support

- Dynamic IP
- Static IP
- PPPoE
- PPTP
- L2TP
- DNS
- DDNS
- Static DHCP Leases Table
- DHCP Server Support

### Wireless Settings

- AP
- Bridge-Point to Point
- WDS-Repeater
- Universal Repeater
- Bridge-Point to Multipoint
- Station- Infrastructure

### Security

- Hardware WPS Button (Wi-Fi Protected Setup)
- 802.1x Authentication
- WEP
- WPA
- WPA RADIUS
- MAC Address Filtering
- Quality of Service (QoS)
- Schedule
- Virtual Server

### NAT

- Port Trigger
- Single Port Forwarding

- Port Range Forwarding
- UPnP
- Application Layer Gateway
- VPN Pass Through (IPSec/PPTP)

### Advance Features

- Access Control
- URL Blocking
- SPI Firewall
- DMZ, Multiple DMZ

### WAN Port

- 10/100M UTP Port x 1

### LAN Ports

- 10/100M UTP Port x 4

### Power

- 12VDC, 1A

### Temperature

- 10~40°C

### Humidity

- 10~90% (Non-Condensing)

### Certification

- FCC, CE

## Ordering Information:

**AirLive WN-301R**

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