150Mbps Wireless Router

SL-R6801 Series User Guide

I

1、Introduction

The 150Mbps Wireless-N Broadband Router is dedicated to Small Office/Home Office (SOHO) Wireless network solution. It is 4 in 1 network device, which combines wireless access point, firewall, 4-port Switch and the NAT-Router. It provides up to 150Mbps data transmission rate in 2.4GHz frequency, complies with IEEE 802.11n, IEEE 802.11g and IEEE802.11b and backwards compatible with all IEEE 802.11n/g/b devices. And the router
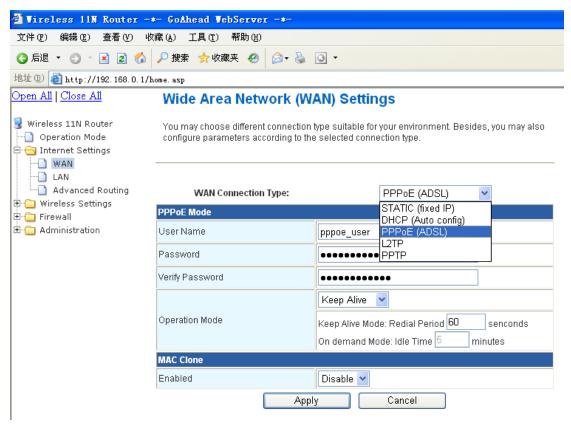
lso supports wireless LAN up to 128-bit WEP, WPA/WPA2 encryption security. The 150Mbps Wireless-N Broadband Router also provides WEB and Remote Management and system log so that network administrators can manage and monitor the network in real time. The 150Mbps Wireless-N Broadband Router also provides a hardware WPS (Wi-Fi protected setup) button, which helps you setup a secure wireless network in a snap. The button lets you activate the wireless protection easily
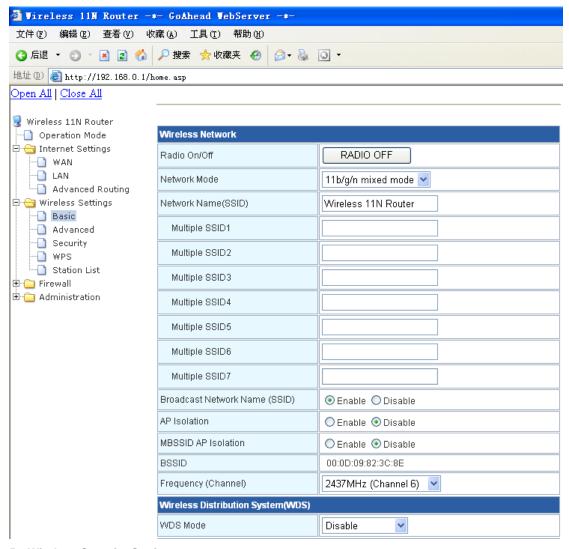
2、login

To access the Router's Web-based interface, launch a web browser such as Internet Explorer and enter the Router's default IP address, http://192.168.0.1. Press "Enter".   Input the "admin" in both User Name and Password. Click "OK".   User:"admin"   password:"admin"
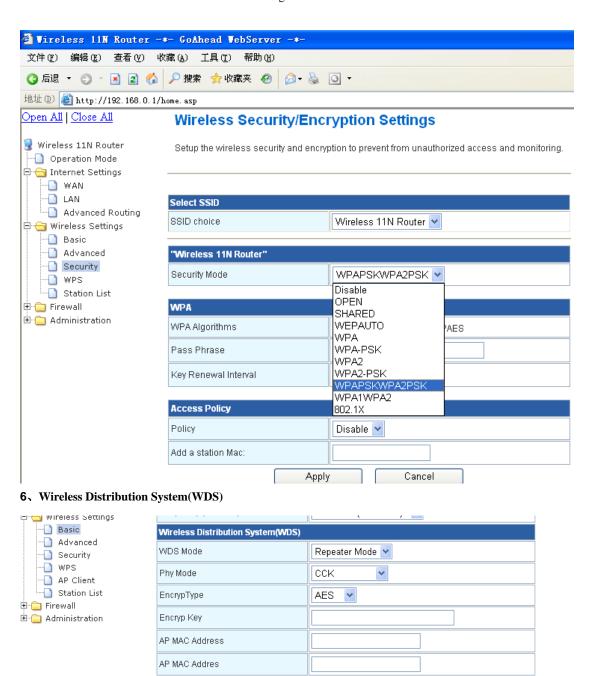

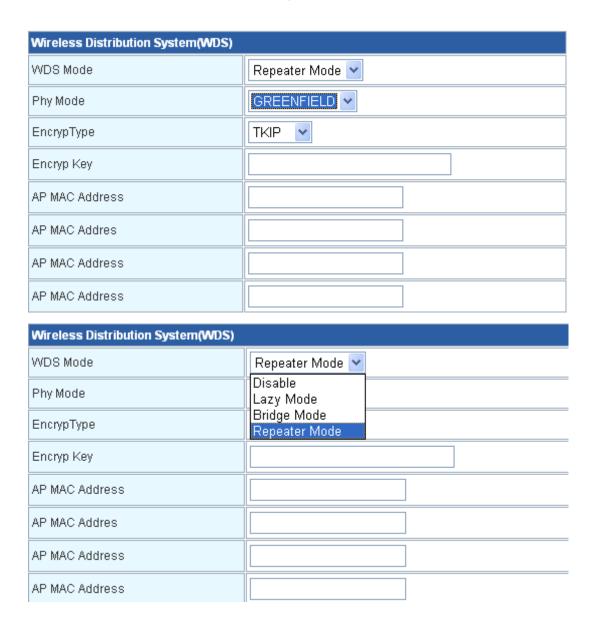### 3、 WAN Medium Type

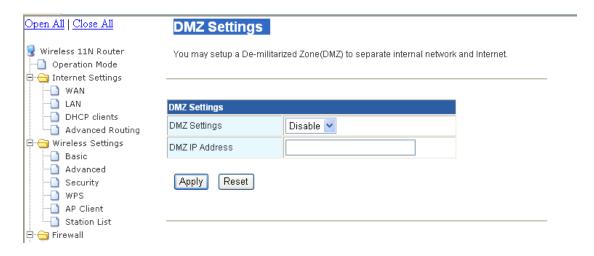**4、Wireless Basic Settings**

5、Wireless Security Setting

6、Wireless Distribution System(WDS)

Wireless Distribution System(WDS)

WDS Mode	Repeater Mode ∨
Phy Mode	GREENFIELD ∨
EncrypType	TKIP ∨
Encryp Key	
AP MAC Address	
AP MAC Addres	
AP MAC Address	
AP MAC Address	

Wireless Distribution System(WDS)

WDS Mode	Repeater Mode ∨
Phy Mode	Disable Lazy Mode Bridge Mode **Repeater Mode**
EncrypType	
Encryp Key	
AP MAC Address	
AP MAC Addres	
AP MAC Address	
AP MAC Address	

7、**DMZ Settings**

Open All | Close All

- Wireless 11N Router
  - Operation Mode
  - Internet Settings
    - WAN
    - LAN
    - DHCP clients
    - Advanced Routing
  - Wireless Settings
    - Basic
    - Advanced
    - Security
    - WPS
    - AP Client
    - Station List
  - Firewall

DMZ Settings

You may setup a De-militarized Zone(DMZ) to separate internal network and Internet.

DMZ Settings

DMZ Settings	Disable ∨
DMZ IP Address	

[Apply] [Reset]

一. Product features introduced

Ø wireless AP, routers, 4 port switches, firewall function four-in-one bucket ;

Ø Based on the latest IEEE802.11 n standards, compatibiliteIEEE802.11b IEEE802.11 g in back ward;

Ø increases 6 times covered distance than the original 802.11 g standard , and effectively reduc e coverage of the area's blind spots;

Ø offer over 3 times transmission rate than ordinary 802.11 g product

Ø support 64/128-bit data encryption.WEP, WPA, and WPA2 , WPA&WPA 2 mixed and so on ma ny kinds of encryption and security mechanism;

Ø support RTS/CTS protocol (request to send/allow send agreement), data subdivision function;

Ø provide 1 10/100M adaptive Ethernet (WAN) interface, and WAN connection;

Ø provide four 10/100M adaptive Ethernet (LAN) interface, and LAN connections;

Ø support XDSL/Cable MODEM, residential broadband fixed IP, dynamic IP of residential broadba nd access

Ø support MAC address filtering, IP address filtering, URL filtering;

Ø supports remote Web management, all Chinese configuration interface, simple way of Web upg rading

Ø using wireless Roaming (Roaming) technology, efficient wireless connection;

Ø support hidden wireless SSID function and based on the MAC address of access control (as many as 30 groups);

Ø support port automatic identification cross/direct （Auto MDI/MDIX）

Ø provide system security logs, can record routers use state;

Ø support IEEE802.11 b/IEEE802.11 g adaptive or manual settings mode;

Ø support universal plug and play (UPnP), DDNS function;

Ø support Firefox 1.0, IE5.5 and upgrade web browser;

Ø support banned LAN users to access the Internet;

Ø support simple network time protocol (SNTP);

Virtual server;

Ø support DMZ host;

Ø support WDS wireless network expansion;

Ø support broadband control function

二、introduction of Product Parameters

basic parameter	
System requirements	The cable with Ethernet port or DSL modems configured Computer :Windows XP SP2 or Windows 2000 SP4 or Mac OS X （v10.410.3） or based on Linux OS -Already installed Ethernet card - Internet Explorer 6 or Firefox 2.0 or higher
Internet Official Protocol Standards	IEEE 802.11n、IEEE 802.11g、IEEE 802.11b; IEEE 802.3、IEEE 802.3u、IEEE 802.3x
Wireless rate	300 Mbps
Wireless frequency range	2.4 GHz～2.4835 GHz
Connector （ Board inside）	•one 10/100M self-adaption RJ45 WAN port（Auto MDI/MDIX）; • four 10/100M self-adaption RJ45 LAN port（Auto MDI/MDIX）;
Button	WPS(1 Sec)/Reset(5 Sec)
LED	• PWR Power indication • WLAN status indication • LAN Link/Act indication
Power	supply input voltage range (VAC)：110V～240V Output voltage range (VDC): 12V==1A
Antenna	Detachable 5dBi antenna
Size (L×W×H)	130mm x 86.5mm x 18 mm
Wireless parameters	
Fundamental Function	• Wireless switch ； • SSID Radio switch； • channel selection：1～14； • Band bandwidth optional：20MHz、40MHz、； • Wireless mode optional：11n Only、11b/g/n Mixed、11b/g Mixed、11g Only、11b Only；

	• Launch adjustable power；
Work Pattern	• Bridge mode； • Gateway mode； • Ethernet Converter mode； • AP Client mode；
Power	19dBm （maximum）
EVM	-29dB
Accept Sensitivity	135M:-70dBm@10% PER;65M:-72dBm@10% PER; 54M:-75dBm@10% PER; 11M:-86dBm@10% PER; 13M: -85dBm@10% PER; 6M:-87dBm@10% PER;
Wireless Security	• Wireless MAC address filtering； • Wireless security function switch； • 64/128 WEP encryption； • WPA/WPA2、WPA-PSK/WPA2-PSK security mechanism；
Other Functions	• Support wireless roaming； • Radio host status display；
Cable function	
DHCP Settings	• DHCP server； • DHCP clients； • he client list； • static address assignment；
Port Forwarding	• virtual server； • special applications； • DMZ host； • UPnP Settings；
Security Settings	• IP and MAC address binding the ARP attack； • IP address filtering； • domain filtering； • MAC address filtering； • DoS attack prevention； • FLOOD attack prevention； • Ping control;
System Tools	• flow statistics； • system safety diary； • local Web management control； • remote Web management； • the configuration file introduction and export； • Web software upgrade；
Other	
Use environment	• working temperature：0℃～40℃ • storage temperature：-40℃～70℃ • working humidity：10%～90%RH no condensation •storage humidity：5%～90%RH no condensation

三．Software function profile

1. Wireless access

Support 54/48/36/24/18/12/9/6M or 11/5.5/2/1-m rate adaptive; Support 64/128/152 a WEP encryption; Support 802.1 X, WPA, IEEE TKIP, AES encryption and security mechanism etc; Support SSID broadcasting control and based on the MAC address of access control; Using wireless Roaming (Roaming) technology, efficient wireless connection;

2. Intelligent NAT (optional, routing mode use)

Support NAPT, NAT and routing mixed use, meet various complex network address planning. Support NAT static mapping and DMZ host, outward Telnet, provide WWW, FTP service etc; Support NAT Re - ccna and reverse NAT; Provide NAT ALG function, support FTP, IPSec ESP PPTP, such special application protocol.

3. Firewall function (optional, routing mode use)

Powerful defense internal/external attack ability, can effectively prevent the ARP deception, port scanning, DoS/DDoS and other network attacks, prevent shock wave, shock waves, SQL worms etc virus attack, maximum guarantee network stability and security.

Realized based on source/destination IP address, agreement, port, the source/purpose MAC address of packet filtering, based on the URL and keyword application layer filter, can according to time filtered. By using the filtering technology business management function, can not only control user Internet access and the Internet time, can protect the internal network from foreign attack.

4. User management (optional, routing mode use)

Provide the user personalized management function, realization by the 100 percent of the on-demand customization. In view of the user's actual demand, each machine internal hosts are can take different strategy (can be a PC can use limited bandwidth, NAT session number, whether to ban QQ, MSN, P2P, etc), solve the traditional division management enough flexible problem. This function can not only greatly strengthen management flexibility, and to a certain extent, reduce administrator's workload.

Support IP/MAC address binding, filter illegal IP or MAC address, also support the IP/MAC address all binding function, just a key operate, can one-time will all dynamic IP/MAC address to all bound, and can effectively prevent the LAN host ARP deception attacked suffer.

5. Network monitor (optional, routing mode use)

Offers a variety of monitoring and diagnosis method, the dynamic monitoring network movement situation, user Internet behavior, help the website operators quickly positioning and eliminate network fault, especially to real-time found network anomalies and the anomalous host, such as infection virus or attack mainframe.

Website operators through the real-time monitoring CPU utilization, memory utilization, NAT table, and other key system resources, can in time found potential of various attacks; Through the real-time view each interface bandwidth, check each user's upload/download bandwidth and NAT session number, view the upload/download bandwidth list and NAT session number list, can quickly locate speeds slower, card

and other network anomalies.

6. Allocation and management (optional, routing mode use)

Provide friendly all Chinese WEB interface, intuitive easy-using, function are rich; While still providing traditional CLI interface, function more enrichment; And, two ways are supported through the Internet for under simple, safe and remote management.

Support the configuration file backup and import, but will the current configuration file save to manage the computer, may also will backup configuration files payload to AP, save the time repeat configuration; Support WEB of upgrades, convenient and function expansion

FCC warning statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

· Reorient or relocate the receiving antenna.

· Increase the separation between the equipment and receiver.

· Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

· Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

FCC RF Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

"To comply with FCC RF exposure compliance requirements, this grant is applicable to only Mobile Configurations. The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter."