

DSL-N12E11n Wireless Router



User Manual

E7256 Second Edition March 2012

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About this guide

This user guide contains information that you need to install and configure the ASUS Wireless Router.

How this guide is organized

This guide contains the following parts:

Chapter 1: Knowing your wireless router

This chapter provides information on the package contents, system requirements, hardware features, and LED indicators of the ASUS Wireless Router.

· Chapter 2: Getting started

This chapter provides instructions on accessing the router's web GUI and quickly setting up the Internet connection via the Quick Internet Setup (QIS) function.

· Chapter 3: Configuring the network clients

This chapter provides instructions on setting up the clients in your network to work with your ASUS Wireless Router.

Chapter 4: Configuring via the web GUI

This chapter provides instructions on configuring the ASUS Wireless Router's Internet service settings, advanced settings, administration settings, diagnostic settings, and your router's working status.

· Chapter 5: Troubleshooting

This chapter provides you with a troubleshooting guide for solving common problems you may encounter when using the ASUS Wireless Router.

Appendices

This chapter provides you with the regulatory Notices and Safety Statements.

Conventions used in this guide



WARNING: Information to prevent injury to yourself when trying to complete a task.



CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Instructions that you MUST follow to complete a task.



NOTE: Tips and additional information to aid in completing a task.



Package contents

Check the following items in your ASUS Wireless Router package.

- DSI -N12F Wireless Router x1
- ✓ External splitter x1
- ✓ Power adapter x1
- ☑ RJ11 cable x2
- ✓ Support CD x1
- ✓ RJ45 cable x1
- Quick Start Guide x1



Note: If any of the items is damaged or missing, contact your retailer.

System requirements

Before installing the ASUS Wireless Router, ensure that your system/network meets the following requirements:

- An Ethernet RJ-45 port (10Base-T/100Base-TX)
- At least one IEEE 802.11b/g/n device with wireless capability
- An installed TCP/IP and Internet browser
- Operating system: Windows98®SE and higher

Before you proceed

Take note of the following guidelines before installing the ASUS Wireless Router:

- The length of the Ethernet cable that connects the device to the network (hub, ADSL/cable modem, router, wall patch) must not exceed 100 meters.
- Place the device on a flat and stable surface as far from the ground as possible.
- Keep the device clear from metal obstructions and away from direct sunlight.

- Keep the device away from transformers, heavy-duty motors, fluorescent lights, microwave ovens, refrigerators, and other industrial equipment to prevent signal loss.
- Install the device in a central area to provide ideal coverage for all wireless mobile devices.
- Install the device at least 20cm from a person to insure that the product is operated in accordance with the RF Guidelines for Human Exposure adopted by the Federal Communications Commission.

Hardware features

Top panel

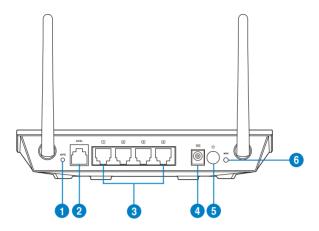


LED	Status	Indication
O	Off	No power
	On	Power on
ADSL	Slow Flash	No signal detected
	Fast Flash	The device is synchronizing with the DSL device
	On	The device is connected to the DSL device.

Status indicators

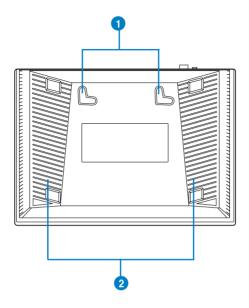
LED	Status	Indication
Ø	Off	No connection or in bridge mode.
	Flashing	Internet data is transmitted in the routing mode.
	On	The Internet connection is normal in the routing mode and no Internet data is being transmitted.
12	Off	No power or no physical connection
	On	Has physical connection to an Ethernet network.
	Flashing	Transmitting or receiving data (through Ethernet cable)
((<u>^</u>))	Off	Inactive WLAN connection
	On	Active WLAN connection
	Flashing	Transmitting data through the WLAN interface
WPS	Off	Inactive WPS connection
	On	WPS connection is successful
	Flashing	WPS is active and the wireless router is waiting for the client to successfully connect to it.

Rear panel



Item	Description
0	WPS button Press this button for more than five seconds to enable the WPS function. Note: If you press the button for one to five seconds, no function takes effect.
2	ADSL port Connect an RJ-11 telephone cable to this port or a splitter connected from this port.
3	LAN 1 ~ 4 ports Connect RJ-45 Ethernet cables to these ports to establish LAN connection.
4	Power (DC-In) port Insert the AC adapter into this port to connect your router to a power source.
5	Power switch Press this button to turn the power on/off.
6	Reset button Using a pointed blunt object, press this button for more than one second to reset the system to its factory default settings.

Bottom panel



Item	Description
0	Mounting hooks Use the mounting hooks to mount your router on concrete or wooden surfaces using two round head screws.
2	Air vents These vents provide ventilation to your router.



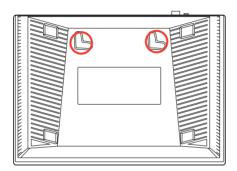
Note: For details on mounting your router on a wall or ceiling, refer to the section **Mounting options** on the next page of this user manual.

Mounting options

The ASUS Wireless Router is designed to sit on a raised flat surface like a file cabinet or book shelf. The unit may also be converted for mounting to a wall or ceiling.

To mount the ASUS Wireless Router:

- 1. Look on the underside for the two mounting hooks.
- 2. Mark two upper holes on a flat surface.
- 3. Tighten two screws until only 1/4" is showing.
- 4. Latch the hooks of the ASUS Wireless Router onto the screws.





Note: Re-adjust the screws if you cannot latch the ASUS Wireless Router onto it or if it is too loose.



Setting up the wireless router

The ASUS Wireless Router includes a web graphics user interface (web GUI) that allows you to configure the wireless router using your web browser on your computer.



Note: For details on configuring your wireless router using the web GUI, refer to Chapter 4: Configuring via the web GUI.

Accessing the router's web GUI

To access the router's web GUI:

- 1. In your web browser, key in http://192.168.1.1.
- Key in the user name and password. You may choose to log in as administrator (user name/password: admin) or as an ordinary user (user name/password: user/user).





Note: When you log in as the administrator, the Quick Internet Setup (QIS) Wizard is displayed. For details about the QIS Wizard, refer to the next section **Using the Quick Internet Setup** (QIS).

Using the Quick Internet Setup (QIS)

The Quick Internet Setup (QIS) function guides you in quickly setting up your Internet connection.



Important: Obtain the necessary information about your Internet connection type from your ISP.

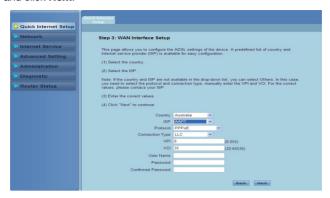
- 1. Click Quick Internet Setup.
- In Step 1: Web Account Setup page, key in the necessary information and click Next.



 In Step 2: Time Zone Setup page, tick Enable to enable the NTP function, and key in the necessary information. Click Next.



 In Step 3: WAN Interface Setup page, fill in the necessary information, and click Next.



 In Step 4: WLAN Interface Setup page, set up the parameter for your WLAN network.

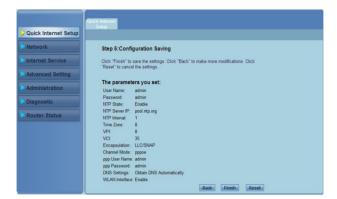




Notes:

- Do not include quotation marks (" or ') in your SSID or use spaces as the start of your SSID.
- For WPA pre-shared key and WEP key settings, neither use quotation marks (" or '), angle brackets (>), square brackets (j) and spaces as the start of your key nor use two spaces in between.

 In Step 5: Configuration Saving page, click Finish to save the configuration settings. Click Back to modify the settings. Click Reset to cancel the settings.





Managing your network clients

To manage your network clients to your ASUS Wireless Router, you must have the correct parameters for wireless, LAN, and WAN connection types. Ensure that the clients' IP addresses are within the same subnet as the ASUS Wireless Router.

By default, the ASUS Wireless Router integrates the DHCP server function that automatically assigns the IP addresses to the clients in your network. You may also manually assign the static IP addresses to selected clients in your network.



Note: ASUS recommends the following settings in establishing a manually assigned IP addresses to your client in the Router mode:

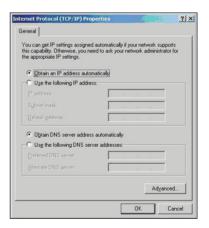
- IP address: 192.168.1.xxx (xxx can be any number between 2 and 254. Ensure that the IP address is not used by another device)
- · Subnet Mask: 255.255.255.0 (same as the ASUS Wireless Router)
- · Gateway: 192.168.1.1 (IP address of the ASUS Wireless Router)
- DNS: 192.168.1.1 (ASUS Wireless Router) or assign a known DNS server in your network

Windows® 2000

 Click Start > Control Panel >
 Network and Dial-up Connection.
 Right-click Local Area Connection,
 then click Properties.



- Select Internet Protocol (TCP/IP), then click Properties.
- Select Obtain an IP address automatically if you want the IP settings to be assigned automatically. Otherwise, select Use the following IP address: and key in IP address, Subnet mask, and Default gateway.
- Select Obtain DNS server address automatically if you want the DNS server settings to be assigned automatically. Otherwise, select Use the following DNS server addresses: and key in the Preferred and Alternate DNS server
- 5. Click **OK** when done.



Windows® XP

 Click Start > Control Panel >
 Network Connection. Right-click
 Local Area Connection, then
 select Properties.

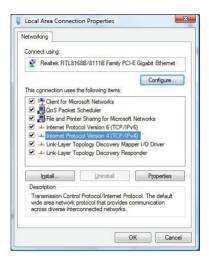


- Select Internet Protocol (TCP/IP), then click Properties.
- Select Obtain an IP address automatically if you want the IP settings to be assigned automatically. Otherwise, select Use the following IP address: and key in IP address, Subnet mask, and Default gateway.
- Select Obtain DNS server address automatically if you want the DNS server settings to be assigned automatically. Otherwise, select Use the following DNS server addresses: and key in the Preferred and Alternate DNS server.
- 5. Click OK when done.



Windows® Vista/7

 Click Start > Control Panel >
 Network and Internet > Network
 and Sharing Center. Click View
 status > Properties > Continue.



- Select Internet Protocol Version 4 (TCP/IPv4), then click Properties.
- Select Obtain an IP address automatically if you want the IP settings to be assigned automatically. Otherwise, select Use the following IP address: and key in IP address and Subnet mask.
- Select Obtain DNS server address automatically if you want the DNS server settings to be assigned automatically. Otherwise, select Use the following DNS server addresses: and key in the Preferred and Alternate DNS server.
- 5. Click OK when done.



Configuring via the web GUI

Configuring the network settings

The Network page allows you to configure the settings of these three network types: **Wireless**, **LAN**, and **WAN**.

Configuring the wireless network settings

The Wireless page allows you to configure the wireless settings.

Configuring the basic wireless network settings



To configure the wireless network settings:

- Click Network > Wireless tab.
- In the Basic Setting page, key in the necessary information to configure the parameters for your wireless network. Tick Disable Wireless LAN Interface to disable the WLAN interface.
- Click Apply Changes to apply the settings made.



Notes:

- · To display the active clients connected to your wireless network, click Show Active Clients.
- Do not include quotation marks (" or ') in your SSID or use spaces as the start of your SSID.
- · Clicking the Refresh button of your browser will direct you to the QIS page.

Configuring the security settings

The Security page allows you to configure the security settings to protect your wireless network from unauthorized access.



To configure the security settings:

- 1. Click Network > Wireless tab > Security.
- In the Wireless Security Setup screen, select a SSID, its encryption method and fill in its authentication settings.
- 3. Click **Apply Changes** to apply the settings made.



Note: For WPA pre-shared key and WEP key settings, neither use quotation marks (" or '), angle brackets (>), square brackets (j) and spaces as the start of your key nor use two spaces in between.

Controlling access to your wireless network

The Access Control page allows you to allow or deny specific clients from accessing your wireless network.



To control access to your wireless network:

- 1. Click Network > Wireless tab > Access Control.
- 2. In the Wireless Access Control Mode field, select the access control type.
- In the MAC Address field, key in the client's MAC address and click Add to add it to the control list.
- 4. Click **Apply Changes** to apply the settings made.

Configuring the multi-SSID settings

The Multi-SSID page allows you to enable or disable a virtual access point (VAP) and set up its SSID and authentication type.



To configure the multi-SSID settings:

- Click Network > Wireless tab > Multi-SSID.
- 2. Tick Enable VAPX to enable a VAP.
- 3. In the **SSID** filed, key in the SSID you want to use.
- Select the Authentication type, and select Enable or Disable to enable or disable SSID broadcast and Relay Blocking.
- 5. Click **Apply Changes** to apply the settings made.



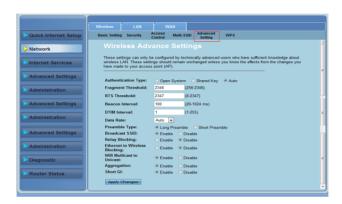
Note: To change the authentication configuration for each SSID, go to the **Security** tab for details.

Configuring the wireless advanced settings

The Advanced Setting page allows you to configure the advanced settings for your wireless network.



Important: Configure the advanced settings only if you have sufficient knowledge about wireless networking. If you are not an experienced or knowledgeable user, we recommend that you keep the default values.



To configure the wireless advanced settings:

- Click Network > Wireless tab > Advanced Setting.
- In the Wireless Advanced Settings screen, select the Authentication type, fill
 in the threshold and interval settings, select the data rate and preamble type,
 and select Enable or Disable to enable or disable certain wireless functions.
- 3. Click **Apply Changes** to apply the settings made.

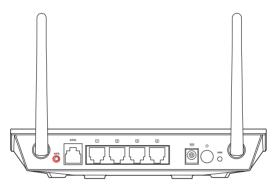
Setting up the Wi-Fi Protected Setup (WPS)

WPS (Wi-Fi Protected Setup) allows you to set up a secure and protected wireless network easily.



Notes: Ensure that you use a wireless LAN adapter with WPS function.

To set up the WPS:



1. Press the WPS button on your router.



- Click Network > Wireless tab >WPS.
- Press the WPS button on the wireless LAN card and click Start PBC.
 You may also choose to key in the wireless LAN card's PIN code, then click Start PIN.



Note: Refer to the documentation that came with the wireless LAN card for the wireless LAN card's PIN code.

Configuring the local area network (LAN) settings

The LAN page allows you to configure your local area network (LAN) settings.

Configuring the LAN IP settings

The LAN IP Interface Setup page allows you to configure the interface of your local area network

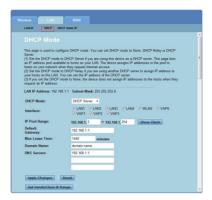


To configure the LAN settings:

- Click Network > LAN tab > LAN IP. In the LAN Interface Setup screen, key in the Interface Name, IP Address, and Subnet Mask.
- 2. Click **Apply Changes** to apply the settings made.

Configuring the DHCP settings

The DHCP Mode page allows you to configure the DHCP settings.



To configure the DHCP settings:

- 1. Click Network > LAN tab > DHCP.
- In the **DHCP Mode** dropdown list, select None, DHCP Relay, or DHCP Server
- 3. In the **Interface** field, select the port you want to use.
- 4. In the **IP Pool Range** field, key in the range of IP addresses that you want to use
- Key in the Default Gateway, Max Lease Time, Domain Name, and DNS Server address.
- 6. Click **Apply Changes** to apply the settings made.

Configuring the DHCP static IP settings

The DHCP Static IP Configuration page allows you to assign the IP addresses on the LAN to a specific individual PCs based on the MAC addresses.



To configure the DHCP Static IP settings:

- 1. Click Network > LAN tab > DHCP Static IP.
- In the IP Address field, key in the specified IP address within the IP pool range which is assigned to the host.
- 3. In the MAC Address field, key in the MAC address of the host on the LAN.
- Click Add to add the IP address and MAC address to the DHCP Static IP Table.
- To delete an entry of MAC address and IP address, tick the selected entry from the **DHCP Static IP Table**, and click **Delete Selected**.

Configuring the wide area network (WAN) settings

The WAN page allows you to configure your wide area network (WAN) settings.

Configuring the WAN channel

The Channel Configuration page allows you to configure the Internet settings in WAN channel.



To configure the WAN settings:

- Click Network > WAN tab > WAN.
- 2. In the **Default Route Selection** field, select **Auto** or **Specified**.
- In the VPI field, key in the virtual path values for the asynchronous transfer mode ranging from 0 to 255.
- 4. In the **VCI** field, key in the virtual channel values for the asynchronous transfer mode ranging from 32 to 65535.
- 5. In the **Encapsulation** dropdown list, select **LLC** or **VC-Mux**.
- In the Channel Mode dropdown list, select 1483 Bridged, 1483 MER, PPPoE, PPPoA. 1483 Routed. or IPoA.
- 7. Tick **Enable NAPT** to enable Network Address Port Translation function. Tick **Enable IGMP** to enable Internet Group Management Protocol function.

To configure the PPP settings:

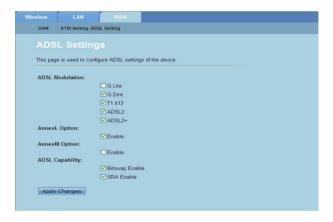
- In the User Name and Password fields, key in a user name and password provided by your ISP.
- In the Type dropdown list, you can select Continuous, Connect on Demand, or Manual.
- In selecting the Connect on Demand type, key in the idle amount time in Idle Time (min) field to automatically disconnect the PPPoE connection.

To configure the WAN IP settings:

- 1. In the Type dropdown list, you can select Fixed IP or DHCP.
- In the Local IP Address field, key in the IP address of the WAN interface provided by your ISP.
- 3. In the **Netmask** field, key in the subnet mask of the local IP address. Tick **Unnumbered** to enable the IP unnumbered function.
- 4. Click Add to add the configured parameters into the Current ATM VC Table.
- To modify the parameters on this page, select from the Current ATM VC
 Table, and modify the parameters. After modifying, click Modify to apply the settings to the PVC.

Configuring the ADSL Settings

The ADSL Settings page allows you to configure the ADSL settings.



To configure the ADSL settings:

- 1. Click Network > WAN tab > ADSL Setting.
- 2. Select the options that you want to apply.
- 3. Click **Apply Changes** to apply the settings made.

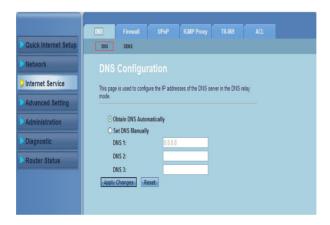
Configuring the Internet service settings

The Internet Service function allows you to configure the following Internet service settings: DNS, Firewall, UPnP, IGMP, Proxy, TR-069, and ACL.

- Click Internet Service.
- Click the tabs of the following Internet service configuration: DNS, Firewall, UPnP, IGMP Proxy, TR-069 and ACL.

Configuring the DNS settings

The DNS (Domain Name System) page allows you to automatically obtain the DNS server address from the DHCP server or manually assign an IP address for the DNS server.



To configure the DNS settings:

- Click Internet Service > DNS tab > DNS.
- Select Obtain DNS Automatically or Set DNS Manually, key in the IP address that you want to assign to the DNS server.
- 3. Click **Apply Changes** to save the settings made.

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Configuring the DDNS Settings

The DDNS (Dynamic DNS) page allows you to configure the DDNS settings from DDNS providers DynDNS or TZO.



To configure the DDNS settings:

- Click Internet Service > DNS tab > DDNS.
- 2. In the DDNS provider dropdown list, select the DDNS provider.
- 3. In the **Host Name** field, assign the DDNS host name.
- 4. In the **Interface** dropdown list, select the Internet connection type.
- 5. Key in the user name and password for the DDNS provider.
- 6. Click **Add** to add the DDNS settings to the DNS table.

Configure the firewall settings

The Firewall page allows you to configure the security settings for your wireless network.

Configure the IP/Port filter settings

The IP/Port Filter page allows you to restrict certain types of outgoing or incoming Internet data packets from or to your network.



To configure the IP/port filter settings:

- Click Internet Service > Firewall tab > IP/Port Filter.
- 2. Select the Rule Action as Permit or Denv.
- 3. In the **Protocol** dropdown list, select the protocol type.
- In the Direction field, select Upstream (outgoing data packets) or Downstream (incoming data packets).
- In the Source IP Address field, key in the IP address where the data packets will be coming from.
- 6. In the **Destination IP Address** field, key in the IP addresses where the data packages will be transferred to.
- 7. In the **Subnet Mask** fields, key in the subnet mask addresses for both the source and destination IP addresses.
- 8. Key in the source and destination ports.
- 9. Tick Enable.
- Click Apply Changes to apply the settings made. Click Reset to cancel the filter settings. Click Help for more information on configuring the filter settings.



Note: If you want to restrict access to all outgoing or incoming Internet data packets, select Permit or Deny in the Outgoing Action or Incoming Default Action fields.

Configure the MAC filter settings

The MAC Filter page allows you to restrict certain types of outgoing or incoming data packets from or to network clients based on their MAC addresses.



To configure the MAC filter settings:

- Click Internet Service > Firewall tab > MAC Filter.
- In the Direction field, select Outgoing or Incoming.
- In the Source MAC address field, key in the MAC address of the network client where the data packets will be coming from.
- In the **Destination MAC address** field, key in the MAC address of the network client where the data packets will be going to.
- 5. Click **Add** to add the MAC filter settings to the **Current MAC Filter table**.



Note: If you want to restrict access to all outgoing or incoming data packets from or to network clients, select Deny or Allow in the Outgoing Default Policy or Incoming Default Policy field.

Configure the URL Blocking settings

The URL Blocking page allows you to block certain websites or online contents based on specific keywords.



To configure the keyword filter settings:

- 1. Click Internet Service > Firewall tab > URL Blocking.
- 2. In the URL Blocking Capacity field, click Disable or Enable.
- 3. In the **Keyword** field, enter the keyword that you want to block.
- 4. Click **Add Keyword** to add the keyword to the **URL Blocking Table**.

Configuring the NAT Exclude IP settings

The NAT Exclude IP page allows you to configure the IP range to be excluded from your router's NAT pool.

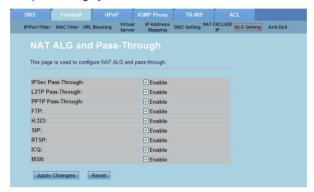


To configure the NAT Exclude IP settings:

- Click Internet Service > Firewall tab > NAT EXCLUDE IP.
- In the IP Range field, key in the IP range that you want to exclude from your router's NAT pool.
- 3. Click **Apply Changes** to save the settings made.

Configuring the ALG settings

The NAT ALG and Passthrough page allows you to allow certain protocols or applications to pass through your network's firewall.



To configure the ALG settings:

- Click Internet Service > Firewall tab > ALG Setting.
- 2. Select the protocols or applications that you want to enable.
- 3. Click Apply Changes to save the settings made.

Configuring the UPnP settings

The UPnP (Universal Plug and Play) Configuration page allows you to access the media of the UPnP devices found in your network.



To configure the UPnP settings:

- 1. Click Internet Service > UPnP tab.
- 2. In the **UPnP** field, tick **Enable** to enable UPnP connection.
- In the WAN Interface dropdown list, choose a network protocol group to enable the UPnP connection.
- 4. Click **Apply Changes** to save the settings.

Configuring the IGMP Configuration settings

The IGMP (Internet Group Management Protocol) Proxy Configuration page allows you to configure the amount of IPTV packets that can be received through a proxy.



To configure the IGMP settings:

- Click Internet Service > IGMP Proxy tab.
- 2. Tick Enable in IGMP Proxy and Multicast Allowed options.
- In the Robust Count and Last Member Query Count fields, key in their variables. The default values are 2 and 1 respectively.
- In the Query Interval field, key in the amount of time in seconds between IGMP general query messages sent by the router. The default value is 125 seconds.
- In the Query Response Interval field, key in the maximum time value that the IGMP waits to receive a response to a general query message. The default value is 10 seconds.
- 6. In the **Group Leave Delay** field, key in the time value in milliseconds.
- 7. Click **Apply Changes** to save the settings.

Configuring the advanced settings

The Advanced Setting page allows you to configure your ASUS Wireless Router's advanced settings such as Bridge Setting, Routing, Port Mapping, QoS, SNMP, and other miscellaneous settings.



NOTE: Configure the Advanced settings only if you are an experienced user and has vast knowledge about networking.



Configuring the administration settings

The Administration page allows you to restore the wireless router to its default or to its saved configuration settings, upgrade the firmware, view the system logs, create, edit, or delete user accounts, and configure the system settings.

Restoring the wireless router's settings

The Commit/Reboot page allows you to restore the wireless router to its default settings or to a previously saved configuration settings.



To configure the Commit/Reboot settings:

- Click Administration > Commit/Reboot tab.
- In the Reboot from dropdown list, you can save the current configuration
 or restore back to its default setting by selecting from the options Save the
 current configuration or Restore to the factory default configuration.
- Click Reboot to load the selected configuration and reboot the router's system.

Upgrading the firmware

The Upgrade Firmware page allows you to upgrade the wireless router's firmware version



NOTE: Download the latest firmware from the ASUS Support site at http://support.asus.com.



To upgrade the firmware:

- 1. Click Administration > Upgrade tab > Upgrade Firmware.
- In the Select File field, click Browse to locate the new firmware file on your computer.
- 3. Click **Upload**. Wait for a few minutes for the uploading process to complete.

Backing up/Restoring the settings

The Backup/Restore Settings page allows you to backup or save the configuration settings to a file in your preferred path and to restore the wireless router's settings using the saved configuration file.



To backup the settings:

- 1. Click Administration > Upgrade tab > Backup/Restore.
- In the Save Settings to File field, click Save to save the configuration settings to your preferred path.

To restore the settings:

- Click Administration > Upgrade tab > Backup/Restore.
- In the Load Settings from File field, click Browse to locate the saved configuration file.

Configuring the System Logs

The Log Setting page allows you to enable or disable the system log function and view the system logs.



Note: You can tick both boxes to view the system logs in the Events Log Table.



To configure the system log settings:

- 1. Click Administration > System Log tab.
- Check the **Error** and **Notice** boxes to view the system event logs. 2.
- 3. Click Apply Changes. The log information (Error and Notice logs) will be shown in the Events Log Table.
- Click **Save Log to File** to save a copy of logs information to your local drive. 4.
- Click Clear Log Table to clear the system logs from the table. 5.

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Configuring the user account settings

The User Account Configuration page allows you to create, modify, or delete user accounts.



To add a user account:

- 1. Click Administration > Password tab.
- 2. In the **User Name** field, key in the desired user name.
- In the Privilege dropdown list, select the privilege type: Root or User.
- 4. Key in your password to the **New Password** and **Confirm Password** fields.
- 5. Click Add to add your new account to the User Account Table.

To modify a user account:

- Click Administration > Password tab.
- 2. In the User Account Table, tick the user account to be modified.
- 3. Key in your old password in the **Old Password** field.
- 4. Key in your password to the **New Password** and **Confirm Password** fields.
- 5. Click **Modify** to modify the selected user account.



NOTE: You can only modify the user account's new password.

To delete a user account:

- Click Administration > Password tab.
- 2. In the User Account Table, tick the user account to be deleted.
- Click Delete to delete the user account from the User Account Table.

Configuring the system time settings

The System Time Configuration page allows you to configure the system time manually or obtain the system time automatically from the time server.



To configure the system time manually:

- Click Administration > Time Zone tab.
- 2. In the **System Time** field, key in the necessary information.
- 3. Click **Apply Changes** to save the settings made.

To obtain the system time automatically:

- 1. Click Administration > Time Zone tab.
- In the State field under NTP Configuration, tick Enable to enable the 2. Network Time Protocol (NTP) function.
- Key in the necessary information. 3.
- 4. Click **Apply Changes** to save the settings made.

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Configuring the diagnostic settings

The Diagnostic page allows you to detect, isolate, and troubleshoot problems with your network.



Checking your wireless router's status and basic settings

The Router Status page allows you to view the current status of your wireless router, the connection status, and the system logs.

Click the tabs to view these information:

System tab

The **System Status** page displays the current status and some basic settings of the wireless router such as software version, DSP version, uptime. upstream speed, and downstream speed.

LAN tab

The **LAN Status** page displays some basin LAN settings of the wireless router, the LAN IP address, DHCP server status, MAC address and DHCP table.

· Wireless tab

The **WLAN Status** page displays the basic settings and status of wireless LAN (WLAN).

WAN tab

The **WAN** page displays the basic status of WAN and DNS server of the router.

Port Mapping tab

The **Port Mapping** page displays the relationship and status of port mapping.

Statistics tab

The **ADSL Statistics** page shows the status of ADSL line, upstream rate, downstream rate, and other information.

ARP Table tab

The **ARP Table** page shows the IP addresses and their corresponding MAC addresses.



Troubleshooting

This troubleshooting guide provides solutions to some common problems that you may encounter while installing or using the ASUS Wireless Router. These problems require simple troubleshooting that you can perform by yourself. Contact the ASUS Technical Support if you encounter problems not mentioned in this chapter.

Problem	Action
The client cannot establish a wireless connection with the router.	Out of Range: Put the router closer to the wireless client. Try to change the channel settings. Authentication:
	 Use wired connection to connect to the router. Check the wireless security settings. Press the Restore button at the rear panel for more than five seconds.
	Cannot find the router: Insert a needle inside the Reset hole at the
	 Insert a needle inside the Reset hole at the rear panel for more than five seconds. Check the setting in the wireless adapter such as SSID and encryption settings.

Problem	Action	
Cannot access the Internet via wireless LAN adapter.	 Move the router closer to the wireless client. Check whether the wireless adapter is connected to the correct wireless router. Check whether the wireless channel in use conforms to the channels available in your country/area. Check the encryption settings. Check if the ADSL or Cable connection is correct. Retry using another Ethernet cable. 	
Internet is not accessible.	Check the status indicators on the ADSL modem and the wireless router. Check if the WAN LED on the wireless router is ON. If the LED is not ON, change the cable and try again.	
When ADSL Modem "Link" light is ON (not blinking), this means Internet Access is possible.	 Restart your computer. Refer to the Quick Start Guide of the wireless router and re-configure the settings. Check if the WAN LED on the wireless router is ON. Check the wireless encryption settings. Check if the computer can get the IP address (via both wired network and wireless network). Ensure that your web browser is configured to use the local LAN, and is not configured to use a proxy server. 	
If the ADSL "LINK" light blinks continuously or stays off, Internet access is not possible - the Router is unable to establish a connection with the ADSL network.	 Ensure that all your cables are all properly connected. Disconnect the power cord from the ADSL or cable modem, wait a few minutes, then reconnect the cord. If the ADSL light continues to blink or stays OFF, contact your ADSL service provider. 	
Network name or encryption keys are forgotten.	 Try setting up the wired connection and configuring the wireless encryption again. Insert a needle in the Reset hole at the rear panel of the wireless router for more than five seconds. 	

Problem	Action		
How to restore the system to its default settings?	 Insert a needle into the Reset hole at the rear panel of the wireless router for more than five seconds. 		
	 Refer to the section Backing up/Restoring the settings in Chapter 4 of this user manual. 		
	The following are the factory default settings:		
	User Name: admin Password: admin		
	Enable DHCP: Yes (if WAN cable is plugged in)		
	IP address: 192.168.1.1		
	Domain Name: (Blank)		
	Subnet Mask: 255.255.255.0		
	DNS Server 1: 192.168.1.1		
	DNS Server 2: (Blank)		
	SSID: ASUS		

Appendices

Notices

For the following equipment: DSL-N12E



Is herewith confirmed to comply with the requirements setout in the Council Directive on the Approximation of the Laws of the MemberStates relating to Electromagnetic Compatibility (2004/108/EC), Low-voltageDirective (2006/95/EC) and R&TTE (1999/5/EC). The equipment was passed The test was performed according to thefollowing European standards:

ETSI EN 301 489-17 V2.1.1: 2009 ETSI EN 301 489-1 V1.8.1: 2008 ETSI EN 300 328 V1.7.1: 2006

EN 62311: 2008

EN 60950-1:2006/A11:2009/A1:2010

ASUS Recycling/Takeback Services

ASUS recycling and takeback programs come from our commitment to the highest standards for protecting our environment. We believe in providing solutions for you to be able to responsibly recycle our products, batteries, other components, as well as the packaging materials. Please go to http://csr.asus.com/english/Takeback.htm for the detailed recycling information in different regions.

REACH

Complying with the REACH (Registration, Evaluation, Authorisation, and Restriction of Chemicals) regulatory framework, we published the chemical substances in our products at ASUS REACH website at http://csr.asus.com/english/REACH.htm

Federal Communications Commission Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

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.



Warning: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Prohibition of Co-location

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Safety Information

To maintain compliance with FCC's RF exposure guidelines, this equipment should be installed and operated with minimum distance 20cm between the radiator and your body. Use on the supplied antenna.

Declaration of Conformity for R&TTE directive 1999/5/EC

Essential requirements - Article 3

Protection requirements for health and safety – Article 3.1a

Testing for electric safety according to EN 60950-1 has been conducted. These are considered relevant and sufficient.

Protection requirements for electromagnetic compatibility - Article 3.1b

Testing for electromagnetic compatibility according to EN 301 489-1 and EN 301 489-17 has been conducted. These are considered relevant and sufficient.

Effective use of the radio spectrum – Article 3.2

Testing for radio test suites according to EN 300 328- 2 has been conducted. These are considered relevant and sufficient.

CE Mark Warning

This is a Class B product, in a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

Operation Channels: Ch1~11 for N. America, Ch1~14 Japan, Ch1~13 Europe (ETSI)

IC Warning

The Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulation.

Cet appareil numerique de la class B respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

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Safety Warning

SAFE TEMP: This wireless router should be only used in environments with ambient temperatures between 5°C(41°F) and 40°C(104°F).

 $\ensuremath{\mathsf{DO}}$ NOT expose to or use near liquids, rain, or moisture. $\ensuremath{\mathsf{DO}}$ NOT use the modem during electrical storms.

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^{*} EUR 0.14/minute from a German fixed landline; EUR 0.42/minute from a mobile phone.

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