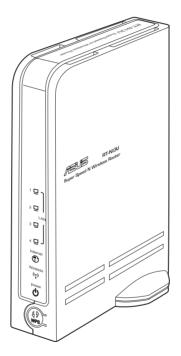


# RT-N13U ASUS Wireless N Router with All-in-One Printer Server



# **User Manual**

E5145 Second Edition V2 May 2010

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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 setting up the Router, Repeater, and Access Point modes of the ASUS Wireless Router.

### 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 using its web graphics user interface (web GUI).

### · Chapter 5: Installing the utilities

This chapter provides information on the utilities that are available from the support CD.

### Chapter 6: 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.

# Knowing your wireless router

# **Package contents**

Check the following items in your ASUS Wireless Router package.

- RT-N13U Wireless Router
- Power adapter
- Support CD (manual, utilities)
- RJ45 cable
- Quick Start Guide

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-	

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

# 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.

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 Install the device at least 20cm from a person to ensure that the product is operated in accordance with the RF Guidelines for Human Exposure adopted by the Federal Communications Commission.

# Hardware features

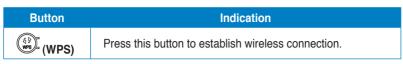
**Front panel** 



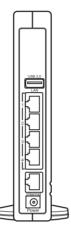
### **Status indicators**

LED	Status	Indication
(Power)	Off	No power / USB disk initializing
	On	System ready
	Flashing-slow	Rescue mode / Restored to the factory default settings
	Flashing-quick	WPS processing
(i i) (Wireless)	Off	No power
. (	On	Wireless system ready
	Flashing	Transmitting or receiving data (wireless)
🗆 LAN 1-4	Off	No power or no physical connection
(Local Area Network)	On	Has physical connection to an Ethernet network
	Flashing	Transmitting or receiving data (through Ethernet cable)
(Internet)	Off	No power or no physical connection
	On	Has physical connection to an Ethernet network
	Flashing	Transmitting or receiving data (through Ethernet cable)

### **Buttons**



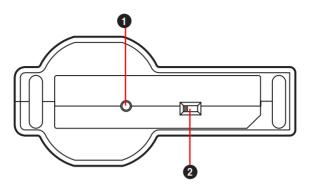
## **Rear panel**



Label	Description
Internet	Connect an RJ-45 Ethernet cable to this port to establish WAN connection.
LAN1-LAN4	Connect RJ-45 Ethernet cables to these ports to establish LAN connection.
USB 2.0	Insert a USB 2.0 device such as a USB hard disk and a USB flash drive (at least 2GB capacity) into this port.
Power	Insert the AC adapter into this port to connect your router to a power source.

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# **Bottom panel**



Item	Description
0	Restore button
	Press this button for more than five seconds to restore the system to its factory default settings.
2	Operation mode selector
	Use this selector to choose an operation mode:
	<b>Router (IP Sharing mode):</b> In this mode, RT-N13U connects to WAN (Internet) by PPPoE, Automatic IP, or Static IP, and provides wireless radio, NAT, firewall, and IP sharing services in LAN.
	<b>Repeater:</b> In this mode, RT-N13U extends your wireless network and provides higher quality wireless radio to users. NAT, firewall, and IP sharing services are disabled automatically.
	<b>AP (Access Point):</b> In this mode, RT-N13U receives the WAN IP address from the router connected to the WAN port and provides wireless radio to users. NAT, firewall, and IP sharing services are disabled automatically.



# 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.

You can set up the wireless router in any of these three operation modes: Router (IP Sharing), Repeater, and Access Point (AP). Set up the wireless router in the Router (IP Sharing) and Repeater modes via the Quick Internet Setup (QIS), and the AP mode via the web GUI.



Note: To set up the wireless router in the AP mode, use Device Discovery included in the support CD to access the web GUI.

# Using the Quick Internet Setup (QIS)

The Quick Internet Setup (QIS) function, which is integrated in the wireless router's web GUI, detects the Internet connection type automatically and guides you in setting up your network quickly.

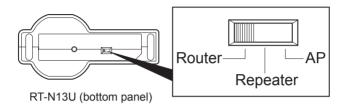
The QIS web page appears automatically after you connected all your devices and launched your web browser. You may also launch the QIS from the **Network Map** page in the web GUI. To do this, click **Go** in the **QIS** field under **Internet status**.

### Setting up the wireless router in Router mode

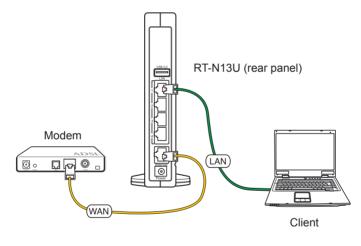
In the Router mode, the wireless router connects to the Internet via PPPoE, Automatic IP, or Static IP, and provides you with wireless radio signals. The NAT, firewall, and IP sharing services for LAN clients are enabled.

### To set up the wireless router in Router mode:

1. Choose the Router mode.



2. Connect your devices.



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**Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

3. Launch your web browser and the QIS starts to detect your Internet connection type.

le la companya de la	Detecting your connection type
	Start to detect your connection type Detecting at 1 times, the maximum time of detection is 20 seconds.
	-Skip to manual sett



Note: If the QIS web page does not appear after you launched your web browser, disable the proxy settings on your web browser.

4. Key in the user name and password. Click Apply all settings.

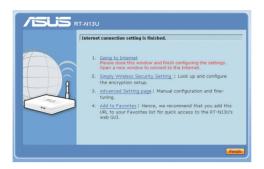
N13U	
Account Setting User Name: Password:	]
 -PreviousApply all settings	



#### Note:

- The PPPoE Internet connection type is used in this setup case. The setup screen varies with different Internet connection types.
- Obtain the required information such as the username and password from your Internet Service Provider (ISP).

5. The Internet connection setup is completed.



- Click Going to Internet to surf the Internet.
- Click Simply Wireless Security Setting to configure the basic security settings including the SSID, authentication, and encryption methods for the wireless router.

/ISUS :				
	Wireless Setting			
A	SSID:	ASUS	]	
	Authentication Method:	Open System		
	WEP Encryption:	None		
			Previous	Finish

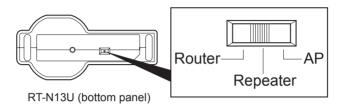
- Click Advanced Setting page to manually configure the advanced settings for the wireless router.
- Click Add to Favorites to add this URL to your Favorites list for quick access to the web GUI.

### Setting up the wireless router in Repeater mode

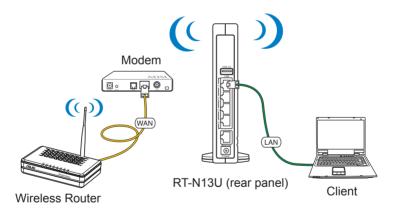
In the Repeater mode, the wireless router extends your wireless network coverage and provides you with higher quality wireless radio signals. The NAT, firewall, and IP sharing services are disabled.

### To set up the wireless router in Repeater mode:

1. Choose the Repeater mode.



2. Connect your devices.



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**Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

3. Launch your web browser and the QIS web page appears automatically. Select the AP whose wireless signal you want to extend, then click **Connect**.

Select the networ	k and click [Co	onnect].		
Wireless name	¢ Ch	annel≑	Security*	Radio 🕈
500gpv2-AP2	bgn	1	WPA2-Personal (AES) 🔒	
kingmate	ba	1	Unknown (WEP) 🔒	-
500gpv2-AP	bg	5	WPA2-Personal (AES) 🔒	
ASUS	ban	5	Open System (NONE)	(11-
default-wanhui	bgn	5	WPA2-Personal (AES) 🔒	
ASUS	ban	6	Open System (NONE)	
500gpv2-AP2	bg	6	WPA2-Personal (AES) 🔒	=
WLAN_intra	ban	8	WPA2-Personal (AES)	=
WLAN guest	bgn	8	WPA2-Personal (AES)	-



#### Note:

- If the QIS web page does not appear after you launched your web browser, disable the proxy settings on your web browser.
- Use Device Discovery included in the support CD to access the router's web GUI and configure the router's various features.

## Setting up the wireless router in AP mode

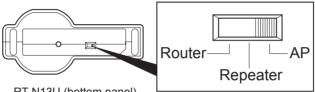
P

Note: To set up the wireless router in the AP mode, use Device Discovery included in the support CD to access the web GUI.

In the AP mode, the wireless router receives the WAN IP address from the router connected to the WAN port and provides you with wireless radio signals. The NAT, firewall, and IP sharing services are disabled.

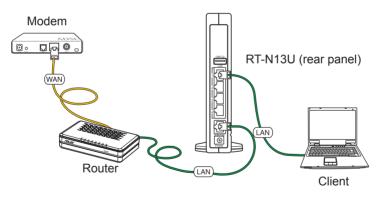
#### To set up the wireless router in AP mode:

1. Choose the AP mode.



RT-N13U (bottom panel)

2. Connect your devices.



Ø

**Note:** We recommend that you use an Ethernet cable (wired connection) to connect your computer to the wireless router for initial configuration to avoid possible setup problems due to wireless uncertainty.

3. Launch the Device Discovery utility and click **Configure** to access the web GUI.

Device	SSID	IP Address	Subnet Mask	Printer	
RT-N13U	ASUS	192.168.1.1	255.255.255.0		
<					)

4. On the login page, key in the default user name (**admin**) and password (**admin**).

Connect to 192.	168.1.1 🤶 🔀
<b>R</b>	GE
RT-N13U User name: Password:	Remember my password
	OK Cancel

5. From the main page, click the navigation menu or links to configure the various features of the wireless router.

Image: State Stat	RT-N13U	SSID: ASUS Firmware Version: <u>1.01.2</u> Operation Mode: <u>AP</u>	Languag English	je: T	Reboot
	Corrention Mode Corrention Mode Corrention Mode Corrention Mode Corrention Co	SSID: ASUS Security level: Open System IC2SN020 ATCS04-0 2.473GB/		name(SSID) Authentication Wethod: WEP Encryption: Wireless radio LAN IP PIN code MAC address WPS	ASUS Open System None Open System Open Sys



# Accessing the wireless router

### Setting an IP address for wired or wireless client

To access the ASUS Wireless Router, you must have the correct TCP/IP settings on your wired or wireless clients. 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, which automatically assigns IP addresses to the clients in your network.

But in some instances, you may want to manually assign static IP addresses on some of the clients or computers in your network rather than automatically getting IP addresses from your wireless router.

Follow the instructions below that correspond to the operating system installed on your client or computer.



Note: In the Router mode, if you want to manually assign an IP address to your client, we recommend that you use the following settings:

- 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® Vista

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

Connect using:		
Realtek RT	L8168B/8111B Family F	PCI-E Gigabit Ethernet
		Configure
This connection us	ses the following items:	
Client for	Microsoft Networks	
QoS Pack	ket Scheduler	
File and F	Printer Sharing for Micros	soft Networks
	rotocol Version 6 (TCP)	
🗹 📥 Internet P	rotocol Version 4 (TCP)	/IPv4)
🗹 🔺 Link-Laye	r Topology Discovery N	Mapper I/O Driver
🗹 🔺 Link-Laye	r Topology Discovery F	Responder
I <u>n</u> stall	<u>U</u> ninstall	Properties
Description		
	ontrol Protocol/Internet	
wide area netwo	ork protocol that provide nterconnected networks	

- 2. Select Internet Protocol Version 4 (TCP/IPv4), then click Properties.
- 3. 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.
- 4. 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.

	Alternate Configuration					
this cap	n get IP settings assigned a bability. Otherwise, you ner appropriate IP settings.					
0	otain an IP address automa	atically				
O Us	e the following IP address:	-				
ĮP ad	ddress:		÷).	i.		
Sybr	net mask:		e :		2	
Defa	ult gateway:	192	. 168	. 1	. 1	
	tain DNS server address a					
Prefe	erred DNS server:		2	4	14	
10.000	nate DNS server:					

### Windows® XP

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



- 2. 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.

Internet Protocol (TCP/IP) Prope	rties 🛛 🕐 🔀			
General Alternate Configuration				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
<ul> <li>Obtain an IP address automatical</li> </ul>	ly 🔤			
O Use the following IP address: —				
IP address:				
Subnet mask:				
Default gateway:				
<ul> <li>Obtain DNS server address autor</li> </ul>	natically			
O Use the following DNS server ad	dresses:			
Preferred DNS server:				
Alternate DNS server:				
	Advanced			
	OK Cancel			

### Windows® 2000

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

nectusing: ) SiS 900-Based	PCI Fast Ethernet Ada	oter
mponents checked	l are used by this conne	<u>C</u> onfigure
		C. C
E File and Printe	er Sharing for Microsoft	
E File and Printe To Internet Proto	er Sharing for Microsoft col (TCP/IP)	Networks Properties
Internet Proto	er Sharing for Microsoft col (TCP/IP)	Properties tocol. The default

- 2. 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.

this capability. Otherwise, you ne the appropriate IP settings.	d automatically if your network supports sed to ask your network administrator for
Obtain an IP address auto	an constant of
C Use the following IP addre	\$\$:
[P address:	
	and the second second
Default gateway	
Obtain DNS server addres	s automatically
C Use the following DNS ser	ver addresses:
Preferred DNS server.	
Alternate DNS server:	
	Advanced

### Windows® 9x/ME

- Click Start > Control Panel > Network to display the Network setup window.
- 2. Select **TCP/IP** then click **Properties**.

Network	<u>? ×</u>				
Configuration Identification Access Control					
The following metwork: components are installed: Microsoft Family Logon Dia-Up Adapter Reatek: RTL8139(A/B/C/8130) PCI Fast Ethernet NIC TCP/IP > Dial-Up Adapter TCP/IP > Dial-Up Adapter TCP/IP > Reatek: RTL8139(A/B/C/8130) PCI Fast Ether					
Add Rgmove Properties Primary Network Logon: Microsoft Family Logon ▼					
Increased Family Logon  Eile and Print Sharing  Description TCP/IP is the protocol you use to connect to the Internet and wide-area networks.					
ОК	Cancel				

 If you want your computer to automatically obtain an IP address, click Obtain an IP address automatically then click OK. Otherwise, click Specify an IP address, then key in the IP address and Subnet Mask.

TCP/IP Properties		? ×				
Bindings	Advanced	NetBIOS				
DNS Configuration	Gateway   WINS Confi	guration IP Address				
If your network doe	An IP address can be automatically assigned to this computer. If your network does not automatically assign IP addresses, ask your network administrator for an address, and then type it in the space below.					
Obtain an IP	address automatically					
C Specify an IP	address:					
	k:					
	OK	Cancel				

4. Select the **Gateway** tab, and key in **New gateway** then click **Add**.

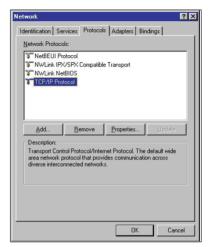
TCP/IP Properties				? ×
Bindings DNS Configuration		anced WINS Confi		etBIOS IP Address
The first gateway i The address order machines are used	in the list wi			
New gateway:	•	Add		
		<u>H</u> emo'	/8	
		OK		Cancel

- 5. Select the DNS configuration tab and click Enable DNS. Key in Host, Domain, and DNS Server Search Order, then click Add.
- 6. Click OK.

TCP/IP Properties				? ×
Bindings		anced		etBIOS
DNS Configuration	Gateway	WINS Confi	guration	IP Address
<ul> <li>Disable DNS</li> <li>Enable DNS</li> </ul>				
<u>H</u> ost:		Dgmain:		
DNS Server Sea	rch Order —			
	•		Add	
		B	emove	
			Add	
		Fi	ещоме	
		OK		Cancel

### Windows® NT4.0

- Go to Control Panel > Network to display the Network setup window then select the Protocols tab.
- 2. Select **TCP/IP Protocol** from the Network Protocols list then click **Properties**.



- From the IP Address tab of the Microsoft TCP/IP Properties window, you can:
  - Select the type of network adapter installed in your system.
  - Set the router to assign IP address automatically.
  - Manually set up the IP address, subnet mask, and default gateway.

Microsoft TCP/IP Properties
IP Address DNS WINS Address DHCP Relay Routing
An IP address can be automatically assigned to this network card by a DHCP server. If your network does not have a DHCP server, ask your network administrator for an address, and then type it in the space below.
Adagter: [1] Reater: RTLS139/810x Family Fast Ethemet NIC
Obtain an IP address from a DHCP server
C Specify an IP address
[P Address:
9ubnet Mask:
Default <u>G</u> ateway:
Advanced
OK Cancel Apply

4. Select the **DNS** tab then click **Add** under the **DNS Service Search Order** and key in DNS.

Microsoft TCP/IP P	roperties		? ×
IP Address DNS	WINS Address	DHCP Relay F	Routing
Domain Name Syst <u>H</u> ost Name:	em (DNS)	D <u>o</u> main:	
DNS <u>S</u> ervice Sea	arch Order		
			ЦрŤ
			Do <u>w</u> n↓
Add	<u>E</u> dit	Remo <u>v</u> e	5 8
– Domain Su <u>f</u> fix Se	arch Order		
			Up†
			Dow <u>n</u> ↓
Add	Ediţ	Remove	
	OK	Cancel	Apply

# Configuring via the web GUI

# Configuring via the web GUI

The router's web graphics user interface (web GUI) allows you to configure these features: **Network Map**, **AiDisk**, and **EZQoS Bandwidth Management**.

### To access the web GUI:

1. Launch a web browser, then key in the router's IP address. The login page of the router's web GUI appears.



#### Note:

- In the Router mode, the router's default IP address is 192.168.1.1.
- In the Repeater and AP modes, use Device Discovery included in the support CD to find the router's IP address.
- 2. On the login page, key in the default user name (**admin**) and password (**admin**).



3. From the main page, click the navigation menu or links to configure the various features of the ASUS Wireless Router.



# Using the Network Map

Network Map allows you to view the status and configure the connection settings of the Internet, system, and clients in your network. It enables you to quickly set up your Wide Area Network (WAN) using the Quick Internet Setup (QIS) feature, or to quickly set up your Local Area Network (LAN) using the WPS function.

To view the status or configure the settings, click any of these icons displayed on the main page:

lcon	Description
	Internet status Click this icon to display information on the Internet connection status, WAN IP address, DNS, connection type, and gateway address. From the Internet status screen, use the Quick Internet Setup (QIS) feature to quickly set up your network.
	System status Click this icon to display information on the SSID, authentication and encryption methods, LAN IP, PIN code, MAC address, or turn the wireless radio on/off. From the System status screen, click the virtual WPS button to establish a wireless connection between the router and a client.
	Client status Click this icon to display information about the clients or computers in the network, and allows you to block/unblock a client.
	USB disk status Click this icon to display information about the USB disk connected to the wireless router.
	USB printer status Click this icon to display information about the USB printer connected to the wireless router.

# **Using AiDisk**

AiDisk allows you to set up an FTP server and share the content of a USB disk with the clients in your network.



Note: Before using AiDisk, ensure that you have inserted a USB disk into the USB port of your wireless router.

### To use AiDisk:

1. Click AiDisk from the navigation menu at the left side of your screen.



2. From the Welcome to AiDisk wizard screen, click Go.



3. Select the access rights that you want to assign to the clients accessing your shared data, then click **Next**.

RT-N13U	SSID: ASUS Firmware Version: <u>1004</u> Operation Node: <u>Roter</u>	
Network Map         Operation Mode         Atbick         E2Q0S         Bandwith         Bandwith         Wireless         LAN         Wate         USB Application         Prevail         System Log	Image: bit of the state of	Help Creating the access rights RT-N13U provides you with these three types of access rights to the shared resources: a) limitless access rights, in which aryone can access your USB disk in the FTP server. b) limited access rights, in which access to your USB disk is limited to those you have assigned access rights. For this type, the RT-N13U creates the "admin/family" accounts.

- If you want to create your own domain name for your FTP site via the ASUS DDNS services, select I will use the service and accept the Terms of service. Otherwise, select Skip ASUS DDNS setting. Click Next to finish the setup.
- 5. When done, click Finish.
- 6. To access the FTP site that you created, launch a web browser and key in the ftp link (ftp://<domain name>).

# Managing bandwidth with EzQoS

EzQoS enables you to set the bandwidth priority and manage the network traffic.

### To set up the bandwidth priority:

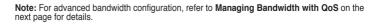
1. Click **EzQoS Bandwidth Management** from the navigation menu at the left side of your screen.



2. Click each of these four applications to set the bandwidth priority:

lcon	Description
	Gaming Blaster The router handles gaming traffic at first priority.
	Internet Application The router handles the e-mail, web browsing and other Internet applications traffic at first priority.
	FTP The router handles at first priority the traffic of downloading/ uploading data to/from the FTP server.
D.	Voip/Video Streaming The router handles the audio/video traffic at first priority.

3. Click Save to save the configuration settings.



Ø

# Configuring the advanced settings Managing bandwidth with QoS

QoS (Quality of Service) is an advanced network traffic control mechanism that manages bandwidth based on LAN clients and applications.

### To manage bandwidth with QoS:

- 1. Click **Advanced Setting** from the navigation menu at the left side of your screen.
- 2. Under the WAN menu, click QoS.

RT-N13U	Fit	ID: ASUS rmware Version: <u>1012</u> reration Mode: <u>Router</u>	Language: English	Reboot	0
Network Map	Wireless	LAN	WAN	USB Application	
Operation Mode	Configure your wireless connection, security, and other advanced parameters.	Configure LAN, dhcp, and route settings.	Configure the Internet connection, QoS, and Server setting.	Configure the USB device and share your files in LAN or WAN.	
AiDisk EzQoS Bandwidth Management	<ul> <li>General</li> <li>WPS</li> <li>Bridge</li> <li>Wireless MAC Filter</li> <li>RADIUS Setting</li> <li>Professional</li> </ul>	LAN IP     DHCP Server     Route	Qos     Connection     Qos     Continger     Vitual Server     DMZ     DDNS	FTP Share     Miscellaneous setting	
Advanced Setting	Firewall	Administration	System Log		
LAN	Configure the firewall and filter mechanisms to protect your network.	Configure the system and upgrade the firmware of RT- N13U.	Monitor the status and various system logs.		
WAN     USB Application     Firewall     Administration     System Log	<ul> <li>General</li> <li>URL Filter</li> <li>MAC Filter</li> <li>LAN to WAN Filter</li> </ul>	<ul> <li>System</li> <li>Firmware Upgrade</li> <li>Restore/Save/Upload Setting</li> </ul>	<ul> <li>General Log</li> <li>DHCP leases</li> <li>Wireless Log</li> <li>Port Forwarding</li> <li>Routing Table</li> </ul>		

- 3. Create a bandwidth management rule.
  - To create a rule on a certain application for all LAN computers:
     a Leave the Source IP Address field blank.
    - b. In the Service Name field, key in the name for the new rule.
    - c. In the **Destination Port** field, key in the port number of the application.
    - d. From the Priority drop-down menu, select the priority.
    - e. Click Add.
  - To create a rule on a certain application for a certain LAN computer:
    - a. In the Service Name field, key in the name for the new rule.
    - b. In the **Source IP Address** field, key in the IP address of the LAN computer.
    - c. In the **Destination Port** field, key in the port number of the application.
    - d. From the **Priority** drop-down menu, select the priority.
    - e. Click Add.

- To create a rule on all applications for a certain LAN computer:
  - a. Leave the **Destination Port** field blank.
  - b. In the Service Name field, key in the name for the new rule.
  - c. In the **Source IP Address** field, key in the IP address of the LAN computer.
  - d. From the Priority drop-down menu, select the priority.
  - e. Click Add.
- 4. Click Apply to save the new settings.

RT-N13U	SSID: ASUS Firmware Version: 10.12 Operation Node: Exder	٢
Network Map	Internet Connection QoS Port Trigger Virtual Server DMZ DDNS	
🚠 Operation Mode	Bandwidth Management - User Specify Service	3
AiDisk	RT-N13U provide high, normal and low priority for using the Internet. EX you can set user with IP:192.168.1.3 have the high priority in 21 port and named if FTP service.	
EzQoS Bandwidth Management	Bandwidth Status	
Advanced Setting	Mensured uplink speed. Kb/s Menual uplink speed. 0 Kb/s	
Vireless	User Specify Rule List	
LAN	Service Name Source IP Address Destination Port Priority	
WAN     USB Application	Normal Add	
Firewall	No data in table.	
Administration	Long Packet Fragmentation	
System Log	Apply	

# Setting up Virtual Server in your LAN

Virtual Server is a Network Address Translation (NAT) function that turns a computer within a LAN into a server and allows data packets of certain services, such as HTTP, from the Internet.

### To set up Virtual Server in your LAN:

- 1. Click **Advanced Setting** from the navigation menu at the left side of your screen.
- 2. Under the WAN menu, click Virtual Server.

RT-N13U	Fit	ID: ASUS rmware Version: <u>1012</u> reration Mode: <u>Router</u>	Language: English	Logout Reboot	۲
Retwork Map	Wireless	LAN	WAN	USB Application	
Operation Mode	Configure your wireless connection, security, and other advanced parameters.	Configure LAN, dhcp, and route settings.	Configure the Internet connection, QoS, and Server setting.	Configure the USB device and share your files in LAN or WAN.	
AiDisk EzQoS Bandwidth Management	<ul> <li>General</li> <li>WPS</li> <li>Bridge</li> <li>Wireless MAC Filter</li> <li>RADIUS Setting</li> <li>Professional</li> </ul>	LAN IP     DHCP Server     Route	Internet Connection     QoS     Fort Ingger     Virtual Server     DME     DDNS:	FTP Share     Miscellaneous setting	
Advanced Setting	Firewall	Administration	System Log		
LAN	Configure the firewall and filter mechanisms to protect your network.	Configure the system and upgrade the firmware of RT- N13U.	Monitor the status and various system logs.		
WAN     USB Application     Firewall     Administration     System Log	General     URL Filter     MAC Filter     LAN to WAN Filter	<ul> <li>System</li> <li>Firmware Upgrade</li> <li>Restore/Save/Upload Setting</li> </ul>	<ul> <li>General Log</li> <li>DHCP leases</li> <li>Wireless Log</li> <li>Port Forwarding</li> <li>Routing Table</li> </ul>		

- 3. Select Yes to enable the Virtual Server function.
- 4. Select an application from the Famous Server List or Famous Game List drop-down menu.
- 5. Select the server computer from the Local IP drop-down menu, then the Service Name, Port Range and Protocol fields are automatically populated.
- 6. Click **Add** to add the new virtual server.
- 7. Click Apply to save the new settings.

RT-N13U		SSID: ASUS Firmware Versio Operation Mode:	and the second		inguage: inglish		Logout Reboot	
Network Map	Internet Connection	QoS Port Trigg	ger Virtu	al Server	DMZ DE	DNS		
🚊 Operation Mode			NAT Settin	g - Virtual S	erver			
AiDisk EzQoS	To make services, like V a local IP address to the following list. Based on t	server. Then, add the If	address an	d network prot	ocol type, po	rt number, and	name of the s	ervice in the
Bandwidth Management		Enable Vir	tual Server?	💿 Yes <sub> N</sub> o	)			
Advanced Setting		Famous Server List Please select 💌						
Wireless	Famous Game List Please select							
D LAN	Virtual Server List							
WAN	Service Name	Port Range	Lo	al IP	Local Port	Protocol	Protocol No.	
USB Application				-		TCP		Add
Firewall	No data in table.							
Administration								Apply

# Setting up Virtual DMZ in your LAN

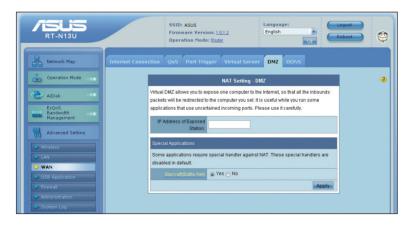
To expose an internal host to the Internet and make all services provided by this host available to outside users, enable the Virtual DMZ function to open all ports of the host. This function is useful when the host plays multiple roles such as HTTP server and FTP server. However, in doing this, your network becomes less secure.

### To set up Virtual DMZ in your LAN:

- 1. Click **Advanced Setting** from the navigation menu at the left side of your screen.
- 2. Under the WAN menu, click DMZ.

RT-N13U	Fii	ID: ASUS mware Version: <u>1.0.1.2</u> eration Mode: <u>Router</u>	Language: English	Reboot
Network Map	Wireless	LAN	WAN	USB Application
💮 Operation Mode	Configure your wireless connection, security, and other advanced parameters.	Configure LAN, dhcp, and route settings.	Configure the Internet connection, QoS, and Server setting.	Configure the USB device and share your files in LAN or WAN.
AiDisk E2QOS Bandwidth Management	<ul> <li>General</li> <li>WPS</li> <li>Bridge</li> <li>Wireless MAC Filter</li> <li>RADIUS Setting</li> <li>Professional</li> </ul>	LAN IP     DHCP Server     Route	Internet Connection     QoS     Port Trigger     Victual Server     DMZ     DMZ     DONE	FTP Share     Miscellaneous setting
M Advanced Setting	Firewall	Administration	System Log	
Vireless	Configure the firewall and filter mechanisms to protect your network.	Configure the system and upgrade the firmware of RT- N13U.	Monitor the status and various system logs.	
WAN USB Application Firewall Administration	<ul> <li>General</li> <li>URL Filter</li> <li>MAC Filter</li> <li>LAN to WAN Filter</li> </ul>	<ul> <li>System</li> <li>Firmware Upgrade</li> <li>Restore/Save/Upload Setting</li> </ul>	General Log     DHCP leases     Wireless Log     Port Forwarding     Routing Table	
System Log				

- 3. Key in the IP address of the host that you want to expose to the Internet.
- 4. Click **Apply** to save the new settings.



# Upgrading the firmware



Note: Download the latest firmware from the ASUS website at www.asus.com.

### To upgrade the firmware:

- 1. Click **Advanced Setting** from the navigation menu at the left side of your screen.
- 2. Under the Administration menu, click Firmware Upgrade.

Network Map     Wireless     LAN     WAN     USB Application       Configure Num wireless     Configure Num	RT-N13U	Fi	ID: ASUS rmware Version: <u>1004</u> reration Mode: <u>Roder</u>		Reboot
U     Firewall     Administration     System Log       Configure the firewall and Ghir mechanisms to protect your network.     Configure the system and Ghir mechanisms to protect your network.     Montor the status and Vanue system logs.       V3D Application     General URL Filter     System     General Log       V5D Application     MAC Filter     Firewall     OHC Pleases Setting     OHC Pleases Part Forwarding Rotury Table	Operation Mode     AiDisk     Ezgos     Bandwidth	Configure your wireless connection, security, and other advanced parameters. General WPS Bridge Wireless MAC Filter RADIUS Setting	Configure LAN, dhcp, and route settings. LAN IP DHCP Server	Configure the Internet connection, QoS, and Server setting. Internet Connection QoS Port Trigger Virtual Server DMZ	Configure the USB device and share your files in LAN or WAN. • FTP Share
USB Application         - ULL Filter         - Firmward Upgrade         - DHCP Leases           > Firewall         - LAN to WAN Filter         - Setting         - Wat Filter		Configure the firewall and filter mechanisms to protect	Configure the system and upgrade the firmware of RT-	Monitor the status and	
System Log	<ul> <li>USB Application</li> <li>Firewall</li> <li>Administration</li> </ul>	URL Filter     MAC Filter	<ul> <li>Firmware Upgrade</li> <li>Restore/Save/Upload</li> </ul>	<ul> <li>DHCP leases</li> <li>Wireless Log</li> <li>Port Forwarding</li> </ul>	

- In the New Firmware File field, click Browse to locate the new firmware on your computer.
- 4. Click Upload. The uploading process takes about three minutes.

Note: If the upgrade process fails, use the Firmware Restoration utility to restore the system. For details on this utility, refer to the section Firmware Restoration in Chapter 5 of this user manual.

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## Restoring/Saving/Uploading settings

#### To restore/save/upload the settings:

- 1. Click **Advanced Setting** from the navigation menu at the left side of your screen.
- 2. Under the Administration menu, click Restore/Save/Upload Setting.

RT-N13U	SSID: ASUS Firmware Version: <u>1.0.4</u> Operation Node: <u>Boder</u>	٢
Network Map	System Firmware Upgrade Restore/Save/Upload Setting	
💼 Operation Mode 🛶	Administration - Restore/Save/Upload Setting	3
AiDisk 👘	This function allows you to save current settings of RT-N13U to a file, or load settings from a file.	
EzQoS Bandwidth Management	Factory sefault Restore	
Advanced Setting	Save sching Save Resture setting Upload Browse	
Vireless		
LAN     WAN		
USB Application		
Firewall     Administration		
System Log		

- 3. Select the tasks that you want to do:
  - To restore to the default factory settings, click **Restore**, and click **OK** in the confirmation message.
  - To save the current system settings, click **Save**, and click **Save** in the file download window to save the system file in your preferred path.
  - To restore previous system settings, click **Browse** to locate the system file that you want to restore, then click **Upload**.

## Using the USB application

The ASUS Wireless Router provides one USB 2.0 port for connecting USB devices such as a USB storage device and USB printer, to allow you to share files and a printer with clients in your network.



**Note**: To use this feature, you need to plug a USB storage device, such as a USB hard disk or USB flash drive, to the USB 2.0 port on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the ASUS website at <u>www.asus.com</u> for the HD file system support table.

## Creating a user account

You need to create user accounts before you can share the files or data in the USB storage device.

#### To create a user account:

- 1. Click **Advanced Setting** > **USB Application** from the navigation menu at the left side of your screen.
- 2. Click Share with account, and click OK to enable the sharing feature.
- 3. Click the Add account et icon.

RT-N13U		55ID: ASUS Firmware Version: <u>1004</u> Operation Mode: <u>Router</u>		guage: plish	V Locout Reboot
Network Map	FTP Share Miscelle Disable FTP	nneous setting Share with account			How to Share? X
AiDisk EzQoS Bandwidth Management	No Account	RT-N13U	R/W W	R No	Enable the DDNS service to allow access via the ftp, or click the following link: <u>ftp://192.168.1.1</u> (Only accessible in LAN.)
Advanced Setting  Wireless LAN WAN				Apply	PS. Account management function cannot work on NTFS partition.
USB Application     Firewall     Administration     System Log					

4. In the **Account** and **Password** fields, key in the name and password of the client/computer in your network. Retype the password to confirm. Click **Add** to add the account to the list.

## Setting up an FTP site

The ASUS Wireless Router enables you to share files from your USB storage device with computers in LAN or through the Internet.



#### Notes:

- To use this feature, you need to insert a USB storage device, such as a USB hard disk or USB flash drive, to the USB2.0 port on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the ASUS website at <u>www.asus.com</u> for the HD file system support table.
- To access the FTP, you may either enable the DDNS service or key in the ftp link ftp://192.168.1.1 from any computer in LAN.

#### To set up an FTP site:

- 1. Click **Advanced Setting** > **USB Application** from the navigation menu at the left side of your screen.
- 2. From the **FTP Share** tab, select the account that you want to assign access rights to.

RT-N13U		SSID: ASUS Firmware Version: <u>1004</u> Operation Mode: <u>Router</u>	Language: English	Reboot
Network Map	FTP Share Miscella	neous setting Share with account		How to Share? ×
Aibisk E2QoS Bandwidth Magement Advanced Setting Wircless LaN	No Account	RE-N13U Flash Resder Flash Resder Share Concest Concest Concest Concest	R/W W R No	Enable the DDNS service to allow access via the ftp, or click the following link:ftp://192.165.1.1 (Only accessible in LAN.) PS. Account management function cannot work on NTFS partition.
WAN USB Application Firewall Administration System Log			1620 fr	

- 3. From the list of file folders, select the type of access rights that you want to assign for specific file folders:
  - R/W: Select this option to assign read/write access for a specific file folder.
  - W: Select this option to assign write only access for a specific file folder.
  - R: Select this option to assign read only access for a specific file folder.
  - No: Select this option if you do not want to share a specific file folder.
- 4. Click **Apply** to apply the changes.
- 5. From any LAN computer, key in ftp://192.168.1.1 on a web browser.

## Turning RT-N13U into a mobile router

Turn RT-N13U into a mobile router through a 3G USB adapter.



#### Note:

- Only the H/W Version B1 model supports the mobile router feature. Check the bottom of the router for its H/W version.
- The 3G USB adapter is purchased separately. Obtain a list of supported 3G USB adapters from the ASUS website at www.asus.com.

#### To set up RT-N13U as a mobile router:

- 1. Activate your 3G USB dongle.
- 2. Insert the 3G USB dongle into your computer's USB port and verify if you can access the Internet through the 3G USB dongle.

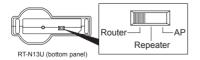




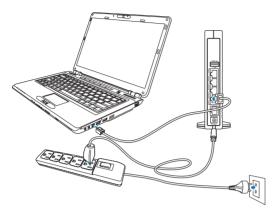
#### Note:

Refer to the documentation that came with your 3G USB dongle or contact your ISP (Internet Service Provider) for instructions on how to activate it and access the Internet through it.

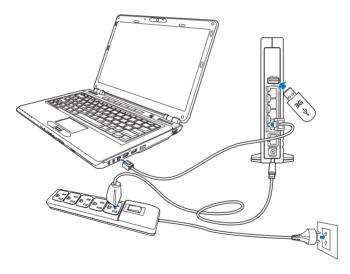
- 3. Remove the 3G adapter from your computer.
- 4. Set the operation mode selector at the bottom of your router to Router.



- 5. Connect one end of the supplied RJ-45 cable to a LAN port at the rear of your router and the other end to your computer's LAN port.
- 6. Connect one end of the supplied power adapter to the power port at the rear of your router and ther other end to a power outlet.



7. Insert the 3G USB adapter into the USB port at the rear of your router.



8. From your computer, log in the router's Web GUI. You can find the 3G USB adapter icon in the network map.

RT-N13U Rev.B	SSID: ASUS Firmware Version: 2001 Operation Node: <u>Todar</u>	Longuage: English v	Logoul Reboot
Network Map		Wireless	ISUS RT-NI3U Rev.B
(m) 0,000 (m)	Connected	name(SSID)	ASUS
AlDisk		Authentication Nethod:	Open System 💌
EzQoS Dandwidth		WEP Encryption:	None
dama Sandwidth Management	ASUS RT-N13U Rev.8 SSID: AGUS	Wireless radio	⊙on Ooff
Advanced Setting	Security level: Open System		Apply
	5751000	LAN IP	192.160.1.1
Wireless      LAN		PIN code	38498121
P WAN	usb_3g_dongis	MAC address	90:E6:BA:D3:54:D4
USB Application	Clients: 1	WPS	Click the button to enable WPS mode.
Firewall     Administration			More Config 💌
System Log			

9. From the navigation menu, click Advanced Setting > USB Application.

10. Click the HSDPA tab, then configure the following settings:
Enable HSDPA: Select Enable.
3G/3.5G USB Adapter: Select your 3G USB adapter.
Location: Select your ISP's location.
ISP: Select your ISP.
APN service (optional): Key in your APN service name.
PIN: Key in the PIN (Personal Identification Number) code.
Dial Number: Key in your dial number.
Username: Key in your username.
Password: Key in your password.



#### Note:

Obtain the APN service name, PIN code, dial number, username, and password from your ISP.

11. Click Apply, then you are prompted to configure your Wi-Fi network.

	Uperation Node: totat	
Natwork Map	Network Neighborhood Share FTP Share Miscelloneous setting HSDPA	
🚠 Operation Mode 💦	HSDPA	(
AlDisk	Pluging the 30/3.50 USB adapter into RT-N13U Rev.B and make it become mobile router.	
EzQoS Bandwidth Management	Enable SEDEXY After enabling HSDPA, your original WAN settings will be disabled.	
001	30/3.50 USB Adapter AUTO	
M Advanced Setting	Location 🛄 💌	
Divineless	ISP Telsta 💌	
LAN	APIN sentre(optional) telstra.internet	
USB Application	PIN	
SB Application	Dtai Number 799#	
Administration	Usemame	

## **Connecting a USB printer**

Connect a compatible USB printer to the USB 2.0 port of the ASUS Wireless Router and share the USB printer with your LAN clients.



Note: Visit the ASUS Website at www.asus.com for compatible printer vendor and models.

# Installing the printer using the ASUS Network Printer Setup Program

To install the printer using the ASUS Network Printer Setup Program:

1. Place the support CD into the optical drive. An autorun screen appears if Autorun is enabled on your computer.



Note: If Autorun is disabled on your computer, double-click setup.exe from the root directory of the support CD.

2. Click Run Network Printer Program.



3. Follow the onscreen instructions to install the USB printer on your computer.



## Installing the printer on Windows® XP using the Windows® Add Printer Wizard

To install the printer on Windows<sup>®</sup> XP using the Windows<sup>®</sup> Add Printer Wizard:

1. Run the Add Printer Wizard from Start > Printers and Faxes > Add a printer.



2. Select Local printer attached to this computer and click Next.



 Select Create a new port and set Type of port to Standard TCP/IP Port, then click Next.

ect a Printer Port Computers communicate w	ith printers through ports.
Select the port you want yo new port.	ur printer to use. If the port is not listed, you can create a
O Use the following port	LPT1: (Recommended Printer Port)
	use the LPT1: port to communicate with a local printer. port should look something like this:
	et al
<ul> <li>Create a new port: Type of port:</li> </ul>	Standard TCP/IP Port 🗸

4. Click **Next** to set up the TCP/IP port for accessing the network printer.

Add Standard TCP/IP Prin	ter Port Wizard 🛛 🔀
	Welcome to the Add Standard TCP/IP Printer Port Wizard
	You use this wizard to add a port for a network printer.
	Before continuing be use that. 1. The device it used on. 2. The network is connected and configured.
	To continue, click Next.
	KBack Next Cancel

 Key in the IP address of the wireless router in the Printer Name or IP Address field and click Next.

Add Standard TCP/IP Printer Port Wizard 🛛 🛛 🔀				
Add Port For which device do you want t	o add a pot?			
Enter the Printer Name or IP ad	dress, and a port name for the desired device.			
Printer Name or IP Address:	192.168.1.1			
Port Name:	IP_192.168.1.1			
	<back next=""></back>	Cancel		

6. Select Custom and click Settings...



7. Set **Protocol** to **LPR** and type **LPRServer** in **Queue Name** field. Click **OK** to continue.

Configure Standard TCP/IP F	Port Monitor 🛛 🛛 🔀
Port Settings	
Port Name:	IP_192.168.1.1
Printer Name or IP Address:	192.168.1.1
Protocol O Raw	⊙ LPR
- Raw Settings	
Port Number: 9100	
LPR Settings	
Queue Name: LPRS	erver
LPR Byte Counting Enabled	I
SNMP Status Enabled	
Community Name: public	
SNMP Device Index: 1	
	OK Cancel

8. Press **Next** to finish the standard TCP/IP port setting.

Add Standard T	CP/IP Printer Port Wizard	
	rt Information Required could not be identified.	
<ol> <li>The device is</li> <li>The address</li> <li>Either correct the</li> </ol>	wice is of unknown type. Be sure that: properior configured on the previous page is connect. - address and genome another search on the network by returning page or select the device type if you are sure the address is corre	
Device Type		
O Standard	Generic Network Card	
<ul> <li>Custom</li> </ul>	Settings	
	< Back Next >	Cancel

9. Press **Finish** to complete the settings and return to the Add Printer Wizard.

Add Standard TCP/IP Prin	ter Port Wize	ard	×
	Completing the Add Standard TCP/IP Printer Port Wizard You have selected a port with the following characteristics.		
	SNMP: Protocol: Device: Port Name: Adapter Type:	No LFR, LPRSover 1921681.1 IPa_1921681.1	
	To complete th	ris wizard, click Finish.	
		Keack Finish Cancel	

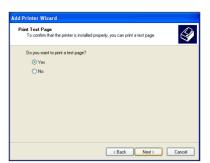
 Install the printer driver from the vendor-model list. If your printer came with an installation disk, click Have Disk to manually assign the location of driver.

11. Click **Next** to accept the default name for the printer.

Add Printer Wizard				
Install Printer Software The manufacturer and model determine which printer software to use.				
	d model of your printer. If your printer came with an installation ur printer is not listed, consult your printer documentation for			
Manufacturer 🔼	Printers A			
Compag Dataproducts Diconix Digital Epson	Epson Stylus Pro XL+ ESC/P 2 Epson T-1000 EPSON Stylus Photo R210 Series			
This driver is not digitally signed!     Tell me why driver signing is impostent				
	<back next=""> Cancel</back>			

ld Printer Wizard	
Name Your Printer You must assign a name to this printer.	
Type a name for this printer. Because som name continuations of more than 31 chara prostike. Printer name: SEGION Styles Printe FR10 Series	e programs do not support printe and server otes; it is best to keep the name as short as
	<back next=""> Cancel</back>

12. Select **Yes** to print a test page. Click **Next** to print.



 The installation is complete. Click Finish to quit the Add Printer Wizard.

Add Printer Wizard			
	Completing the Add Printer Wizard You have successfully completed the Add Pinter Wizard. You specified the following printer settings:		
	Port: Model: Default:	EPSDN Stylus Photo R210 Series (Not Shared) IP_192 168.1.1 EPSDN Stylus Photo R210 Series Yes Yes	
Ĩ/	To close this	wizard, click Finish.	
		Keack Finish Cancel	

14. After connecting your USB printer and installing the printer driver, you can now see the printer name and status on the wireless router's web GUI.





Ø

Note: If you have already installed the printer locally on your computer, right click the printer icon and select **Property > Port** tab to add a standard TCP/IP port. Click **Add Port** then select **Standard TCP/IP Port** and click **New Port** button. Refer to steps 5-8 for setting procedures.

Note: If you use Windows® 98 or ME which does not support Standard TCP/IP port, you need to use Remote Port which is supported by the ASUS Wireless Router.



## Installing the utilities

The support CD contains the utilities for configuring the ASUS Wireless Router. To install the ASUS WLAN Utilities in Microsoft<sup>®</sup> Windows, insert the support CD in the CD drive. If Autorun is disabled, run **setup.exe** from the root directory of the support CD.

#### To install the utilities:

1. Click Install...Utilities.



2. Click Next.

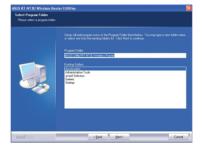


3. Click **Next** to accept the default destination folder or click **Browse** to specify another path.



4. Click **Next** to accept the default program folder or enter another name.

5. Click **Finish** when setup is completed.



InstallShield Wizzed Complete	

## **Device Discovery**

Device Discovery is an ASUS WLAN utility that detects an ASUS wireless router and enables you to configure the device.

#### To launch the Device Discovery utility:

From your computer's desktop, click Start > All Programs > ASUS Utility > RT-N13U Wireless Router > Device Discovery.

q	Device Disco	very				
	Device	SSID	IP Address	Subnet Mask	Printer	
	RT-N13U	ASUS	192.168.1.1	255.255.255.0		
	<					>
		<b>A A A</b>	1			
		<u>ک</u> <u>C</u> onfigure		≟ <u>S</u> earch	<u></u>	<u>E</u> xit
Nu	umber of found de	vice(s): 1				11

- Click **Configure** to access the web GUI and configure the wireless router.
- Click **Search** to search for ASUS wireless routers within range.
- Click Exit to exit the application.

## **Firmware Restoration**

Firmware Restoration is used on an ASUS Wireless Router that failed during its firmware upgrading process. It uploads the firmware that you specify. The process takes about three to four minutes.

la

Important: Launch the rescue mode before using the Firmware Restoration utility.

#### To launch the rescue mode and use the Firmware Restoration utility:

- 1. Unplug the wireless router from the power source.
- Hold the Restore button at the bottom panel and simultaneously re-plug the wireless router into the power source. Release the Restore button when the Power LED at the front panel flashes slowly, which indicates that the wireless router is in the rescue mode.
- 3. From your computer's desktop, click Start > All Programs > ASUS Utility > RT-N13U Wireless Router > Firmware Restoration.

line ware Restoration		
Eilename:	Browse	
Once you have specified a file, click the "Upload" button.		
<u>U</u> pload <u>C</u> lose		

4. Specify a firmware file, then click Upload.

Note: This is not a firmware upgrade utility and cannot be used on a working ASUS Wireless Router. Normal firmware upgrades must be done through the web interface. Refer to Upgrading the firmware in Chapter 4 of this user manual for details.

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## **WPS Wizard**

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

## **Using WPS Wizard**

· Ensure that you use a wireless LAN dapter with WPS function.

· Windows® operating systems and wireless LAN cards/adapters that support WPS:

OS Support	Wireless Adapter Support
	Intel wireless LAN card
Vista 32/64	ASUS 167gv2 driver v3.0.6.0 or later
	ASUS 160N/130N driver v2.0.0.0 or later
	Intel wireless LAN card
XP SP2	ASUS 167gv2 driver v1.2.2.0 or later
	ASUS 160N/130N driver v1.0.4.0 or later
	ASUS LAN card with ASUS WLAN Utility
XP SP1 and 2000	ASUS 167gv2 driver v1.2.2.0 or later
	ASUS 160N/130N driver v1.0.4.0 or later

## To use WPS Wizard:

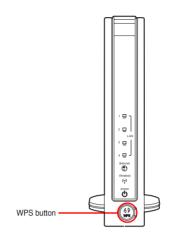
1. Follow the onscreen instructions to set up your hardware. When done, click Next.



Note: Use the WPS Wizard with one wireless client at a time. If the wireless client cannot discover the wireless router, shorten the distance between the client and the router.

Ø

2. Push the WPS button on the front panel of the wireless router for more than five seconds.



3. On the WPS Wizard, click Next to continue.

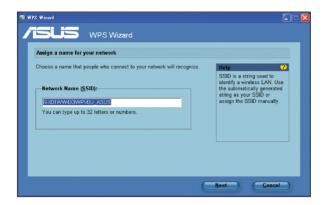




#### Notes:

- When running WPS, the Internet connection pauses briefly then reestablishes the connection.
- If the WPS button is pushed without running the WPS Wizard, the PWR indicator flashes and Internet connection pauses briefly and then reestablishes the connection.

4. Assign a name to your network, then click Next.



5. Use the auto-generated passphrase as your network's security key or manually assign a passphrase containing between 8 and 63 characters. Click **Next**.

n WPS Wizard	🛛
VPS Wizard	
Make your network more secure with a passphrase	
This wizard will use the passphrase provided below to generate a WPA security key for you. Passphrase: Scient VUCIBLE RECOVERED The passphrase must be between 8 and 63 characters. If Display characters	Help ?? A security key can prevent outsider from accessing your werless network. Use the sutomatically generated sting as your passphrase or assign the passphrase manually:
Create a different passphrase for me     Show advanced network security options	
Back	Next <u>Cancel</u>

 Installation is completed. Click Save or print settings for future reference or Save settings to a USB flash drive to add other devices to the network. Click Next to connect to the Internet.





Note: For more details on adding devices to the network using a USB flash drive, refer to the section Adding network devices using a USB flash drive on the next page.

7. You have connected to the wireless router. If you want to configure the Internet settings, click **Setup**. Click **Finish** to close the WPS Wizard.



## Adding network devices using a USB flash drive

With the WPS utility, you can add devices to your network using a USB flash drive.

To add network devices using a USB flash drive:

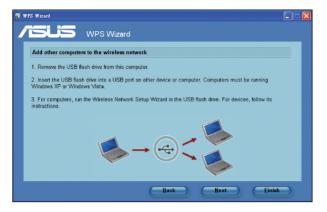
1. In the WPS Wizard, click Save settings to a USB flash drive.



2. Plug a USB flash drive into the USB port on your computer, and then select the drive from the dropdown list. When done, click **Next** to continue.

🗊 w	PS Wizard	
ſ		
	Insert the USB flash drive into this computer	
	Plug the USB flash drive into a USB port on your computer, and then select the drive from the list below.	
	€ ← €	
	Save settings to:	
	Back Next Cance	

3. Remove the USB flash drive from this computer, and then plug to the computer that you want to add to the wireless network.



4. Locate the **SetupWireless.exe** from the USB drive, and double-click to run it. Click **Yes** to add the computer to the wireless network.

Wireless Network Setup Wizard		
2	Do you want to add this computer to the wireless network Default	
	Yes No	

5. Click OK to exit the Wireless Network Setup Wizard.



## **Download Master**

Download Master is a utility that allows you to organize your HTTP, FTP, and BT (BitTorrent) download tasks.

## Using the Download Master

To use the Download Master:

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**Note**: To use this feature, you need to plug a USB storage device, such as a USB hard disk or USB flash drive, to the USB 2.0 port on the rear panel of your wireless router. Ensure that the USB storage device is formatted and partitioned properly. Refer to the ASUS website at <u>www.asus.com</u> for the HD file system support table.

 Launch the Download Master from Start > All Programs > ASUS Utility > RT-N13U Wireless Router > Download Master. Click File > Connect to connect to the wireless router.

🔳 Download M	Download Master				
File Help					
Connect Disconnect	Transfers 🔛 I	Folder			
Config					🔘 Action
Exit	Network	Progress	Status	Size	Speed
<					>
Offline					.::

2. Follow the instructions below to organize the download tasks that you want to perform.

#### **HTTP download**

To perform an HTTP download, do any of the following:

- Right-click the download link on the web page and select **Download** using ASUS Download.
- Right-click the download link on the web page and select **Properties**. Copy the download Address (URL).

If you select **Download using ASUS Download**, you can see the download task is added to the **Transfer** list. The blue bars indicate the progress rate of the download tasks.

If you copy the download address, click the **Assign** button in the utility. Paste the address into **Getting File From** box, select **HTTP** from **Options**, and click **Download** button to start.

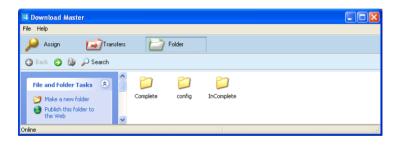
#### FTP download

Click the **Assign** button of the Download Master and select **FTP** in the **Options** field. Key in the FTP site address, Port number, User Name, Password. Click **Download** to start.

#### BT download

Save the BT seed on your computer. Click the **Assign** button of the Download Master and select **BT** in the **Options** field. Click **Browser** to locate the seed file and click **Download** to start.

 Click the Folder button to view the download file. Open the Complete folder to view or copy the finished files to your local hard disk. The incomplete tasks are kept in the InComplete folder.



# Troubleshooting

## 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
I cannot access a web browser for configuring the router.	<ol> <li>Launch a web browser, then click Tools &gt; Internet Options</li> </ol>
	2. Under Temporary Internet files, click Delete Cookies and Delete Files
The client cannot establish	Out of Range:
a wireless connection with the router.	• Put the router closer to the wireless client.
	Try to change the channel settings.
	Authentication:
	<ul> <li>Use wired connection to connect to the router.</li> </ul>
	Check the wireless security settings.
	<ul> <li>Press the Restore button at the bottom panel for more than five seconds.</li> </ul>
	Cannot find the router:
	<ul> <li>Press the Restore button at the bottom panel for more than five seconds.</li> </ul>
	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.
	<ul> <li>Check if the Internet LED on the wireless router is ON. If the LED is not ON, change the cable and try again.</li> </ul>
When ADSL Modem "Link" light is ON (not blinking),	Restart your computer.
this means Internet Access is possible.	Refer to the Quick Start Guide of the wireless router and re-configure the settings.
	Check if the Internet LED on the wireless router is ON.
	Check the wireless encryption settings.
	<ul> <li>Check if the computer can get the IP address (via both wired network and wireless network).</li> </ul>
	<ul> <li>Ensure that your web browser is configured to use the local LAN, and is not configured to use a proxy server.</li> </ul>

Problem	Action	
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 .	
	<ul> <li>Disconnect the power cord from the ADSL or cable modem, wait a few minutes, then reconnect the cord.</li> </ul>	
	<ul> <li>If the ADSL light continues to blink or stays OFF, contact your ADSL service provider.</li> </ul>	
Network name or encryption keys are forgotten.	<ul> <li>Try setting up the wired connection and configuring the wireless encryption again.</li> </ul>	
	<ul> <li>Press the Restore button at the bottom panel of the wireless router for more than five seconds.</li> </ul>	
How to restore the system to its default settings?	<ul> <li>Press the Restore button at the bottom panel of the wireless router for more than five seconds.</li> </ul>	
	<ul> <li>Refer to the section Restoring/Saving/ Uploading settings in Chapter 4 of this user manual.</li> </ul>	
	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	

## **ASUS DDNS Service**

RT-N13U supports the ASUS DDNS service. When exchanging devices at the service center, if you have registered the ASUS DDNS service and want to keep the original domain name, data transfer is a must. Visit your local service center for more information.



#### Notes:

- If there is no activity in the domain such as reconfiguring the router or accessing the registered domain name - within 90 days, the system automatically deletes the registered information.
- · If you encounter any problem or difficulty in using your device, contact the service center.

## Frequently Asked Questions (FAQs)

1. Will the registered information be lost or registered by others?

If you have not updated the registered information in 90 days, the system automatically deletes the registered information and the domain name may be registered by others.

2. I did not register the ASUS DDNS for the router I bought six months ago. Can I still register it?

Yes, you can still register the ASUS DDNS service for your router. The DDNS service is embedded in your router, so you can register the ASUS DDNS service anytime. Before registering, click **Query** to check if the hostname has been registered or not. If not, the system registers the hostname automatically.

3. I have registered a domain name before and it has been working well until my friends told me that they could not access my domain name.

Check the following:

- 1. The internet is working well.
- 2. The DNS server is working well.
- 3. The last time you updated the domain name.

If there are still problems in accessing your domain name, contact the service center.

## 4. Can I register two domain names to separately access my http and ftp servers?

No, you cannot. You can only register one domain name for one router. Use port mapping to implement security in the network.

## 5. After restarting the router, why is it that I see different WAN IPs in MS DOS and in the router configuration page?

This is normal. The interval time between the ISP DNS server and ASUS DDNS results in different WAN IPs in MS DOS and in the router configuration page. Different ISPs may have different interval time for IP updating.

#### 6. Is the ASUS DDNS service free, or is it just a trial version?

The ASUS DDNS service is a free and embedded service in some ASUS routers. Check your ASUS router if it supports the ASUS DDNS service.

## Appendices

## Notices

## **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.

Caution: 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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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 <u>http://green.asus.com/english/REACH.htm</u>.

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\* Available on this site is an online Technical Inquiry Form that you can fill out to contact technical support.

\*\* EUR 0.14/minute from a German fixed landline; EUR 0.42/minute from a mobile phone.

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