



# Asus RT-N16 User Manual

Multi-functional gigabit wireless n router



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# User Guide

## RT-N16

### Multi-functional Gigabit Wireless N Router

The elegant white and grey 2.4GHz RT-N16 features powerful CPU,

providing a  
high-performance throughput; supports up to 3000,000 sessions for  
extensive  
P2P clients; most widespread application with USB 2.0 port - All-in-1  
printer  
server and FTP files sharing; ultra-fast and convenient downloads with  
the  
Revolutionary Download Master.

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## Related Manuals for Asus RT-N16

[Network Router Asus RT-N16 Quick Start Manual](#)

(156 pages)

[Wireless Router Asus RT-N16 Quick Start Manual](#)

Dual-band wireless-n750 gigabit router (147 pages)

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[Wireless Router ASUS RT-N10E EZ N User Manual](#)

Ez n router (52 pages)

[Wireless Router Asus RT-N13 User Manual](#)

Superspeed n wireless router (46 pages)

## Summary of Contents for Asus RT-N16

### [Page 1: User Guide](#)

User Guide RT-N16 Multi-functional Gigabit Wireless N Router The elegant white and grey 2.4GHz RT-N16 features powerful CPU, providing a high-performance throughput; supports up to 3000,000 sessions for extensive P2P clients; most widespread application with USB 2.0 port - All-in-1 printer server and FTP files sharing;...

[Page 2](#) Product warranty or service will not be extended if: (1) the product is repaired, modified or altered, unless such repair, modification of alteration is authorized in writing by

ASUS; or (2) the serial number of the product is defaced or missing. ASUS PROVIDES THIS MANUAL "AS IS" WITHOUT WARRANTY OF ANY KIND,...

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### [Page 5: Quick Look](#)

Warranty card Manual, utility software NOTES: • If any of the items is damaged or missing,  
contact ASUS for technical inquiries and support, Refer to the ASUS Support Hotline list at the  
back of this user manual. • Keep the original packaging material in case you would need future  
warranty services such as repair or replacement.

### [Page 6: Your Wireless Router](#)

Power LED Off: No power. On: Device is ready. Flashing slow: Rescue mode Flashing quick: WPS  
is processing. 2.4GHz LED Off: No 2.4GHz signal. On: Wireless system is ready. Flashing:  
Transmitting or receiving data via wireless connection. LAN LED Off: No power or no physical  
connection. On: Has physical connection to a local area network (LAN).

[Page 7](#) Item Description Mounting hooks Use the mounting hooks to mount your router on  
concrete or wooden surfaces using two round head screws. 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.

### [Page 8: Mounting Options](#)

Mounting Options Out of the box, 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.

### [Page 9: Creating Your Network](#)

- For the best front-to-rear coverage, place the wireless router in an upright position.
- For the best up-and-down coverage, place the wireless router in an inclined position.
- Always update to the latest firmware. Visit the ASUS website at <http://www.asus.com> to get the latest firmware updates.

### [Page 10: What You Need](#)

What you need To set up your network, you need one or two computers that meet the following  
system requirements: • Ethernet RJ-45 (LAN) port (10Base-T/100Base-TX/ 1000BaseTX) • IEEE  
802.11b/g/n wireless capability • An installed TCP/IP service • Web browser such as Internet  
Explorer, Firefox, Safari, or Google Chrome NOTES: •...

### [Page 11: Setting Up Your Wireless Router](#)

- Use wired connection in setting up your wireless router to avoid possible setup problems due to wireless uncertainty.
- Before setting up your ASUS wireless router, do the following: • If you are replacing an existing router, disconnect it from your network.

### [Page 12: Wireless Connection](#)

2. Using the bundled network cable, connect your computer to your wireless router's LAN port.  
IMPORTANT! Ensure that the LAN LED is blinking. 3 Using another network cable, connect your  
modem to your wireless router's WAN port. 4. Insert your modem's AC adapter to the DC-In port  
and plug it to a power outlet.

## [Page 13: Before You Proceed](#)

NOTES: • For details on connecting to a wireless network, refer to the WLAN adapter's user manual. • To set up the security settings for your network, refer to the section Setting up the wireless security settings in this user manual.

[Page 14](#) 3. From the Local Area Network (LAN) Settings screen, untick Use a proxy server for your LAN. 4. Click OK when done. MAC OS 1. From your Safari browser, click Safari > Preferences > Advanced > Change Settings... 2. From the Network screen, deselect FTP Proxy and Web Proxy (HTTP).

## [Page 15: Set The Tcp/Ip Settings To Automatically Obtain An Ip Address](#)

Set the TCP/IP settings to automatically obtain an IP address. Windows ® 1. Click Start > Control Panel > Network and Internet > Network and Sharing Center > Manage network connections. 2. Select Internet Protocol Version 4 (TCP/IPv4), then click Properties. 3.

## [Page 16: Disable The Dial-Up Connection, If Enabled](#)

MAC OS 1. Click the Apple icon located on the top left of your screen. 2. Click System Preferences > Network > Configure... 3. From the TCP/IP tab, select Using DHCP in the Configure IPv4 dropdown list. 4. Click Apply Now when done.

## [Page 17: Onfiguring Via The Web Gui](#)

Configuring via the web GUI Logging into the web GUI Your ASUS Wireless Router comes with an intuitive web graphics user interface (GUI) that allows you to easily configure its various features through a web browser such as Internet Explorer, Firefox, Safari, or Google Chrome.

## [Page 18: Setting Up The Internet Connection](#)

3. The wireless router's web GUI launches. Use the web GUI to configure various settings. Setting up the Internet connection NOTE: When setting the Internet connection for the first time, press the Reset button on your wireless router to reset it to its factory default settings.

[Page 19](#) 2. The wireless router automatically detects if your ISP connection type is Dynamic IP, PPPoE, PPTP, L2TP, and Static IP. Key in the necessary information for your ISP connection type. IMPORTANT! Obtain the necessary information about your Internet connection type from your ISP.

[Page 20](#) NOTES: • The auto-detection of your ISP connection type takes place when you configure the wireless router for the first time or when your wireless router is reset to its default settings. • If QIS failed to detect your Internet connection type, click Skip to manual setting and manually configure your connection settings.

[Page 21](#) 4. Your Internet and wireless settings are displayed. Click Next to continue. □. Read the wireless network connection tutorial. When done, click Finish.

## [Page 22: Setting Up The Wireless Security Settings](#)

Setting up the wireless security settings To protect your wireless network from unauthorized access, you need to configure its security settings. To set up the wireless security settings: 1. Key in 192.168.1.1 on your web browser. 2. On the login screen, key in the default user name (admin) and password (admin), then click OK.

## [Page 23: Managing Your Network Clients](#)

Managing your network clients To manage your network clients: 1. Launch the wireless router's web GUI. 2. On the Network Map screen, select the Client Status icon to display the information about your network clients.

## [Page 24: Monitoring Your Usb Device](#)

Monitoring your USB device The ASUS Wireless Router provides two USB 2.0 ports for connecting USB devices such as a USB storage device and USB printer, to allow you to monitor the working environment, share files, and printer with clients in your network.

[Page 25](#) 3. On the AiDisk Wizard field, click GO to set up an FTP server for Internet file



sharing. NOTES: • For more details, refer to the section Using the Network Place (Samba) Share service and Using the FTP Share service in this user manual.

### [Page 26: Creating Your Guest Network](#)

Creating your Guest Network The Guest Network provides Internet connectivity for temporary visitors without providing access to your private network. To create your guest network: 1. Launch the wireless router's web GUI. 2. On the Guest Network screen, click Create to create a network for your visitors.

### [Page 27: Using The Traffic Manager](#)

Using the Traffic Manager Managing QoS (Quality of Service) Bandwidth The Quality of Service (QoS) allows you to set the bandwidth priority and manage the network traffic. To set up the bandwidth priority: 1. Launch the wireless router's web GUI. 2.

### [Page 28: Monitoring Traffic](#)

Monitoring Traffic The traffic monitor function allows you to assess the bandwidth usage and speed of your Internet, LAN, Wired, WLAN connections. Using the USB Extension The USB Extension function provides AiDisk, Servers Center, Network Printer Server and Download Master submenus.

### [Page 29: Using Aidisk For Files Sharing](#)

Using AiDisk for Files Sharing AiDisk allows you to share files in the USB disk through the Internet. NOTE: Before using AiDisk, ensure that you have inserted a USB disk into the USB port of your wireless router. To use AiDisk: 1.

[Page 30](#) 3. Select the access rights that you want to assign to the clients accessing your shared data. 4. Create your domain name via the ASUS DDNS services, select I will use the service and accept the Terms of service and key...

[Page 31](#) 5. Click Finish to finish the setup. 6. To access the FTP site that you created, launch a web browser or a third-party FTP client utility and key in the ftp link (ftp://<domain name>) you have previously created.

### [Page 32: Using The Servers Center Service](#)

Using the Servers Center service Your wireless router allows UPnP (Universal Plug and Play) multimedia devices, such as PS3 and XBox 360, to access multimedia files from the USB disk connected to your wireless router. NOTE: Before using the UPnP Media Server function, install a wireless adapter on your UPnP device.

### [Page 33: Using The Network Place \(Samba\) Share Service](#)

Using the Network Place (Samba) Share service Network Place (Samba) Share allows you to set the account and permission for samba service. To use Samba share: 1. Click the Network place (Samba) Share tab in the Servers Center of USB Extension. 2.

### [Page 34: Using The Ftp Share Service](#)

Using the FTP Share service Sharing files via the FTP server The ASUS Wireless Router enables you to share files from your USB storage device via the FTP server with computers in LAN or through the Internet. IMPORTANT! To use this feature, you need to insert a USB storage device, such as a USB hard disk or USB flash drive, to the USB3.0 port on the rear panel of your wireless router.

[Page 35](#) 4. From the list of files/folders, select the type of access rights that you want to assign for specific files/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.

### [Page 36: Using The Miscellaneous Setting](#)

Using the Miscellaneous setting Miscellaneous setting allows you to configure other settings for the USB disk, including maximum login user, device name, work group and language on FTP server. To use miscellaneous setting: 1. Click the Miscellaneous setting tab in the Servers Center of USB Extension.

## [Page 37: Configuring The Advanced Settings](#)

IP addresses from your wireless router. NOTE: The ASUS Wireless Router can support up to 253 IP addresses for your network. To set up the DHCP server: 1. Click Advanced Setting from the navigation menu at the left side of your screen.

[Page 38](#) 3. In the Enable the DHCP Server? field, tick Yes. 4. In the IP Pool Starting Address field, key in the starting IP address. 5. In the IP Pool Ending Address field, key in the ending IP address. 6. In the Lease Time field, key in the time that the IP addresses expire and the wireless router automatically assigns new IP Addresses for the network clients.

## [Page 39: Upgrading The Firmware](#)

Upgrading the firmware NOTE: Download the latest firmware from the ASUS website at <http://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.

## [Page 40: Restoring/Saving/Uploading Settings](#)

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. 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.

## [Page 41: Setting Up Your Network Printer](#)

USB printer. NOTES: • To check if your USB printer is compatible with your ASUS wireless router, refer to the Plug-n-Share Disk Support List at <http://event.asus.com/networks/printersupport> • The wireless router's printer server function is not supported ®...

[Page 42](#) 3. Unzip the downloaded file and click the Printer icon to run the network printer setup program. 4. Follow the onscreen instructions to set up your hardware, then click Next.

[Page 43](#) 5. Wait for a few minutes for the initial setup to finish. Click Next. 6. Click Finish to complete the installation.

[Page 44](#) 7. Follow the Windows ® OS instructions to install the printer driver. 8. After the printer's driver installation is completed, network clients can now use the printer.

## [Page 45: Using The Utilities](#)

• If Autorun is disabled, run setup.exe from the root directory of the support CD. Device Discovery Device Discovery is an ASUS WLAN utility that detects an ASUS wireless router device, and enables you to configure the device. To launch the Device Discovery utility: •...

## [Page 46: Firmware Restoration](#)

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

[Page 47](#) 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 Chapter 3: Configuring via the web GUI for more details.

## [Page 48: Troubleshooting](#)

Troubleshooting NOTE: If you encounter problems that are not mentioned in this chapter, contact the ASUS Technical Support. Troubleshooting I cannot access a web browser for configuring the router. • Delete the cookies and files in your web browser. To do this, follow these steps: 1. Launch your web browser, then click Tools > Internet Options...

[Page 49](#) Cannot find the router: • Press the Reset button at the rear panel for more than five seconds. • Check the setting in the wireless adapter such as SSID and encryption settings. Cannot access the Internet via wireless LAN adapter. • Move the router closer to the wireless client. •...

[Page 50](#) 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...

### [Page 51: Asus Ddns Service](#)

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.

[Page 52](#) 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...

### [Page 53: Appendices](#)

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[Page 54](#) 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.

### [Page 55: Safety Information](#)

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 -...

[Page 56](#) and RSS-210. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. Radio Frequency (RF) Exposure Information The radiated output power of the Dell Wireless Device is below the Industry Canada (IC) radio frequency exposure limits.

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### [Page 67: Networks Global Hotline Information](#)

Networks Global Hotline Information Support Working Working Area Hotline Number Languages Hour Australia 1300-2787-88 English 8:00-20:00 Mon. to Fri. Austria 0043-820240 13 German 9:00-18:00 Mon. to Fri. Belgium 0032-781 0231 Dutch /French 9:00-17:00 Mon. to Fri. Simplified Mon. to China 400-620-66 9:00-18:00 Chinese Sun.

### [Page 68: Networks Global Hotline Information](#)

Mon. to Fri 0044-870-1208340; United Kingdom English 9:00-17:00 Mon. to Fri. 003 31890719918 8:30-12:00am Mon. to Fri. (3:30am- 9:00pm PST) USA/Canada 1-812-282-2787 English 9:00am- Sat. to Sun. 6:00pm EST (6:00am- 3:00pm PST) NOTE: For more information, visit the ASUS support site at: <http://support.asus.com...>

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