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You can read the recommendations in the user guide, the technical guide or the installation guide for NETGEAR WGT634U. You'll find the answers to all your questions on the NETGEAR WGT634U in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NETGEAR WGT634U
User guide NETGEAR WGT634U
Operating instructions NETGEAR WGT634U
Instructions for use NETGEAR WGT634U
Instruction manual NETGEAR WGT634U

Reference Manual for the 108 Mbps Wireless Media Router WGT634U



NETGEAR

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4500 Great America Parkway
Santa Clara, CA 95054 USA

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[You're reading an excerpt. Click here to read official NETGEAR WGT634U user guide](http://yourpdfguides.com/dref/3797118)
<http://yourpdfguides.com/dref/3797118>

Manual abstract:

Statement of Conditions In the interest of improving internal design, operational function, and/or reliability, NETGEAR reserves the right to make changes to the products described in this document without notice. NETGEAR does not assume any liability that may occur due to the use or application of the product(s) or circuit layout(s) described herein. Federal Communications Commission (FCC) Compliance Notice: Radio Frequency Notice 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.

FCC Caution 1. FCC RF Radiation Exposure Statement: The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

2. 3. ii April 2004, 202-10018-02 Europe - EU Declaration of Conformity This device is a 2.4 GHz low power RF device intended for home and office use in EU and EFTA member states. In some EU / EFTA member states some restrictions may apply.

Please contact local spectrum management authorities for further details before putting this device into operation. Marking by the above symbol indicates compliance with the Essential Requirements of the R&TTE Directive of the European Union (1999/5/EC). This equipment meets the following conformance standards: EN300 328, EN301 489-17, EN60950, EN 60950 1992 2nd Edition (A1-A4, A11) Safety of Information Technology Equipment, Including Electrical Business Equipment EN 300 328-1 V1.3.1 (2001-12); EN 300328-2 V1.2.1 (2001-12) Electromagnetic compatibility and Radio spectrum Matters (ERM); Wideband Transmission system; data transmission equipment operating in the 2.4 Ghz ISM band and using spread spectrum modulation techniques; Part 1: Technical characteristics and test conditions; Part 2; Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive. EN 301 489-1, Aug.

2000; EN 301489-17, Sept. 2000 - Electromagnetic compatibility and radio spectrum matters (ERM); electromagnetic compatibility (EMC); standard for radio equipment and services: Part 1: Common technical requirements; Part 17: Specific conditions for Wideband Data and Hiperlan equipment. EN 55 022 Declaration of Conformance This is to certify that the 108 Mbps Wireless Media Router WGT634U is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC, Article 4a. Conformity is declared by the application of EN 55 022 Class B (CISPR 22). Compliance with the applicable regulations is dependent upon the use of shielded cables. It is the responsibility of the user to procure the appropriate cables. Requirements For Operation in the European Community Countries of Operation and Conditions of Use in the European Community The user should run the configuration utility program provided with this product to check the current channel of operation and confirm that the device is operating in conformance with the spectrum usage rules for European Community countries as described in this section. European standards dictate a maximum radiated transmit power of 100mW EIRP and a frequency range of 2.400 - 2.4835 Ghz.

Operation Using 2.4 GHz Channels in France The following radio channel usage limitations apply in France. The radio spectrum regulator in France, Autorité de regulation des telecommunications (ART), enforces the latest rules with respect to use of 2.4GHz spectrum in various locations in France. Please check ART's Web site for latest requirements for use of the 2.

4GHz band in France: <http://www.art-telecom.fr/eng/index.htm>. When operating in France, this device may be operated under the following conditions: Indoors only, using any channel in the 2.

4465-2.4835 GHz band. iii April 2004, 202-10018-02 Bestätigung des Herstellers/Importeurs Es wird hiermit bestätigt, daß das 108 Mbps Wireless Media Router WGT634U gemäß der im BMPT-AmtsblVfg 243/ 1991 und Vfg 46/1992 aufgeführten Bestimmungen entstört ist. Das vorschriftsmäßige Betreiben einiger Geräte (z.B. Testsender) kann jedoch gewissen Beschränkungen unterliegen. Lesen Sie dazu bitte die Anmerkungen in der Betriebsanleitung. Das Bundesamt für Zulassungen in der Telekommunikation wurde davon unterrichtet, daß dieses Gerät auf den Markt gebracht wurde und es ist berechtigt, die Serie auf die Erfüllung der Vorschriften hin zu überprüfen. Certificate of the Manufacturer/Importer It is hereby certified that the 108 Mbps Wireless Media Router WGT634U has been suppressed in accordance with the conditions set out in the BMPT-AmtsblVfg 243/1991 and Vfg 46/1992. The operation of some equipment (for example, test transmitters) in accordance with the regulations may, however, be subject to certain restrictions.

Please refer to the notes in the operating instructions. Federal Office for Telecommunications Approvals has been notified of the placing of this equipment on the market and has been granted the right to test the series for compliance with the regulations. Voluntary Control Council for Interference (VCCI) Statement This equipment is in the second category (information equipment to be used in a residential area or an adjacent area thereto) and conforms to the standards set by the Voluntary Control Council for Interference by Data Processing Equipment and Electronic Office Machines aimed at preventing radio interference in such residential areas. When used near a radio or TV receiver, it may become the cause of radio interference. Read instructions for correct handling.

Customer Support Refer to the Support Information Card that shipped with your 108 Mbps Wireless Media Router WGT634U.



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[WGT634U user guide](http://yourpdfguides.com/dref/3797118)

<http://yourpdfguides.com/dref/3797118>

World Wide Web NETGEAR maintains a World Wide Web home page that you can access at the uniform resource locator (URL) <http://www.netgear.com>. A direct connection to the Internet and a Web browser such as Internet Explorer or Netscape are required.

iv April 2004, 202-10018-02 Contents Chapter 1 About This Manual Audience, Scope, Conventions, and Formats

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..... G-1 Index Contents April 2004, 202-10018-02 xi Chapter 1 About This Manual This chapter describes the intended audience, scope, conventions, and formats of this manual. Audience, Scope, Conventions, and Formats This reference manual assumes that the reader has basic to intermediate computer and Internet skills. However, basic computer network, Internet, firewall, and VPN technologies tutorial information is provided in the Appendices and on the NETGEAR Web site. This guide uses the following typographical conventions: Table 1-1.

italics bold times roman courier font Typographical Conventions Emphasis, books, CDs, URL names User input Screen text, file and server names, extensions, commands, IP addresses This guide uses the following formats to highlight special messages: Note: This format is used to highlight information of importance or special interest. This manual is written for the WGT634U Wireless Media Router according to these specifications.: Table 1-2. Product Version Manual Part Number Manual Publication Date Manual Scope 108 Mbps Wireless Media Router WGT634U 202-10018-02 April 2004 Note: Product support information and updates are available on the NETGEAR, Inc. Web site at <http://kbserver.netgear.com/products/WGT634U.asp>. About This Manual April 2004, 202-10018-02 1 Reference Manual for the 108 Mbps Wireless Media Router WGT634U How to Use This Manual The HTML version of this manual includes a variety of navigation features as well as links to PDF versions of the full manual and individual chapters. 1 2 3 Figure 1-1: HTML version of this manual 1.

Left pane. Use the left pane to view the Contents, Index, Search, and Favorites tabs. To view the HTML version of the manual, you must use a Java-enabled browser that supports HTTP uploads. For example, Microsoft Internet Explorer or Netscape Navigator 4.0 or above.

2. Toolbar buttons. Use the toolbar buttons across the top to navigate, print pages, and more. The Show in Contents button locates the current topic in the Contents tab. Previous/Next buttons display the previous or next topic.

The PDF button links to a PDF version of the full manual. The Print button prints the current topic. Using this button when a step-by-step procedure is displayed will send the entire procedure to your printer--you do not have to worry about specifying the correct range of pages. 3. Right pane. Use the right pane to view the contents of the manual. Also, each page of the manual includes a link at the top right which links to a PDF file containing just the currently selected chapter of the manual. 2 April 2004, 202-10018-02 About This Manual Reference Manual for the 108 Mbps Wireless Media Router WGT634U How to Print this Manual To print this manual you can choose one of the following several options, according to your needs. · Printing a "How To" Sequence of Steps in the HTML View. Use the Print button on the upper right of the toolbar to print the currently displayed topic.

Using this button when a step-by-step procedure is displayed will send the entire procedure to your printer. You do not have to worry about specifying the correct range of pages. Printing a Chapter. Use the link at the top right of any page. · Click "PDF of This Chapter" link at the top right of any page in the chapter you want to print. The PDF version of the chapter you were viewing opens in a browser window. Note: Your computer must have the free Adobe Acrobat reader installed in order to view and print PDF files. The Acrobat reader is available on the Adobe Web site at <http://www.adobe.com>.

Click the print icon in the upper left of the window. Tip: If your printer supports printing two pages on a single sheet of paper, you can save paper and printer ink by selecting this feature. · Printing the Full Manual. Use the PDF button in the toolbar at the top right of the browser window. Click the PDF button on the upper right of the toolbar.

The PDF version of the chapter you were viewing opens in a browser window. Click the print icon in the upper left of the window. Tip: If your printer supports printing two pages on a single sheet of paper, you can save paper and printer ink by selecting this feature. About This Manual April 2004, 202-10018-02 3 Chapter 2 Introduction Congratulations on your purchase of the NETGEAR® 108 Mbps Wireless Media Router WGT634U. The WGT634U Wireless Media Router provides connection for multiple personal computers (PCs) to the Internet through an external broadband access device (such as a cable modem or DSL modem) that is normally intended for use by a single PC.

By connecting a storage device to the WGT634U through the integrated USB 2.0 interface, you can store and share files and entertainment content for access from PC and Web applications on computers connected on the home network as well as from the Internet. This chapter describes the features of the NETGEAR 108 Mbps Wireless Media Router WGT634U. Introduction to the WGT634U Wireless Media Router The 108 Mbps Wireless Media Router WGT634U with 4-port switch connects your local area network (LAN) to the Internet through an external access device such as a cable modem or DSL modem. The WGT634U Wireless Media Router provides you with multiple Web content filtering options, plus browsing activity reporting and instant alerts -- both via e-mail. Parents and network administrators can establish restricted access policies based on time-of-day, Web site addresses and address keywords, and share high-speed cable/DSL Internet access for up to 253 personal computers. In addition to the Network Address Translation (NAT) feature, the built-in firewall protects you from hackers. Home networks initially gained popularity for broadband Internet sharing through wired (first generation) and wireless (second generation) routers. The addition of Internet-enabled appliances is leading to the 'third generation' of performance and functionality from wireless routers. The WGT634U is a third generation wireless router that allows router-attached storage and provides fast wireless access.

It enables you to store and stream files, audio, and video content from a high-capacity USB-enabled disk drive. You can take advantage of advanced networking functions such as application-level access to music, photo and other PC files as well as remote access to a home portal. With minimum setup, you can install and use the router within minutes. Introduction April 2004, 202-10018-02 2-1 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Key Features of the WGT634U Wireless Media Router The WGT634U Wireless Media Router provides the following features: · ICSA

(International Computer Security Association) standards-compliant 802.11g wireless networking, with the ability to operate in 802.11g-only, 802.11-turbo-g-only, or 802.11b+g modes Built-in 4-port 10/100 Mbps switch Ethernet connection to a wide area network (WAN) device, such as a cable modem or DSL modem Extensive protocol support Enhanced security and privacy features: Double firewall with both Network Address Translation (NAT) and Stateful Packet Inspection (SPI) support 64- and 128- WEP encryption WPA PSK (Wi-Fi Protected Access Pre-Shared Key) support Multiple VPN pass-through support Intrusion detection Security logging with e-mail alerts URL content filtering and site blocking security: . . Guards against DOS (Denial of Service) attacks Advanced access policy control based upon time window and user groups . . . Support for DMZ network Flash memory for firmware upgrades Integrated USB 2.



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0 port allows plug-in storage device with: · · Data transfer speeds that are double that of 802.11g equipment Long-range wireless transfer of bandwidth-intensive multimedia applications including digital images, videos and MP3 files · Easy, Web-based setup for installation and management, including a Smart Wizard install assistant, an interactive tutorial for ease of set-up, a Smart Wizard setup of the client devices and the external USB disk, and an assisted firmware update feature 2-2 April 2004, 202-10018-02 Introduction Reference Manual for the 108 Mbps Wireless Media Router WGT634U USB Storage Device for File Sharing The 802.

11g-compliant WGT634U is a secure, easy-to-use wireless networking solution that takes home networking to the next level. The fast wireless speeds and enhanced range enable the WGT634U to stream video to distances of more than 200 feet. Delivering data transfer speeds that are double that of 802.11g equipment, the WGT634U Super Wireless Media Router provides multiple simultaneous users with high-speed, extended range wireless connectivity to support the long-range wireless data transfer. In addition, the integration of a USB 2.

0-compliant interface makes the WGT634U the industry's first home networking product to enable the connection of an external storage device, such as a high-capacity disk drive or other USB memory device, for centralized network backup or storage and sharing of files and multimedia content. DMZ Support DMZ stands for Demilitarized Zone. This feature allows one IP Address to be exposed to the Internet. DMZ allows only one computer to be exposed when multiple TCP/IP ports need to be open. If you want to use DMZ, it is recommended that you set up a computer with a static IP.

When DMZ is used, all specific requests are forwarded to the DMZ host. The exposed user's computer does not share the public IP with the router. 802.11g Wireless Networking The WGT634U Wireless Media Router includes an 802.11g wireless access point, providing continuous, high-speed 54 Mbps access between your wireless and Ethernet devices. The access point provides: · · 802.11g wireless networking at up to 108 Mbps. 802.11g wireless networking, with the ability to operate in 802.11g-only, 802.

11-turbo-g-only, or 802.11b+g modes, providing backwards compatibility with 802.11b devices or dedicating the wireless network to the higher bandwidth 802.11g devices. 64-bit and 128-bit WEP encryption security. WEP keys can be generated manually or by passphrase. Wireless access can be restricted by MAC address. Wireless network name broadcast can be turned off so that only devices that have the network name (SSID) can connect. 2-3 April 2004, 202-10018-02 · · · Introduction Reference Manual for the 108 Mbps Wireless Media Router WGT634U A Powerful, True Firewall with Content Filtering Unlike simple Internet sharing NAT routers, the WGT634U is a true firewall, using stateful packet inspection to defend against hacker attacks. Its firewall features include: · · · Denial of Service (DoS) protection.

Automatically detects and thwarts DoS attacks such as Ping of Death, SYN Flood, LAND Attack, and IP Spoofing. Blocks unwanted traffic from the Internet to your LAN. Blocks access from your LAN to Internet locations or services that you specify as off-limits. The WGT634U blocks objectionable content from reaching your computers. The router allows you to control access to Internet content by screening for keywords within Web addresses.

You can configure the router to log and report attempts to access objectionable Internet sites. Security The WGT634U Wireless Media Router is equipped with several features designed to maintain security, as described in this section. · PCs Hidden by NAT NAT opens a temporary path to the Internet for requests originating from the local network. Requests originating from outside the LAN are discarded, preventing users outside the LAN from finding and directly accessing the computers on the LAN. Port Forwarding with NAT Although NAT prevents Internet locations from directly accessing the computers on the LAN, the router allows you to direct incoming traffic to specific computers based on the service port number of the incoming request, or to one designated "DMZ" host computer.

You can specify forwarding of single ports or ranges of ports. Logs security incidents. The WGT634U will log security events such as blocked incoming traffic, port scans, attacks, and administrator logins. You can configure the router to e-mail the log to you at specified intervals. You can also configure the router to send immediate alert messages to your e-mail address or e-mail pager whenever a significant event occurs. · Autosensing Ethernet Connections with Auto Uplink With its internal 8-port 10/100 switch, the WGT634U can connect to either a 10 Mbps standard Ethernet network or a 100 Mbps Fast Ethernet network. Both the LAN and WAN interfaces are autosensing and capable of full-duplex or half-duplex operation. 2-4 April 2004, 202-10018-02 Introduction Reference Manual for the 108 Mbps Wireless Media Router WGT634U The router incorporates Auto Uplink™ technology. Each Ethernet port will automatically sense whether the Ethernet cable plugged into the port should have a 'normal' connection such as to a computer or an 'uplink' connection such as to a switch or hub. That port will then configure itself to the correct configuration.

This feature also eliminates the need to worry about crossover cables, as Auto Uplink will accommodate either type of cable to make the right connection. Extensive Protocol Support The WGT634U Wireless Media Router supports the Transmission Control Protocol/Internet Protocol (TCP/IP) and Routing Information Protocol (RIP). For further information about TCP/IP, refer to Appendix B, "Network, Routing, Firewall, and Basics". · IP Address Sharing by NAT The WGT634U Wireless Media Router allows several networked computers to share an Internet account using only a single IP address, which may be statically or dynamically assigned by your Internet service provider (ISP). This technique, known as NAT, allows the use of an inexpensive single-user ISP account. Automatic Configuration of Attached PCs by DHCP The WGT634U Wireless Media Router dynamically assigns network configuration information, including IP, gateway, and domain name server (DNS) addresses to attached PCs on the LAN using the Dynamic Host Configuration Protocol (DHCP). This feature greatly simplifies configuration of computers on your local network. DNS Proxy When DHCP is enabled and no DNS addresses are specified, the router provides its own address as a DNS server to the attached computers. The router obtains actual DNS addresses from the ISP during connection setup and forwards DNS requests from the LAN. PPP over Ethernet (PPPoE) PPPoE is a protocol for connecting remote hosts to the Internet over a DSL connection by simulating a dial-up connection.



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This feature eliminates the need to run a login program such as Entersys or WinPOET on your PC. . . . Easy Installation and Management You can install, configure and operate the 108 Mbps Wireless Media Router WGT634U within minutes after connecting it to the network. The following features simplify installation and management tasks: Introduction April 2004, 202-10018-02 2-5 Reference Manual for the 108 Mbps Wireless Media Router WGT634U . . . Browser-based management Browser-based configuration allows you to easily configure your router from almost any type of personal computer, such as Windows, Macintosh, or Linux. A user-friendly Setup Wizard is provided and online help documentation is built into the browser-based Web Management Interface. Smart Wizard Internet Connection Setup The WGT634U Wireless Media Router Smart Wizard automatically senses the type of Internet connection, asking you only for the information required for your type of ISP account.

Smart Wizard External USB Disk Setup The WGT634U Wireless Media Router Smart Wizard automatically senses the addition of a plug-in USB device and assists in the configuration. Firmware Auto-Update When you log in to the WGT634U Wireless Media Router, the menu asks if you want to check the Internet to see if a newer version of firmware is available. If so, the configuration screen asks if you want to install the upgrade. This lets you take advantage of product enhancements for your WGT634U as soon as they become available. Visual monitoring The WGT634U Wireless Media Router's front panel LEDs provide an easy way to monitor its status and activity.

. . . . Maintenance and Support NETGEAR offers the following features to help you maximize your use of the WGT634U Wireless Media Router: . . . Flash memory for firmware upgrades Free technical support seven days a week, twenty-four hours a day 2-6 April 2004, 202-10018-02 Introduction Reference Manual for the 108 Mbps Wireless Media Router WGT634U Package Contents The product package should contain the following items: 108 Mbps Wireless Media Router WGT634U. AC power adapter. Vertical stand. Category 5 (CAT5) Ethernet cable. 108 Mbps Wireless Media Router WGT634U Resource CD (230-10043-02), including: -- This guide. -- Application Notes and other helpful information. . . . 108 Mbps Wireless Media Router WGT634U Installation Guide. Registration and Warranty Card. Support Information Card. If any of the parts are incorrect, missing, or damaged, contact your NETGEAR dealer.

Keep the carton, including the original packing materials, in case you need to return the router for repair. Introduction April 2004, 202-10018-02 2-7 Reference Manual for the 108 Mbps Wireless Media Router WGT634U The Router's Front Panel The front panel of the WGT634U Wireless Media Router contains the status LEDs described below. There are 4 LAN ports on the router, with LAN port 4 highlighted in the figure below: Figure 2-1: WGT634U Front Panel You can use some of the LEDs to verify connections. Viewed from left to right, Table 2-1 describes the LEDs on the front panel of the router. These LEDs are green when active. Table 2-1. Label LED Descriptions Activity On Description Power is supplied to the router. Power is not supplied to the router. The Internet (Wide Area Network) port has detected a link with an attached device. Data is being transmitted or received by the Internet port. On Indicates that the Wireless feature is turned on. Indicates that the Wireless feature is turned off or not functioning. The Local (LAN) port has detected link with a 100 Mbps device. Data is being transmitted or received at 100 Mbps. The Local port has detected link with a 10 Mbps device.

Data is being transmitted or received at 10 Mbps. No link is detected on this port. Off On (Green) Power Off On Blink Internet Wireless Local Blink (Green) On (Amber) (Port number can Blink (Amber) be 1-4) Off 2-8 April 2004, 202-10018-02 Introduction Reference Manual for the 108 Mbps Wireless Media Router WGT634U The Router's Rear Panel The rear panel of the WGT634U contains the port connections listed below. Figure 2-2: WGT634U Rear Panel Viewed from left to right, the rear panel contains the following features: AC power adapter outlet Four Local (LAN) 10/100 Mbps Ethernet ports for connecting the router to the local computers Internet (WAN) Ethernet port for connecting the router to a cable or DSL modem USB port for connecting a USB drive Factory default Reset push button Wireless antenna A Road Map for 'How to Get There From Here' The introduction and adoption of any new technology can be a difficult process. Broadband Internet service is considered so useful that more and more people want to set up networks in their home to share a broadband connection.

Wireless technology has removed one of the barriers to networking--running wires. It allows more people to try networking while at the same time exposes them to the inherent complexity of networking. General networking concepts, setup, and maintenance can be difficult to understand. In addition, wireless technology adds issues, such as range, interference, signal quality, and security to the picture. Introduction April 2004, 202-10018-02 2-9 Reference Manual for the 108 Mbps Wireless Media Router WGT634U To help overcome potential barriers to successfully using home networks, the table below identifies how to accomplish such things as connecting to a wireless network, assuring appropriate security measures are taken, browsing the Internet through your wireless connection, exchanging files with other computers and using printers in the combined wireless and wired network. Table 2-1. A Road Map for How to Get There From Here ... What's Needed? . A wireless network How Do I? To set up the WGT634U, see Chapter 3, "Connecting the Router to the Internet" and follow the instructions provided.

To learn about wireless networking technology, see Appendix D, "Wireless Networking Basics" for a general introduction. If I Want To ... ? What Do I Do? Set up a wireless network 1. Set up the 108 Mbps Wireless Media Router WGT634U . A computer within the operating range of the wireless network. For guidelines about the range 2. Identify the wireless of wireless networks, see network name "Observe Performance, (SSID) and, if used, Placement, and Range the wireless Guidelines" on page 4-1. security settings. 3.

Set up the wireless computers with the settings from step 1. Protect my wireless connection from snooping, hacking, or information theft. 1. Assure that the wireless network has security features enabled. 2.

Configure my WGT634U with the security settings of the wireless network.



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3. Use Windows security features. · A wireless network WEP security enabled. · Wireless networking equipment that supports WEP, such as the WGT634U and all NETGEAR wireless networking products.

To learn about wireless networking security, see "Authentication and WEP Data Encryption" on page D-2. To use WEP security features, see "Implement Appropriate Wireless Security" on page 4-2 and configure your WGT634U accordingly. Note: Secure Internet sites such as banks and online merchants use encryption security built into browsers like Internet Explorer and Netscape Navigator. Any wireless networking security features you might implement are in addition to those already in place on secure Internet sites. 2-10 April 2004, 202-10018-02 Introduction Reference Manual for the 108 Mbps Wireless Media Router WGT634U Table 2-1. A Road Map for How to Get There From Here ... What's Needed? How Do I? For assistance with accessing files on the shared USB drive, please see Chapter 5, "Connecting a USB Drive to the Router". If I Want To .

.. ? What Do I Do? Share photos and files with friends and family at home and over the Internet 1. Set up a USB drive · A compatible USB drive. on the 108 Mbps Wireless Media Router WGT634U according to the instructions creating accounts, and sharing files in "Connecting a USB Drive to the Router" on page 5-1. 2. For people in your home, show them how to find the files on the USB drive by "Connecting to the USB Drive from a Local Web Browser" on page 5-11. 3. For people on the Internet, show them how to find the files on the USB drive by "Connecting to the USB Drive from a Remote Computer" on page 5-11. Introduction April 2004, 202-10018-02 2-11 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Table 2-1.

A Road Map for How to Get There From Here ... What's Needed? How Do I? Windows Domain settings are usually managed by corporate computer support groups. Windows Workgroup settings are commonly managed by individuals who want to set up small networks in their homes, or small offices.

If I Want To ... ? What Do I Do? Share printers at home in a combined wireless and wired network. · The notebook computer I 1.

Use the Windows am using to connect to the Printers and Fax wireless network needs to features to locate be configured with the available printers in Windows Client and File the combined and Print Sharing, wireless and wired network in your · The notebook computer I home. am using to connect to the wireless network needs to 2. Use the Windows be configured with the Add a Printer same Windows Workgroup wizard to add or Domain settings as the access to a network other Windows computers printer from the in the combined wireless notebook PC you and wired network. are using to For assistance with setting up Windows networking, refer to the PC Networking Tutorial on the 108 Mbps Wireless Media Router WGRT634U Resource wirelessly connect · Any Windows networking CD (230-10043-02) and the Help to the network. security access rights such information provided in the as login user name/ 3. From the File menu Windows system you are using. password that have been of an application assigned in the Windows such as Microsoft network must be provided For assistance with setting up Word, use the Print when Windows prompts for printers in Windows, refer to the Setup feature to Help and Support information such information. direct your print that comes with the version of output to the printer · If so-called Windows 'peer' the Windows operating systems in the network. networking is being used, you are using.

the printer needs to be enabled for sharing. 2-12 April 2004, 202-10018-02 Introduction Chapter 3 Connecting the Router to the Internet This chapter describes how to set up the router on your local area network (LAN) and connect to the Internet. You will find out how to configure your 108 Mbps Wireless Media Router WGT634U for Internet access using the Setup Wizard, or how to manually configure your Internet connection. What You Will Need Before You Begin You need to prepare these three things before you begin: Have active Internet service such as that provided by a cable or DSL broadband account. 2. Locate the Internet Service Provider (ISP) configuration information for your DSL account. 3. Connect the router to a cable or DSL modem and a computer as explained below. 1. Cabling and Computer Hardware Requirements To use the WGT634U Wireless Media Router on your network, each computer must have an installed Ethernet Network Interface Card (NIC) and an Ethernet cable.

If the computer will connect to your network at 100 Mbps, you must use a Category 5 (Cat 5) cable such as the one provided with your router. The cable or DSL broadband modem must provide a standard 10 Mbps (10BASE-T) or 100 Mbps (100BASE-Tx) Ethernet interface. Computer Network Configuration Requirements The WGT634U includes a built-in Web Configuration Manager. To access the configuration menus on the WGT634U, you must use a Java-enabled Web browser program which supports HTTP uploads such as Microsoft Internet Explorer or Netscape Navigator. Use Internet Explorer or Netscape Navigator 4.

0 or above. For the initial setup of your router, you will need to connect a computer to the router. This computer has to be set to automatically get its TCP/IP configuration from the router via DHCP. Note: For help with DHCP configuration, please use the Windows TCP/IP Configuration Tutorials on the 108 Mbps Wireless Media Router WGRT634U Resource CD (230-10043-02), or refer to Appendix C, "Preparing Your Network". Connecting the Router to the Internet April 2004, 202-10018-02 3-1 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Internet Configuration Requirements Depending on how your ISP set up your Internet account, you will need one or more of these configuration parameters to connect your router to the Internet: · Host and Domain Names · ISP Login Name and Password · ISP Domain Name Server (DNS) Addresses · Fixed IP Address which is also known as Static IP Address

Where Do I Get the Internet Configuration Parameters? There are several ways you can gather the required Internet connection information.

· Your ISP provides all the information needed to connect to the Internet. If you cannot locate this information, you can ask your ISP to provide it or you can try one of the options below. · If you have a computer already connected using the active Internet access account, you can gather the configuration information from that computer. -- For Windows 95/98/ME, open the Network control panel, select the TCP/IP entry for the Ethernet adapter, and click Properties. Record all the settings for each tab page. -- For Windows 2000/XP, open the Local Area Network Connection, select the TCP/IP entry for the Ethernet adapter, and click Properties.



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Record all the settings for each tab page. -- For Macintosh computers, open the TCP/IP or Network control panel. Record all the settings for each section. You may also refer to the 108 Mbps Wireless Media Router WGT634U Resource CD (230-10043-02) for the NETGEAR Router ISP Guide which provides Internet connection information for many ISPs.

Once you locate your Internet configuration parameters, you may want to record them on the page below. 3-2 Connecting the Router to the Internet April 2004, 202-10018-02 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Record Your Internet Connection Information Print this page. Fill in the configuration parameters from your Internet Service Provider (ISP). ISP Login Name: The login name and password are case sensitive and must be entered exactly as given by your ISP. Some ISPs use your full e-mail address as the login name. The Service Name is not required by all ISPs. If you connect using a login name and password, then fill in the following: Login Name: _____ Password: _____

Service Name: _____ Fixed or Static IP Address: If you have a static IP address, record the following information. For example, 169.254.141.

148 could be a valid IP address. Fixed or Static Internet IP Address: _____ Gateway IP Address: _____ Subnet Mask: _____ ISP DNS Server Addresses: If you were given DNS server addresses, fill in the following: Primary DNS Server IP Address: _____ Secondary DNS Server IP Address: _____ Host and Domain Names: Some ISPs use a specific host or domain name like CCA7324-A or home. If you haven't been given host or domain names, you can use the following examples as a guide: If your main e-mail account with your ISP is aaa@yyy.com, then use aaa as your host name. Your ISP might call this your account, user, host, computer, or system name.

If your ISP's mail server is mail.xxx.yyy.com, then use xxx.yyy.com as the domain name. ISP Host Name: _____ ISP Domain Name: _____ For Wireless Access: For configuration of the wireless network, record the following: Wireless Network Name (SSID): _____ Encryption (circle one): WEP 64, or WEP 128 WEP passphrase or key: _____

Connecting the Router to the Internet April 2004, 202-10018-02 3-3 Reference Manual for the 108 Mbps Wireless Media Router WGT634U First, Connect the WGT634U to the Internet Follow the steps below to connect your WGT634U to the Internet. 1. **CONNECT THE WIRELESS ROUTER BETWEEN YOUR COMPUTER & MODEM** Turn off your computer and broadband modem (cable or DSL). b. Disconnect the Ethernet cable from your computer (point A in the diagram below). a. A Broadband modem Figure 3-1: Disconnect the Ethernet cable from your computer c. Securely insert the Ethernet cable into the Internet port (B) on the WGT634U. Your cable or DSM modem is now connected directly to the WAN port of the WGT634U Wireless Media Router.

Internet Port B Broadband modem Figure 3-2: Connect the Ethernet cable to the router 3-4 Connecting the Router to the Internet April 2004, 202-10018-02 Reference Manual for the 108 Mbps Wireless Media Router WGT634U d. Securely insert one end of the Ethernet cable that came with your wireless router into a LAN port on the router such as LAN port 4 (C), and the other end into the Ethernet port of your computer (D). D C Figure 3-3: Connect the computers on your network to the router Note: It is best to use the vertical stand that comes with your router. Be sure to set up your router so that it has adequate ventilation. Do not stack it on a device that produces a lot of heat such as a large USB drive. 2. **RESTART YOUR NETWORK IN THE CORRECT SEQUENCE** Warning: Failure to restart your network in the correct sequence could prevent you from connecting to the Internet. First, turn on the cable or DSL modem and wait 2 minutes. b. Now, turn on your wireless router by plugging in the power cord, and then wait 30 seconds.

c. Last, turn on your computer. Note: If a dialup or network connection usually logs you in to the Internet on startup, do not run that software or cancel it if it starts automatically. a. Connecting the Router to the Internet April 2004, 202-10018-02 3-5 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Power Internet Wireless LAN Port 4 Check the status lights and verify the following: Power: Verify that the power light is on. When you first turn on the router, the power light blinks while the router performs a diagnostic self test. When the test completes, the power light turns solid green. If after 2 minutes the power light continues to blink, reset the unit using the factory Reset button according to the instructions in "Restoring the Default Configuration and Password" on page 9-7. Internet: Verify that the Internet light on the wireless router is lit. If not, make sure the Ethernet cable is securely attached to the wireless router Internet port and the powered on modem.

Wireless: Verify that the Wireless light is lit. The factory default setting is for the wireless feature to be turned on. If you turn off the wireless feature, the Wireless light will go off. If the wireless feature is turned on but the Wireless light is off, reset the unit using the factory Reset button according to the instructions in "Restoring the Default Configuration and Password" on page 9-7. LAN: A LAN light is lit. Green indicates your computer is operating at 100 Mbps speed. Amber indicates 10 Mbps speed. If no LAN lights are lit, check that the Ethernet cable connecting the powered on computer to the router is securely attached at both ends. . . . 3. **LOG IN TO THE WIRELESS ROUTER** a.

From your computer, launch a browser such as Internet Explorer or Netscape® Navigator. Connect to the wireless router by typing http://192.168.1.1 in the address field of your browser. 3-6 Connecting the Router to the Internet April 2004, 202-10018-02 Reference Manual for the 108 Mbps Wireless Media Router WGT634U A login window like the one shown below opens: Figure 3-4: Login window b. Enter admin for the router user name and password for the router password, both in lower case letters. Note: The router user name and password are not the same as any user name or password you may use to log in to your Internet connection. c. After logging in to the router, you will see a Firmware Upgrade prompt.

Skip the upgrade this time by clicking the No button. Use the Setup Wizard first to connect to the Internet. 4. **RUN THE SETUP WIZARD TO CONNECT TO THE INTERNET** Figure 3-5: Setup Wizard a. b.

You are now connected to the router. If you do not see the wizard above, click the Setup Wizard link on the upper left of the main menu.



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Leave the Yes option selected to have the setup program automatically detect your Internet connection type. Click Next to proceed. Follow the screen prompts and input your ISP settings, as needed.

Connecting the Router to the Internet April 2004, 202-10018-02 3-7 Reference Manual for the 108 Mbps Wireless Media Router WGT634U If prompted with the message that new software is available, click Yes and follow the on-screen prompts to update your router with the latest software enhancements. If you choose not to use the auto-update feature, you can check for new firmware by following the procedure in Step 5 or the section "Upgrading the Router Software" on page 7-5. d. The Setup Smart Wizard will report the type of connection it finds. The options are: · Connections which require a login using protocols such as PPPoE, PPTP, Telstra, or Bigpond broadband connections. · Connections which use dynamic IP address assignment. · Connections which use fixed IP address assignment. Instructions for filling in the configuration menu for each type of connection are presented later in this chapter. e. At the end of the Setup Wizard, click the Test button which saves your settings and connects to the NETGEAR Web site.

Register your product. Note: If you do not see the Test button, click the Basic Settings link in the left navigator and then click the Test button to verify your Internet connection. If you have trouble connecting to the Internet, use the Troubleshooting Tips below to correct basic problems. c. Note: Product updates are available on the NETGEAR, Inc. Web site at <http://www.netgear.com/support/main.asp>. You are now connected to the Internet! 5.

CHECK FOR THE LATEST VERSION OF THE FIRMWARE After you have established your connection, the first thing you should do is check for the latest version of the firmware. New features and options may have been added to assist you in your router configuration. From the main menu of the browser interface, under the Maintenance heading, select the Router Upgrade heading. See "Upgrading the Router Software" on page 7-5 for more information. Note: When uploading software to the WGT634U Wireless Media Router, it is important not to interrupt the Web browser by closing the window, clicking a link, or loading a new page.

If the browser is interrupted, it may corrupt the software. When the upload is complete, your router will automatically restart. The upgrade process will typically take about one minute. 3-8 Connecting the Router to the Internet April 2004, 202-10018-02 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Now, Set Up Basic Wireless Connectivity Now that you are connected to the Internet, follow the Smart Setup Wizard prompts to set up basic wireless connectivity. 1.

CONFIGURE THE WGT634U WIRELESS SETTINGS Select a Region. Do not change the other settings at this time. Figure 3-6: Select the wireless region only 2. **CONFIGURE THE WIRELESS ADAPTER SETTINGS** WIRELESS FEATURE Network Name (SSID) WEP Security DEFAULT SETTING NETGEAR Disabled Configure the wireless adapter of your computer to match these settings exactly. Warning: The Network Name (SSID) is case sensitive. That is, it you must enter NETGEAR in your computer's wireless settings. Entering nETgear will not work. 3. **VERIFY WIRELESS CONNECTIVITY** Verify wireless connectivity by connecting to the Internet or by logging in to the wireless router from a computer with a wireless adapter. For wireless connectivity problems, see the Troubleshooting Tips below.

You are now wirelessly connected to the Internet! Implement wireless security according to the instructions in Chapter 4. Connecting the Router to the Internet April 2004, 202-10018-02 3-9 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Basic Setup Troubleshooting Tips Here are some tips for correcting simple problems that may prevent you from connecting to the Internet or connecting to the wireless router. Make sure the wireless settings in the computer and router match exactly. The Wireless Network Name (SSID) and WEP settings of the router and wireless computer must match exactly. Be sure to restart your network in the correct sequence. Follow this sequence. Turn off the modem, wireless router, and computer. Turn on the modem first and wait two minutes. Next turn on the wireless router, and finally the computers. Make sure the Ethernet cables are securely plugged in.

· For each powered on computer connected to the wireless router with a securely plugged in Ethernet cable, the corresponding router LAN port status light will be lit. The label on the bottom of the wireless router identifies the number of each LAN port. · The Internet port status light on the wireless router will be lit if the Ethernet cable from the wireless router to the modem is plugged in securely and the modem and wireless router are both turned on. Make sure the network settings are correct. · LAN and wirelessly connected computers must be configured to obtain an IP address automatically via DHCP. For instructions on how to do this, please see the animated tutorials on the 108 Mbps Wireless Media Router WGT634U Resource CD (230-10043-02) or Appendix C, "Preparing Your Network". · Some cable modem ISPs require you to set the router to use the MAC address of the computer registered on the account. If so, in the Basic Settings menu Wireless Router MAC Address section, select "Use this Computer's MAC address". The router will then capture and use the MAC address of the computer that you are now using. You must be using the computer that is registered with the ISP.

Click Apply to save your settings. Restart the network in the correct sequence. Understanding the Setup Wizard Options The topics below describe each of the various options the Setup Wizard can detect. Use this information as a reference for filling in the Setup Wizard menus. 3-10 Connecting the Router to the Internet April 2004, 202-10018-02 Reference Manual for the 108 Mbps Wireless Media Router WGT634U PPPoE Smart Wizard-Detected Option If the Setup Smart Wizard discovers that your ISP uses PPPoE, you will see this menu: Figure 3-7: Setup Smart Wizard menu for PPPoE accounts Enter the Account Name, Domain Name, Login, and Password as provided by your ISP. These fields are case sensitive. The router will try to discover the domain automatically if you leave the Domain Name blank. Otherwise, you may need to enter it manually. To change the login timeout, enter a new value in minutes. This determines how long the router keeps the Internet connection active after there is no Internet activity from the LAN.

Entering a timeout value of zero means never log out. Note: You no longer need to run the ISP's login program on your computer in order to access the Internet. When you start an Internet application, your router will automatically log you in.



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If you know that your ISP does not automatically transmit DNS addresses to the router during login, select "Use these DNS servers" and enter the IP address of your ISP's Primary DNS Server. If a Secondary DNS Server address is available, enter it also. Note: If you enter DNS addresses, restart your computers so that these settings take effect. Click Apply to save your settings. Click Test to verify that your Internet connection works. If the NETGEAR Web site does not appear within one minute, refer to Chapter 9, "Troubleshooting". Connecting the Router to the Internet April 2004, 202-10018-02 3-11 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Telstra Bigpond Cable Smart Wizard-Detected Option If the Setup Wizard discovers Telstra Bigpond Cable is your ISP, you will see this menu: Figure 3-8: Setup Smart Wizard menu for Telstra Bigpond Cable accounts . . . Enter your Login, Password and Authentication Server.

These fields are case sensitive. Note: You will no longer need to launch the ISP's login program on your computer in order to access the Internet. When you start an Internet application, your router will automatically log you in. The Domain Name Server (DNS) Address parameters may be necessary to access your ISP's services such as mail or news servers. Note: If you enter DNS addresses, restart your computers so that these settings take effect.

Wireless Router MAC Address. This section determines the Ethernet MAC Address that will be used by the router on the Internet port. Some ISPs will register the Ethernet MAC address of the network interface card in your computer when your account is first opened. They will then only accept traffic from the MAC address of that computer. This feature allows your router to masquerade as that computer.

To change the MAC address, select "Use this Computer's MAC address." The router will then capture and use the MAC address of the computer that you are now using. You must be using the one computer that is allowed by the ISP. Or, select "Use this MAC address" and enter it. Connecting the Router to the Internet April 2004, 202-10018-02 3-12 Reference Manual for the 108 Mbps Wireless Media Router WGT634U . . . Click Apply to save your settings. Click Test to test your Internet connection. If the NETGEAR Web site does not appear within one minute, refer to Chapter 9, "Troubleshooting". Dynamic IP Smart Wizard-Detected Option If the Setup Wizard discovers that your ISP uses Dynamic IP assignment, you will see this menu: Figure 3-9: Setup Smart Wizard menu for Dynamic IP address accounts . . . Enter your Account Name (may also be called Host Name) and Domain Name. These parameters may be necessary to access your ISP's services such as mail or news servers. If you leave the Domain Name field blank, the router try to discover the domain.

Otherwise, you may need to enter it manually. If you know that your ISP does not automatically transmit DNS addresses to the router during login, select Use these DNS servers and enter the IP address of your ISP's Primary DNS Server. If a Secondary DNS Server address is available, enter it also. Note: If you enter DNS addresses, restart your computers so that these settings take effect. Click Apply to save your settings. Click Test to test your Internet connection. If the NETGEAR Web site does not appear within one minute, refer to Chapter 9, "Troubleshooting". Connecting the Router to the Internet April 2004, 202-10018-02 3-13 Reference Manual for the 108 Mbps Wireless Media Router WGT634U Fixed IP Account Smart Wizard-Detected Option If the Setup Wizard discovers that your ISP uses Fixed IP assignment, you will see this menu: Figure 3-10: Setup Smart Wizard menu for Fixed IP address accounts . . . Fixed IP is also called Static IP. Enter your assigned IP Address, Subnet Mask, and the IP Address of your ISP's gateway router. This information should have been provided to you by your ISP.

Refer to the configuration parameters from your ISP you recorded in "Record Your Internet Connection Information" on page 3-3. Enter the IP address of your ISP's Primary and Secondary DNS Server addresses. Note: Restart the computers on your network so that these settings take effect. Click Apply to save the settings. Click Test to test your Internet connection.

If the NETGEAR Web site does not appear within one minute, refer to Chapter 9, "Troubleshooting". 3-14 Connecting the Router to the Internet April 2004, 202-10018-02 Reference Manual for the 108 Mbps Wireless Media Router WGT634U How to Manually Configure Your Internet Connection You can manually configure your router using the menu below, or you can allow the Setup Wizard to determine your configuration as described in the previous section. ISP Does Not Require Login ISP Does Require Login Figure 3-11: Browser-based configuration Basic Settings menus You can manually configure the router using the Basic Settings menu shown in Figure 3-11 using these steps: Connecting the Router to the Internet April 2004, 202-10018-02 3-15 Reference Manual for the 108 Mbps Wireless Media Router WGT634U 1. 2. Click the Basic Settings link on the Setup menu.

If your Internet connection does not require a login, click No at the top of the Basic Settings menu and fill in the settings according to the instructions below.

If your Internet connection does require a login, click Yes, and skip to step 3. a. Enter your Account Name (may also be called Host Name) and Domain Name. These parameters may be necessary to access your ISP's services such as mail or news servers. Internet IP Address: If your ISP has assigned you a permanent, fixed (static) IP address for your computer, select "Use static IP address". Enter the IP address that your ISP assigned. Also enter the netmask and the Gateway IP address. The Gateway is the ISP's router to which your router will connect. Domain Name Server (DNS) Address: If you know that your ISP does not automatically transmit DNS addresses to the router during login, select "Use these DNS servers" and enter the IP address of your ISP's Primary DNS Server.

If a Secondary DNS Server address is available, enter it also. Note: If you enter an address here, restart the computers on your network so that these settings take effect. b. c. d. Gateway's MAC Address: This section determines the Ethernet MAC address that will be used by the router on the Internet port. Some ISPs will register the Ethernet MAC address of the network interface card in your computer when your account is first opened. They will then only accept traffic from the MAC address of that computer. This feature allows your router to masquerade as that computer by "cloning" its MAC address.



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