

Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NETGEAR FR114W. You'll find the answers to all your questions on the NETGEAR FR114W in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NETGEAR FR114W
User guide NETGEAR FR114W
Operating instructions NETGEAR FR114W
Instructions for use NETGEAR FR114W
Instruction manual NETGEAR FR114W



NETGEAR®

Cable/ DSL ProSafe Wireless-Ready Firewall
MODEL FR114W



Installation Guide



[You're reading an excerpt. Click here to read official NETGEAR FR114W user guide](http://yourpdfguides.com/dref/327770)
<http://yourpdfguides.com/dref/327770>

Manual abstract:

A firewall is a special type of router that incorporates features for network security. With this firewall you can have secure Internet access through a high-speed DSL or cable modem and share the single modem with several computers. Provides the ability to install a wireless notebook card for wireless networking functionality. This installation guide shows you how to connect the firewall and configure it and your computers for secure Internet access. Setup is easy--follow the instructions in this guide and your system will be up and running quickly. If you have problems, there is a troubleshooting section on page 13 to help you--or you can get more detailed troubleshooting information from the Reference Manual on the CD, online from www.NETGEAR.com or by phone. Installation Overview Estimated time: 15 to 30 minutes

1. 2. 3. 4. 5. Gather the configuration information you have for your working DSL or cable modem connection to the Internet. Install the firewall between the DSL or cable modem and one computer.

Configure that computer to work with the firewall and restart the computer and modem. Configure the firewall and go online to test the connection. Connect other computers, configure them and restart each. (optional) On the FR114W Resource CD, you'll find the Installation Assistant, which supplements the instructions in this installation guide by animating the step-by-step procedures given here. @@@@ @@@@ You'll be installing the firewall between the modem and the computer.

For each computer that you want to connect to the firewall, you must have An available RJ-45 Ethernet port (or adapter) -- either built-in or from a network interface card (NIC) installed in the computer OR an 802.11b-compliant wireless adapter. TCP/IP installed. · · DSL modem If your computer is a Windows® computer, it must have the Client for Microsoft® Networks software installed. Note: Please see the Reference Manual on the CD if you need help installing TCP/IP software or the Client for Microsoft Networks software on any Windows computer that hasn't been networked previously. · A Category 5 (Cat 5) Ethernet patch cable Note: There is one cable in the box with the firewall. 3 Connection information Later in the setup process you'll need to configure the firewall to work with your network. A Setup Wizard is available to help you through this procedure. You can configure the firewall yourself using information that you can get from your computer or your ISP about your current Internet connection. The next page includes blanks for you to fill in and refer to later.

To get the needed information from your computer: · · · (Windows 98/Me) Open the Network control panel, select the TCP/IP entry, and click Properties. (Windows 2000/XP) Open Local Area Network Connection and click Properties. (Macintosh®) Open the TCP/IP (or Network) control panel. Your ISP should have provided you with a summary sheet of all the information needed to connect your computer to the Internet. If you cannot locate the information, you'll have to contact your ISP. An ISP Guide is included with your firewall's documentation, either as a printed card or on the Resource CD. The ISP Guide contains specific configuration guidelines for connecting to many popular ISPs. 4 Host and Domain Names Some ISPs use a specific host or domain name--like jsmith or earthlink.net. If you haven't been given specific information about host or domain names then 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 name, user name, or system name.) If your ISP's mail server is mail.xxx.yyy.com, then use xxx.yyy.com as the domain name. Host name: _____ Domain name: _____

Login Name If your ISP requires a login name and password (possibly because you have a PPPoE account), fill in the following: Login name: _____ (may be your full e-mail address) Password: _____ Note: The login name could be called a user name or account name by your ISP. The login name is case sensitive.

You must type it exactly as given by your ISP. For example, c_jones is a different login name than C_Jones or cjones. Fixed (or static) IP address If you have a static IP address through your ISP, fill in the following information: IP address: _____ Subnet mask: _____ Gateway IP address: _____

_____. _____ DNS server address information If you were given specific Domain Name System (DNS) server addresses, fill in the following: DNS Server IP address(es): _____ 5 Install the Firewall After unpacking the box and locating the configuration information, you're ready to install the firewall. If you will be upgrading your FR114W for wireless operation, perform the steps in the following section. Otherwise skip to "Connecting the Firewall to your network" below.

Installing a Wireless Card in the FR114W To upgrade the FR114W for wireless operation, you must purchase and install a NETGEAR 802.11b Wireless PC Card. The firewall will function normally without a wireless adapter card, but will not have wireless connectivity. To install the 802.11b Wireless PC Card in your FR114W, follow these steps: 1.

2. 3. 4. Remove the rubber dust cover from the slot. With the FR114W's power off, slide the Wireless PC card into the slot with the card's front label and LED facing up.

Be sure that the Wireless PC card is securely seated into the internal connector. The blue plastic end cap of the Wireless PC card should be outside of the FR114W's case. Note: You must use a NETGEAR wireless PC card as not all manufacturer's PC cards are compatible. DSL modem WIRELESS PCMCIA Normal UpLink 4 3 LOCAL 10/100M 2 1 INTERNET 12VDC 0.5A WIRELESS PCMCIA NETGEAR WIRELESS ADAPTER ONLY Model FR114W ProSafe Wireless-Ready Firewall Locate the wireless adapter card slot on the rear panel of the FR114W. Connecting the Firewall to your Network Note: You do not have to power down any equipment to do this, but if you need to move your computers (perhaps to get to ports in the back), you may want to shut down the computers before moving them around. 1. Locate the Ethernet cable currently going from the DSL or cable modem to the computer that you use to access the Internet. Note: You must use this cable to connect the DSL or cable modem to your firewall since this may be a special cable even though it looks like other LAN cables. 6 2.

3. 4. Remove this cable from the computer and insert that end into the Internet port on the rear panel of the firewall. Use the Ethernet patch cable that came with the firewall to connect the computer to one of the four numbered local Ethernet ports on the rear panel of the firewall.



You're reading an excerpt. Click here to read official NETGEAR FR114W user guide
<http://yourpdfguides.com/dref/327770>

Connect the power adapter's cord into the back of the firewall and then plug the adapter into a power source (such as a wall socket or power strip). Note: If you want to connect other computers to the firewall, don't connect them now. Do that after you know that the modem/firewall setup works with one computer.

Check the setup · The Test light turns on for a few seconds and then goes off. Note: If the Test light remains on for more than one minute, go to Troubleshooting on page 13. · · · The Power and Internet Link lights should be lit.

The WLAN light should be lit. If your computer is on, the Local Link light should be on for the port number that your computer is connected to. Note: If the port connection is a 100 Mbps connection, the 100 light should be on. If either the Power, Internet Link, or Local port Link light isn't lit, go to Troubleshooting on page 13. 7 3 Configure the Computer to Work with the Firewall and Restart the Network Next, make sure that the computer can interact with the firewall.

To do this, configure the TCP/IP settings on the computer and then restart the network. How you do this depends on your computer. Windows Operating System Normally, you can leave the TCP/IP setup parameters at their factory default settings unless you have a specific reason to change them. You should verify that the computer is set to 'obtain an IP address automatically' in the Network control panel. Windows 98 or Me 1. 2. 3. 4. 5. 6. 7. 8. 9. Choose Settings>Control Panel from the Start menu. Double-click the Network icon.

Click the Configuration tab. In the list of installed network components, select the TCP/IP entry for the computer's Ethernet or wireless adapter. Click Properties. Click the IP Address tab. Check that Obtain an IP Address Automatically is selected, select if not. Click the Gateway tab. Select and remove any IP Gateway addresses that are listed. 10. Click OK and click OK again to close the Network control panel. 11.

Go to Restarting the Network on the next page. Windows 2000 or XP 1. 2. 3. 4.

5. 6. Right-click My Network Place and choose Properties. Double-click Local Area Network Connection and click Properties. Select Internet Protocol (TCP/IP) and click Properties.

Select Obtain IP address automatically. Click OK twice and click Close. Go to Restarting the Network. @@@@2. 3. 4. 5. 6. 1. 2.

3. 4. 5. 6. Choose Control Panels >TCP/IP from the Apple menu. If not already selected, select Ethernet in the Connect via list. Select Using DHCP Server in the Configure list. Click the close box. If asked if you want to save this configuration, click Save. Go to Restarting the Network.

Choose System Preferences from the Apple menu. Double-click Network. @@If not already selected, select Using DHCP in the TCP/IP tab. Click Save. @@1.

@@@@@@@@2. 3. @@You configure your firewall using Inis turned on. @@@@@@· You have the wrong cable between the firewall and the modem. @@@@@@· · Restart the computer.

Restart the Network as described on page 9. @@@@@@@@@@@@@@@@@@Start your browser, type the address for an external site (like www.NETGEAR.com), and press Enter (Windows) or Return (Macintosh). 2. 3. 4. 5. Go to the firewall's Settings pages by going to http://192.168.

0.1. In the User ID box type admin, in the Password box type password, and click OK. Under the Maintenance heading, click Router Status. Check that an IP address is shown for the WAN Port. If you see 0.0.0.0, contact your ISP to get current configuration information. Verify that the PC's SSID and WEP settings match the firewall's settings.

Your computer may not recognize any DNS addresses. Your computer may not have the correct TCP/IP settings to recognize the firewall. · Your firewall might not be able to obtain an IP address from the ISP. 1. Your wireless connection may be misconfigured.

· 14 Resetting TCP/IP Properties (Windows) If you're on a Windows computer and are still having problems, you may try the following procedure before contacting technical support. Windows 98/Me 1. 2. 3. 4. 5. 6. 1. 2. 3. 4. 5. 6. 1. 2.

3. 5. Click the Start button and then click Run. Type winipcfg, and then click OK. Select your Ethernet adapter. Click More Info and verify that the DNS Servers box displays 192.168.0.1. Click Release All and then Renew All.

Verify that you got a valid address and click OK. Click the Start button and then click Run. Type CMD and click OK. Type ipconfig /all. Type ipconfig /release.

Type ipconfig /renew. Verify that you got a valid address and close the window. Open My Network Places. Click View network connections (Network Tasks). Click your enabled LAN connection.

Verify that you got a valid address and close the window. Note: For Windows XP, you'll find the TCP/IP information in the Details area. For any Windows computer, if you are using the recommended default TCP/IP settings, they should be: · IP Address: between 192.168.0.2 and 192.168.0.254 · Subnet Mask: 255.255.

255.0 · Default Gateway: 192.168.0.1 Windows 2000 Windows XP 4. Click Repair this connection (Network Tasks). 15 Glossary of Terms You'll find a more extensive glossary in the Reference Manual on the FR114W Resource CD. Category 5 (CAT5): A twisted pair cable that meets specified requirements for high-speed net- working. Domain Name System (DNS) server: A server that matches Internet names (such as www.netgear.com) to numeric IP addresses. IP Address: A 4-part number uniquely defining each host on the Internet. Usually written in dotted-decimal notation with separating periods (for example, 134.177.244.

57). Internet service provider. A communications network within a limited area, such as one building. ISP: Local Area Network (LAN): PPP: Point-to-Point Protocol, the standard Internet protocol for dial-up connections. PPP over Ethernet (PPPoE): A protocol for connecting remote hosts to the Internet over an always-on connection by simulating a dial-up connection.

Control Protocol (TCP) with Internet Protocol (IP). The main internetworking protocol used in the Internet. TCP/IP: Transfer Wide Area Network (WAN): A long distance link used to extend or connect remotely located local area networks (for example, connecting your home computer to the Internet). 16 Firewall

System Requirements To use the firewall in your network you must have: · · · · Cable or DSL modem with Ethernet interface Working Internet service Ethernet network card (NIC) or built-in networking for each computer Network software (Windows, Mac OS, Linux) Internet Explorer 5.0 or later; Netscape 4.7 or later Firewall Specifications Routing Protocols: Dimensions: Weight: Microprocessor: Memory: LAN: WAN: Power Adapter: TCP/IP, RIP-1, RIP-2, DHCP, NAT, PPTP, PPPoE, IPSec W: 191mm (7.4") D: 127mm (5.1") H: 35mm (1.3") .82 kg (1.

8 lbs) ARM7, 75MHz, 1 MB Flash, 4 MB SDRAM 10BASE-T or 100BASE-Tx, RJ45 10BASE-T or 100BASE-Tx, RJ45 12 V DC 0.

[You're reading an excerpt. Click here to read official NETGEAR](#)



[FR114W user guide](#)

<http://yourpdfguides.com/dref/327770>

8 A with localized plug for North America, Japan, UK, Europe and Australia Environmental Specifications Operating temperature: Operating humidity: Electromagnetic Emissions: 0°C to 40°C (32° to 104°F) 90% maximum relative humidity, noncondensing FCC Part 15 Class B VCCI Class B EN 55 022 (CISPR 22), Class B Interface Specifications 17 Voluntary Control Council for Interference (VCCI) Statement This equipment is in the second category (information equipment to be used in residential areas) and conforms to the standards set by the Voluntary Control Council for Interference by Data Processing Equipment and Electronic Office Machines that are aimed at preventing radio interference in residential areas. EN 55 022 Declaration of Conformance This is to certify that the NETGEAR Model FR114W Cable/DSL ProSafe Wireless-Ready Firewall 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). 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. Federal Communications Commission (FCC) Radiation Exposure Statement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20 cm (8 inches) during normal operation. Canadian Department of Communications Radio Interference Regulations This digital apparatus (NETGEAR Model FR114W Cable/DSL ProSafe Wireless-Ready Firewall) does not exceed the Class B limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications. Règlement sur le brouillage radioélectrique du ministère des Communications Cet appareil numérique (NETGEAR Model FR114W Cable/DSL ProSafe Wireless-Ready Firewall) respecte les limites de bruits radioélectriques visant les appareils numériques de classe B prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada. 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. Certificate of the Manufacturer/Importer It is hereby certified that the NETGEAR Model FR114W Cable/DSL ProSafe Wireless-Ready Firewall 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. @@@@Das vorschriftsmäßige Betreiben einiger Geräte (z.B. Testsender) kann jedoch gewissen Beschränkungen unterliegen. Lesen Sie dazu bitte die Anmerkungen in der Betriebsanleitung. @@@@PLEASE RETAIN PROOF OF PURCHASE and the warranty information. To register your product, get product support or obtain product information and product documentation, go to <http://www.NETGEAR.com/register>. You'll find technical support information at: <http://www.NETGEAR.com/> through the customer service area. If you want to contact technical support by telephone, see the support information card for the correct telephone number for your country. NETGEAR, Inc. © 2002 by NETGEAR, Inc. All rights reserved. NETGEAR is a trademark or registered trademark of NETGEAR, Inc. in the United States and/or other countries. Other brand and product names are trademarks or registered trademarks of their respective holders. Information is subject to change without notice.

M-FR114WNA-0 M-FR114WNA-0 June 2002 .



You're reading an excerpt. Click here to read official NETGEAR FR114W user guide
<http://yourpdfguides.com/dref/327770>