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You can read the recommendations in the user guide, the technical guide or the installation guide for TRENDNET TW100-W1CA. You'll find the answers to all your questions on the TRENDNET TW100-W1CA in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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Operating instructions TRENDNET TW100-W1CA
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TW100-W1CA
IP Sharing for
Cable Modem/ xDSL

User Manual

M73-AP007-080



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Manual abstract:

?? 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. Shielded interface cables must be used in order to comply with emission limits. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. CE Mark Warning This is a Class B product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures. All trademarks and brand names are the property of their respective proprietors.

Specifications are subject to change without prior notification. TABLE OF CONTENT INTROUCTION....

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..45 INTROUCTION IP Share device is designed for IP address simplification and conservation, as it enables private IP Internet works that use non-registered IP addresses to connect to the Internet. It usually connects two networks together, and translates the private (not globally unique) addresses in the internal network into single legal address before packets are forwarded onto another network. Therefore, only one IP address is needed for the entire network to the outside world.

This provides additional security, effectively hiding the entire internal network from the world behind that address. Sample Application Internet ISP Cable / XDSL Modem Small Office / Home Users 10Mbps Ethernet Single IP Address IP Sharing for Cable / XDSL Modem 10/100Mbps Ethernet Figure 1: Small Office/ Home Office Setup -1- Features ?? Supports PPPoE. ?? Supports VPN.(PPTP pass through). ?? Explicit LED indication for Internet connection. ?? Supports Internet applications such as Web, ICQ, FTP, Telnet, E-Mail, News, NetMeeting, PCAnyWhere, mIRC, CuSeeMe, AoE,... ?? Natural firewall keeps hackers out. ?? DHCP server allocates up to 128 client IP addresses.

?? DHCP client gets global IP address automatically. ?? 10/100Mbps dual speed auto-sensing for flexible network connectivity. ?? Virtual server. ?? Rich packet filters. ?? Static routing. ?? Supports Proxy-DNS. ?? Easy to setup by Windows GUI program and Telnet through network, or HyperTerminal through Console. ?? Flash memory for firmware upgrade. Parts Names and Functions LED Indicators on the Front Panel Ports on the Rear Panel VDC IN Console Global Local 1234567 a b c d Figure 2: LED Indicators and Ports -2- LED Indicator ? Power Color Glowing Green Power On Connected to a LAN device 100Mbps detected Full duplex Connected to a Cable/DSL Modem Internet connected1 Components malfunctioning Status Dim Power Off Disconnected from any LAN device 10Mbps detected Half duplex Disconnected from any Cable/DSL modem Flashing N/A. Receiving/ Sending data N/A.

N/A. Receiving/ Sending data ? Local Link Green ? Local 100/10 ? Local Full/Half ? Global Link ? (blank) ? Error Green Green Green Green Red Internet disconnected N/A N/A. N/A. Table 1: LED Indicators Port Name a b VDC IN Console Functions Connects the power adapter plug. Connects an RSrd: (for PPPoE) ?? Maximum input is 36 alphanumeric characters (case sensitive).

Auto-disconnect...: This device can be configured to auto-disconnect when there is no activity on the line for a certain period of time. ?? Default: 5 minutes. You can input any number from 0 to 65535. ?? To keep the line always connected, please set the number to 0. Change Administrator Password: In this dialog box, you can set administrator's password. ?? Maximum: 6 alphanumeric characters (case sensitive). 2 Your ISP may ask you to input a certain domain name. Domain name is also required for internal network's email and news functions. -8- TELNET management...: Checking this item lets you manage this device remotely from outside of the network through Telnet.

?? Default: disabled. Local Port This screen contains settings for LAN interface attached to the local network. Figure 8 IP Address ?? Default: 192.168.1.254 SubNetmask ?? Default: 255.255.255.0 ?Do not distribute IP address to local computers 3 Checking this radio button to disable this IP Sharing device to distribute IP Addresses. ?Distribute IP addresses to local computers Checking this radio button to enable this IP Sharing device to distribute IP Addresses. And the following field will be activated for you to enter the starting IP Address: 3 If you check this selection, please specify unique static IP address for each of your local computers. -9- Continuous IP address pool starts at The starting address of this local IP network address pool. The pool is a piece of continuous IP address segment. Number of IP address in pool ?? Maximum: 128. Default: 128 Global Port This screen contains settings for the Global interface toward Internet.

Figure 9 Adapter Address: Read-only. It is necessary for some ISP to identify this device by its MAC address. Obtain global port configuration automatically: If it is checked, the Global port IP address is obtained through DHCP protocol after the device boots up. The address may vary each time the device restarts. Set static global port configuration: Check this item if your ISP provides you with a fixed IP address.

IP address: Provided by your ISP. - 10 - SubNetmask4: Provided by our ISP. Gateway/DNS server #1/DNS server #2: These values will be automatically provided once you click "Obtain global port configuration automatically".



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You can change the values if necessary. Virtual Server Being a natural Internet firewall, this IP Sharing device protects your network from being accessed by outside users. When there is application that requires outside users to access internal servers (e.g. Web Server, Ftp Server, e-mail Server or News Server), this device can act as a virtual server to public services. You can set up a local server with specific port number which stands for the service (e.g.

web(80), FTP(21), Telnet(23)). When this device receives an incoming access request for this specific port, it will be forwarded to the corresponding internal server. Figure 10 Single Port/Port Range: For selecting between a specific port and a range of ports which you want the Internet users to be able to access. The valid port number ranges from 0 to 65535. Browse: If DHCP function is enabled, the distributed IP Addresses will appear on the screen. You can select the desired IP address (for the specified port) and add it to the server list. 4 If you checked PPPoE in Management tab (see the Management section), the "Obtain global port configuration automatically" and the "Set static global port configuration" fields are grayed out and will not accept any input. - 11 - Figure 11 Port Type: please select the port type (TCP or UDP) for the port number that was entered earlier. Note: Maximum 12 Server Entries is allowed. Each port number can only be assigned to one IP address.

Packet Filters In the Packet Filters setup screen, you can block specific internal users from accessing the Internet and you can also disable specific Internet services. You can set up the filters through the following three types of filter. Each filter can be set to filter (drop) or forward (pass) packets. You can input up to six filters in this device. MAC Address Filter: filter according to local computer's network adapter MAC address (also known as the adapter card's Physical Address).

IP Address Filter: Filter with computer's IP address. You can filter a single IP, or a range of the IP addresses. ?? LANIP: filtering IP address of a local computer. ?? WANIP: filtering IP address of a remote server (this remote server that connects to Internet via this Internet Station). Port Filter: Filter using the port number.

You can set filter for a single port or a range of ports. ?? TCP port: filter according to the Connection-Based Application Service on the remote server using the port number. ?? UDP port: filter according to the Connectionless Application Service on the remote server using the port number. - 12 - Figure 12 Network Adapter Address Filter: Filter according to local computer's network adapter MAC address. Figure 13 Network Adapter's MAC address consists of 12 alphanumeric characters (i.e. 00 ab 12 cd 34 ef) and it is normally printed on a sticker on the network adapter. If you have Windows 95, 98, or 98Me, go to "Start", select "Run", and type in winipcfg. Select the "network adapter" and you can find the Physical Address on the screen. If you have NT or Win2000, open a DOS prompt window, type in ipconfig /all and then press "Enter".

The MAC (Physical) Address along with adapter's IP information will appear on the screen. IP Address Filter: Allows IP address range setting. Local IP: Filter according to the IP address of the local computer. - 13 - Remote IP: Filter using the IP address of a remote server (i.e. Web Server). Figure 14 TCP/UDP Port Filter TCP port: filter according to the Connection-Based Application Service on the remote server using the port number. UDP port: filter according to the Connectionless Application Service on the remote server using the port number. Figure 15 When you have finished setting the filters, the added filters will appear on the Filter List. To remove a filter, click on the filter on the Filter List and click Delete.

After the configuration, click on Save to save the settings. Figure 16 Please see examples on how to setup filters in Terminal Command section under vserv. - 14 - Configuration in Terminal Program Mode You can use terminal emulation on your PC/workstation for the initial and future configuration of your product. Windows HyperTerminal or other terminal emulation applications can be used. If you prefer, a telnet session can be opened directly.

Telnet provides the same type of terminal emulation. For security purposes, the product uses port 333 for telnet. All of the following Terminal Mode Configuration menus are identical in the telnet session, with the exception that any saved changes that result in the product rebooting, will require user to open a new telnet session to reestablish a connection with the product. For more information on telnet configuration, please see "How to Start Telnet" section below. How to start HyperTerminal 1.

2. 3. 4. 5. 6. Power off the Internet Station. Connect an RS-232 cable from one Serial COM port on your PC to your product's Serial Console port In Windows, go to Start?Program?Accessories?Communications?HyperTerminal. When the HyperTerminal window appears, double-click Hypertrm to start a new session. Name the new connection and select an icon for this session. In the Connect To dialog box, select the COM port that you used to connect to the Internet Station.

Figure 17: Connect To: 7. When the dialog box in Figure 18 appears, select the Bits per second rate as 38400, and Flow control at None. Click OK to complete the setting. See Figure 18. - 15 - Figure 18: COM 1 Properties 8. Power up the product. How to start Telnet 1. 2. The instructions below are for using this unit at its default settings (i.e.

DHCP enabled, Local Port IP address: 192.168.1.254, Subnet: 255.255.255.0). Go to Start?Run. Figure 19 3. Type "telnet 192.

168.1.254 333" and click on OK. If the local port's IP address was set to something other than the factory default ("192.168.1.254"), enter that IP address. - 16 - 333 Figure 20 Starting the Configuration 1. Once the connection is made successfully either via HyperTerminal or Telnet, the following information will appear, Dual Ethernet IP Share for Cable/xDSL Modem, version X.XX Administrator password: 2.

No password is required the first time you log in. Press <ENTER> to enter Configure mode. The screen prompts you for the following command. command>

3. Type ? and hit "Enter" for a list of the commands. Refer to the next section "Terminal Commands " for detail description of terminal commands. - 17 - TERMINAL COMMAND Type ? or help to list the main menu commands as below. command>help Dual Ethernet IP Share for Cable/xDSL Modem, version X.XX ===== Command Description

-----help session show user filter passwd ping <x.x.

x.x> release renew set vserv quit reboot Show this message List active internet sessions Display active configuration List active local IP address leases Set packet filters Change administrator's password Ping the specified host Abandon the dynamic Global port configuration Refresh the dynamic Global port configuration Configure device in batch Set internal virtual server mapping Exit to login prompt Restart device

===== passwd ?? No password is required when logging in for the first time.



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type new password (0 to 6 characters) : ***** Type in the new password and press <Enter> re-type new password (0 to 6 characters) : ***** Re-type the new password and press <Enter> Forgot your password? Refer to FAQ section for "Factory Reset" procedures.

- 32 - PPP OVER ETHERNET (PPPOE) What is PPPoE? PPPoE is known as a dial-up DSL service. It is designed to integrate the broadband services into the current widely deployed, easy-to-use, and low-cost dial-up-access networking infrastructure. Thus, customer can get greater access speed without changing the operation concept. How can I know I am using PPPoE? A PPPoE client software provided by our ISP should be installed onto your computer first. Run the program to connect/disconnect to the Internet each time before/after you surf.

An user account is also required each time you request the Internet access. Checking PPPoE Connections 1.For GUI Setup program 1. Go to Start? Programs ?IP Share Setup. 2. When the configure screen appears, select the Global Port tab. Refer to the previous section titled "Configuration in GUI". 3. Check if the value of Global port IP address is 0.0.

0.0. If it is, that means the PPPoE connection failed. If the Global Port IP is not all zeros, then the PPPoE connection is successful. 2. Checking PPPoE status through Terminal Mode 1. Start Telnet or HyperTerminal as described in the previous section titled "Configuration in Terminal Program" for terminal emulation. 2. At the command prompt, type show command. command>show 3.

If the string of IP address of global port is 0.0.0.0, this means you are not connected. If it is anything other than 0.

0.0.0 (non-zero), it means the connection is good. Note: Once the PPPoE setup is completed on this device, do not run any PPPoE client software on the local workstations. - 33 - FAQ Factory Reset If for any reason, e.

g. password being forgotten, you have to reset this device to factory default settings. By performing the Factory Reset, the current settings will be lost and the settings are reseted to default. The factory default values is detailed in the section Factory Default Settings. Figure 26 "I can't find the product using the GUI Setup Software" For the GUI Setup Software to find the device, it has to be accessed from a client. This means that the computer you are trying to use to run the software must be setup as described in the section Configuration in GUI. Also, the computer should be restarted to ensure that it is receiving IP address from the device. To verify that your computer's TCP/IP protocol is setup properly, use the "winipcfg" utility in Windows (95, 98, and 98Me). To run this, go to Start-->Run, type "winipcfg" in the Run box, and then click "OK". Make sure the Network Adapter Card is selected and then press the "More Info" button on the bottom right hand corner.

Look at the box labeled DHCP Server, this should be the product's IP address (192.168.0.1 as default). If it is not, or it is blank or reads 255.255.255.255 then you may have a cabling problem (see above), or you may have another DHCP server on your network. In either case, please follow the installation guide again, and ONLY connect the device, the client, and your modem together. If you are on a network, it is recommended that you contact your IS manager for further assistance with DHCP settings.

Placing an IP Sharing Device that passes out IP - 34 - addresses on a LAN with an existing DHCP server may cause problems throughout a network. It is recommended you disable other DHCP serves on the network if you plan on using this product on the network. IP address conflict When you see the message box prompted for IP address conflict, this means two or more workstations has the same IP address. If you have setup the device as a DHCP server, please run the "winipcfg" utility to "release" all current configuration first, then "renew" the IP information again. If the DHCP function is disabled and static IP addresses are assigned to each workstation, please double check each workstation's IP address for duplicate IP.

My Internet application won't work To protect your computer from Hackers, the product uses "port blocking" technology. A port is like a door into your computer. Each service on the Internet has an associated port. The device protects your computer by closing certain ports, so that malicious programs can't access your computer. However, if you are using an application that requires one of these blocked ports, the application will not work.

In this case, you will have to manually open these ports to allow the application to work properly. Some applications that may be affected are Some Email Programs Some Multi-Player Games Some Internet Phone/Video Conferencing Applications Als o, there are some applications, which require reverse connection over the Internet. In other words, when you are connected to these applications, you have to open your ports for twoway connection. The first thing you will need to do is determined what port (or ports) the application uses. The fastest way to find this information is to go to the software maker's web site, go to the support section, and look for information related to NAT, Proxy Server, or Firewall. This information will typically list 1 to 3 ports that need to be opened for proper operation of the software. If you can't find the necessary information, call the software maker and ask for what ports need to be opened for the software to work through a firewall. Once you have the necessary port information, follow the instructions below to setup the "Virtual Server". A. Launch the Windows GUI Setup Software and press "Find".

Once the GUI Setup Software finds the product, press "Configure": - 35 - Figure 27 B. Choose the "Virtual Server" tab: C. Enter one of the port numbers that your application requires and press "Browse". Figure 28 D. Choose the computer that is using the application and press "Select". Note: If you know the IP address of the computer that is using this application, you can enter it in the "Local Server" and then click "add". - 36 - Figure 29 E. Press Add. Repeat this process for each individual port you need to open. Figure 30 - 37 - F.

Press Save. Wait 30 seconds for the device to reboot and then try the application again. It may be necessary to restart your application or your computer for the application to recognize the change. Can not access the Internet For Cable Modem users, find the workstation's "Computer" name and then input this name in the device's "Device/Computer Name" field. 1.

On the Workstation (95, 98, and 98Me), go to Start ?Control Panel ? Network, and select Identification tab. Copy the Computer name as shown in the left figure below.



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For Win2000, right click on "my computer", select "properties", click on "network identifications", click on "properties", and then copy the computer name.
2. Run the GUI setup program, select the device, and click on "Configure" to go to the Management tab.

3. Paste the name on to the field "Device/Computer Name" as shown in the right figure below. Figure 31 For DSL PPPoE users, make sure you have entered the username along with your ISP domain name. For example, username@earthlink.net, which is composed by username (provided by your ISP) followed by your ISP's domain. - 38 - Figure 32 Check the physical connectivity of local network. Check if both the LEDs of Local and Global on the product's front panel are green. If yes, go to next step. Otherwise, make sure you are using the correct cables and the cables are connected to the network devices properly. Check the physical connectivity of the broadband device.

Examine the LED of LAN port and the LED of the broadband signal input on the Cable Modem/xDSL Modem. If the LAN LED is off, make sure you are using the correct cables and the cables are connected to the devices properly. If the LED of the broadband signal is off, please contact your ISP. Note: You can also call your ISP and make sure the Internet service is still online. Check the status of this product. If your ISP assigned you an IP address, please skip this step.

Otherwise, use the HyperTerminal program to "release" and "renew" the current IP address of the Global port. After that, type "Show" command to see if "obtain global port configuration from ISP" shows the address is "claiming" or "under claiming". If the IP address is "claiming", go to next step. If the result is "under claiming", reboot the product and check it again.

If the result still is "under claiming", please contact your ISP and find out if the service is still available. Check the logical connectivity from your computer to the Internet. Refer to the section "PING.EXE" in the "TCP/IP Network diagnosis" chapter. Follow the described steps to find out where the problem is.

- 39 - Diagnosis TCP/IP Network Diagnosis Execute WINIPCFG.EXE or PING.EXE for TCP/IP network diagnosis. @@@@It cannot be used to dynamically adjust TCP/IP connections. @@@@Select the correct Ethernet adapter.

Figure 34: IP Configuration Click the More Info button to get detailed configuration information. - 40 - Click here to reveal more. Figure 35: IP Configuration On the top, the "Host Name" and "DNS server" of the computer are configured to call when it is looking for a named resource. The default gateway is the server through which the client connects to the Internet. The DHCP Server identifies the network server that assigns IP addresses to computers on the network. If the product is working properly, the following should be apparent from this screen: 1) 2) 3) The Client should have an IP address within the prescribed range. The "DHCP" and "Default Gateway" should list the product's local port address (the device's IP address). The DNS server IP addresses should match the DNS server IP addresses set in the device. PING.EXE Ping is used to verify that a computer is active and available.

Users can ping a specific destination domain name or just the IP address. Example: - 41 - For example, to find the server 168.95.192.1, type the following command at the MS-DOS prompt: C:\>ping 168.95.192.1. PING can be executed in Windows as shown below: 1. 2.

3. 4. Go to the Start menu. Click Run. Type ping 168.

95.192.1 and click OK. The server (IP address) is online if the following message appears. Reply from 192.

168.0.1: bytes=32 time=3ms TTL=100 5. The destination device is not reachable if the following message appears. Reply from 192.168.0.1: Destination host unreachable. or Request timed out. ISP Connectivity Checkup Issue a PING command to the IP address of your ISP's Gateway or DNS server.

Note: If the global port was set to obtain configuration automatically, you need to check these settings via the Windows GUI. For Example: C:\> PING 203.66.81.254 If successful, you can reach your ISP server. If unsuccessful you may be having trouble connecting to your ISP, please verify that the product is properly configured to connect to your ISP. Also verify that your Cable/DSL modem and the line are functioning properly. Internet Connectivity Checkup PING to an IP address or domain name on Internet. For Example: C:\> PING 168.95.

192.1 C:\> PING www.yahoo.com w 5000 w 5000 If successful, you are connected to the Internet. If you can ping the ISP's gateway, but cannot ping a specific site (i.

e. www.yahoo.com) on the Internet, chances are, your ISP has an internal problem. Please call them for support.

- 42 - Getting Technical Support You can also contact us for technical support. TRENDware www.trendware.com E-mail: techsupport@trendware.com Phone: 310-891-1100 - 43 - APPENDIX A SPECIFICATIONS Protocols Management/Setup Options IP, NAT, ARP, ICMP, DHCP Locally, via direct serial cable connection through Console port Locally, via GUI for Windows 95/98/NT Remotely via Telnet (needs to enabled this function via GUI) Local Port RJ-45, 10/100 Dual Speed Ethernet Global Port RJ-45, 10Mb Ethernet to an external Cable/DSL Modem Console Port LED Indicators Input Power Power Consumption DB-9 female connector Power, Local Link, Local Speed 10/100, Local Full/Half Duplex, Internet Link, Error 5V DC @2.4A 3.5 watt (max). Agency and Regulatory: FCC part 15 Class B, VCCI, CE Physical Dimension: Weight: 160 x 105.4 x 27 mm³ (L x W x H) 218g Operating Temperature: 0? to 50? Operating Humidity: 0-90% non-condensing - 44 - APPENDIX B SUPPORTED INTERNET APPLICATIONS Application ICQ98a,99b Settings for Outgoing Connection Setting for Incoming connection None None 1503(tcp) 1720(tcp) 2300-2400(tcp) 2300-2400(udp) 47624(tcp) None None 7648(tcp) 7648(udp) 24032(udp) 22(udp), 5631(tcp), 5632(udp), 65301(tcp) 22(udp), 5631(tcp), Netmeeting 2.1 None & 3.

0 AOE 2300-2400(tcp) 2300-2400(udp) 47624(tcp) VDO Live mIRC Cu-Seeme None None 7648(tcp) 7648(udp) 24032(udp) PCAnywhere 5632(udp), 65301(tcp) - 45 - .



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