FCC/MELLON
DEC 28 1998

EXHIBIT 5

User's Manual

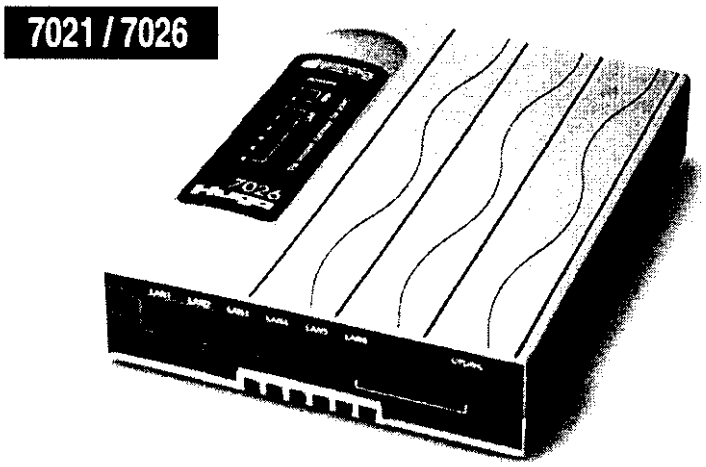
User's Manual

FCC ID: E207026

datatronics
TECHNOLOGY, INC.

HUGO7026 USER MENU

For SOHO



FCC ID: I: 207026

Preface

Congratulations on your purchase of the Hugo 7026 Internet Gateway, a powerful, yet simple, Internet solution device for office, home, campus, and corporate division and branch. Using the Hugo 7026, you can network neighborhood computers to:

- ✓ Share files and devices among each other
- ✓ Simultaneously surf the Internet through one Internet account
- ✓ Integrate two modems to increase the surf speed (or use ISDN TA)
- ✓ Set up individual mail account for each user
- ✓ Set up public servers, applications or devices accessible on the Internet

The setup of Hugo 7026 is easy friendly. It can be done through a web browser on a computer which is directly connected to the Hugo 7026, or which resides at the same segment of the local area network as the Hugo 7026 does.

Set back now, let's go.

Safety Precautions

- ✓ Always make sure the power is turned off before plug or unplug a device.
- ✓ Cables connect to devices that have different power sources and grounding may be harmful and hazardous. Always consult a qualified electronics technician before doing so.
- ✓ Do not touch exposed telephone wires and terminals unless the line has been disconnected.
- ✓ Do not install jacks and cable in wet location.
- ✓ Do not install telephone equipment during an electrical storm.
- ✓ Do not place cords and cables where they may be walked on or tripped over.
- ✓ Do not use any device at an environment that exceeds temperature and humidity specifications.
- ✓ Do not block the ventilation slot of any electronic device.
- ✓ Read and follow all the warnings and instructions included with the Hugo 7026 and other equipment to be connected.

FCC Regulations

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.

FCC Part 15

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 instruction, 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 the 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.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may also find the following booklet prepared by the Federal Communications commissions helpful: "How to Identify & Resolve radio-TV Interference problems". This booklet is available at the US Government Printing Office, Washington DC 2-420, Stock No. 004-000-00345-4.

Shielded RS-232 cables are to be used in order to ensure compliance with FCC Part 15. It is the responsibility of the user to provide and use shielded RS-232 cables from the modem to this device.

Technical Supports

For technical supports, first contact your dealer and the distributor. We recommend checking the user's manual for first-hand help.

You are welcome to visit our web site for up-to-date information and upgrades. Our Technical Support Department can be reached by mail, fax, or e-mail to,

Customer Support Department
Datatronics Technology, Inc.
15, Lane 768, Pa-Teh Rd. Sec. 4, Taipei 10565 Taiwan
Phone: (02) 2782-2456
Fax: 886-2-2782-0303
Email: support@datatronics.com.tw
URL: www.datatronics.com.tw

To request support, please include the serial number of the product, your name, company name, street address and phone number.

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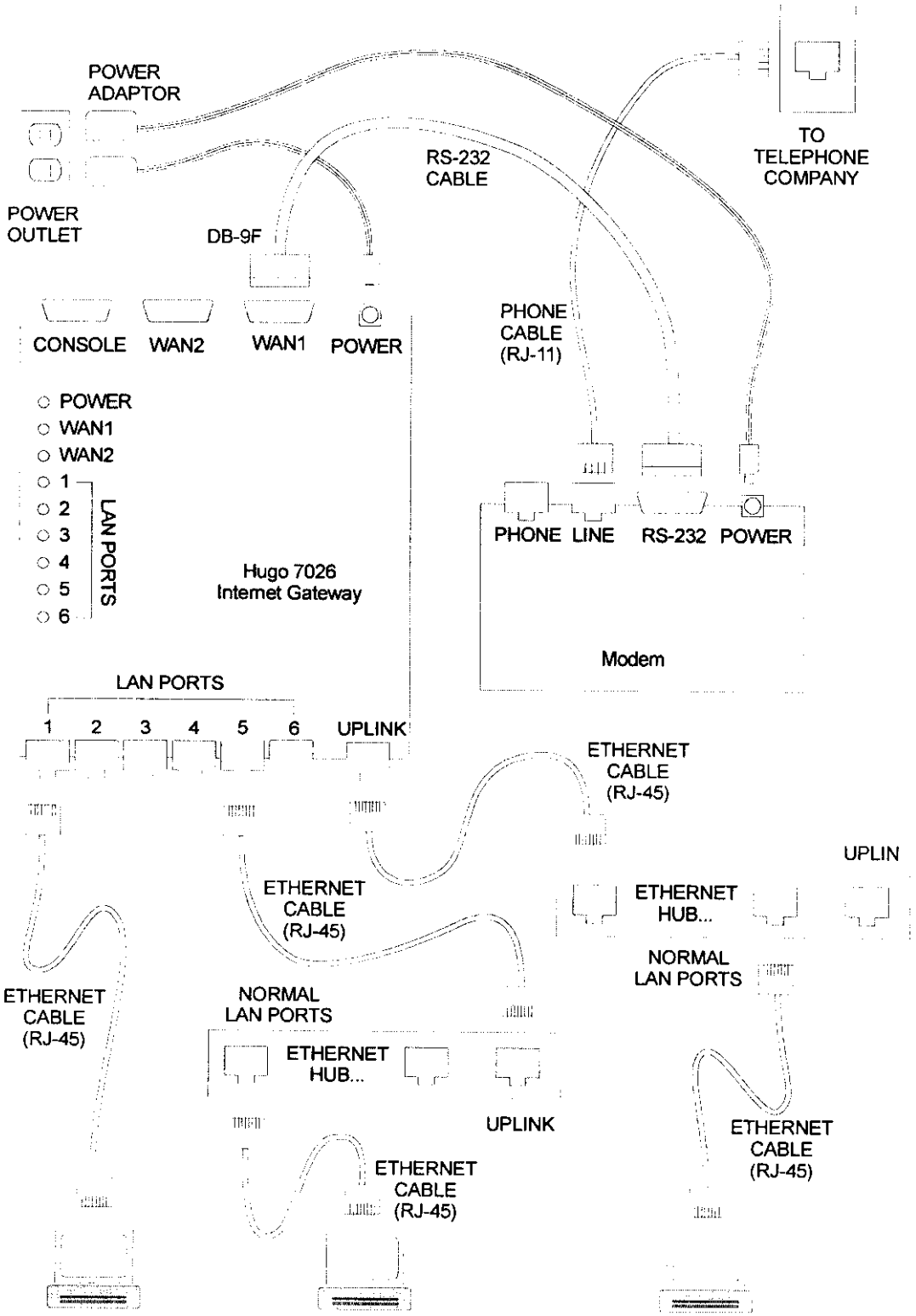
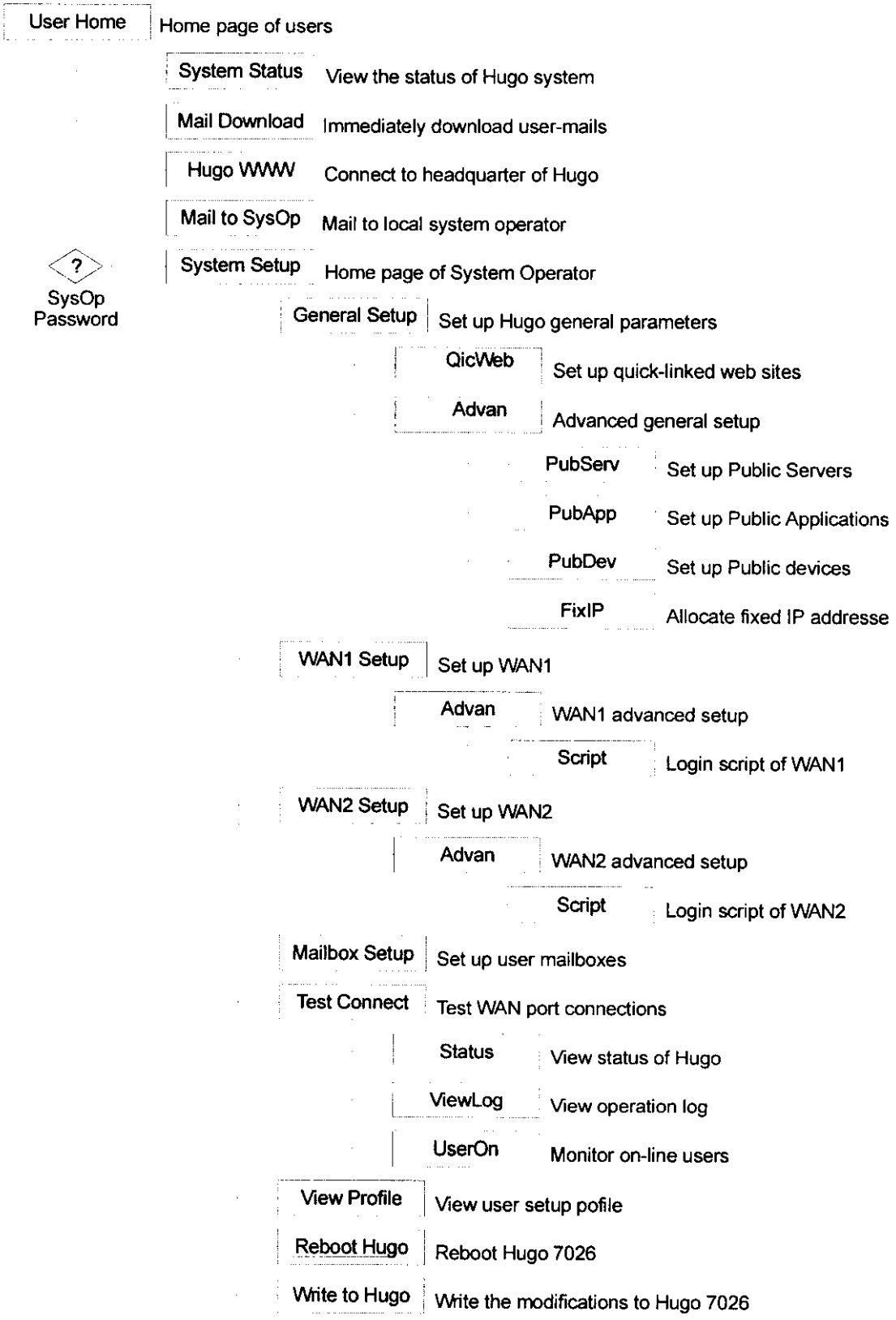
The schematic of Hardware Installation



The structure of Hugo web pages



What Comes with Your Hugo 7026

The Hugo 7026 package shall come include with the following items. Carefully inspect each item. If damage or short, immediately repack everything in the original packing and contact the dealer.

- ✓ One Hugo7026 Internet Gateway unit
- ✓ One power adapter of the voltage at your area
- ✓ This Quick Installation Guide
- ✓ The Reference Manual in electronic format on a floppy diskette or CD
- ✓ One 10Base-T Ethernet network cable

The Installation Guide and the Manual

This Quick Installation Guide assumes that you are familiar with Windows 95 operation. You shall know how to connect a Windows 95 computer to surf the Internet with a modem, and how to hook it on an Ethernet network with LAN card and hub.

The Reference Manual in electronic format contains more information on configuration, diagnostics and advanced setup of the Hugo 7026 at sophisticated environment. It is in web page format and requires a web browser to read it.

What Else You Shall Need

As example, we will use the following items to connect your computers to Hugo 7026 and to enjoy the services on the Internet:

- ✓ One Internet Access Account
- ✓ One or multiple Internet Mailbox Accounts
- ✓ One 33.6 or 56 Kbps modem
- ✓ One serial cable for modem connection
- ✓ One ordinary telephone line
- ✓ One Ethernet network adapter (LAN card) and Ethernet cable for each computer
- ✓ One Ethernet cable for each LAN card
- ✓ Web browser software for each computer
- ✓ Ethernet hub and Ethernet cable, if more than 6 computers are to be connected

The Internet Access and Mailbox Accounts

In general there are different types of Internet Access Account available from an Internet Service Provider (ISP). The most economic and common one shall be the dial-up account popularly used to connect a computer to the Internet with a modem. Your Hugo 7026 uses this kind of account, although it may use other types of accounts.

Many ISP provides dial-up accounts with Point-to-Point Protocol (PPP) support, which may eliminate lots of troublesome setup tasks. We suggest that you shall as could choose an ISP who supports PPP connection.

You shall need Internet Mailbox Accounts to receive emails. In general, many ISP provides one free mailbox account with each dial-up account. Some ISP may provide dial-up account that comes with multiple mailbox accounts. In this guide we will assume that each user shall have an individual Internet mailbox account.

Make sure that you have the following information from your ISP, as you shall need them during the configuration:

- ✓ The phone number to dial-up:
- ✓ The IP address of the DNS:
- ✓ The user name of the Access Account:

- ✓ The password of the Access Account:
- ✓ The user name of the Mailbox Accounts:
- ✓ The password of the Mailbox Accounts:
- ✓ The login scrip, if your ISP requires this. Most ISP nowadays do not require a script to log on.

The Modem and the Telephone Line

The modem uses ordinary telephone line for data communication, it is the most convenient and economic data communication facility for now. The ISDN provides a more reliable communication at higher speed. But, it involves more technical issues, takes a longer lead-time to subscribe, and the costs and fares are more expansive.

The Hugo 7026 uses most on-the-shelf Hayes-compatible modems. In this guide, we will install one modem to your Hugo 7026. In general, a 33.6 or 56 Kbps modem shall accommodate 3 to 6 users to surf the Internet at an acceptable speed. If higher speed is desired, you may add up another modem later on, or use an ISDN terminal adapter instead.

The Ethernet LAN Card and Cable

To hook up on an Ethernet LAN, each computer shall have an Ethernet Network Adapter (LAN card) installed. To surf on the Internet, the LAN card shall be set up to support TCP/IP.

The cable connects the LAN card to the Hugo 7026 shall be of Ethernet 10Base-T standard, and be with RJ-45 connectors on both ends. The length of each cable shall not exceed 100 meters.

The Web Browser

You may use any popular web browser software with the Hugo 7026. Nowadays most browser software are freely available for download at many web sites on the Internet. If you have purchased a Discovery or DataSystem 33.6 or 56Kpbs modem, the Microsoft Internet Explorer is freely available on the CD come with the modem.

Nowadays many web browsers, such as the Microsoft Internet Explorer or the Netscape Navigator, already has Internet e-mail function built-in so that you may send and receive Internet mails.

Connect More Computers via Ethernet Hubs

The Hugo 7026 is built-in with a hub of six normal LAN ports and one uplink LAN port. Each normal port can be connected to a LAN card in a computer. Therefore, in total the Hugo 7026 can directly accommodate up to six computers. The uplink port is associated with the normal port #6, only one of them can be use. You shall not have devices simultaneously connected to both the #6 and the uplink port.

If more than 6 computers are to be connected to the Hugo 7026, use Ethernet hubs. A normal port of an Ethernet hub shall be connected to the uplink port of a Hugo 7026; or an uplink port of a hub shall be connected to a normal port of a Hugo. Therefore, you may connect one to six hubs to the Hugo 7026, and each the computers can be directly connected to the normal port of Hugo 7026 or a hub. If each hub provides 16 normal ports, you can in total have as many as 96 computers in the network.

The Installation Steps – Easy3™

To set up your network with Hugo 7026, there are there steps:

Step 1: Prepare a client computer
- 1-1 Insert a LAN card to the computer
- 1-2 Configuration of the LAN card
- 1-3 Bind TCP/IP protocol to the LAN card
- 1-4 Install a web browser software

Step 2: Connect everything to the Hugo 7026
- 2-1 Connect a modem to the Hugo 7026
- 2-2 Connect a computer to the Hugo 7026
- 2-3 Connect a second modem, more computers and hubs to the Hugo 7026 (optional)

Step 3: Configuration of the Hugo 7026
- 3-1 General setup
- 3-2 WAN1 setup
- 3-3 Mailbox setup (optional)

Step 4: Configure the client computers

Prepare a Client Computer

To be a client of Hugo 7026 for Internet access or to use it to set up the configuration of Hugo 7026, a computer shall:

✓ Be TCP/IP networking capable.

✓ Have a web browser installed.

To turn a computer to TCP/IP networking capable, you shall install a LAN card to it and bind TCP/IP protocol with the LAN card. To install a web browser, follow its user's manual.

In this guide, we take Windows 95 computer as the example. You may use Windows NT, Macintosh, Windows 3.x, or even a DOS computer with Hugo 7026, provided that they meet the two conditions listed above.

Setup a Windows 95 Computer to TCP/IP Networking

Find a Windows 95 computer and follow the instruction manual of your LAN card to install the card to the computer. In general, it shall involve the following steps:

✓ Turn off the computer

✓ Open the computer housing

✓ Insert the card to an available slot

✓ Turn on the computer

When the computer is turned on, Windows 95 shall automatically detect the LAN card, set up the IRQ, I/O address, and bind TCP/IP and other protocols to the card.

If you have trouble, remove the unnecessary peripheral cards and try it over again. As a tip, some sound cards may not be fully compatible with Windows 95 auto detection while a certain type of LAN card is existed in the computer. You will need to have the LAN card installed first, then manually configure the sound card.

Also, some LAN card driver may not be completely uninstalled in Windows 95. You may try by turning on the computer one more time with both the LAN card and the sound card unplugged.

Once installed, you may verify the current configuration and protocol settings of the LAN card.

Verify the TCP/IP Configuration in Windows 95

To verify your Windows 95 have had TCP/IP installed, click *Start* ⇨ *Settings* ⇨ *Control Panel* ⇨ *Network*. In the Network window under the *Configuration* tab, you will see a line *TCP/IP -> NE2000*

compatible or *TCP/IP -> (your LAN card)*.

If you can not find such a line, you may install it in the Network window by:

✓ Click *Add*, select *Protocol* and then click *Add*

✓ Select *Microsoft*, select *TCP/IP* and then click *OK*.

Verify the TCP/IP Settings of the LAN Acrd

To verify the TCP/IP settings of your LAN card:

✓ Click *Start* ⇨ *Settings* ⇨ *Control Panel* ⇨ *Network* to open up the Network window.

✓ Select the *TCP/IP -> (your LAN card)* and click *Properties*.

The Network Properties consists of several tabs. Make sure the fields in some tabs are checked as listed below:

IP Address:	☑ *Obtain an IP address automatically*
DNS Configuration:	☑ *Disable DNS*
Gateway:	☑ *Clear all existing entries*

Install A Web Browser to a Windows 95 Computer

While in this guide we will take Microsoft Internet Explorer 4.01 (MSIE 4.01) as the example, you may use the Netscape Navigator or other web browser as well.

Follow the manual of MSIE to install the web browser software. Note that with the Hugo 7026 you will be connected to the Internet via a local area network, not a dial up network. Be sure to select this an option when you install a browser.

If the setup requires entering the IP address of gateway, the factory default IP of Hugo 7026 is 192.168.1.1.

Once installed, you may like to check the current configuration of the MSIE by clicking *View* ⇨ *Internet Option* ⇨ *Connection* in the menu bar.

Connect Everything to Hugo 7026

Before going on hardware installation, you shall make sure that:

✓ All the devices are power off before doing connection.

✓ You can distinguish the power adapter come with the modem from the one with the Hugo 7026. They shall not be inter-changeable.

Now, follow the illustration and the steps below to connect everything to the Hugo 7026:

✓ Connect the modem to the Hugo 7026:

  ✧ Connect the serial cable from your modem to the WAN1 port on the back of the Hugo 7026.

  ✧ Connect the telephone cable from the wall outlet to the LINE port of the modem.

  ✧ Connect the modem power adapter to the power jack of the modem, and plug the power adapter to a power outlet.

  ✧ Turn on the power of the modem.

✓ Connect the Ethernet cable from the LAN card in your computer to the LAN #1 port on the front of the Hugo 7026.

  Connect only one computer at this moment. After the Hugo 7026 network is working normally you may connect more computers.

✓ Connect the power adapter come with Hugo to the power jack on the back of the Hugo 7026, and plug the power adapter to a power outlet.

  The POWER LED shall flash for a few seconds while the Hugo 7026 performs initial diagnostics. <figure – connect everything together>

Now, turn on the computer connected to the Hugo 7026. The LED on the Hugo 7026 in related to the LAN port the computer is connected shall flash for a while and then shall remain on.

Setup the Hugo 7026

On the computer connected to the Hugo7026,

- ✓ Start the web browser
- ✓ Enter *192.168.1.1* in the *Address* or *Go To* area and click Enter

Carefully read the User Home page to understand the function of each link on the left. To add this page as a bookmark, click *Favorites* ⇨ *Add to Favorite* in the Internet Explorer menu bar.

General Setup

Click *System Home* on the left of the User Home page. A dialog will come up asking for the user name and password of the System Operator. The default values are *datatronics* for both of them. Enter *datatronics* in both the fields and click *Submit*, the System Home page will come up.

> **Caution**: The username and password of the system operator can be changed by clicking General ⇨ Advan on the System Home page. Be Careful to any modification. Once the password is lost, you will not be able to enter the system unless you reload Hugo to the factory default.

On this page enter the following fields with the information you have got from your ISP:

- ✓ IP address of the Primary DNS
- ✓ IP address of the Secondary DNS, if available. Leave this field blank if it is not required.

Since we will use the factory default of Remote Mail mode, you shall leave the following fields as they are:

- ✓ Domain name of the SMTP server
- ✓ Domain name of the POP server
- ✓ Mailbox Address
- ✓ Mailbox Username
- ✓ Mailbox Password
- ✓ Retype Password

Double-check all the fields and make sure they are correct, then click *Save*.

WAN1 Setup

Click the System Home ⇨ WAN1 Setup. In this page you will set up the parameters in related to the modem connected to WAN1 port of the Hugo 7026:

- ✓ The name you would give to identify your ISP
- ✓ The complete phone number to dial to the ISP
- ✓ The user name of your dial up account at the ISP
- ✓ The password of your dial up account. Retype to confirm the dial up account password

Double-check all the fields and make sure they are correct, then click *Save*.

If you are using the Hugo 7026 to set up a new network, the factory default IP address of the Hugo 7026 is 192.168.1.1. All the other computers and devices shall be given an IP address between 192.168.1.2 to 192.168.1.254.

If your ISP requires a login script, click WAN1 Setup ⇨ Advan ⇨ Script and enter it line by line.

Mailbox Setup

The factory default of the Remote Mail mode requires that every e-mail user shall have a mailbox on the Internet. In this case, you do not have to set up mailbox account at the Hugo 7026.

However, each email user shall set up the mailbox options in the Internet Mail Application software on the computer he or she will use to send or retrieve Internet mails:

- ✓ The name of the SMTP server which transmit outgoing Internet mails
- ✓ The name of the POP server which requires to retrieve the incoming mails
- ✓ The email address of the mailbox
- ✓ The username of the mailbox
- ✓ The password of the mailbox

Write and Reboot Hugo

Since you have entered and saved some modifications, you shall Write the modifications to the Hugo so that they can be taken effect the next time Hugo is rebooted.

Click Write to Hugo to write the modifications to Hugo 7026. Then, click Reboot Hugo to take effect the modifications you have saved.

A Good Job You Have Done

Now, enter a web site address in the URL or Go To field in the web browser. You will see the modem dials and the web site will be displayed for your surf after the connection is established.

Connect a second computer to the Hugo 7026 and try to browse another web site. You will find out both the computers can surf the Internet individually by sharing one Internet account through Hugo 7026. Note that each computer shall be Networking and TCP/IP capable.