

Preface

Thank you for your purchase of the ICOM UX-136 Wireless LAN Card. The UX-136 is a wireless LAN card for portable computers that operates in the 2.4 GHz band and utilizes DS-SS (Direct Sequence Spread Spectrum) technology to enable short-range, high-speed data transmission. Before using your new wireless LAN card, please read the following instructions carefully in order to obtain the highest possible performance and long years of use.

- This product can be used with any portable computer that is equipped with a Type II PCMCIA slot.
- This product is designed with built-in circuitry for wireless LAN communication and thus does not require any cumbersome additional wiring.
- This product utilizes DS-SS technology, which provides for superior data stability and high resistance to noise, interference, and interception.

These operating instructions describe how to insert the UX-136 into the PCMCIA slot and how to install the utility software (included). Be sure to check the owner's manual of your computer in advance to confirm that the specifications are compatible with the UX-136.

STANDARD COMPONENTS

- | | | |
|---|---|--------------------------|
| • LAN card | 1 | • Operation manual |
| • 3.5 inch disk (LAN card utility software) | 1 | • Warranty statement |
| | | • User registration card |

ABOUT USER REGISTRATION

Be sure to fill out and return the user registration card. Otherwise, support services will not be able to provide you assistance.

ABOUT REGISTER TRADEMARK

Windows 95 is a registered trademark of Microsoft Corporation in the United States and other countries. The screens illustrated in this manual were used with permission from Microsoft Corporation. All other company names and product names used in this manual are trademarks or registered trademarks.

NOTATION

The following notation is used in this manual:

“ ”.....These marks indicate boldface.

[].....These marks indicate that the text is optional.

< >.....These marks indicate different from the screens displayed.

OPERATING INSTRUCTIONS

The UX-136 is designed for use with portable computers equipped with a Type II PCMCIA slot. Refer to the list on page 2 for details.

INSTALLATION

- A portable computer with a Type II PCMCIA slot is recommended.
- The floppy disks or CD-ROM.
- The UX-136 Wireless LAN Card.
- One 3.5 inch floppy disk.

CONTENTS

1. Safety Precautions
2. Using in a Windows
 - 2-1 Checking for the LAN card
 - 2-2 Before Using the LAN card
 - 2-3 Installing the LAN card
 - 2-4 Troubleshooting
 - 2-5 About the Paralleling
 - 2-6 Changing the PCMCIA slot
 - 2-7 Identifying Your PCMCIA slot
 - 2-8 Checking the Network
 - 2-9 Troubleshooting
 - 2-10 Removing the LAN card
 - 2-11 Removing the LAN card
3. Troubleshooting
 - 3-1 What is the LAN card
 - 3-2 Setting Up the LAN card
 - 3-3 Running the Program
 - 3-4 Uninstalling the Program

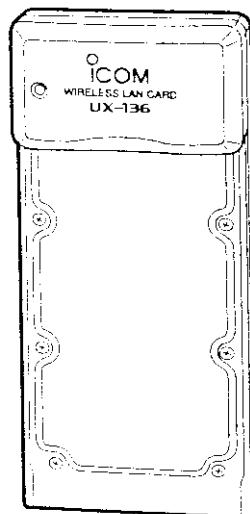


INSTRUCTION MANUAL

SS WIRELESS LAN CARD

UX-136

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.



Icom Inc.

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Preface

NOTATION

The following notation conventions are used in this manual.

- « ».....These marks enclose the names of utilities, applications, and windows (screens) in boldface.
 - [].....These marks enclose tab names, menu names, text boxes, and check boxes to indicate that these items are operation-related.
 - < >.....These marks enclose the names of the command buttons in dialog boxes.
- * Depending on the version and settings of your operating system, the screens shown in this manual may be slightly different from the screens displayed on your computer.

OPERATING ENVIRONMENT

The UX-136 is designed for use with a portable computer that is installed with Windows 95 and equipped with a Type II PCMCIA slot (conforming to PCMCIA standard 2.0 or later). Refer to the list on page 28 for details regarding which computers support the UX-136.

INSTALLATION REQUIREMENTS

- A portable computer installed with the operating system described above (16MB of memory is recommended.)
- The floppy disks or CD-ROM for the operating system (Windows 95)
- The UX-136 Wireless LAN Card and the LAN Card Utilities floppy disk
- One 3.5 inch floppy disk (as a backup to the LAN Card Utilities floppy disk)

CONTENTS

1. Safety Precautions.....	1
2. Using in a Windows 95 Environment.....	3
2-1 Checking for the PC Card Driver.....	4
2-2 Before Using the LAN Card.....	4
2-3 Installing the LAN Card Driver.....	9
2-4 Troubleshooting the Driver Installation.....	10
2-5 About the Parameters.....	11
2-6 Changing the Parameters.....	13
2-7 Identifying Your Computer.....	19
2-8 Checking the Network Connection.....	20
2-9 Troubleshooting the Network Connection.....	21
2-10 Removing the LAN Card.....	22
2-11 Removing the LAN Card Driver.....	23
3. Troubleshooting.....	23
3-1 What is the LAN Card Evaluation Program?.....	23
3-2 Setting Up the Program.....	23
3-3 Running the Program.....	23
3-4 Uninstalling the LAN Card Evaluation Program.....	24

1 Safety Precautions

For your safety, be sure to read the following safety information.

- These precautions are intended to prevent property damage and to insure the safety of the user and others in the area. Please obey these precautions in order to use this product safely and properly.
- Gain full understanding of the precautions listed under **⚠ WARNING** and **⚠ CAUTION** before reading the rest of this manual.
- This manual includes precautions that apply not only to this product but also to the computer systems with which this product is used.
- Keep this manual in a secure place so that these precautions can be reviewed at any time.

WARNING

Accidents that result from ignoring the precautions noted below may result in death or serious injury for the user or others in the area.

- **Do not immerse this product in water or allow it to get wet.**
Otherwise, fire, electric shock, or failure may result.
- **Do not touch this product with wet hands while it is in use.**
Otherwise, electric shock may result.
- **Do not insert wire or other metal objects into this product.**
Otherwise, fire, electric shock, or failure may result.
- **Do not attempt to disassemble this product or modify it in any way. Furthermore, do not attempt to service this product on your own.**
Otherwise, fire, electric shock, or failure may result.
- **Discontinue use immediately if this product releases smoke, a strange odor, or abnormal noise.**
Otherwise, fire, electric shock, or failure may result.
Turn off the power to the computer immediately and remove this product. If there was smoke, make sure it has stopped. Then, contact your local dealer or our customer service office.

CAUTION

Accidents that result from ignoring the precautions noted below may result in personal injury or property damage.

- **Be careful not to insert this product into the computer upside down.**
Otherwise, failure may result.
- **Do not remove or insert this product while Windows 95 is loading.**
Otherwise, failure damage may result.
- **Do not remove this product while the computer is still in use. (See caution statement on page 21.)**
Otherwise, failure, loss of data, or damage may result.
- **Do not step, sit, or place heavy objects on this product.**
Otherwise, failure or damage may result.

- **Do not drop, twist, or bend the product.**
Otherwise, injury or failure may result.
- **Avoid humid or dusty locations.**
Otherwise, fire, electric shock, or failure may result.
- **Avoid direct sunlight.**
Avoid locations with high temperatures.
Otherwise, warping, or failure may result.
- **Do not use near telephones.**
Otherwise, this product may interfere with telephone operation.
- **Do not place this product on unstable surfaces.**
Otherwise, the unit may fall and cause injury or failure.
- **Avoid locations with excessive vibration.**
Otherwise failure may result.
- **Do not use paint thinners or other cleaning agents.**
Otherwise, deterioration of the product may occur. For cleaning, use a soft cloth and a mild cleaning agent that has been recommended by the manufacturer.

- Be sure to create a backup of your data before performing a major operation.
- Refer the operating instructions to the user manual in conjunction with the product.
- When installing software on the hard disk, be sure to follow the instructions. If you will hold the resulting data, be sure to back up the data.
- ICOM will not be held responsible for data loss or damage, including but not limited to:
 - Improper use
 - Use after disassembly
 - Static electricity or lightning
 - Failure or repair
 - Natural disasters
 - Turning the computer on or off
 - Removing this product
 - Turning off or restarting the computer
 - Other data storage or transfer
 - Turning off or restarting the computer

Safety information.

Read the safety instructions in order to use this product correctly.

WARNING and CAUTION

Read the safety instructions for the product but also to the user manual.

The safety instructions can be reviewed at any time.

The safety precautions noted in the user manual are for the user or the installer.

Read the safety instructions in order to use this product correctly.

If you notice a strange odor, or smoke, stop using the product immediately.

If there is a problem with the product, contact our customer service.

The safety precautions noted in the user manual are for the user or the installer.

Read the safety instructions in order to use this product correctly.

Read the safety instructions in order to use this product correctly.

Read the safety precautions in the user manual.

Safety Precautions 1

- **Do not drop, twist, or apply strong impact to this product.**
Otherwise, injury or failure may result.
- **Avoid humid or dusty locations and locations with bad ventilation.**
Otherwise, fire, electric shock, or failure may result.
- **Avoid direct sunlight and locations that are close to the outlets of heaters or coolers.**
Avoid locations with sudden temperature changes.
Otherwise, warping, discoloration, fire, or failure may result.
- **Do not use near televisions or radios.**
Otherwise, this product may cause or suffer from electrical interference.
- **Do not place this product on an unstable or sloping surface.**
Otherwise, the unit may fall or topple resulting in fire, injury, or failure.
- **Avoid locations with strong magnetic fields, static electricity, humidity levels higher than recommended for the computer, or dew formation.**
Otherwise failure may result.
- **Do not use paint thinner or benzene to clean this product.**
Otherwise, deterioration of the casing or peeling of the coating may result. For normal cleaning, use a soft cloth. If excessively dirty, dampen the cloth with a neutral cleaning agent that has been diluted with water.

General Precautions

- Be sure to create a backup for the LAN Card Utilities disk and use the back up for normal operation.
- Refer the operating instructions accompanying the computer and other peripherals used in conjunction with the UX-136 regarding the proper operation of those items.
- When installing software or otherwise making changes to the environment of your computer, be sure to create a backup for all critical data stored in your computer. Doing so will hold the resulting damage to a minimum if something goes wrong.
- ICOM will not be held responsible for lost or damaged data under any circumstances, including but not limited to data that is lost or damaged due to:
 - Improper use
 - Use after disassembly or modification
 - Static electricity or noise
 - Failure or repair
 - Natural disasters
 - Turning the computer back on immediately after turning it off
 - Removing this product while sending or receiving data
 - Turning off or restarting the computer while accessing the hard disk, an MO, a floppy disk, or other data storage device
 - Turning off or restarting the computer while the application software is in operation

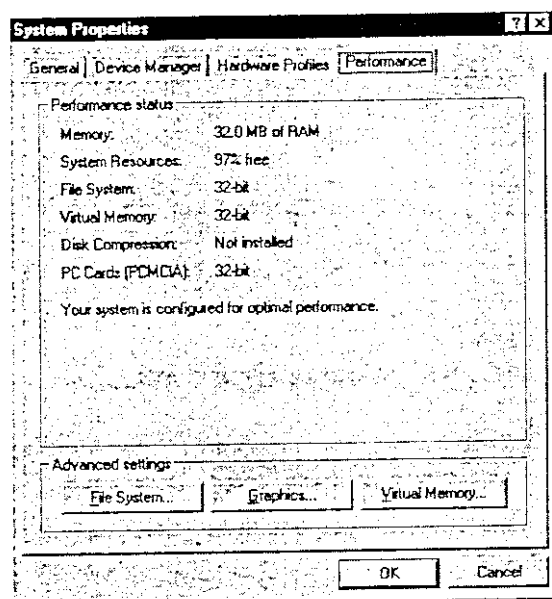
2 Using in a Windows 95 Environment

2-1 Checking for the PC Card Driver

In order to install the wireless LAN card driver, the 32-bit PC Card driver must be properly installed.

Check for the driver as follows.

1. Click the following icons in order as shown: [My Computer], [Control Panel], and [System].
2. Click the [Performance] tab so that the window looks like the one shown below. Make sure "32-bit" is displayed next to "PC Cards (PCMCIA)".
* If "MS-DOS Compatible Mode" is displayed, install the Windows 95 32-bit PC Card driver.
3. Click <OK> to close the window.



2-2 Before Using

Before using your LAN card, read the instructions described in the following.

2-3 Installing the Driver

The Netpcmb.inf file located in the following directory is used when the LAN card driver is installed.

CAUTION: Be sure to use the correct driver file.

Procedure

1. Make sure the power is on.
CAUTION: If Windows 95 is not running, the installation process will not work.
2. Insert the Wireless LAN card into the PCMCIA slot with the ICOM mark.

About card bus slot
If you are using a card bus slot, it is very compatible, the PCMCIA slot.

UX-136

Normally insert the card in this manner. Be sure to note that some personal computers may require the card to be inserted with the ICOM marked side of the disk faced down.

3. When the computer is started, the driver is installed.



2-2 Before Using the LAN Card

Before using your LAN Card, install the LAN Card driver and set the parameters as described in the following sections.

2-3 Installing the LAN Card Driver

The Netpcmb.inf file located in the WIN95 directory in the LAN Card utilities disk is used when the LAN card driver is installed.

CAUTION: Be sure to create a back-up disk for the LAN Card Utilities disk and use it for the operations discussed in this manual.

Procedure

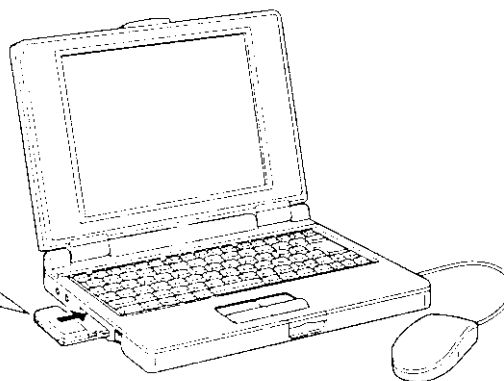
1. Make sure the power to the computer is off.
CAUTION: If Windows 95 is already running, close all open applications before proceeding.
2. Insert the Wireless LAN Card (hereafter referred to as LAN Card) into the PCMCIA slot with the **ICOM** marking facing upward.

About card bus slots:

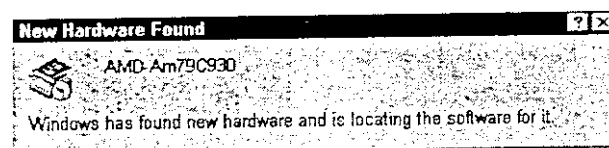
If you are using a computer that has a card bus slot with which the LAN Card is not very compatible, the operation of the LAN card will not be stable. Use a dedicated PCMCIA slot.

UX-136

Normally insert UX-136 in this manner. But note that some personal computers may require the disk to be inserted with the flow marked side of the disk faced downward.



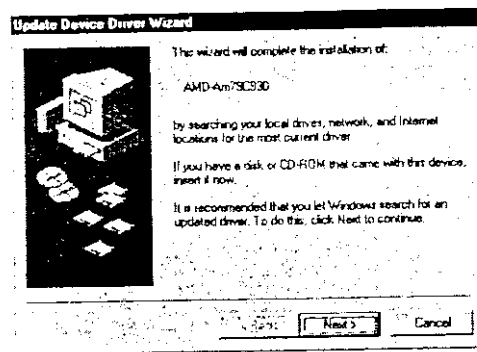
3. When the computer recognizes the LAN card, the following window appears.



2 Using in a Windows 95 Environment

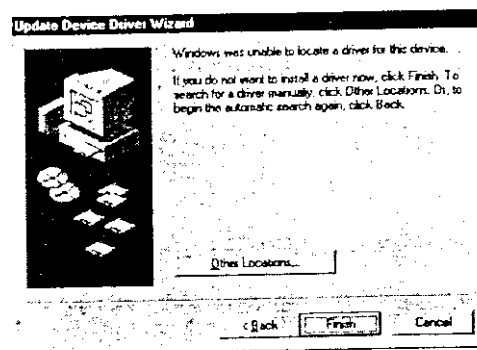
2-3 Installing the LAN Card Driver (continued)

4. Open the «Device Driver Wizard» and insert the back-up disk into Drive A (hereafter "floppy disk drive" refers to Drive A). If you have a Windows 95 CD-ROM, insert it into the CD-ROM drive.
Click <Next>.



6. The «Select Other» where the LAN Card

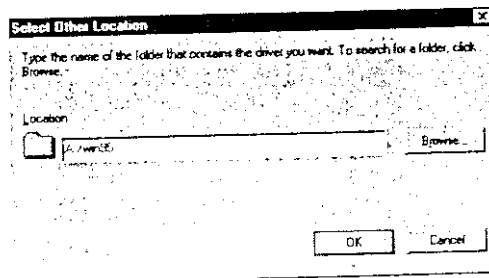
5. The following «Device Driver Wizard» window appears. Click <Other Locations>.



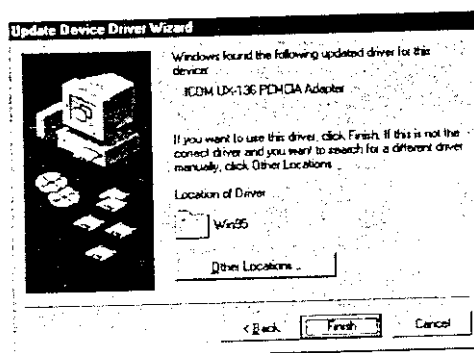
7. The message "Win UX-136 PCMCIA."

Using in a Windows 95 Environment 2

6. The «Select Other Locations» window appears. Set the location to drive name "A:¥", where the LAN Card driver is, and directory name "win95." Click <OK>.



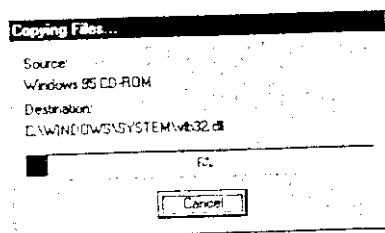
7. The message "Windows found the following updated driver for this device: ICOM UX-136 PCMCIA." appears. Click <Finish>.



2 Using in a Windows 95 Environment

2-3 Installing the LAN Card Driver (continued)

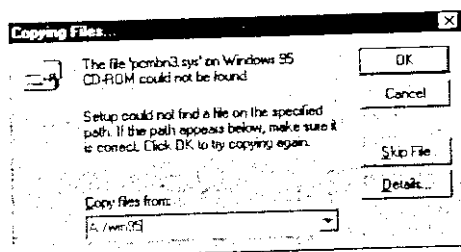
8. When the driver installation begins, the «Copying Files» window appears. Depending on the network configuration of the computer, a request for the Windows 95 CD-ROM may occur. Continue the setup procedure according to the messages that appear on the screen.



Caution

If either of the following messages appear on the screen before or after the driver installation (Step 8) begins, follow the instructions in the message.

- Case 1.** During the OSR 2 Install Model, the following message appears after copying from the CD-ROM: "The file 'pcmbn3.sys' on Windows 95 CD-ROM could not be found." Again, specify the location of the LAN card driver as drive name "A:¥" and directory name "win95." Then, click <OK>.

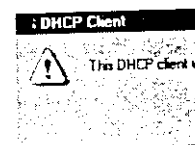


9. When the files have following windows v

- Case 1.** The «System computer has

Sys

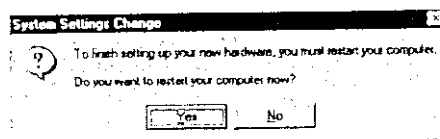
- Case 2.** When a network «DHCP Client restarted, pro



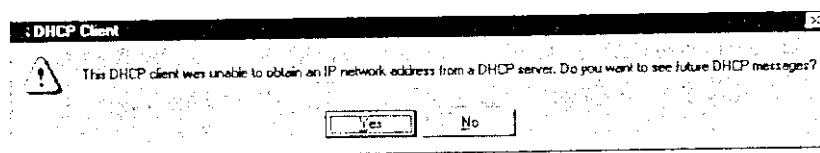
Using in a Windows 95 Environment 2

9. When the files have been copied and the database has been updated, one of the following windows will appear on the screen. Follow the instructions in the message.

Case 1. The «System Settings Change» screen appears. Click <Yes>. After your computer has restarted, proceed to the instructions on the following page.



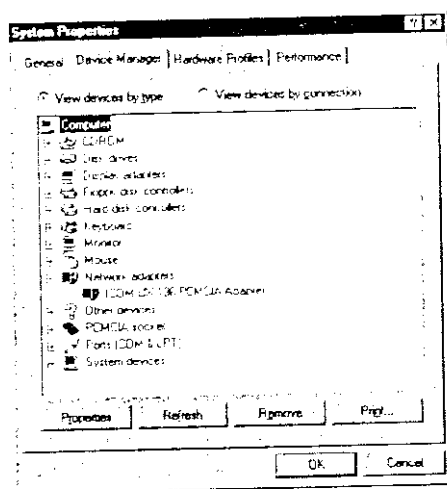
Case 2. When a network has already been setup and TCP/IP has already been set, the «DHCP Client» window appears. Click <Yes>. After your computer has restarted, proceed to the instructions on the following page.



2 Using in a Windows 95 Environment

2-4 Troubleshooting the Driver Installation

- When the driver installation fails, check the following.
Use the following window to check if the PCMCIA controller is operating properly, and make sure there are no resource conflicts.
Select [Control Manager], [System], and then click the [Device Manager] tab. Select «Network adapters». The figure below shows how the «Network adapters» entry should look when the driver is properly registered in the [Device Manager].



- If «ICOM UX-136 PCMCIA Adapter» is listed under «Other devices» instead of «Network adapters», read “2-11 Deleting the LAN Card Driver” (p. 22) and delete «ICOM UX-136 PCMCIA Adapter». Then, reinstall the driver.
- If the I/O Port Address was automatically set to 0250-025F, click «ICOM UX-136 PCMCIA Adapter», <Properties>, and then the [Resources] tab. Manually change the I/O Port Address to 0240-024F.
- When a different wireless LAN Card has already been installed, delete the existing driver and install only the driver for the UX-136.

2-5 About the

The UX-136 is ready parameters need to be for the procedure.

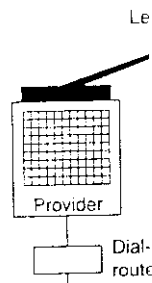
Desired ESS ID

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Network Mode

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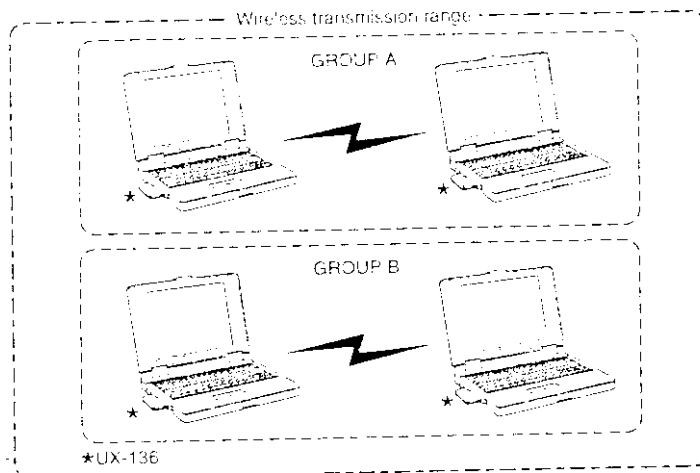
Using in a Windows 95 Environment 2

2-5 About the Parameters

The UX-136 is ready for use when it is shipped from the factory, but the following parameters need to be changed under certain circumstances. See the following section for the procedure.

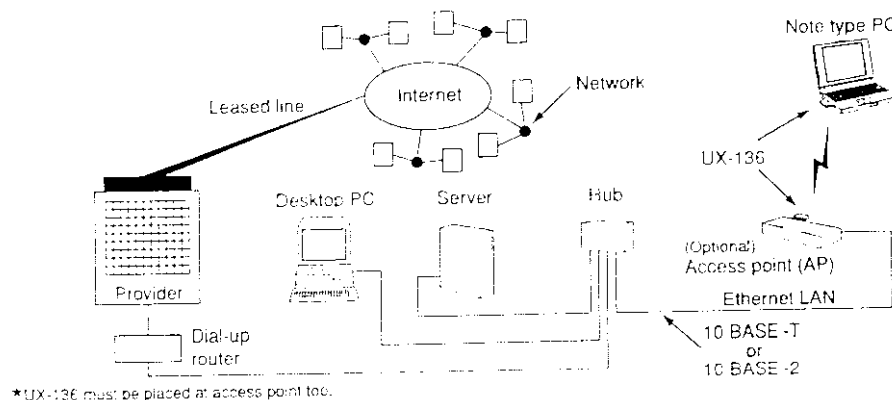
Desired ESS ID

The Desired ESS ID needs to be changed when the network includes multiple workgroups operating within the wireless transmission range and you do not want other workgroups to view your network data. (See page 12.)



Network Mode

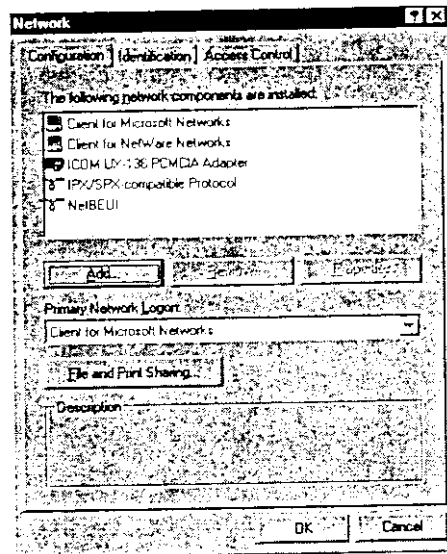
The Network Mode needs to be changed a network access point (AP) is to be used to connect with a cable LAN.



2 Using in a Windows 95 Environment

2-6 Changing the Parameters

1. Click the [Control Panel] icon and then the [Network] icon. The «**Network**» screen appears as shown below.



2. Select «**ICOM UX-136 PCMCIA Adapter**» under [The following network components are installed]. Then, select <Properties>.

3. Click the [Advanced] tab. The «**ICOM UX-136**

4. Select the desired item. The box under [Value] Using the following property. The value range of 1 to 11.

Property name	
Desired ESS ID	This LAN up w * Ass (grc
Network Mode	This meth Peer Conr
Pkt Size	This (byte Norm chan

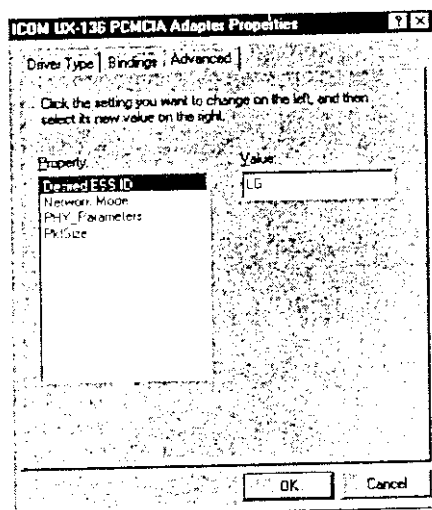
5. Click <OK> to end th
6. Restart Windows 95

Using in a Windows 95 Environment 2

3. Click the [Advanced] tab.

The «ICOM UX-136 PCMCIA Adapter» window appears as follows.

he «Network» screen



4. Select the desired item (property name) from the list under [Property].
The box under [Value] indicates the parameter (setting value) of the selected property.
Using the following table of parameters as a reference, input the parameter for each property. The value of PHY_Parameters defaults to 3 (ch) and can be set within the range of 1 to 11.

network components

Property name	Description	Setting method or range	Default
Desired ESS ID	This item allows you to assign a name to each LAN group when multiple LAN groups are built up within a wireless communication range. * Assign the same name to the same group (group). Note that this entry is case sensitive.	Type up to 36 alphanumeric characters.	LG
Network Mode	This item allows you to set the connection method according to your LAN configuration. Peer-to-peer connection: Adhoc Connection to access point: Infrastructure	Select Adhoc or Infrastructure	Adhoc
Pkt Size	This item allows you to set the maximum size (bytes) of a packet in packet transmission. Normally this item does not require to be changed from the default.	Select or type a value ranging from 200 to 1600.	1000

5. Click <OK> to end the network settings.

6. Restart Windows 95.

2 Using in a Windows 95 Environment

2-7 Identifying Your Computer

Once the driver installation and parameter settings are complete, your computer must be identified within the network by specifying a computer name and a workgroup name. An example of the procedure is given below. For further details, see "Introducing Networks" in the Introducing Microsoft Windows 95 manual.

■ Connecting Computers Peer-to-Peer (Adhoc Mode)

Protocol is the common transmission language used between computers and between the networks that comprise the internet. Either NetBEUI or TCP/IP can be used with the UX-136.

When the evaluation program of the LAN Card (located in the [UTILS] folder of the LAN Card Utilities software) is used, follow the procedure below to make sure that TCP/IP is installed.

Before proceeding with computer identification

[IPX/SPX-compatible Protocol] and [NetBEUI] are installed when the LAN Card software is installed and are provided by Windows 95 under [The following network components are installed]. In order to confirm the installation of these protocols, select [Control Panel] → [Network] → [Configuration]. Follow the procedure below to add TCP/IP.

1. Select [Control Panel] → [Network] and then click <ADD>. The «Select Network Component Type» window appears.
2. Click «Protocol» under [Click the type of network component you want to install]. Then, click <Add>.
The «Select Network Protocol» window appears.
3. Click «Microsoft» under [Manufacturers] and then click «NetBEUI» or «TCP/IP» under [Network Protocols]. Next, click <OK>.
The screen returns to the [Network] window.
4. Click <OK> to finish the protocol setting.
5. Restart your computer.

File and printer sharing

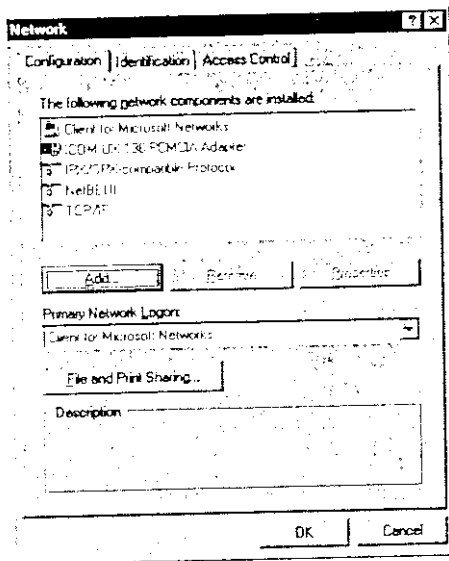
1. Select [Control Panel]

2. Turn on both [I want to allow others to pri

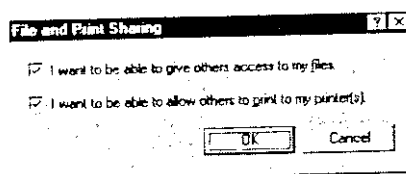
Using in a Windows 95 Environment 2

File and printer sharing

1. Select [Control Panel] → [Network] and click <File and Print Sharing>.



2. Turn on both [I want to be able to give others access to my files.] and [I want to be able to allow others to print to my printer(s).] Click <OK>.



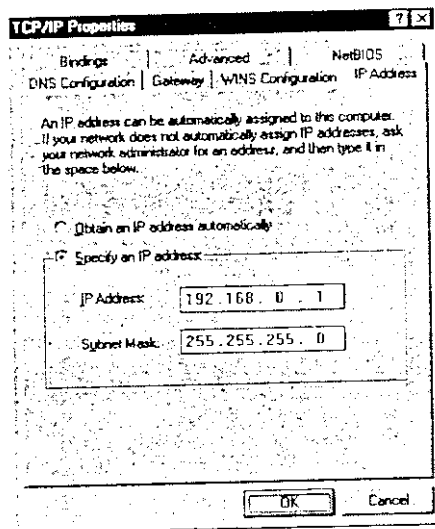
2 Using in a Windows 95 Environment

2.7 Identifying Your Computer (continued)

The following settings are necessary when TCP/IP protocol is to be used.

Select [Control Panel] → [Network] and click «TCP/IP» under [The following components are installed]. Then click <Properties>.

The [IP Address] tab of the «TCP/IP Properties» window appears. Select [Specify an IP address] and input the [IP Address] and the [Subnet Mask] numerically. If you do not know what numeric values to use for these items, contact your IP or your network manager.



For your information

IP addresses are made up of four numbers, each ranging from 0 to 255 and separated by periods. Use a different IP address for each computer within the workgroup. Subnet masks are also made up of four numbers, each ranging from 0 to 255 and separated by periods. Use the same subnet mask for each computer within the workgroup.

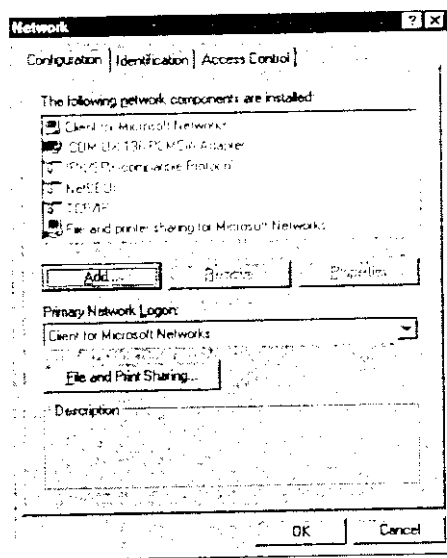
3. Select [Control Panel] → [Network] and click «TCP/IP» under [The following components are installed]. Then click <Properties>. The [IP Address] tab of the «TCP/IP Properties» window appears. Select [Specify an IP address] and input the [IP Address] and the [Subnet Mask] numerically. If you do not know what numeric values to use for these items, contact your IP or your network manager.

4. Click <OK>. Click computer now?" Yo

2 Using in a Windows 95 Environment

2-7 Identifying Your Computer (continued)

5. After your computer restarts, select [Control Panel] → [Network]. Make sure that «Client for Microsoft Networks», «ICOM UX-136 PCMCIA Adapter», «NetBEUI», and «File and printer sharing for Microsoft Networks» are all listed under [The following components are installed].



7. Right click the folder [Sharing].

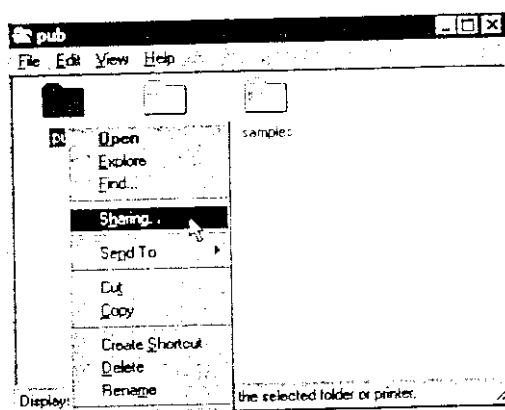
8. The properties of the settings for [S necessary, modify t

6. In order to share a folder, open the window that contains the folder from [My Computer].

Using in a Windows 95 Environment 2

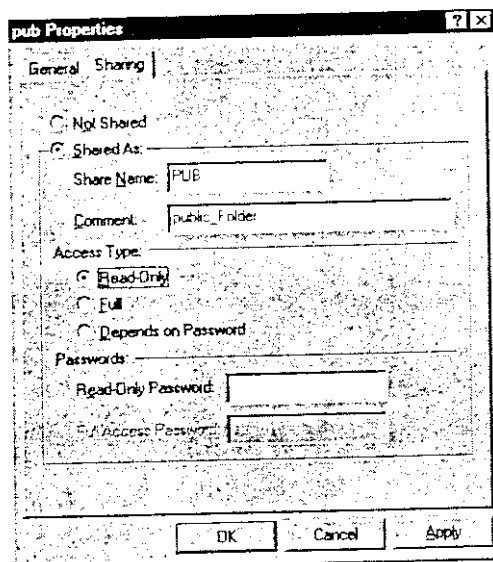
7. Right click the folder you want to share and click to display the shortcut menu. Click [Sharing].

ork]. Make sure that
dapter», «NetBEUI»,
all listed under [The



8. The properties of the folder are displayed. Turn on the [Shared As] button and check the settings for [Share Name], [Comment], [Access Type], and [Password]. If necessary, modify the settings. Next, click <OK>.

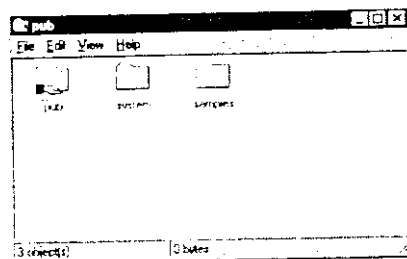
the folder from [My



2 Using in a Windows 95 Environment

2-7 Identifying Your Computer (continued)

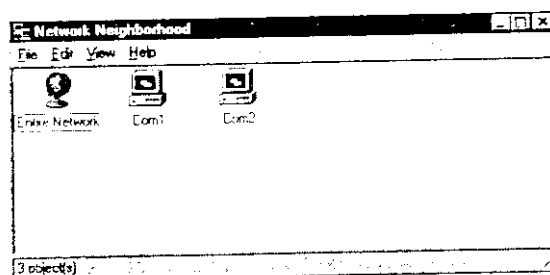
9. The following screen appears. The hand indicates that the folder [Pub] has been specified as a shared folder.



2-8 Checking the Network Connection

After you have completed the procedures to identify your computer as part of the network, check to make sure you can access the folders of the other computers in the network. Double click the [Network Neighborhood] icon on your desktop and display the window shown below. Check to make sure the [Entire Network] icon and the icons for both your computer and the other computers in the workgroup are displayed. If they are, the network is properly connected.

- If the icon of a computer that is not part of your workgroup is displayed, double click the [Entire Network] icon to display a list of the computers in the network. The list will not include, however, computers whose Desired Ess ID (p. 12) is different from the Desired Ess ID of the workgroup to which your computer is connected. If you do not wish others to have access to your network data, change the Desired Ess ID setting of your workgroup.



When the [Network Neighborhood] or the [Entire Network] icon is selected, it may take several minutes for the icons of all of the computers in the workgroup or for the entire network list, respectively, to appear. When there are missing icons or list items, close and reopen the [Network Computer] window. If the missing items again fail to appear, perform the procedure on the following page or consult your network manager.

2-9 Troubleshooting

When your computer displays the following error message, perform the following steps to change it if necessary.

- Is your computer using the correct protocol? Select [Control Panel] under [The following] the [Bindings] tab and the protocol you will use.

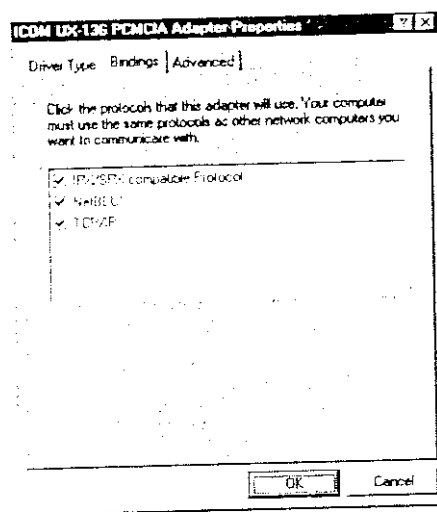
- If you are using your service software for the network, check the settings.
- Is your computer using the correct protocol?
- Is your computer using the correct protocol?
- Have you set the access permissions for the other workgroups?
- If you are using TCP/IP, check the settings. If you are using an IP address, also support the wireless network.
- To obtain details about the network, see "Troubleshooting" under "Troubleshooting".

Using in a Windows 95 Environment 2

2-9 Troubleshooting the Network Connection

When your computer cannot recognize the other computers in the network, check the following.

- Is your computer using the same protocol as the other computers in your workgroup? Perform the following operations to check the protocol that is used by the UX-136 and to change it if necessary.
Select [Control Panel] -> [Network] and then select «**ICOM UX-136 PCMCIA Adapter**» under [The following network components are installed]. Click <Properties> and select the [Bindings] tab and display the window shown below. Turn on the check box next to the protocol you will be using.



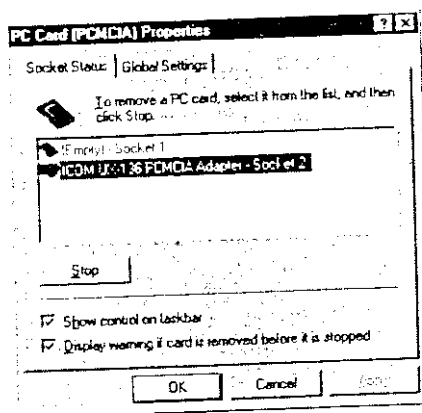
- If you are using your computer as a Microsoft Networks client, have you installed service software for Microsoft Networks?
- Is your computer using the same Desired ESS ID (p.12) as the other computers in your workgroup?
- Is your computer using the same workgroup name as the other computers in your network?
- Have you set the access status to "share" for the computers in your workgroup and the other workgroups?
- If you are using TCP/IP, are the IP addresses of the computers in the network correct? If you are using an IP address from a DHCP server or a DNS server, the server must also support the wireless network.
- To obtain details about other possible causes, select "If you have trouble using the network" under "Troubleshooting" in the Help Contents.

2 Using in a Windows 95 Environment

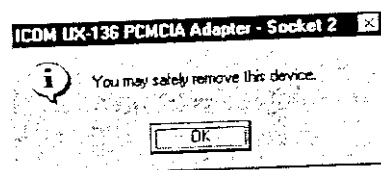
2-10 Removing the LAN Card

There is a correct procedure for removing the LAN Card. If this procedure is not followed, the system may run abnormally.

1. If there is a [PC Card] icon in the task tray on the bottom right of the screen, double click the icon. Otherwise, click <Start> and then select [Settings] - > [Control Panel]. Double click the [PC Card] icon in the [Control Panel].
2. From the [Socket Status] sheet of the [PC Card (PCMCIA) Properties] window, select the PC Card you wish to remove and then click <Stop>.



3. Do not remove the LAN Card until the following message appears on the screen.



CAUTION: The packaging of the LAN Card absorbs heat from the inside of the computer. This heat has no ill effect on the performance of the card, but it can cause burns if the card is removed before the computer cools. After clicking <OK>, turn off the power to the computer and wait for the internal temperature to fall before removing the card.

2-11 Removing

The LAN Card driver is

1. Click <Start> and se
2. Select the [Device under «Network ad

3. Click <Remove> an your computer now'

2-12 About the

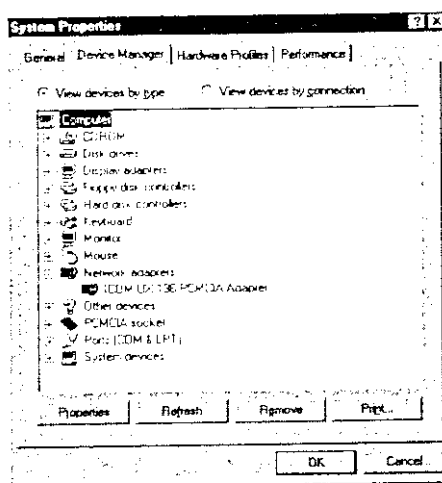
The status of the LAN C
The green LED lights d
LED lights during data
both transmission and r
has stopped, the LAN C

Using in a Windows 95 Environment 2

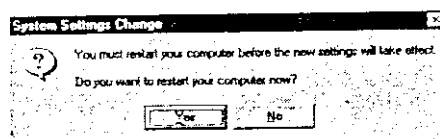
2-11 Removing the LAN Card Driver

The LAN Card driver is removed according to the following procedure.

1. Click <Start> and select [Settings] → [Control Panel] → [System].
2. Select the [Device Manager] tab and then click «ICOM UX-136 PCMCIA Adapter» under «Network adapters».



3. Click <Remove> and then click <Yes> in reply to the message "Do you want to restart your computer now?" Your computer restarts.



2-12 About the LEDs

The status of the LAN Card can be checked using the LEDs.

The green LED lights during power on, during restart, and during data reception. The red LED lights during data transmission, and the red and green LEDs light alternately when both transmission and reception are taking place. In Adhoc Mode or when communication has stopped, the LAN Card emits a beacon frequency and the LEDs flash at high speed.

in the inside of the
ence of the card, but it
mputer cools. After
wait for the internal

3 Troubleshooting

3-1 What is the LAN Card Evaluation Program?

When there is trouble with the network (for example, when your computer cannot recognize the other computers in the network), the LAN Card Evaluation Program can be used to display information about the communication status of the LAN card. This information can help you find the cause of trouble.

3-2 Setting Up the Program

Before setting up the program

Make sure the computers in the workgroup for which this program will be used have TCP/IP installed. If TCP/IP is not installed, see "Before proceeding with computer identification" under "Connecting Computers Peer-to-Peer (Adhoc Mode)" (p.13).

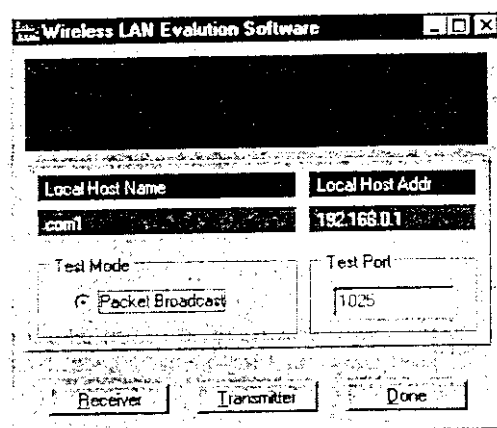
Setting up the program

1. Close any software applications that are running.
2. Insert the back-up disk into Drive A.
3. Select [My Computer] → [3-1/2 Floppy (A:)] and then select «Setup.exe» from the [UTILS] folder. The setup program will start. Follow the instructions in the setup program.

3-3 Running the Program

1. The [LAN Evaluation] icon is located in the directory that you specified during program setup. Double click the icon. The window shown below appears.
To end LAN Evaluation, click <Done> or click the close button on the top right of the screen.
To run the evaluation program, click <Transmitter> and continue on to the operations described on the following pages.

2. Click <Start Tx> to let evaluation are displ dummy data, the res Before closing the transmission of the top right of the screen The screen returns



Troubleshooting 3

ram?

our computer cannot
ation Program can be
the LAN card. This

2. Click <Start Tx> to begin transmission of dummy data. The results for each item of the evaluation are displayed in the «Transmit Data» window. During transmission of the dummy data, the red LED on top of the LAN Card is lit.

Before closing the «Transmit Data» window, click <Stop Tx> to terminate transmission of the dummy data. Then, click <Done> or click the close button on the top right of the screen.

The screen returns to the «Wireless LAN Evaluation Software» window.

am will be used have
eding with computer
Mode)» (p.13).

«Setup.exe» from the
ructions in the setup

ecified during program
s.

on the top right of the

e on to the operations.

Transmit Data		
Local Host Name	Local Host Addr	
com1	192.168.0.1	
Test Mode	Test Port	Remote Host Addr
Packet Broadcast	1025	
Remote Address	Packet Size	
	1024	
Sending		
	Current	Cumulative
Elapsed Time	2	36
Byte Count	395912	6715016
KBit/Second	1511.115	1508.230
Total Packet Count	409	6937
Packet/Second	195.13	194.76
Start Tx Stop Tx Done		

3 Troubleshooting

3-3 Running the Program (continued)

- Click <Receiver> and open the «Receive Data» window. Click <Start Rx> to begin receiving dummy data sent from another computer using LAN Evaluation. The results for each item of the evaluation are displayed in the «Receive Data» window. During reception of the dummy data, the green LED on top of the LAN Card is lit. Before closing the «Receive Data» window, click <Stop Tx> to terminate reception of the dummy data. Then, click <Done> or click the close button on the top right of the screen. The screen returns to the «Wireless LAN Evaluation Software» window.

The screenshot shows a window titled "Receive Data" with a standard Windows XP-style title bar (minimize, maximize, close buttons). The window contains several input fields and a table of statistics.

Input fields:

- Local Host Name: com1
- Local Host Addr: 192.168.0.1
- Test Mode: Packet Broadcast
- Test Port: 1025
- Remote Host Addr: 172.16.24.55

Statistics Table:

	Current	Cumulative
Elapsed Time	2	2
Byte Count	396880	396880
KBit/Second	1474.020	1474.020
Good Packet Count	410	410
Bad Packet Count	10	10
Total Packet Count	420	420
Packet/Second	190.34	190.34
PER %	2.38	2.38

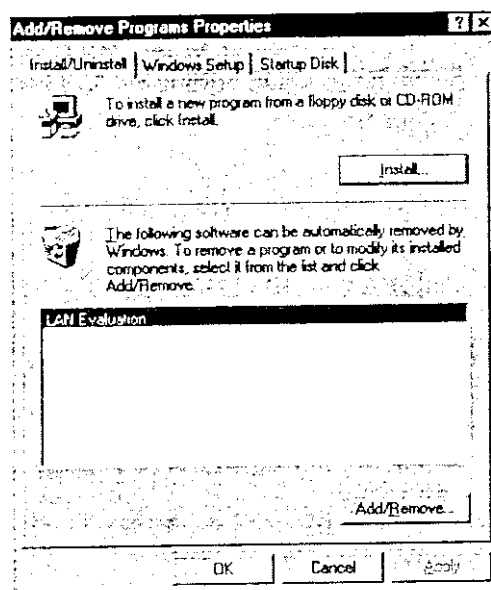
Buttons at the bottom: Start Rx, Stop Rx, Done.

3-4 Uninstalling

Select [Control Panel] in the list of programs in the Start menu, click <Yes> in reply to the

3-4 Uninstalling the LAN Card Evaluation Program

Select [Control Panel] → [Add/Remove Programs] and then select LAN Evaluation from the list of programs in the «Install/Uninstall» window. Click <Add/Remove> and then click <Yes> in reply to the message that appears on the screen.



4 SPECIFICATION

■ Specifications

■ General

- Transmit method : Spread Spectrum, Direct Sequence type
- Range : Approx. 50 to 200 m (depending on condition)
- ~~Data contents~~ : ~~Ethernet~~
- Transmit speed : 1 or 2 Mbps
- Powersupply requirement : 5 V DC $\pm 5\%$ (negative ground)
- Current drain : Transmit 450 mA (typ.)
Receive 240 mA (typ.)
Stand by 190 mA (typ.)
- Usable temperature range : 0°C to -55 °C; +32° F to +131° F
- Dimensions : 122.5(W) $\times$ 5.0(H) $\times$ 54.0(D) mm
(projections not included) 4¹³/₁₆(W) $\times$ 1/32(H) $\times$ 2¹/₈(D) in
- Weight : 75 g; 0.16 lb

• Operation within the band : 2400-2483.5 MHz.

• Number of Channels: 11

■ Transmitter

- Output power : Less than 10 mW/MHz **50mW**
- Frequency stability : ± 20 ppm (0°C to +55 °C)
- Spurious emissions : Less than 25 μ W (2408 MHz $\leq f <$ 2471 MHz)
Less than 2.5 μ W (2458 MHz $> f$)
Less than 25 μ W (2497 MHz $\leq f <$ 2510 MHz)
Less than 2.5 μ W (2510 MHz $< f$)

■ Receiver

- Sensitivity : More than -80 dBm (BER=10⁻⁵)
- Spurious response : Less than 4 nW (below 1 GHz)
Less than 20 nW (above 1 GHz)
- Error rate : Less than 10⁻⁵ (at -80dBm input)

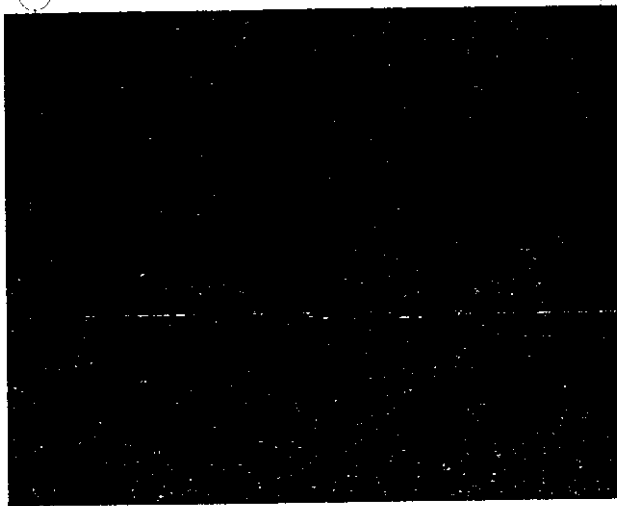
All stated specifications are subject to change without notice or obligation.

• Approval: FCC Part 15, Subpart B, Class B
FCC Part 15.247

• Antenna : Inverted F

• Host Interface: Pc Card PCMCIA Type II

Count on us!



A-55.3G-1EX
Printed in Japan
© 1996 Icom Inc.

Icom Inc.
6-9-16 Kamihigashi, Hirano-ku, Osaka 547 Japan