

Zoltrix, Inc.

41778 Christy Street
Fremont, CA 94538

56K Internal Modem with Speaker/Phone

FCC ID: H4TFM-RIB3HSF

Model: FM-RIB3HSF

Usset's Manual(Preliminary)

FCC Warning

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

Information to the User

This equipment has been tested and found to comply with the limits for a class B digital device pursuant to part 15 of 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 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 and for additional suggestions.

The user may find the following booklet prepared by the Federal Communica-

Problems." This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402, Stock No. 004-000-00345-4.

FCC Warning

The user is cautioned that changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Introduction	
Before You Start	
Electro-static Discharge (ESD)	
Safety Precautions	
Necessary Equipment	
Installation Steps	
Selecting the Com Port	
Jumper settings	
Recommended Jumper settings	
Connecting to a sound card (optional)	
Connecting to a sound card (via CD-ROM audio-in)	
Connecting to a sound card (via Sound cards line-in)	
Inserting the Fax/Modem	
Installing Telephone Lines	

INTERNAL FAX/MODEM INSTALLATION

1 Introduction

Congratulations on your purchase. The *Zoltrix Cobra* uses Rockwell's state-of-the-art HSF chipset. Host-controlled modem software performs processing of general modem control, command sets, fax Class 1, speakerphone, voice/audio/TAM, error correction, data compression, and operating system interface functions.

1.1 Before You Start

If you've never installed an add-in board in your computer before, please follow the instructions in this section carefully. Read the entire section before beginning.

1.1.1 Electro-static Discharge (ESD)

Some of the components on your board are sensitive to static electricity (Electro-Static Discharge), so before you handle the fax/modem, you need to discharge any static electricity that you may have generated. This can be done by touching any unpainted metal surfaces of your computer's chassis or by grasping a cold water pipe. This is called "grounding". Ground yourself before you take the board out of the static-shielded bag and everytime you intend to handle the board.

The board should be kept in the static-shielded bag anytime it is not installed in your computer. Never bring the board close to anything plastic where high levels of ESD (Electro-Static Discharge) may exist. Because ESD can even reside on the outside of the static-shielded bag, you should never place the board on top of the bag.

Also, please read through the User's Manual for your computer for any precautions that should be followed for your particular computer.

1.1.2 Safety Precautions

Some general safety precautions you should follow are:

1. **Turn OFF the computer before you begin. Also, turn OFF any external devices that are connected to your computer, such as printers.**
2. Handle the board gently by the edges. Some of the component leads under the board have very sharp edges and may cause serious injury.

1.2 Necessary Equipment

Make sure that you have the following equipment at hand before you begin.

- The *Zoltrix Cobra*
- A Pentium or faster compatible computer with an available PCI expansion slot
- A modular telephone outlet and cable
- A small, flat-blade screwdriver and a small pair of pliers or tweezers
- A telephone set (Optional)
- Shielded PC speakers or headset and Microphone (required for speaker phone)

1.3 Installation Steps

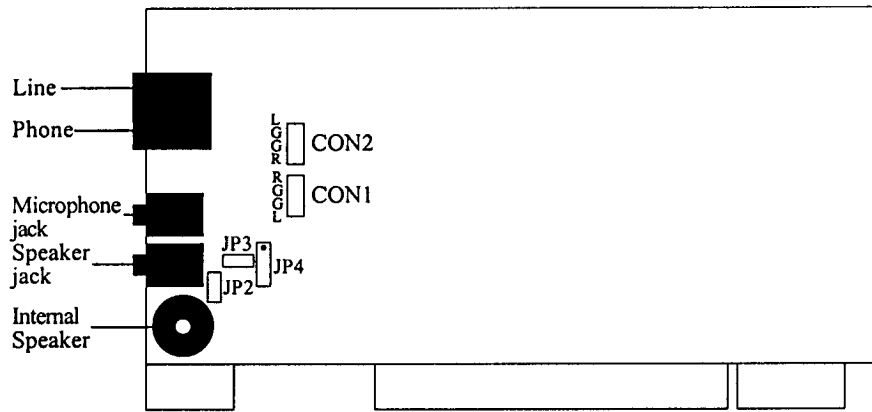
The steps to install your modem are shown in order in this section. For some steps, you may need to refer to your computer's User's Manual.

1.3.1 Selecting the COM Port

The *Zoltrix Cobra* is PnP and can use COM ports 1 to 8 and IRQ's 2,3,4,5,10,11,12 & 15. This is selected automatically. There are no hardware jumpers or dip switches to set. Refer to Chapter 2 for the Windows software installation instructions. You may want to read the section (T.2 Determining What Serial Ports Are Installed in Your Computer) to determine if you have any available com port addresses left on your computer.

1.3.2 Jumper settings

Before inserting the modem into the slot in the computer, you should go over the following options to properly configure the modems jumper settings.



CON1 Audio Out: Connect to the Sound cards CD-ROM audio input

CON2 Audio In: Connect to the CD-ROM audio output

JP2 Short to enable the internal speaker (Default)
Open to disable the internal speaker

JP3 Short if connecting speakers to the speaker jack (Default)
Open if connecting a headset to the speaker jack

JP4 Short pins 2-3 (Default)

• Denotes JP4's pin 1 location

Note: Short = Jumper shorting the designated pins together
Open = No jumper across the designated pins

Modified
by Mine
9-9-98
Always on Always

1.3 Installation Steps

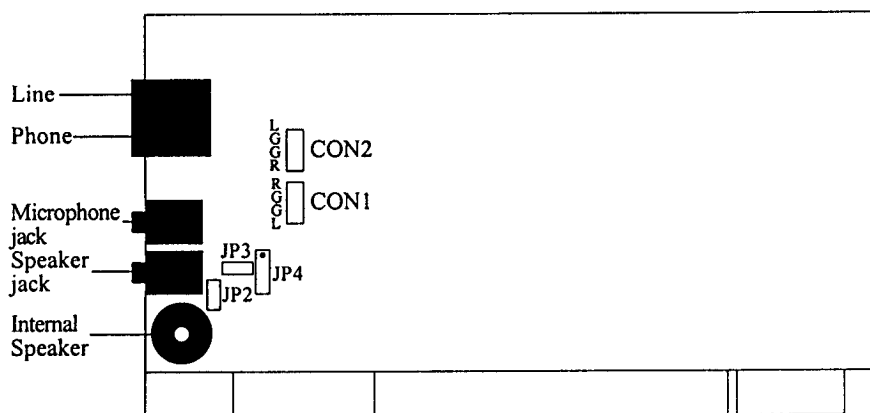
The steps to install your modem are shown in order in this section. For some steps, you may need to refer to your computer's User's Manual.

1.3.1 Selecting the COM Port

The *Zoltrix Cobra* is PnP and can use COM ports 1 to 8 and IRQ's 2,3,4,5,10,11,12 & 15. This is selected automatically. There are no hardware jumpers or dip switches to set. Refer to Chapter 2 for the Windows software installation instructions. You may want to read the section (T.2 Determining What Serial Ports Are Installed in Your Computer) to determine if you have any available com port addresses left on your computer.

1.3.2 Jumper settings

Before inserting the modem into the slot in the computer, you should go over the following options to properly configure the modems jumper settings.



CON1 Audio Out: Connect to the Sound cards CD-ROM audio input

CON2 Audio In: Connect to the CD-ROM audio output

JP2 Short to enable the internal speaker (Default)

Open to disable the internal speaker

JP3 Short if connecting speakers to the speaker jack (Default)

Open if connecting a headset to the speaker jack

JP4 Short pins 1-2 for line out level to be sent to the speaker jack

Short pins 2-3 for speaker out level to be sent to the speaker jack (Default)

• Denotes JP4's pin 1 location

Note: Short = Jumper shorting the designated pins together

Open = No jumper across the designated pins

Original

Chapter 1 Internal Fax/Modem Installation

1.3.3 Recommended Jumper settings

Following are the recommended settings for various uses:

- | | | |
|----|----------------------------------|-----------------------------------|
| 1. | Passive speakers (non amplified) | Use the factory default settings. |
| 2. | Active speakers (amplified) | JP2=short, JP3=open, JP4=2&3 |
| 3. | Sound card connection | JP2=open, JP3=open, JP4=2&3 |
| 4. | Headset | JP2=short, JP3=open, JP4=2&3 |

1.3.4 Connecting to a sound card (optional)

If you want the modem to share the sound cards speakers, you can use one of two different methods. The first method needs to be done before installing the modem, while the second method is performed when the modem is installed.

1.3.5 Connecting to a sound card (via CD-ROM audio-in)

To control the volume of the modem use your sound cards software audio mixer or the Win95 volume control and use the CD selection. A drawback to using this method is that an audio CD will also be affected by the volume change intended for the modem.

1. Connect CON1 to the sound cards CD-Audio-in.
2. Connect the CD-ROM audio-out to CON2 with a 4 pin audio cable.

Note: Make sure that the left, right and ground channels from the CD-ROM connects to the proper pins on CON1 and CON2.

1.3.6 Connecting to a sound card (via Sound cards line-in)

To control the volume of the modem use your sound cards software audio mixer or the Win95/98 volume control and use the Line selection.

1. Connect an audio cable, with a 1/8 inch stereo plug at both ends, into the modems speaker jack.
2. Connect ther other end of the audio cable into the sound cards line-in jack.

1.3.7 Inserting the Fax/Modem

1. Turn off the power to the computer. Also, turn off any external devices that are attached, such as a printer and monitor.
2. Take out the mounting screws on the back of you computer. Refer to your computer manual if you cannot locate them.
3. Remove the computer cover. Refer to your computer manual if you cannot determine how to remove the cover.
4. Select an empty PCI slot. You may need to remove the metal slot cover first, using a small screwdriver.
5. Discharge any static electricity in your body by touching any bare metal surface on the chassis of the computer and remove the modem from the static-shielded bag.

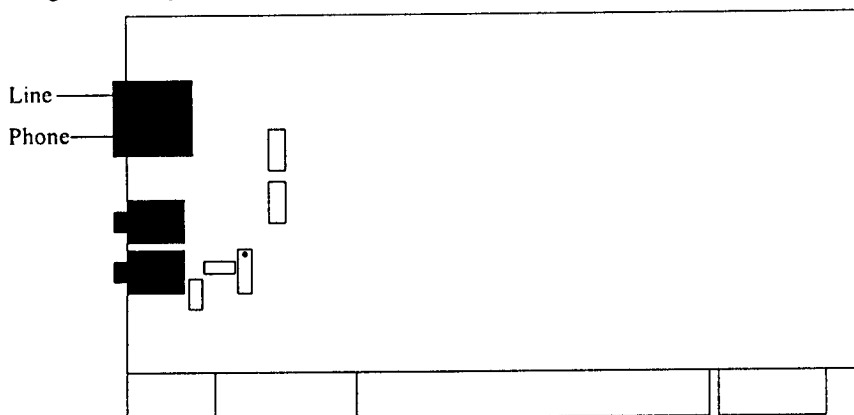
6. Press the board firmly into the slot ensuring that the gold tabs on the fax/modem are aligned with the connectors in the slot.
7. Insert the screw and tighten slightly. Check to ensure that the telephone jacks in the back of the modem are unobstructed. If so, then tighten the screw securely.
8. Replace the computer cover.

1.3.8 Installing Telephone Lines

The Fax/Modem has two modular telephone jacks on the back of the modem. You will need to connect your Fax/Modem to the wall outlet via a modular telephone cord.

If your wall outlet is not a modular type, you can purchase an inexpensive converter at most electronics or phone stores. It is suggested that you connect your modem to a "dedicated line". A dedicated line is a regular phone line that does not go through a switchboard, PBX, etc...

You can also connect a telephone set to your modem, enabling you to use the phone when the modem is not in use. The modem can also be used as an autodialer with your telephone set. It is recommended that you use a single line phone outlet (RJ11). However, you can use a two-line (RJ14) phone line, but the modem will only work on the first line using the center pair of wires.



To connect the telephone line to the modem follow these steps:

1. Insert one end of the phone line into the jack on the modem labeled **Line** or **Wall**.
2. Insert the other end of the phone line into the phone jack, (usually located on the wall).

If you wish to use a phone in conjunction with your modem, please follow these steps:

1. Insert the line from the phone into the modem jack labeled **Phone**.
2. Make sure that the other end of the phone line is connected to the telephone.