

56K MODEM RISER

User's Manual

Version 1.1

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Contents

| | Pref | ace | 4 |
|--------------|------|-----------------------------|----|
| Chapter 1 | Intr | oduction | 5 |
| Chapter 2 | Befo | ore You Begin | 6 |
| | 2.1 | Minimum System Requirements | 6 |
| | 2.2 | Safety Precaution | 6 |
| | 2.3 | Installation Notes | 0 |
| Chapter 3 | Sett | ing Up Your Modem Card | 8 |
| | 3.1 | Configuring the Modem Card | 8 |
| | 3.2 | Installing the Modem Card | 10 |
| | 3.3 | Connecting the Modem Card | 13 |
| Chapter 4 | Ins | talling the Modem Driver | 14 |
| | 4.1 | For Windows [®] 95 | 14 |
| | 4.2 | For Windows [®] 98 | 16 |
| Chapter 5 | Test | ing the Modem Card | 19 |
| | 5.1 | Windows [®] 95/98 | 19 |

| Appendix A | Frequently Asked Questions | 2 |
|---------------|----------------------------|----|
| Appendix B | Technical Specifications | 26 |
| Appendix C | Card Layout | 28 |

Preface

Product warranty does not apply to damage caused by lightning, power surges or wrong voltage usage.

This manual gives you a step-by-step guide of the following:

- 1. Configuring the modem card
- 2. Installing the modem card
- 2. Connecting the phone line for Internet
- 3. Installing the modem drivers required to run the modem
- 4. Testing the modem

The section - *Frequently Asked Questions (FAQ)* will explain some of the technical terms used in this manual, as well as the possible solutions for some of the commonly asked questions by users.

For further technical details on your card, you may refer to the **ReadMe.txt** file found in your **MR2800-W Installation CD**.



Introduction

Congratulations on your purchase of MR2800-W Modem!

With the 56K MR Modem alone, you can perform a comprehensive range of modemrelated functions including data communications, sending and receiving of faxes.

The intensive demands of today's Internet applications will no longer be a bottleneck. Using the 56K MR Modem, you can now download graphic intensive web pages, high bandwidth audio and video files as well as large file size software programs at speeds of up to 56Kbps.

Chapter



Before You Begin

This chapter contains information that you need to know before installing your modem card. They are the basic system requirements needed for your modem card to run, the safety rules to follow, as well as the installation guidelines.

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2.1 Minimum System Requirements

- IBM PC-based computer with Intel[®] CeleronTM 366MHz Socket 370 processor
- AMR Bus slot
- 32MB RAM
- 10MB hard disk space (system files and modem drivers only)
- CD-ROM drive
- Windows[®] 95/98 / NT[®]4.0

2.2 Safety Precaution

- Do not remove your card from its protective bag until you are ready to install it.
- Always try to hold your card by its edges. Avoid touching any electronic components on your card.
- Static electricity can cause permanent damage to your card. To prevent such a damage, you must ground yourself during the installation:

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- » Use a grounding strap a coiled wire with a clip at one end and an elastic strap at the other. Wear the strap around your wrist and attach the clip to any non-painted metal surface of your computer chassis.
- » If you do not have a grounding strap, touch any non-painted surface of your computer chassis before you begin installation, and again every minute or so until the installation is completed.

2.3 Installation Notes

- The graphics and screens illustrations shown in this easy start may differ from what you see in your system, but the steps still apply.
- A Philips screwdriver is required.
- The documentation for your computer should come in handy during the installation. Have it ready by your side.
- If you have an existing *non* Plug-and-Play modem installed in your computer, you must first un-install its modem driver before you remove the card. Refer to the documentation of your existing modem for details.

If your existing modem is Plug-and-Play, you may proceed to install your new modem.



Setting Up Your Modem Card

This chapter contains information on how to configure, install and connect your modem card.

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3.1 Configuring the Modem Card

Please carry out the following steps **<u>BEFORE</u>** installing your modem card.



**your system may show AC'97 Audio controller



Some systems may have additional onboard audio chips. 'AC'97 Audio' and 'Onboard Audio' are two different options in the BIOS Setup. When system is using Onboard Audio, AC'97 Audio is disabled.



3.2 Installing the Modem Card



You need to remove any existing modem installed in your computer. If your modem is non Plug-and-Play, you need to un-install its modem driver before you remove it. Check your existing modem documentation for details on this.

Power off your computer and any connected devices before installing your modem!







• Replace the cover of your computer.



3.3 Connecting the Modem Card



Connect one end of the **telephone extension cable** to the **modem card** and the other end to your **telephone wall socket**.

This completes the setting up of your modem. Please proceed to the next chapter to install your modem driver.

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Installing the Modem Driver

This chapter contains information on how to install the modem driver in Windows[®] 95 *and Windows*[®] 98.

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The graphics and screens illustrations shown in this easy start may differ from what you see in your system, but the steps still apply!

If problems are encountered with connection or performance of this modem, please ensure that the country setting is correct for your location. In some cases, the country is set to match the Operating System selected and may need to be re-selected to match your exact location. For instructions on how to change the setting, refer to Appendix A -Frequently Asked Questions "I am using my system with the modem card in another country. Is there any settings that need to be changed ?"".

4.1 For Windows[®] 95



Windows[®] 95 will now prompt you that the modem driver has been found.

| Update Device Driver W | /izard | | |
|------------------------|---|--|--|
| | Windows found the following updated device: MR2800 Data Fax Modem If you want to use this driver, click Fir correct driver and you want to search manually, click Other Locations. Location of Driver | d driver for this nish. If this is not the for a different driver Click Finis the installa | sh to continue with ation. |
| | Other Locations | Cancel | |
| Insert Disk | the disk labeled 'MR2800 Installa | ion Disk', and then cl | ick OK. |
| | ССК | When t appears | he Insert Disk window s, click OK . |

From the **Copying Files...** dialog box, type "**D**:\" in the text box and click **OK**.

(Assuming you have placed the Installation CD in your CD-ROM Drive D. Else substitute the drive letter accordingly.)

Follow the on-line instructions to complete the driver installation.

This completes the installation of the modem driver in Windows[®] 95. Proceed to the next chapter to test your modem.

4.2 For Windows® 98

Power on your computer to start Windows[®] 98. Windows[®] 98 will detect the newly-installed modem and an Add New Hardware Wizard window will appear.

| Add New Hardware Wiz | ard | | |
|----------------------|---|-------------------------|--------------------------------------|
| | This wizard searches for new driver: | s for: | |
| | MR2800 Data Fax Modem | | |
| | A device driver is a software program that makes a hardware device work. | | 1 |
| | | Place your the CD-RO | Installation CD into M drive. |
| | | Click Next | |
| | < <u>B</u> ack Next> | Cancel | |
| | | | |

The next window prompt will ask for your modem driver.



At the next prompt, select the source of your driver.

| Add New Hardware Wi | zard | | |
|---------------------|---|--|-----------------------------|
| | Windows will search for new dri on your hard drive, and in any o locations. Click Next to start the Eloppy disk drives CD-ROM drive | vers in its driver database f the following selected search. | S |
| N | Specify a location: | Click the opti | on ' CD-ROM drive '. |
| ~ | | Click Next. | |
| | | , | |
| | < <u>B</u> ack Ne | ext > Cancel | |
| Add New Hardware W | izard | | 1 |
| | Windows driver file search for t | he device: | |
| | MR2800 Data Fax Modem | | |
| | Windows is now ready to instal device. Click Back to select a to continue. | I the best driver for this different driver, or click Next | |
| <u> </u> | Location of driver: | Cliple Next to | |
| | 257 D:\MR2800.INF | installation. | proceed with the |
| | | | |
| | < <u>B</u> ack | ext > Cancel | |

Upon completion, the following window will be displayed.



This completes the installation of the modem driver in Windows[®] 98. Proceed to the next chapter to test your modem.



Testing the Modem Card

This chapter contains information on how to test your modem card in Windows® 95/98.



The screens illustrated may differ from what you see on your system, but the steps still apply.

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5.1 Windows® 95/98





You will see the MR2800 modem listed.

The **More Info...** window will appear, showing a list of AT commands. This indicates a successfully installed modem. Click **OK**.

| More Info | |
|--|--|
| More Info Port Information Port: COM2 Interrupt: 10 Address: 1000 UART: INS 8250 Highest Speed : 115K Baud MR2800 Data Fax Modem Identifier: Identifier: No hardware ID for this modem Identifier: No hardware ID for this modem Command Response AT11 MR2800 Data Fax Modem Identifier: No hardware ID for this modem AT11 MR2800 Data Fax Modem AT11 Ver2.43.01 AT12 SMARTLINK AT12 Ver2.43.01 AT12 Ver2.43.01 AT13 AZT AT13 AZT AT13 AZT AT13 SIL-22(Pri) on ICH AT14 ACC AT15 D CC | You will see either of the following dialog boxes displayed. Both indicate successfully installed OR modem. |

If your modem is not installed properly, the set of AT commands will not be listed. You may also be prompted by an error message, stating that it was unable to open the COM Port. If this happens, refer to the *Appendix A* - *Frequently Asked Questions* "While testing the modem, the system gave an error message stating that it was unable to open the COM Port."



Frequently Asked Questions

You may encounter some problems or doubts while installing or using your modem. This chapter highlights some of the more common issues concerning your modem and their possible solutions.



What is V.90?

V.90 is a new standard approved by the International Telecommunication Union for "56K" analog modems. It is a compromise officially reached between the two competing standards - X2 (from 3COM/USR) and K56Flex (from Rockwell/Lucent).



How do I identify the Modem Riser card and its driver?



The Modem Riser card has its model name printed on the serial number label located at the rear of the card.

Alternatively, you can issue an AT13 command using any Telephony Data Terminal application to get the driver version.



This modem is set to V.90. But why am I getting slow connections to my ISP ?



Majority of the telephone lines and ISP are already supporting V.90 connections. However, like all data connection, the connection is sensitive to the amount of noise present in the phone line. Hence, only very "clean" phone line can get high connection rate or throughput. You may want to check with your telephone provider.





How do I see the resources listings ?



1. From the Windows taskbar, click *Start > Settings > Control Panel*.



icon. Iodems

3. Click the *Diagnostics* tab. Select your product model and click *More Info...* option.

The IRQ (Interrupt) and memory range (Address) used by the modem will be listed.



The modem hangs up when an incoming call is received.

Disable the Call Waiting function for the Online Service, Internet Connection and/or communications software you are using.



When I tried to dial out, the system gave me an error message "No Dial Tone".



Check the Telephone Cable (PHONE) connection. If necessary, plug out the Telephone Cable and reconnect the cable.



There are incomprehensible characters appearing on the screen.

The data, parity and stop bit settings are incorrect. Try using the default values or check with your ISP.



Why does my modem always connect at 33.6Kbps and not 56Kbps or V90 ?



Check with your Internet Service Provider (ISP) to ensure that they support 56Kbps or V.90 connections. For modem with Country Selection feature, please ensure that the modem is set to your local country. To set the country select feature, see the following question.





I am using my system with the modem card in another country. Is there any settings that need to be changed?



Yes. You need to ensure that the country setting for your modem card is correct for your location. Carry out the following steps:

- 1. Double-click *icon* found at the corner of your taskbar.
- 2. From the window prompted, click the *Settings* tab.
- 3. Select your *current local country* and the appropriate *language* desired.
- 4. Click **OK**.



While testing the modem, the system gave an error message saying that it was unable to open the COM Port.



Make sure that you have closed all communication software (e.g. Hyperterminal, Dial-up Networking, etc.) when you are doing the diagnostics test.

However, if there is no communications software running, do the following:

- 1. From the Windows taskbar, click *Start* >*Settings* > *Control Panel*.
- 2. Double-click System icon.
- 3. Click the **Device Manager** tab.
- 4. Check whether there is any yellow exclamation mark on the modem device. *If yes, remove the modem device and re-install the modem drivers.*



How do I un-install the MR2800 driver installed in the system?



- 1. From the Windows taskbar, click *Start > Settings > Control Panel*.
- 2. Double-click Add/Remove icon. Programs
- 3. Select "Uninstall" and click Add/Remove.



Follow the on-line instruction to complete the removal of the driver.



My system does not detect the modem when I boot up for the first time.



Check that:

- 1. Your modem is fully inserted into the AMR Bus slot.
- 2. You have configured your card to either **Primary** or **Secondary** device <u>before</u> you install your card.
- 3. The jumper settings are correctly configured for the respective device.

(For details on the configuration, please refer to the section on "*Setting Up Your Modem Card*".)



I cannot find AC'97 Audio (or AC'97 Audio Controller) in my system BIOS.



If the feature is not found in your system BIOS, please check with your motherboard supplier for an updated system BIOS.



Technical Specifications

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This chapter contains the technical specifications of your card. The information may be more useful for technically inclined users.

Modem Standards

- V.90, K56Flex 56Kbps
- V.34 (33.6Kbps), V.32bis, V.32, V.23, V.22bis, V.22, V.21
- Bell 212A, Bell 103

Modem Data Rates

- 56Kbps (download speed from Internet Service Provider)
- 33.6Kbps 300bps

Data Throughput

• Up to 115.2Kbps (with compression)

Error Correction

• V.42 LAP-M and MNP2-4

Data Compression

• V.42bis and MNP5

Fax Modulations

• V.17, V.29, V.27ter, Fax Class 1, V21 channel 2 group 3 fax mode



- AMR 1.01 Compliant
- Auto dialing and auto answer
- Line quality monitoring and re-train
- Tone or pulse dialing
- Silicon DAA line interface
- Digital Line guard (optional)
- Handset exclusion (optional)
- External connectors
 - 1 x RJ11 Telephone socket for telephone line



The product specifications herein are subject to change without prior notifications.

