

GM56E-V
56K Plug & Play
External Fax/Data Modem

User's Guide

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FCC Notices

FCC Compliance

This equipment complies with Part 68 of the FCC Rules. On this equipment is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment. You must upon request, provide this information to your telephone company.

If your telephone equipment causes harm to the telephone network, the Telephone Company may discontinue your service temporarily. If possible, they will notify you in advance. But, if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations, or procedures that could affect proper operation of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

The FCC prohibits this equipment to be connected to party lines or coin-telephone service.

In the event that this equipment should fail to operate properly, disconnect the equipment from the phone line to determine if it is causing the problem. If the problem is with the equipment, discontinue use and contact your dealer or vendor.

The FCC also requires the transmitter of a FAX transmission be properly identified (FCC Rules Part 68, Sec. 68.381 (c) (3))

FCC Class B Statement

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 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 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 a dealer or an experienced radio / TV technician for help

Notice:1) Shielded cables must be used in order to comply with the emission limits. 2) Any change or modification not expressly approved by the manufacturer of this equipment could void the user form operating this equipment.

CTR-21 Notices

Notice

The equipment has been approved in accordance with Council Decision 98/482/EC for pan-European single terminal connection to the Public Switched Telephone Network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful operation on every PSTN network termination point.

In the event of problems, you should contact your equipment supplier in the first instance.

Network Compatibility Declaration

● Declaration to the Notified Body and the vender :

The equipment is designed to be switched to the Public Switched Telephone Network (PSTN) in the following 18 countries:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and UK.

● Declaration to the user :

The equipment is designed to be switched to any PSTN of the above 18 countries and is dependent on physical and software switch settings.

This product have past the testing, although, we don' t commit it can be suitable for each country. The user should contact the equipment supplier if it is desired to use the equipment on another network.

Table of Contents

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CTR-21 Notices

Table of Contents

Chapter 1	Introduction	1
Chapter 2	Hardware Installation	1
Chapter 3	Indicator Lights	2
Chapter 4	Hardware Configuration	2
	4-1 Configuring in Windows 9x	2
	4-2 Configuring in Windows 3.x	3
	4-3 Diagnostic Sequence in Windows 9x	3
	4-4 Software Installation and Configuration	5
	4-5 Testing The 56K Modem	5
Appendix A	Technical Specification	6

Chapter 1 Introduction

Thanks for your purchase of the new 56K external modem. This new 56K modem is a high speed PC communication device that combines data and fax functions into one. The 56K modem is Plug and Play (PnP) compatible for easy installation and the V.90 technology provided increase download speeds even when using regular telephone lines.

This manual shows you how to install the modem. For the additional information on AT commands and S-registers, you can review it form the driver CD diskette and customize your system to a particular operating environment.

Note: V.90 is capable of downloading at 56K bps. However, current FCC regulations limit its speed to 53K bps.

Chapter 2 Hardware Installation

The following steps provide instructions for installing your external modem. You will also need a “RS-232 cable” to make the connection to your computer. (Note: Exercise caution when working with any AC powered device. Always turn the power off when connecting to or disconnecting cables from the device.)

1. Turn off your computer.
2. Plug the male (9 pins) end of the “RS-232 cable” into the back of the modem (see Figure 1).

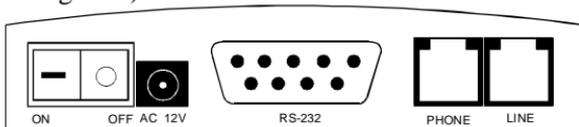


Figure 1 Back of the Modem

3. Plug the other end of the cable into one available serial port on your computer.(see Figure 2)
4. Connect the telephone cable to the modem's “LINE” connector and the telephone jack.
5. You can also connect your telephone to the modem's “PHONE” connector for keeping your telephone function.
6. Turn the modem’s power switch off. Plug the AC adapter’s power cord into the connector marked “AC 12V” on the back of the modem.

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7. Plug the transformer end of the power adapter into an AC wall outlet.
 8. Turn the modem on. The modem should perform a self-test and then be ready for use.
 9. Turn your computer on. Your modem is now ready to work after you install the software.

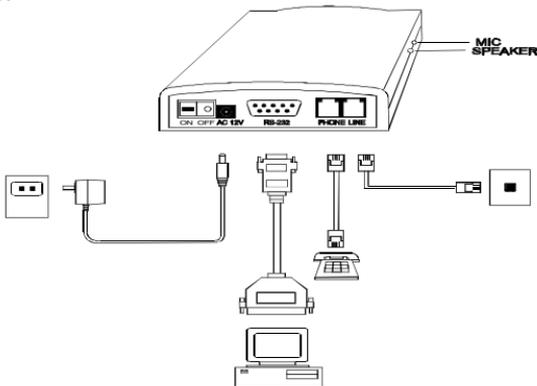


Figure 2 External Modem

Chapter 3 Indicator Lights

The external modem provides LED indicators on the front panel that reports modem status:

MR Modem Ready. The modem is turned on.

OH Off Hook. The modem has gone off hook in preparation to dialing or answering a call.

CD Carrier Detect. The modem has detected a remote carrier.

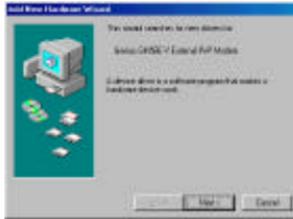
SD Send Data. The modem is transmitting data to remote modem.

RD Receive Data. The modem is receiving data from remote modem.

Chapter 4 Hardware Configuration

4-1 Configuring in Windows 9x

1. When Windows 9x starts for the first time after installation, it detects the modem and displays the **New Hardware Found** dialog box.



2. Under **New Hardware Found**, when asked to “**Select which driver you want to install for your new hardware**”, click on “**CD-ROM driver**”. Click on “**OK**”.
3. The **Install From Disk** dialog box now asks you to “**Insert manufacturer's installation disk into the drive selected**”, then click on “**OK**”.
4. Insert the modem's driver CD disc into the CD-ROM drive and type **C:\(or D:\ if inserted in drive D)** in the “**copy manufacturer's files from:**” box. Click on “**OK**”.
5. Windows 9x may request its own installation disks for some files. If this happens, then insert the Windows 9x disks as required.
6. When all necessary files are copied, the modem is configured. Windows 9x will assign the modem a COM port.
7. Now go to the Software Installation and Configuration section.

4-2 Configuting in Windows 3.x

1. For Microsoft Windows 3.x users, at **PROGRAM MANAGER/MAIN/CONTROL PANEL**, click on **PORTS**.
2. Then follow Windows 3.X user's manual instructions on configuring the installed modem COM port.

Note: Windows 95 automatically configures the modem using PnP and MS-DOS does not require any additional modem configuration.

4-3 Diagnostic Sequence in Windows 9x

1. Double click on the **Modem** icon in the **Control Panel**.

4-4 Software Installation and Configuration

Follow the communication software manual for installation procedures. You may be asked by the software to configure certain communication parameters.

We suggest the following settings:

Baud rate: 115,200 bps Data bits: 8 Parity: None Stop bit: 1

Flow Control: RTS/CTS Initialization String: AT&F

4-5 Testing The 56K Modem

To check if the modem is working properly after installation, run a communication program (ie. Hyperterminal) and set the software for the correct modem COM port. At the software's terminal mode prompt, type **AT**, then press **ENTER**. The modem should respond with an OK. This indicates the modem is working properly. If it does not, either the modem has not been installed properly or the software has not been properly configured. Return to the PnP Hardware Configuration and be sure the modem and the software have been properly installed. If required, refer to the Troubleshooting section for more information.

Appendix A – Technical Specificaiton

Communication Std. V.90, V.34bis , V.34, V.32bis, V.32, V.22bis,
V.23, V.22, V.21, Bell212/103

Data Compression: V.42bis /MNP5

Error Correction: V.42/MNP2-4

Fax Protocol: V.29, V.27ter, V.17, V.21 channel 2

COM ports: 1, 2

IRQ lines: 3, 4

Fax Group: Group III Send/Receive Standard

Data format: 300-115200 bps

Hardware Certifications:

FCC Part 15

FCC Part 68

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