

Motorola  
SM56 Software Modems  
**Quick Start User's Guide**

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## 1 Introduction

Motorola's SM56 modems are available for use on PCI, and AC-Link (including CNR and MDC) PC's. The SM56 modem is a feature-rich, V.90/V.92 modem at an attractive price. It supports all fax and data fall back modes, and different driver installs include telephone answering machine (TAM) operation and full speakerphone functionality. This document details installation, troubleshooting, and usage of the SM56 software modem.

The SM56 modems provide high-speed communications between your personal computer and a remote location, such as an Internet Service Provider (ISP), so you can:

- Receive data at up to 56 Kbps in V.90/V.92 or K56Flex modes, for faster Internet access.
- Use your computer to send and receive **faxes**, at up to 14.4 Kbps
- Use your computer as a **Video Phone** to place and receive Video Phone calls.
- Use your computer as a telephone **answering machine** (Not available on Data/Fax modems).
- Use your computer as a speakerphone, to place and receive **voice calls** (Data/Fax/Speakerphone modems only).

The SM56 modems supports the following Operating Systems based on the form factor

<b>Product Type</b>	<b>Operating Systems</b>
PCI	Windows 98, Windows Millennium, Windows 2000 and Windows XP
CNR and MDC (AC-Link)	Windows Millennium, Windows 2000 and Windows XP

**Note:** The modem cannot be used in pure DOS or on any other operating system. Note that Windows 98, Windows Millennium, Windows 2000/XP require different modem drivers. The driver for one OS will not work on the other OS. Make sure you have the correct drivers before installing

Computer OEMs that bundle the SM56 modem can benefit from sizable cost reductions, hardware reduction, and lower power consumption. End users benefit from quick, easy and affordable software upgrades, which help them keep current with the latest communications technology.

**Important:** There are different SM56 modem categories, and each supports a different basic feature-set, as follows:

<b>Product Names</b>	<b>Modem Types</b>	<b>Features</b>
Motorola SM56 modem	Data/Fax only	<ul style="list-style-type: none"> <li>• All data and fax modes</li> <li>• No telephone answering machine (TAM)</li> <li>• No caller ID</li> <li>• No distinctive ring</li> <li>• No speakerphone</li> </ul>
Motorola SM56 Voice Modem	Data/Fax/TAM	<ul style="list-style-type: none"> <li>• All data and fax modes</li> <li>• Telephone answering machine (TAM)</li> <li>• Caller ID</li> <li>• Distinctive ring</li> <li>• No speakerphone</li> </ul>
Motorola SM56	Data/Fax/TAM/Speakerphone	<ul style="list-style-type: none"> <li>• All data and fax modes</li> </ul>

Speakerphone Modem		<ul style="list-style-type: none"> <li>• Telephone answering machine (TAM)</li> <li>• Caller ID</li> <li>• Distinctive ring</li> <li>• Full-duplex speakerphone</li> </ul>
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You can check which modem you have by selecting **Start->Settings->Control Panel**, and then double click on the **Modems** icon. The modem name will appear in the Modem Properties window.

## 2 Preparing the Computer For Installation

To ensure problem-free installation ensure that an unused COM port is available. The SM56 install program interrogates lower COM ports (below COM 5) and installs the modem on the first available and unused port. Although the SM56 functions perfectly on any available COM port, some communications applications may not be able to use the modem if it gets installed above COM 4. Refer to the Troubleshooting section in this document for information on how to force the modem onto a COM port below COM 5 after install is complete.

## 3 Installing The Modem Hardware

1. Power down the computer.
2. Locate the connector (AC-Link, CNR, PCI, Mini PCI, etc.) on the motherboard, and carefully insert the SM56 modem board.
3. Connect the **Wall** jack on the modem board to an analog phone jack using an RJ-11 phone cable. If your modem board also has a telephone handset jack, make sure to not plug the telephone line into that jack. The jacks will be labeled with a little icon and/or text indicating which is which.
4. Power ON the computer.

**Important:** When using the SM56 modem, or any modem for that matter, you should always connect the modem line input to a direct analog telephone line. This will maximize modem performance by avoiding any problems introduced by internal PBX systems, etc.

## 4 Installing the Modem on Windows 98, Millennium, Windows 2000 and Windows XP

(**Note:** The Install Wizard may vary slightly with different versions of the OS and different service packs)

On starting Windows for the first time after installing the modem Plug and Play (PnP) detects the new hardware and begins an install wizard for the modem. The modem is detected as a new **PCI**

**Device** or new **PCI Communications Device**. The wizard first looks for the modem information (INF) file, which is included on Motorola's distribution disk or CD-ROM. This file contains information about the modem, including device type, device driver information, as well as the AT command/response sets that it supports.

Browse to the SM56 modem files on the Motorola disk/CD-ROM. Windows will find the information on the disk. On older versions of Windows 98 you may get an error message **Cannot Locate File.....** If you do, simply re-point the install wizard to the Motorola disk/CD-ROM and it will find the file the second time around.

Windows copies the necessary modem files to the computer and transparently runs the necessary installation routines.

For D/F/TAM and D/F/TAM/Speakerphone modems, Windows finds a second device after the modem has been installed. Windows notifies you that it has found a **Serial Wave Device** for the modem and prompts for a Wave Device driver. Re-point to the Motorola disk/CD-ROM and click **OK**. It finds the INF file and installs the appropriate drivers.

**Note:**

The SM56 also installs a modem Helper utility on the Windows System Tray (right side of the Task Bar). This application includes real time modem status (dialing, negotiating, connect rate, etc.), in addition to user selection for COM port, country and language. There is also an audio test included, which allows you to verify if your sound subsystem supports Direct X 3.0 (or later) -- needed to hear call progress (dialing and negotiation). The SM56 installation auto-detects the country from the OS and defaults to that.

## 5 Verifying Correct Installation

### Verifying Modem Software Operation on Windows 98 and Windows 2000

1. Open the Windows Control Panel and double click the **Modems** icon.
2. Select the *Diagnostics* tab, and single click the COM port that the Motorola SM56 modem uses.
3. Click on the **More Info** button.

Within a few seconds a window will appear with the modem responses to various AT commands issued to it. If this happens, the modem software is properly installed and functioning correctly.

### Verifying Modem Software Operation on Windows XP

1. Open the Windows Control Panel and double click the **Phone and Modems Options** icon.
2. Select the *Modems* tab, and single click the COM port that the Motorola SM56 modem uses
3. Click on the **Properties** button.
4. Select the *Diagnostics* tab.
5. Click the **Query Modem** button

Within a few seconds a window will appear with the modem responses to various ATI commands issued to it. If this happens, the modem software is properly installed and functioning correctly.

### **Verifying Proper Hardware Operation**

To verify correct SM56 modem hardware operation, you can use the following local analog loopback (LAL) test procedure, as follows:

1. **Important:** Remove the telephone line cable from the modem card.
2. Open HyperTerminal (or any terminal application).
3. Optionally, select a connection name and icon.
4. In the **Connect Using** window, select the **Motorola SM56 .....** modem. Click **OK**.
5. Enter a number in the **Phone Number** box...any number since we will not be dialing it. Click **OK**.
6. On the next screen select **Cancel**
7. Enter **AT** and hit <Enter>
  1. The response **OK** should appear.
8. Enter **ATS46 = 23** and hit <Enter>.
9. Enter **AT&T1** and hit <Enter>. Wait a few seconds.
10. Type some letters at the keyboard. If the hardware is functioning correctly, the letters you type appear on the screen.
11. To exit this test mode, type +++ in quick succession (note no carriage return) to escape to command mode. After getting the **OK** response type **ATH** <Enter> to hang up.

## **6 Troubleshooting**

If there is a problem when using the SM56 modem, and your communications application does not explain the problem, check the following list of symptoms and tips.

- **My Communications Software Cannot Use the Modem at COM 5**

Some communications applications, such as older versions of AOL, do not communicate with a COM port higher than COM4. Sometimes on Windows 98 platforms the SM56 install program will not be able to map the modem to a COM port number below COM5. If the modem installs on COM 5 or higher you can manually force the modem onto a different COM port using the SM56 Helper application (COM Ports tab) in the Windows System tray (just to the right of the Task Bar).

- **There is no dial tone**

1. Ensure that the telephone cable is securely connected at both ends.
2. Ensure the telephone cable is plugged into the correct jack on the modem -- some modems provide a second jack for handset support.
2. Unplug the telephone line cable from the computer, and connect it directly to a telephone from the wall outlet. Check for a dial tone. If there is none, the problem is in the telephone line or system. Call the service provider.

- **Get An Error Message "You are not connected to a standard phone line"**

When you try to dial a connection an error message box pops up, indicating that your are not connected to a proper analog phone line. This is the SM56 digital line guard (only available on PCI II and AC-L modems) feature, which protects against hardware damage if the modem is plugged into a high current phone outlet -- such as a digital phone jack. The modem automatically detects the over-current and goes back on-hook before hardware damage occurs. Check the phone outlet and make sure that it is a real analog phone line. Try another analog phone jack.

- **I Cannot Hear Call Progress**

1. Make sure your speakers are connected to the speaker output jack on your sound system.
2. Call progress reporting on the SM56 requires Direct X 5.0 (for Win 98, Windows Me, and Win 2000) or later be installed on your PC, and that your sound system/drivers support Direct X playback. To test, go into the SM56 AC-L Modem helper Desktop Tray application and select the **Call Progress** tab. Then click the **Test** button. If you do not hear anything then your sound system does not support Direct X (or the correct version). Contact your sound card vendor for driver updates or more information.

- **The modem cannot complete a connection to another modem**

1. Ensure that your modem is dialing the correct number. Ensure that you've specified the correct area code, if one is required.
2. Determine whether the remote modem is correctly configured to communicate with yours.

- **The modem does not answer incoming calls**

1. Ensure that the automatic answer parameter is set to one of the enabled options, using the ATSO command (ATSO=1 to answer after one ring, ATSO=2 to answer after two rings, and so on).
2. Ensure that no other devices, such as fax or answering machines, are answering calls before the modem does.

- **The modem disconnects during a connection**

1. Ensure that the telephone cable is securely connected at both ends.
2. Ensure that call-waiting is disabled. In most areas, the command \*70 or #70 disables call-waiting. Check with your telephone company for the correct key sequence. (With call-waiting, the incoming call's click sound may be disrupting your call.)
3. Another phone extension in the house might have been picked up.

- **Data is not transmitted or received for unusually long periods of time**

1. Re-dial the call. (The telephone line connection may be poor.)

2. Try another ISP number, the server could be busy.

- **Streaming applications like RealPlayer stop receiving data and report "Net Congestion"**

1. This usually occurs when the ISP, Internet, or streaming host side server is busy and there are many users competing for bandwidth. It is not a modem problem.

- **Poor speakerphone quality using Direct X**

If you are using the soft-speakerphone version of the SM56 (that uses Windows Direct X and the PC sound system instead of dedicated voice hardware on the modem board, i.e. no speaker and microphone jacks on the modem board), and the quality is poor refer to section 10, "Improving Direct X Speakerphone Performance and Quality" for some hints and tips.

- **You cannot enter tone selections successfully when calling tone-driven applications**

When dialing a remote system that requires you to enter selections using the telephone keys, such as a voice-mail depot or bank-account information provider, you can lengthen the duration of the tones your modem sends, so that the remote system can detect them better. To adjust DTMF tone length, use the AT+VTD $n$  command, where  $n$  specifies the tone duration. Check the SM56 online Help (via the SM56 Helper application on the Windows Desktop Tray) for a list of supported AT Commands.

- **The modem does not respond to AT commands**

1. Ensure that your communications software is configured to use the same COM port as the modem's COM port.
2. Reset modem parameters to default options by entering AT&F; then re-enter custom options.

- **The modem responds to commands, but they do not appear on the screen**

1. Usually this is because the local echo is turn OFF. Turn it on by issuing ATE1 and hit <Enter>.

- **You've installed a new peripheral device; now the modem does not work**

1. In the Windows desktop tray, select **Start**.
2. Select **Help**. The **Windows Help Topics** window appears.
3. Select the **Contents** tab.
4. Select **If You Have a Hardware Conflict**.
5. A series of troubleshooting actions appears. Follow the appropriate sequence.

- **The modem connects; then meaningless characters appear**

This is usually caused by Error correction turned off. To correct:

1. Open the **Control Panel**. Double click the **Modems** icon.
2. Click on the COM port that the **Motorola SM56...Modem** is installed on
3. Click on **Properties**.
4. Select **Connection**.
5. Click on **Advanced**.
6. Check the **Use Error Control-Required to Connect** box.

- **The modem cannot connect; the Error Control option is selected**

The modem may be connecting at a rate higher than appropriate for the line conditions.

1. Use the AT%B command to limit the maximum connection rate. (For a list of AT commands, refer to the on-line *User's Guide*.)
2. Lower the rate, using AT commands, until the problem is corrected. You can add AT commands to do this; refer to the next section.

- **How Do I Add AT Commands Before the Modem Dials My ISP?**

1. Open the Control Panel.
2. Double-click the **Modems** icon.
3. Click on once to select the **Motorola SM56...Modem**
4. Click on **Properties**.
5. Select **Connection**.
6. Click on **Advanced**.
7. In the **Extra Settings** box, chain AT commands as needed. You do not need to enter the AT prefix, but it will not hurt if you do.

## **7 Un-installing and Upgrading**

### **Modem Un-Install Procedure on Windows 98 and Millennium**

1. Open the Windows Control Panel
2. Double click the Add/Remove Programs icon.
3. Select **Motorola SM56 Modem Un-install** and click Add/Remove.
4. Shut down the computer and remove the modem board from the computer.

### **Modem Un-Install Procedure on Windows 2000 and Windows XP**

1. Open the Windows Control Panel
2. Double click the System Icon.



3. Select the hardware tab and Select the Device Manager button.
4. Double Click the Modems item.
5. Right Click on the **Motorola SM56 Modem** device and select uninstall from the popup menu.
6. Shut down the computer and remove the modem board from the computer.

### Modem Upgrade Procedure on Windows 98 and Millennium

1. Obtain the latest driver set from your direct modem supplier.
2. Run the upgrade utility -- *sm56set.exe*, and follow the prompts

### Modem Upgrade Procedure on Windows 2000 and Windows XP

1. Obtain the latest driver set from your direct modem supplier.
2. Open the Windows Control Panel
3. Double click the System Icon.
4. Select the Hardware tab and Select the Device Manager button.
5. Double Click the Modems item.
6. Right Click on the **Motorola SM56 Modem** device and select Properties from the popup menu.
7. Select the Driver tab and press Update Driver button.
8. Follow the prompts and point to the location where you have stored the latest driver.
9. Select Yes when asked to reboot the system.

### Modem Rollback Procedure (Windows XP only)

1. Open the Windows Control Panel
2. Double click the System Icon.
3. Select the Hardware tab and Select the Device Manager button.
4. Double Click the Modems item.
5. Right Click on the **Motorola SM56 Speakerphone Modem** device and select Properties from the popup menu.
6. Select the Driver tab and press Roll Back Driver button.
7. Select Yes when asked to reboot the system.

## 8 Changing the Operating System

The Motorola SM56 modem supports the following Operating Systems. For some operating systems the drivers are the same whereas for others the drivers are different as explained in the following table.

Operating Systems	Driver Compatibility
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Windows 98	Different
Windows Millennium	Different
Windows 2000 and XP	Same

If you upgrade from an OS to another, which uses the same driver, the SM56 will continue to function as before. No new drivers are required.

However if you upgrade to an OS with a different set of drivers, you must get a new set of drivers for that operating system. Contact your SM56 modem supplier for driver status and updates. Therefore, if you change from Windows 95/98 to Windows 2000 you must get a new set of drivers for that operating system.

## 9 Improving Direct X Speakerphone Performance and Quality

**Important:** This section applies only to Data/Fax/Speakerphone driver builds using soft-speakerphone implementations. These drivers use Windows Direct X and the PC sound system instead of dedicated voice hardware on the modem board (i.e. instead of voice codec and speaker and microphone jacks on the modem board).

The following sound system tuning can be done via the Windows Master Volume control -- double click the speaker icon in the Windows system tray. Please be aware that different sound systems have different configuration options, so not all volume and recording windows look the same or provide you with the same options. Or indeed some of the window and control names can be different.

### **Master Volume Control** (Playback/Speaker)

All balances should be muted except for the "Wave Balance" and the "Volume Control Balance".

### **Recording Control** (Recording/Microphone)

The only balance selected should be the "Mic Balance". All the other should not be selected or muted depending on the selections given (somewhat sound system dependent). To be sure, it is also recommended to keep the levels of the unselected balances in the recording control window to minimum setting. Also in case the Microphone gain is too low (rarely) then you can always boost it up by a multiple of 10dB by going to "Options" and to "Advanced Controls" and clicking on the "Advanced" icon. In the "Advanced Controls for Mic" window check the boost box and close the window to boost the mic level.

Conversely, if the gain of the mic is too high and you talk too close to the mic, then the voice will be saturated and noisy. If this is the case deselect the "Mic Boost" check box.

## 10 Contact Information

If you have a problem with the SM56 modem, ensure that the problem and its solution are not shown in the Troubleshooting section. If you cannot resolve it through this list first contact your direct SM56 modem or PC supplier.

Modem related information should include as much detail as possible to allow support teams to qualify and reproduce (if necessary) the problems, including:

Information about your modem:

- SM56 modem driver version number (find this by recording the modem's response to the **ATI3** command)

Information about your setup:

- The telephone number you are calling from.
- The telephone number you are calling to.
- If performing a lab test, a detailed description of the equipment used.
- The remote modem information.
- Direct external analog telephone line or through a PBX -- use direct analog lines where possible.

Information about the problem:

- The actions and steps that you performed.
- A description of what you saw; be specific.
- A description of what you expected to see.
- If possible, a description of what you saw using other modems under the same conditions.

## Appendix A: SM56 Main Features

- Drivers available for Windows 98, Windows Millennium, Windows 2000 and Windows XP
- Full Windows Plug and Play support.
- Powerful modem installation, un-installation, and upgrade engines.
- Data and fax mode operation.
- The V.90/V.92 56K standard and K56flex, for maximum ISP interoperability.
- The V.80 interface to H.234-compliant Video Phone applications.
- The V.34, V.32bis, V.32, V.23, V.22bis, V.22, V.21, Bell 212A, and Bell 103 modulation standards
- Fax Class 1 error-correction mode.
- V.17, V.21, V.29, V.27ter Group III Fax modes
- V.42, LAP-M, and MNP 2-4 error-correction protocols
- V.42bis and MNP 5 data-compression protocols
- DTE rates from 300 bps to 115.2 Kbps
- Supports distinctive ring on all models except Data/Fax only modems
- Supports US Caller ID on all models except Data/Fax only modems.
- Supports Telephone Answering Machine (TAM) on all models except Data/Fax only modems.

- Supports speakerphone on speakerphone driver versions
- Tone and pulse dialing.
- Call progress audio channeling through the PC sound system (using Direct X).
- Adaptive rate re-negotiation (up and down) during a connection to compensate for line dynamics.
- Includes Local Analog Loopback (LAL) test for quick hardware troubleshooting.
- Includes a very useful SM56 Modem helper application to allow country and language selections, report real time modem status in addition to a sound system test utility for Direct X.
- Online User's Guide in standard Windows CHM format and in multiple languages. Includes modem usage and troubleshooting details, as well as a complete listing of supported AT commands.

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Readme 10/25/2002

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