

"FaxMail for Windows" Version v4.16 is shareware.
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Adds a <Fax> button to all your Windows Programs

If you can print, you can fax

All the Fax Machines in the world are your printers with
FaxMail for Windows

Description:

FaxMail for Windows will add a <Fax> button to all your Windows Programs, giving you access to all the Fax /Modems and Fax/Machines in the world, making them become your printers. FaxMail attaching itself to and becomes a part of the actual Microsoft Windows environment, whereby it appends itself to all system menus thereby adding its features to all Windows Applications. FaxMail has hundreds of useful features such as Dynamic View/Edit Cover Page, FaxBook Import, Windows Dynamic All Class Fax/Modem Driver, and Technical Support. You can import up to 1000 name and phone numbers into each FaxBook (Phone Book) at a time from any xBase data base program, and you can have as many FaxBooks as you want. FaxMail gives you laser quality fax output, making it a great tool to send an occasional fax or large numbers of high quality faxes from the background while you work on other tasks. FaxMail bundles the most useful fax features, and it is fast! The simplicity of information transfer via FaxMail for Windows is unequalled. It is a faxmail management system, integrating Fax/Modem technologies into computer document generation. You can create very short and/or long fax. No TSR, DOS, or Real-Time-Divers required.

Features:

*select number rings until the Fax/Modem answers *number of re-dials
*length of time between re-dials *set modem volume *"Scale to
printer" or "Print actual FAX size" *view and move fax from Windows
File Manager *Immediate or scheduled fax sends *broadcast queue holds
32,000 fax *option to auto-print incoming faxes in the background
*send/receive fax in the background while you work in the foreground
*easy fax management *GOOD help system *very fast fax viewer *log
all sent and future fax events *quick notes with variable merge from
FaxBook fields *fax any document you can print (send amazingly clean
resumes) *event monitor *received fax notification *fax
rescheduling *up to 1000 entries per FaxBook *easily create custom
cover pages *background printing *supports "Silent-Answer" *FaxMail
Convert to Fax driver *supports many paper sizes, in PORTRAIT and
LANDSCAPE, including Letter 8.5x11, Legal 8.5x14, A4 210x297mm, A5
182x257mm, and is user definable down to a fraction of an inch
*Enhanced Windows Dynamic All Class Fax/Modem-Driver *FaxBook merge
into Cover Page *Automatically switches from Fax to Printer Mode
*Supports Microsoft Word for Windows, Windows Write, and all other
programs with the abilities to print *Full-support for COM1-COM4 on
IRQ00-IRQ15

Available:

*OCR (Optical Character Recognition), *Fax to PCX BreakUp and *Zoom/Edit Fax. The OCR will convert fax into text that can be read by all editors and Word Processors, yet retains the original fax, unchanged. BreakUp will break a multiple page DCX fax file into individual one page PCX files that can be easily imported into most Windows programs. Edit Outgoing and Incoming Fax. Before printing to a fax machine or upon receiving a fax, you may want to use Zoom/Edit to add graphics, text (any font, any size), or use your mouse to sign the fax.

Includes:

FaxModem Wizard COM-Port/Fax/Modem-tester. FaxModem Wizard not only tell you what kind of UART is present on each of your four COM-Ports but what IRQ it is using. Great tool for finding COM-IRQ conflicts.

Requirements:

Microsoft Windows v3.1, Windows for Workgroups v3.11, Windows NT, Windows 95, and a Modem. Almost all modems are CLASS 1, CLASS 2 or CLASS 2.0. FaxMail supports all three CLASSES.

Upgrade History:

Windows Dynamic Fax/Modem-Driver now supports almost all fax/modems including USRobotics. Convert to Fax now converts colored images to varying shades of gray patterns. Upgraded Events Log, Future Send Queue. Fax Viewer now supports SVGA. New updated help system. The Manual.txt is included. Convert to Fax driver, now, supports black, white, and all shades of gray. It supports many paper sizes, PORTRAIT and LANDSCAPE. You can create very short and/or long fax including Letter 8.5x11, Legal 8.5x14mm, A4 210x297mm, A5 182x257mm, and is user definable down to a fraction of an inch. View and move fax from Windows File Manager. Enhanced Windows Dynamic All Class Fax/Modem-Driver. View Cover Page. Edit Cover Page. Edit Cover Page Logo. Cover Page Help. Includes the "FaxModem Wizard" tools that not only tell you what kind of UART is present on each of your four COM-Ports but what IRQ it is using. Addition of the FaxMail for Windows Dynamic All Class Fax/Modem-Driver. No TSR, DOS, or Real-Time Drivers required. Automatically switches from Fax to Printer Mode. Major upgrade of the Fax/Modem-Drivers. Many improvements to the FaxBook (Phone-Books) program including Import. Improved operation with Microsoft Word for Windows and Windows Write. Full-support for COM1-COM4 on IRQ00-IRQ15.

NOTE: If you choose to use the "FaxMail for Windows Dynamic All Class Fax/Modem-Driver", a lot of this README will not pertain to you, and nothing will be put in your AUTOEXEC.BAT.

BEFORE ALL ELSE:

Because of size constraints we are forced to leave some of the glitter out of this shareware versions, but it is still VERY MUCH a FULL working fax program with feature not seen anywhere else. We left off things like decorative bitmaps, several of the sample cover page logo files, FaxBook imports and a few other things that will not impede your use of FaxMail. All of the above mentioned and more will be in your registered version.

We are working full time on improving and upgrading FaxMail for Windows based upon the feedback from you and other users. So...before you install, look at the date on the files inside of the ZIPed file. If the date is more than a week old, you may want to call and get the latest version.

You can get FaxMail for Windows from many BBSs and FTP Internet Sites around the world. FAX_V416.ZIP, where FAX_V416 means version v4.16.

- Location or Site -	Frequency of Updates
CTS BBS 713-499-5939 - - - - - - - - ->	Major and Minor versions
FREQ from Fidonet:FaxMail 1:106/10000->	Major and Minor versions
SimTel, OAK.Oakland.Edu - - - - - - - ->	Major versions
FTP.CICA.INDIANA.EDU - - - - - - - ->	Major versions
wuarhive.wustl.edu - - - - - - - ->	Major versions
America Online (AOL) - - - - - - - ->	Major versions
CompuServe - - - - - - - - - - ->	Major versions

For tech-support call: 713-261-0307

If you can not locate the latest version, contact:

ElectraSoft, 3207 Carmel Valley Drive, Missouri City, TX 77459-3068
Voice: 713-261-0307, BBS: 713-499-5939, FAX: 713-499-5939,11,11,11,11
Internet: Jon.Krahmer@f10000.n106.z1.fidonet.org
Internet: JonK@blkbox.com
FidoNet: Jon Krahmer on 1:106/10000

Computer Technical Support BBS, 713-499-5939, home of FaxMail for Windows

If you have a problem that is not covered here, contact ElectraSoft at 713-261-0307 because most likely there is either a solution to your problem, or a newer version of FaxMail for Windows does not have the problem.

LEGAL INFORMATION:

If you have a registered version of FaxMail for Windows you may *NOT* share the registered version with others.

FaxMail for Windows is shareware. This means you have a chance to test the performance FaxMail for Windows before committing yourself to buying it. You have a one month legal trial. After one month you must pay for FaxMail for Windows or discontinue its use.

Only the unregistered version of FaxMail for Windows may be distributed freely, and no fee may be charged for it except a nominal copying fee. All trademarks contained herein are registered to their respective owners.

IMPORTANT INFORMATION:

While converting printer output to a fax, FaxMail will need to create and use a temporary file called "TOFAX" and then delete it when finished. This file will be in the root of the drive FaxMail is installed on. Be sure this root-directory does not have the maximum number of files in it.

FaxMail will not be able to <CONVERT TO FAX> if any of the following are present on the drive that you installed FaxMail on:

- *If you have the maximum allowed files in that root directory.
- *If you have a directory called TOFAX on the drive.
- *If the drive is full.

NOTE: The reason for a small file name in the root directory is that not all programs with printing capabilities support paths.

If you are currently using another Modem-Program, remember that they can not run concurrently on the same COM-Port. Disabling a fax program may be as easy as not loading it or you may have to remove one or more lines from your AUTOEXEC.BAT, CONFIG.SYS, WIN.INI or SYSTEM.INI. Typing rem ahead of a line in your AUTOEXEC.BAT or CONFIG.SYS will disable it. Example:

```
change:
C:\OLD_FAX_DIR\OLFAXPRG.EXE
to:
rem C:\OLD_FAX_DIR\OLFAXPRG.EXE
```

To disable a line in an *.INI (WIN.INI and SYSTEM.INI) file, place a ; before the line to be commented-out. Example:

```
change:
C:\OLD_FAX_DIR\OLD_FAX_PRG.EXE
to:
;C:\OLD_FAX_DIR\OLD_FAX_PRG.EXE
```

If your old Fax-Program loads from the Windows-StartUp-Group as you enter Windows, you will have to move it's ICON out of your Windows-StartUp-Group by grabbing it and dropping it in another Group.

If you load the wrong Fax/Modem-Driver the worst that can be expected to happen is that the Fax/Modem-Driver might not load or the program might hang or fail to operate, and perhaps your modem might be left in Fax mode and require manual resetting (turn it off and back on). Since information about models that don't work with this program will aid in correcting unsuspected problems, we would appreciate any information you can give us about them. Write to the registration address, or send e-mail via Internet to:

Jon.Krahmer@f10000.n106.z1.fidonet.org

or FidoNet to:

Jon Krahmer on 1:106/10000

USING COMTEST.COM:

Definition:

FaxModem Wizard COM-Port/Fax/Modem-tester, COMTEST.COM. FaxModem Wizard not only tell you what kind of UART is present on each of your four COM-Ports but what IRQ it is using. It will generate a text file called COMTEST.COM that you can read later. This file can be e-mailed to ElectraSoft for analyses.

Usage:

Find COM-IRQ conflicts.

How to use COMTEST.COM.

Windows 3.XX

Exit (do not use the Windows "MS-DOS Command Prompt") Windows.

Windows 95

Windows 95 Method 1

Select <Start>, <Shut Down>, <(*)Restart the computer in MS-DOS mode?>.

Windows 95 Method 2

Turn on your computer and select <6. Command prompt only>.

Windows 95 Method 3

Put the following four lines in your Windows 95 AUTOEXEC.BAT.
CD\FAXMAIL
COMTEST.COM
EDIT COMTEST.TXT
CD\

Windows NT

1. Be sure that no software is using any of the four COM-Ports.
2. Select "MS-DOS Command Prompt".
3. Windows NT will warn you that the COM-IRQs can not be opened, and ask if you want to <Terminate> or <Ignore>. Respond with <Ignore> to all warning message.

See "RESOLVING CONFLICTS" and "FAX/MODEM INSTALLATION" in this file.

FAX/MODEM INSTALLATION:

Read "USING COMTEST.COM" first...

(IMPORTANT: Read but don't do this unless you are installing or reinstalling a Fax/Modem)

Definitions:

COM, Communications-Port (1 - 4).

IRQ, Interrupt-Request (0 - 15).

External Fax/Modem, is placed *ON* a COM-Port (UART).

Internal Fax/Modem, *REPLACES* a COM-Port (UART).

A majority of the people I give tech-support to have a hardware conflict due to improper Internal Fax/Modem installation!

NOTE: An External Fax/Modem is placed *ON* an existing COM-Port (UART)!

NOTE: An Internal Fax/Modem is a UART is and *REPLACES* a COM-Port (UART)!

If you are having problems with a Modem, read the above lines until you comprehend and understand them.

Installing an External Fax/Modem:

Plug one end of the COM cable into your Fax/Modem and the other end into a vacant COM-Port. You will have to know what COM-Port and what IRQ you plugged into so you can let the software know during software installation.

Installing an Internal Fax/Modem:

When installing an Internal Fax/Modem, be sure you disable the COM-Port (located on your IO-Board) you are going to replace. Then; before installing the Internal Fax/Modem, test, with the opening screen of COMTEST.COM (comes with FaxMail for Windows and *MUST* be run from DOS. It will *NOT* work while in Windows.), to be sure the COM-Port really is disabled, and then, AND ONLY THEN, are you ready to install the "Internal Fax/Modem". Not doing this properly is the overwhelming major reason for Modem and other computer problems that to the average person seem to have no relationship to their modem, but it does! If you are installing on COM2-IRQ3, the COMTEST.COM opening screen should look like this BEFORE you install the Fax/Modem.

COM1-IRQ4:

UART (16450 Chip) or Equivalent detected.

COM2-IRQ*:

No UART/COM/Modem/Serial Port detected.

COM3-IRQ*:

No UART/COM/Modem/Serial Port detected.

COM4-IRQ*:

No UART/COM/Modem/Serial Port detected.

Then you are ready to set the jumpers on your Internal Fax/Modem to COM2-IRQ3 and insert it into a vacant slot; thus replacing the COM2 UART.

You can use DEBUG.EXE to help install Modems, but it is not as accurate as COMTEST.COM (see Note 5).

If you are reinstalling a Fax/Modem on a different COM-IRQ, keep in mind that you may have to reinstall or run setup on all the software that is presently using the Fax/Modem.

If COM1-IRQ4 and COM2-IRQ3 are in use, I would suggest one of the following configurations:

COM3-IRQ5,
COM3-IRQ7,

or

COM3-IRQ2

If we would have found COM2 unused we would have configured like this:

COM2-IRQ3

Here is a list of suggested combinations:

COM1-IRQ4

COM2-IRQ3

COM3-IRQ5

COM3-IRQ7

COM3-IRQ2

COM4-IRQ5

COM4-IRQ7

COM4-IRQ2

FaxMail for Windows will supports COM1 through COM4 on IRQ0 through IRQ15. But...Before these addresses can be used, your "COM-Port/Fax/Modem" must first support the configuration and second you must properly configure said device.

Never skip a COM-Port as the system will go into "conflict-convulsion" from time to time. To find a vacant IRQ, run something like SYSONFO.EXE, etc. Here is some information on IRQs in the IBM-Compatible. They are: IRQ0 - IRQ15. N/A means not normally available for your Fax/Modem.

IRQ0 {INT 08h, Reserved for 8253 Channel 0 System-Timer-Tick, N/A
IRQ1 {INT 09h, Reserved for Key-Board Attention, N/A
IRQ2 {INT 0Ah, Reserved for Future use, (you can use if not in use)
IRQ3 {INT 0Bh, Reserved for COM2-IRQ3, or COM4-IRQ3 *If not used by COM2
IRQ4 {INT 0Ch, Reserved for COM1-IRQ4, or COM3-IRQ4 *If not used by COM1
IRQ5 {INT 0Dh, Reserved for XT-HardDrive, Can used unless you have an XT
IRQ6 {INT 0Eh, Reserved for Disk Attention, N/A
IRQ7 {INT 0Fh, LPT1, but usually doesn't need IRQ, usually can be used
IRQ8 - IRQ15 {Available in AT and up, but not in XT computers)

The following report was generated by Peter Norton's SYSINFO.EXE on a 486DX-50:

* Hardware Interrupts *

Number	Address	Name	Owner
IRQ 00	FCAC:0043	Timer Output 0	BIOS
IRQ 01	FCAC:0048	Keyboard	BIOS
IRQ 02	08AB:0057	[Cascade]	DOS System Area
IRQ 03	08AB:006F	COM2	DOS System Area
IRQ 04	0A4D:9F5A	COM1	FM_ROCK2.COM
IRQ 05	08AB:009F	LPT2	DOS System Area
IRQ 06	08AB:00B7	Floppy Disk	DOS System Area
IRQ 07	0070:06F4	LPT1	DOS System Area
IRQ 08	0000:0000	Realtime Clock	Unused
IRQ 09	0000:0000	Reserved	Unused
IRQ 10	0000:0000	Reserved	Unused
IRQ 11	0000:0000	Reserved	Unused
IRQ 12	0000:0000	Reserved	Unused
IRQ 13	0000:0000	Coprocessor	Unused
IRQ 14	0000:0000	Fixed Disk	Unused
IRQ 15	0000:0000	Reserved	Unused

Note 1:

As you can see, if IRQ4 is used by COM1, you have to find another IRQ for COM3. If you have a COM1-IRQ4 and you use COM3 you will need to use an alternative IRQ. The same goes if you are going to use COM4 and you have a COM2-IRQ3.

Note 2:

It is best to use COM1-IRQ4 or COM2-IRQ3 for Fax/Modems, as they were originally and specifically set aside for communications. Experience has shown me that some Fax/Modems do not perform as well on COM3 and COM4 using IRQ5, IRQ7 or IRQ2.

Note 3:

By the way, the problem with this and most system tests, such as MSD.EXE, is that they tell you what is suppose to be or what is normally on an IRQ. For instances, when I ran this test, as you can see, it says that "LPT1" is on IRQ7. The fact is I have a Rockwell class 1,2 Fax/Modem on COM3-IRQ7. When I ran COMTEST.COM I got the following results:

FaxModem Wizard COM-Port Test is part of "FaxMail for Windows"
(C) Copyright 1990-1995, Jon Krahmer, All Rights Reserved.

COM1-IRQ4:

UART (16450 Chip) or Equivalent detected.

COM2-IRQ3:

FIFO UART (16550AN Chip) or Equivalent detected.
This is a high performance UART with buffering.

COM3-IRQ7:

UART (16450 Chip) or Equivalent detected.

COM4-IRQ*:

No UART/COM/Modem/Serial Port detected.

Press <Esc> <Esc> to exit COMTEST or <Any-Key> to Continue...

Note 4:

TEST RESULTS

Rockwell, Internal, V.32AC, V1.270, TR14-Jxxx-001 Accelerator-Kit:

COM1-IRQ4 { Class 1 (FM_ROCK1.COM); Worked well
{ Class 2 (FM_ROCK2.COM); Worked well

COM2-IRQ3 { Class 1 (FM_ROCK1.COM); Worked well
{ Class 2 (FM_ROCK2.COM); Worked well

COM3-IRQ2,5,7 { Class 1 (FM_ROCK1.COM); Poor, usually failed to send
{ Class 2 (FM_ROCK2.COM); Worked

COM4-IRQ2,5,7 { Class 1 (FM_ROCK1.COM); Poor, usually failed to send
{ Class 2 (FM_ROCK2.COM); Worked

GVC, Internal, FM144/144, FM-144HVBIS with built-in FIFO:

COM3-IRQ5 { Class 2 (FM_ROCK1.COM); Works well

If your computer has a built-in COM1-IRQ4 and COM2-IRQ3, you can disable either COM1-IRQ4 or COM2-IRQ3 and then set your Fax/Modem to that COM-Port and IRQ. This is done by getting out your manuals and moving the jumpers or contact the company you bought your computer and Fax/Modem from.

Note 5:

At Segment 0040, Offset 0000 DOS keeps a table of ports starting with your COM-Ports. The BIOS and DOS assume that you know that you can not skip a COM-port or reuse an IRQ. If you do, it will raise havoc with your system. If you skip a COM-Port, your system will compress the COM-Port table thus making it useless to any program that depend on it. For instance, if you have a UART on:

COM1, COM2, and COM4

your system will report that you have a UART on:

COM1, COM2, and COM3

Example of how to verify this:

Go to the DOS-Prompt and type:

```
CD\           {go to the root directory}
DEBUG        {or \DOS\DEBUG}
-D 0040:0000 {the - prompt will appear}
              {something similar to the following will appear}
0040:0000  F8 03 F8 02 E8 03 00 00-78 03 00 00 00 00 00 00 .....x....
Q <Enter>   {to Quit DEBUG}
```

We are only concerned with the first 8 BYTES (4 WORDs).

```
0040:0000  F8 03 F8 02 E8 03 00 00 {as you found them}
          F8 03,F8 02,E8 03,00 00 {separated}
          03F8 02F8 03E8 0000 {formatted from BYTES to WORDs}
          3F8 2F8 3E8 000 {formatted to human terms}
          COM1 COM2 COM3 {No COM4; or was there?}
```

It looks like you have a COM1, COM2 and COM3 :-)

RESOLVING CONFLICTS:

To keep from damaging electronic parts, always turn your computer off when removing/replacing hardware, and place your hand on the metal chassis before removing/replacing hardware.

Read "USING COMTEST.COM" and "FAX/MODEM INSTALLATION" first...

Example of a conflict and how to resolve it

Lets assume you have a mouse on COM1-IRQ4 and a modem on COM4-IRQ3.

You have a hardware conflict. You should never skip a COM-Port as the system will go into "conflict-convulsion".

Your computer has a COM-Port table at real-mode Segment 0040h, Offset 0000h, 0040:0000. It assumes that you did not skip a port, and if you did, it will compress it down to where, in this case, your COM4 is entered into the COM-port table at the location reserved for COM3. When you go into Windows, Windows looks at the COM-Port table and thinks you have a COM1, COM2 and COM3. When it goes to access COM3, bad things happen, because it is not there.

FaxModem Wizard, COMTEST.COM, is included with FaxMail for Windows. It will tell you what, if anything, is on each of your four COM-Ports and which IRQ each COM-Port is using, COM?-IRQ?. It will give you a written report about your Modem.

Exit Windows and Run COMTEST.COM. In this case it will look like this:

COM1-IRQ4:

UART (16450 Chip) or Equivalent detected.

COM2-IRQ3:

UART (16450 Chip) or Equivalent detected.

COM3-IRQ*:

No UART/COM/Modem/Serial Port detected.

COM4-IRQ3:

UART (16450 Chip) or Equivalent detected.

To Correct this conflict:

Method 1

1. Turn off your computer and remove your modem.
2. Turn on your computer and run FaxModem Wizard (COMTEST.COM). The UART on COM4 should now be gone as shown in this example.

```
COM1-IRQ4:  
  UART (16450 Chip) or Equivalent detected.
```

```
COM2-IRQ3:  
  UART (16450 Chip) or Equivalent detected.
```

```
COM3-IRQ*:  
  No UART/COM/Modem/Serial Port detected.
```

```
COM4-IRQ*:  
  No UART/COM/Modem/Serial Port detected.
```

3. Turn off your computer and disable COM2. For most computers, this is done by removing the I/O board and moving or removing the jumpers so that COM2 is disabled. The "I/O board" is the input output board that controls the HardDrive, COM-Ports and etc.). If this is the case with your computer, get out the jumper-sheet that came with your computer's I/O board, and move the jumpers so that COM2 is disabled.
4. Run FaxModem Wizard and look for the following results:

```
COM1-IRQ4:  
  UART (16450 Chip) or Equivalent detected.
```

```
COM2-IRQ*:  
  No UART/COM/Modem/Serial Port detected.
```

```
COM3-IRQ7:  
  No UART/COM/Modem/Serial Port detected.
```

```
COM4-IRQ*:  
  No UART/COM/Modem/Serial Port detected.
```

5. Get out the jumper-sheet that came with your modem and set your modem to COM2-IRQ3 and insert it into any vacant slot.

6. Run FaxModem Wizard to verify that it looks like this.

COM1-IRQ4:
UART (16450 Chip) or Equivalent detected.

COM2-IRQ3:
UART (16450 Chip) or Equivalent detected.

COM3-IRQ*:
No UART/COM/Modem/Serial Port detected.

COM4-IRQ*:
No UART/COM/Modem/Serial Port detected.

If you have a high performance modem, COM2-IRQ3 will look like this:

COM2-IRQ3:
FIFO UART (16550AN Chip) or Equivalent detected.
This is a high performance UART with buffering.

Method 2

If COM2-IRQ3 is being used or you are unable to disable COM2, you can set your modem to COM3-IRQ7 or COM3-IRQ5. If you have a sound card, it may be using IRQ5. If this is the case, then you will have to use COM3-IRQ7. Thus FaxModem Wizard will look like this.

COM1-IRQ4:
UART (16450 Chip) or Equivalent detected.

COM2-IRQ3:
UART (16450 Chip) or Equivalent detected.

COM3-IRQ7:
UART (16450 Chip) or Equivalent detected.

COM4-IRQ*:
No UART/COM/Modem/Serial Port detected.

BEFORE SOFTWARE INSTALLATION:

Windows only:

If you are going to be using FaxMail for Windows in Windows only, you might try the "FaxMail for Windows Dynamic All Class Fax/Modem-Driver" first.

DOS and Windows:

If, while installing FaxMail for Windows you find that your Fax/Modem is not listed, it is possible that one of the selections will work. For instance, DoveFax Class 1 and Practical Peripherals Class 1 works with many other class 1 Fax/Modems. The {"Universal, Rockwell, Class 2"} will work with nearly all of the Fax/Modems derived from the "Rockwell Class 2 Accelerator Kit". Generic Class 2, Zoom Class 2, ZyXEL Class 2, and Dallas Class 2 Fax/Modem-Drivers are all Class 2 Fax/Modem-Drivers. There are a lot of "Class 2" variations, so, if your "Class 2" board does not work with one, it may work with another. The

"Universal, Hayes, Rockwell, Class 1",
"Universal, Rockwell, Class 1", and the
"Universal, Rockwell, Class 2"

Fax/Modem-Drivers are designed to do the job if all else fails. It should not always be the first choice because even though it is more versatile, it may not perform as well as the one recommended by us. Depending on your computer, another Fax/Modem-Driver may work better than our recommended one though. Sometimes, depending on your computer, COM-Port (FIFO(16550) or not), the

"Universal, Hayes, Rockwell, Class 1",
"Universal, Rockwell, Class 1",
- or -

"Universal, Rockwell, Class 2"

may outperform the recommended Fax/Modem-Driver. By The Way, these 2 Fax/Modem-Drivers support FIFO operation.

If your Fax/Modem is not listed, look for an alternate Fax/Modem-Driver. An Internal Fax/Modem-Driver can be used to drive an External Fax/Modem, and an External Fax/Modem-Driver can be used to drive an Internal Fax/Modem. The name is not important. For instance, the AT&T class 1 will work on many other class 1 Fax/Modems. Choosing the wrong Fax/Modem-Driver will not harm Anything.

The files in this package are modified to your specifications during installation and *WILL NOT* work properly if simply copied into your working directory. You *MUST* use the INSTALL.EXE or configuration utilities to add or change anything.

List of modems that were tested and are known to work with FaxMail:

```
=====
Fax/Modem:          Fax/Modem-Driver:
|                   |
+-----+          +-----+
|                   |
FaxMail for Windows Dynamic All Class Fax/Modem-Driver,
      (for Windows only), Class 1,2,2.0-----FM_WN_FD.EXE
Universal, Rockwell, Class 2-----FM_ROCK2.COM
Universal, AT&T, Class 2-----FM_ATT2I.COM
Universal, Hayes, Rockwell, Class 1 -----(HayesMode)FM_ROCK1.COM
Universal, Rockwell, Class 1-----FM_ROCK1.COM
Universal, AT&T, Class 1-----FM_ATT1I.COM
Universal, Class 2 and/or 2.0,-----FM_ZYXEL.COM
Generic, External, Class 2-----FM_CLS2E.COM
Generic, Internal, Class 2-----FM_CLS2I.COM
Generic, Send9600/Receive4800, Rockwell RC224ATF Chip--FM_CLAS1.COM
Aceex, DM-1414H, Class 2-----FM_ROCK2.COM
AT&T DataPort Fax/Modem, Class 1-----FM_ATT1I.COM
BEC14/14I, V1.410, Rockwell RC32ACL, Class 1,2(2)-----FM_ROCK2.COM
Boca, M1440E, Rockwell RC32ACL, Class 1,2(1)
      (First Choice)-----FM_ATT1I.COM
Boca, M1440E, Rockwell RC32ACL, Class 1,2(2)
      (Second Choice)----FM_ATT2I.COM
Dallas Fax, 2496 Fax/Modem, Class 2-----FM_DALAS.COM
Dallas Fax, 9696, 1.44 Fax/Modem, Class 2-----FM_ROCK2.COM
Dallas Fax, 14.4E Fax/Modem Pro Plus, Class 2-----FM_ROCK2.COM
Digicom Connection 14.4+Fax, Class 1 -----(HayesMode)FM_ROCK1.COM
DoveFax, External, Class 1-----FM_DOVE1.COM
GVC, FM144/144, FM-144HVBIS, Class 1,2(2)-----FM_ROCK2.COM
Hayes, Accura, Class 1 -----(HayesMode)FM_ROCK1.COM
IBM PS/Note, Class 1 -----FM_DOVE1.COM
Identity 14.4 Fax/Modem, ID14144SR, Class 1,2(2)-----FM_CLS2I.COM
Intel FM-144HVR, Class 2-----FM_ROCK2.COM
Megahertz PCMCIA Fax Modem, XJ1144, Class 1,2(2)-----FM_ROCK1.COM
NUVOTEL 96424IFX, Internal, Class 1-----FM_ROCK1.COM
P. C. LOGIC FAX144C, FAX144DM, Class 1,-----FM_ATT2I.COM
P. C. LOGIC FAX144I, Class 1,2(2),-----FM_ATT2I.COM
Practical Peripherals, PM14400FXMT, Class 1,2(1)-----FM_PP1.COM,
Practical Peripherals, PM14400FXSA, Class 1-----FM_PP1.COM,
Practical Peripherals, PM2400FX96, Class 2-----FM_ROCK2.COM
PreMax PCMCIA CARD 2.0, Class 1,2(2)-----FM_ROCK2.COM
Rockwell, Universal, RC96AC/RC144AC, Class 1-----FM_ROCK1.COM
Rockwell, Universal, RC96AC/RC144AC, Class 2-----FM_ROCK2.COM
SMART ONE 9624 FQ, 2400/6900/4800, Class 1-----FM_CLAS1.COM
SMART ONE 14427, Class 1,2(2)-----FM_ROCK2.COM
Supra FAX Modem, Class 1,2(1)-----FM_ROCK1.COM
Supra FAX Modem Plus, Class 1,2(2)-----FM_ROCK1.COM
TurboModem PLUS, The Complete PC, Boca, Class 1,2(1)---FM_ATT1I.COM
TurboModem PLUS, The Complete PC, Boca, Class 1,2(2)---FM_ATT2I.COM
USRobotics Sportster 14400, Class 1-----FM_ATT1I.COM
USRobotics, Class 1,2.0(2.0)-----FM_ZYXEL.COM
ViVa 14.4/Fax/Modem, Class 1,2(2)-----FM_ROCK2.COM
Wang 14/14I Fax Modem, Internal Class 1,2(2)-----FM_ROCK2.COM
Zoom Fax/Modem, VFPV32BISB, 14400, Internal, Class 2---FM_ROCK2.COM
Zoom Fax/Modem, VFX V.32/V.32bis, External, Class 2---FM_ZOOM2.COM
ZyXEL, U1496E, 503, 613, Class 2, 2.0-----FM_ZYXEL.COM
Please add to this list and return it to us.  Thank You
```


SOFTWARE INSTALLATION:

Make a directory called FM_TMP, like this:

C:

CD \

MD FM_TMP

CD FM_TMP

UnZIP(PKUNZIP.EXE Version 2.04g or higher) * into FM_TMP
directory, like this:

Copy FaxMail into FM_TMP

PKUNZIP * /O

and then type:

START and press <Enter>

-or-

Go into MS-Windows 3.1 or above and run the FaxMail for Windows
INSTALL.EXE using the Windows NEW command or Windows RUN command.

AFTER SOFTWARE INSTALLATION:

After installation, you will have several icons in the FaxMail for Windows Group and one in your StartUp Group. Please note these icons; "Read Me" (README), "Q and A" (Q_A), "FaxMail Tutor" (TUTOR31.WRI), and "FaxMail Help". These should be read before using FaxMail for Windows. There is also "Contact-Sensitive Help" buttons, throughout FaxMail for Windows, for your convenience,.

Everything is explained thoroughly in the FaxMail for Windows help system, which may be called upon from anywhere in FaxMail for Windows.

If you want to use FaxMail for Windows from within any Windows Application and/or take advantage of *ALL* the power FaxMail for Windows has, load the "Control" program that you will find in the FaxMail for Windows Group before loading any other Windows Applications.

After the Control program is loaded, click on the System button (the small square button at the top left corner of all windows) and choose SetUp and configure things *YOUR WAY*. I suggest that if you are not sure of something, leave the defaults set as it came to you. Make a printout of the defaults in case you change something you do not understand yet.

Note:

If the Fax/Modem-Driver does not load at when you turn on your computer it could be because FaxMail for Windows installs its Fax/Modem-Driver at the top of the AUTOEXEC.BAT file, and other drivers can cancel it out. If this happens to you, move the Fax/Modem-Driver command:
LH C:\FAXMAIL\FM_ROCK2.COM
to a spot just before the Windows load command.

HELPFUL HINTS:

"Silent Answer"

Silent Answer requires the support and cooperation of the remote sending Fax/Modem/Machine with your receiving Fax/Modem. If the sending Fax/Modem/Machine does not support "Silent Answer" by sending the "CNG" tone, you will lose that Fax! Please read **all** of this area before using "Silent Answer". If you still want "Silent Answer", here is what it does and how to implement it.

Silent answer let one telephone line be used for two purposes; receiving FAXes with the Fax/Modem, and receiving voice calls with an answering machine or telephone. When set to this mode, the Fax/Modem lets your answering machine answer all incoming calls. If it detects Fax "CNG" tones, it routes the call to FaxMail for Windows. Otherwise, it just sits silently on the phone line while you or your answering machine takes the call.

When the phone rings and after the second ring the Fax/Modem will start monitoring the telephone line. If it detects a Fax tone, it will receive the Fax. If it does not detects a fax tone, it will do nothing.

Silent Answer hardware installation

When installing the Fax/Modem, DO NOT plug the answering machine into the telephone jack on the back of the Fax/Modem. Instead, do one of the following:

- a. Plug the answering machine and Fax/Modem into different wall jack (i.e. jacks in different rooms).
- b. Plug the answering machine into a wall jack and the Fax/Modem into the answering machine.
- c. If your answering machine has some kind of phone-jack switching; use this method. You must locate the two devices on separate extensions to make silent answer work correctly. This means you can not plug the answering machine into the Fax/Modem or vise versa. You can split a single extension with a duplex jack adapter. Radio Shack commonly carries these, part number 279-357 for \$4.49.

Also, if you have an older answering machine that does NOT automatically turn itself off when it detects that a person or the Fax/Modem has answered the call, you need a \$7.95 adapter from Radio Shack, part#43-107. This adapter disconnects the answering machine from the phone line when the call is answered. It goes between the answering machine and the wall jack.

Note:

The device that is picking up the line initially, must answer after, and not before, the second ring. This means you should set it to 3 for best results. If no other device picks up the line by the time the number of rings that FaxMail for Windows is set to is reached, FaxMail for Windows will answer it and process a Fax.

To activate Silent Answer

Load the FaxMail for Windows "Control" program and click on the <System> Button, <Setup> Button and on the Silent Answer <Check> Button. Set the number of rings until we answer to four and set your answering-machine to three rings. If the Silent Answer <Check> Button is inactive and gray, your Fax/Modem does not support Silent Answer.

How to enable auto-load (registered version only)

When you boot-up, you have a choice as to whether you want to load the FaxMail for Windows Fax/Modem-Driver or not. If you plan to always load the FaxMail for Windows Fax/Modem-Driver, you can place y or Y behind the Fax/Modem-Driver. Here are two examples:

examples #1 (First line in your AUTOEXEC.BAT)

```
LH C:\FAXMAIL\FM_ROCK2.COM
```

will ask:

Do you want to load the "FaxMail for Windows" Fax/Modem-Driver? (Y/N) Y

examples #2 (First line in your AUTOEXEC.BAT)

```
LH C:\FAXMAIL\FM_ROCK2.COM Y
```

The Y parameter will cause the Fax/Modem-Driver to load without asking. It will always load without stopping or asking.

BBS and FAX on the same computer

Method 1:

Windows:

There is an ICON, FAX vs BBS, in the FaxMail for Windows Group for the purpose of allowing you to control the Fax/Modem mode.

-Before you call a BBS, double-click the <FAX vs BBS> ICON and choose:
<Set Fax/Modem to BBS-Mode>.

-Load your BBS-Software and log-onto the BBS.

-After logging-off the BBS and exiting the BBS Software; to resume FAXing, double-click the <FAX vs BBS> ICON again and choose:
<Set Fax/Modem to FAX-Mode> again.

DOS:

Method 2:

Before you call a BBS, go to the DOS Prompt, and type:

```
C:\FaxMail\BBS-MODE.COM
```

Log-onto the BBS.

To resume FAXing, go to the DOS Prompt, and type:

```
C:\FaxMail\FAX-MODE.COM
```

Method 3:

Note: In these example; do not type the comments that appear to the right of the {.

If you want to use the same computer for Fax and data-modem(BBS), it may be necessary to Disable the FaxMail for Windows Fax/Modem-Driver while calling a BBS. To Disable FaxMail for Windows Fax/Modem-Driver run: BBS-MODE.COM. Use FAX-MODE.COM to Enable the Fax/Modem-Driver again after you log-off the BBS. Here is an example of a Batch(.BAT) File that will do it all for you. Lets say that you are using a BBS program called Telemate, and it's name is TM.EXE. The following Batch File will Disable the "Fax/Modem-Driver" load "Telemate" and when you exit the BBS program (Telemate) it will "Enable" the Fax/Modem-Driver so you can resume FAXing. At the DOS Prompt:

```
COPY CON T.BAT <Enter>           {Create file(T.BAT)
C:\FaxMail\BBS-MODE.COM <Enter>  {1st line in file(T.BAT)
PAUSE <Enter>                    {2nd line in file(T.BAT)
CD\TELEMATE <Enter>              {3rd line in file(T.BAT)
TM.EXE <Enter>                   {4th line in file(T.BAT)
C:\FaxMail\FAX-MODE.COM <Ctl+Z(or F6)> <Enter> {5th, and Save(T.BAT)
```

- or -

Using a text editor, create a file called T.BAT with the following 3 lines:

```
C:\FaxMail\BBS-MODE.COM {Set Fax/Modem to Data-Mode(BBS)
PAUSE                    {Pause to let Fax/Modem catch up(4 sec or more)
CD\TELEMATE              {Change Directory to BBS Software
TM.EXE                   {Load BBS Software
C:\FaxMail\FAX-MODE.COM {Set Fax/Modem to Fax-Mode(FaxMail)
```

The above example assumes that your FaxMail Directory is FAXMAIL and your Telemate Directory is TELEMATE.

Now when you want to call a BBS you type:

```
T <Enter>
```

Method 4:

To remove FaxMail for Windows Fax/Modem-Driver, type "rem " in front of this line, in your AUTOEXEC.BAT:

```
rem LH C:\FAXMAIL\FM_ROCK2.COM
```

....and RE-BOOT.

To restore back to "FaxMail for Windows", reactivate the line, in your AUTOEXEC.BAT:

```
LH C:\FAXMAIL\FM_ROCK2.COM
```

....and RE-BOOT.

Note:

In some cases, to reset your modem to data mode, you may have to manually reset the modem (if it's external) or turn the PC off and then back on (for internal modems that don't reset any other way).

KNOWN TO BE COMPATIBLE WITH:

The: "FaxMail for Windows Dynamic All Class Fax/Modem-Driver" has been tested on the following Modems but should work on almost all Modems.

- IBM; Easy OPTIONS; Class 0,1,2
- ZOOM; Class 0,1,2; 9600, 14400, 28800
- Dallas; Internal and External; Class 0,2 and 0,1,2; 9600, 14400
- Intel; PCFM7600W; Class 0,1,2; 9600, 14400
- ZyXEL; Class 0,1,2,2.0; 9600, 14400
- USRobotics, Class 0,1,2.0
- TurboModem, Class 0,1,2
- Rockwell, Class 0,1,2
- Rockwell, Data 2400, Class 1 Send 9600, Receive 4800
- Dallas, Class 2
- Hayes, Class 1

MODEMS WITH KNOWN INCOMPATIBILITIES:

Supra FAX Modem/Plus:

Some peoples have reported good service using the Universal, Rockwell, Class 1 -- FM_ROCK1.COM and others work better on Universal, Rockwell, Class 2 -- FM_ROCK2.COM

- unknown -

Please let me know if FaxMail for Windows does not work properly with your Fax/Modem. The next version (revision) will probably include support for *YOUR* Fax/Modem.

WINDOWS NT:

Adding "FaxMail NT Convert to Fax" to Windows NT:

1. After installing FaxMail for Windows, re-boot the computer, go to <Main> group and select <Print Manager>.
2. From the "Print Manager" select <Printer>, <Create Printer>.
3. Fill out the information in the dialog box EXACTLY as follows. Where the C: in C:\TOFAX is the drive letter of your HardDrive where you installed FaxMail. If you installed on D: you will select D:\TOFAX from the drop-down list box.

```
+-----+
|               Create Printer               |
+-----+
|                                             +-----+ |
|               +-----+ |   OK   | | |
| Printer Name: | FaxMail NT Convert to Fax | +-----+ |
|               +-----+ |   Cancel  | |
| Driver:       | FaxMail NT Convert to Fax | +-----+ |
|               +-----+ |   Setup   | |
| Description:  | Print to Fax              | +-----+ |
|               +-----+ |   Details  | |
| Print to:     | C:\TOFAX                  | +-----+ |
|               +-----+ |   Settings | |
|               +-----+ |   Help    | |
|+-[ ]Share this printer on the network--+ | +-----+ |
||               +-----+ | |
|| Share Name:  | | |
|| Location:    | +-----+ | |
||               | | |
||               +-----+ | |
|+-----+ |
+-----+
```


4. Select OK.
5. You will be asked for the Windows NT floppies or CD-ROM. NT expects to find FM_PN_NT.DLL on your floppies or CD-ROM, but it will not be there because this driver only comes with FaxMail for Windows. The FaxMail installation has already put FM_PN_NT.DLL in place, so it is not necessary for NT to do so. For this reason you will get a "noncritical error" when NT can not find FM_PN_NT.DLL on your floppies or CD-ROM. When you are presented with a noncritical error, select <Ignore>. NT will ignore coping FM_PN_NT.DLL, but will copy the printer driver support files that it does have. During installation, FaxMail creates the following files:
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\FM_PN_NT.DLL
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\1\FM_PN_NT.DLL
 - \WINNT35\SYSTEM\FM_PN_NT.DLL
 - \WINNT35\SYSTEM\FM_PN_NT.DRV
 If for some reason they are not there, copy them there from the unzipped files that came with FaxMail.

Notes:

- o During the "FaxMail NT Convert to Fax" installation, in response to "noncritical errors", select <Ignore>.
- o The reason for this unorthodox installation is that NT expects to find the driver, FM_PN_NT.DLL, on your NT installation floppies or CD-ROM for the purpose of copying it. When NT can not find FM_PN_NT.DLL, it will display a "noncritical error". In response to this noncritical error you will respond <Ignore>. NT will continue and put the following printer driver support files on your HardDrive:
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\RASDD.DLL
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\RASDDUI.DLL
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\1\RASDD.DLL
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\1\RASDDUI.DLL
- o When you have successfully installed FaxMail NT Convert to Fax, there will be more than one copy of FM_PN_NT.DLL on your HardDrive. They will be in, at least, the following directories.
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\FM_PN_NT.DLL
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\1\FM_PN_NT.DLL
 Do not delete any of them. NT needs them all. FaxMail will also put the following in your SYSTEM directory:
 - \WINNT35\SYSTEM\FM_PN_NT.DLL
 - and
 - \WINNT35\SYSTEM\FM_PN_NT.DRV
- o When installing an upgraded version of FaxMail for Windows, check to be sure the following files are updated.
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\FM_PN_NT.DLL
 - \WINNT35\SYSTEM32\SPOOL\DRIVERS\W32X86\1\FM_PN_NT.DLL
 - \WINNT35\SYSTEM\FM_PN_NT.DLL
 - \WINNT35\SYSTEM\FM_PN_NT.DRV
 You can find all instances of FM_PN_NT.DLL and FM_PN_NT.DRV by going to the DOS prompt and typing:
 - C: {Or the drive where NT is.
 - CD\ {Move to the root-directory.
 - DIR FM_PN_NT.* /S /P {List directories containing FM_PN_NT.DLL,DRV.

Converting a document to Fax from Windows NT:

1. Load FaxMail for Windows.
2. Load your text editor or word processor.
3. Select <File>, <Printer Setup> or equivalent.
4. Select "FaxMail NT Convert to Fax on C:\TOFAX" as the printer.
5. Select <File>, <Print> or equivalent.
6. Do your normal print routine to
"FaxMail NT Convert to Fax on C:\TOFAX".
7. After the print job is done, the "Converting Printer output to Fax"
dialog box will appear and Convert the printer output to Fax.
8. The Send Fax dialog box will appear.
8. <View Fax> and <Send Fax>.

Adding a modem to Windows NT:

1. See FAX/MODEM INSTALLATION in this README.
2. Open the <Main Group> and select <Control Panel>.
3. Select <Ports>, select <Add> or <Settings> to add your new modem or reconfigure to fit your need.

Note:

The following chart is the normal possibilities, and may help you while in the <Ports> setup procedure:

COM Port Number:	Interrupt ReQuest Line:	Base I/O Port Address:
COM1-IRQ4		03F8
COM2-IRQ3		02F8
COM3-IRQ5, IRQ7 or IRQ2		03E8
COM4-IRQ5, IRQ7 or IRQ2		02E8

If you have a sound card, it may be using IRQ5 or IRQ7. A CD-ROM usually uses one of the IRQs above IRQ7.

REGISTRATION:

Only the unregistered version of FaxMail for Windows is a Shareware program. Upload it to bulletin boards (BBS). Give it to your friends and relatives. Tell your business associates about it. Don't let anyone miss out.

If you have a registered version of FaxMail for Windows you may *NOT* share it with others.

When you register, you will receive a diskette(s) with the latest version of FaxMail for Windows.

Please fill-in the included Registration Form below. You will receive a registered version of "FaxMail for Windows". Your registered version will not display reminder messages, and will have all the latest updates, improvements and bonus features.

Register: FaxMail for Windows, fax_v416.zip, 1-713-261-0307
ElectraSoft, 3207 Carmel Valley Drive, MISSOURI CITY, TX 77459-3068
== Please Print ==

Date ___/___/___ Country_____ Wk Phone _____
Name _____ Hm Phone _____
Address _____ Fx Phone _____
City _____ State _____ ZIP _____

Disk Size: ___ 3.5-1.4MB ___ 5.25-1.2MB ___ Other _____

Qty	Item	Amount
	FaxMail for Windows - - - - -	\$25.00 \$ _____.
	OCR, Optical Character Recognition, Fax-to-text	\$15.00 \$ _____.
	Zoom/Edit Fax, Zoom in and edit a Fax - - - - -	\$15.00 \$ _____.
	DCX to PCX Breakup, Convert Fax to .PCX file(s)	\$15.00 \$ _____.
	or	
	All of the above (\$15.00 savings) - - - - -	\$55.00 \$ _____.

Total Price of Merchandise - - - - - \$ _____.
Texas residents, please, add Sales Tax (8.25%) - - - - - \$ _____.
Registration, Shipping, and handling - - - - - \$4.00 \$ _____4.00
Total (Pay this amount) - - - - - US\$ _____.

___ Cash ___ Check ___ DISCOVER ___ VISA ___ MC ___ AmEx

Card Number _____ Exp Date ___/___

Print name as it appears on card _____

Signature _____ Date Today ___/___/___
(or Name if sending FidoNet, Internet or FAXing with computer)

=Order Methods:=====

Phone:Call ElectraSoft at 1-713-261-0307
or fill out this form and Send it to...
ElectraSoft, 3207 Carmel Valley Dr, MISSOURI CITY, TX 77459-3068
BBS: 713-499-5939 FAX: 713-499-5939,11,11,11,11 (,11 is a router)
Internet: Jon.Krahmer@f10000.n106.z1.fidonet.org or JonK@blkbox.com
FidoNet: Jon Krahmer on 1:106/10000

Where did you find FaxMail for Windows? _____

Your Internet, AOL, CompuServe, etc address? _____

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