

Multiwave Innovation

CommWave 336 / CommWave 336 PnP

33.6 kbps Data+Fax+Voice+Speakerphone Host Signal Processing Plug and Play Internal Modem

Version 3.0ge

[GERMANY Country Settings]

[Intel or AMD Pentium CPU Driver]

Drivers and Setup for Windows 95

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336 HSP Modem Setup and Software Installation

Hardware Setup

This modem selects the COM Port and IRQ automatically. There is two model of the modem available. 1) 16-bit PnP card 2) 8-bit Non-PnP card.

16-bit PnP Setup using Windows 95

The setup procedure for PnP is the same as most other devices of similar type. When the hardware is installed, and the computer is turn on, the device should be detected automatically. Windows 95 should ask you for the driver disk provided by the manufacturer.

When it ask, insert the driver disk and click "OK". Windows 95 will try to find the driver files from the default floppy disk. If it can't find the files, it will ask you again for it location. Type in your floppy location like "A:" or "B:"

If it does, then just click "OK" again and it should install properly with no further intervention. After the installation is completed, restart the computer and your modem is ready to work at your next startup.

16-bit PnP Setup using Windows 3.1x

Run setup program from the driver disk provides by the manufacturer. Follows all on-screen instructions and restarts the system. Due to PnP characteristics of the cards, a MSDOS utility is loaded to configure the modem. Interrupt assign is very important factor to ensure that the modem works in windows. You may have to change the interrupt until you modem works in windows.

8-bit Non-PnP Setup using Windows 95

The setup procedure for Non-PnP is quite different from the PnP. You have to install the "Virtual COM port driver" first to allocate COM port and IRQ resources that this modem will use. In most cases, you may have to disable the COM 2 from the motherboard to free up IRQ 3 so that this modem COM port can use IRQ 3. Once this "Virtual COM port driver" is working, then you will install the Modem driver by manually adding this modem devices. You will have to assign that this modem will use the "Virtual COM port" for communications.

8-bit Non-PnP Setup using Windows 3.1x

The installation procedure is similar to the 16-bit PnP Setup.

For detail exact installation steps, please refer to the user manual.

Diagnostic of the Modem

Under Windows 95

Goto the Control Panel, Modem, Diagnostic.

Under Windows 3.1x

Goto the Terminal program in the Accessories. Make sure the correct COM port is selected. If the modem is working, you should be able to type on the terminal, otherwise, this indicates a problem and more likely the problem is due to the interrupt that you have configured under the MSDOS modem configuration utility, VPNP.EXE. Change your interrupt under MSDOS and try again. If the modem is working, issue AT&T1 to do a self-test. You should be able to hear a sound from the modem. If you pass this test, other communication software should work if you configure it properly.

Uninstalling the Modem driver

16-bit PnP or 8-bit Non-PnP under Windows 95

To completely removing this installed modem, besides simply removing this device from the computer, you have to delete away the modem's INF file from the Windows 95. Locate this modem INF file from the \WINDOWS\INF\ sub-directory. The filename is usually OEMxx.INF. For the Windows 95 OEM Service Release 2 version, locate the INF file from the \WINDOWS\INF\OTHER\ sub-directory. Once this INF file is remove, if you try to re-install the modem driver again, you may need the manufacturer driver diskette again.

Identifying the different Windows 95 version

Windows 95 has many versions. To identify the different version, check the version from the Control Panel, System.

Retail First version of Windows 95 – 4.00.950

Upgrade with Service Pack 1 – 4.00.950 A

OEM Service Release 2 – 4.00.950 B

Basic Minimum System Requirement for 33.6 Modem

1. Intel Pentium-based PC
 - 100 Mhz with 256K cache memory or faster
 - ISA-bus expansion slot
2. Windows 95 or Windows 3.1X and relevant applications.
3. Communication Software Package

Features and specification

DATA

Supported Speeds (Baud Rate)	33600, 31200, 28800, 26400, 24000, 21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400, 1200, 300.
Supported Protocols	V.34+, V.34, V.32bis, V.32, V.22bis, V.22, V.21, V.23, Bell 212A, Bell 103
Data Compression	V.42bis, MNP 5
Error Correction	V.42 LAPM, MNP 2,3,4

FAX

Supported Speeds (Baud Rate)	14400, 12000, 9600, 7200, 4800, 2400, 300
Supported Protocols	V.17, V.29, V.27ter, V.21 Channel 2 Group 3 EIA Class 1

GENERAL FEATURE

Auto Fallback	AT Commands
Auto Selection of COM Port and IRQ settings	Automatic Answering
Signal Quality Monitoring and Auto Retrain	Single Crystal Design
Data/Fax/voice Auto Detection	Automode
High throughput Virtual UART, DTE rate up to 115,200	Low Power Consumption

OPERATING SYSTEM COMPATIBILITY

Windows 95	Windows 3.1x
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Software Compability

Application Software Setup

This modem uses Ties as the escape sequence. "+++". If your software does not recognized this modem (Pctel), try using Hayes compatible modem, with Generic Class 1 fax or "direct connect" under the modem's setup or configuration section.

This Modem has tested and found no compatibility issues with the following Windows based applications (excluding the MSDOS-based applications).

DATA MODEM APPLICATION

BitCom 3.03	Qmodem Pro 95
CommWorks for Windows 1.0A	SuperFax 6.0
CrossTalk for Windows 2.3	Trio Fax 4.1
HyperAccess for Windows 2.0	WinFax Lite 3.1
MS-Windows 3.1x Terminal	Win Fax Pro 4.0
Bitware 3.30.08	WIN95 Network Dial Up
SuperVoice 2.2d	

FAX APPLICATION

BitFax Pro and Lite 3.07	QuickLink Fax 1.1.4.3
Delrina CommSuite 95	SuperFax 6.0
Eclipse Fax 6.0	Trio Fax 4.1
FaxTalk Plus 2.10	WinFax Lite 3.1
FaxWorks 3.0	WinFax Pro 4.0
Microsoft FAX	

ON-LINE SERVICE and INTERNET SOFTWARE

America OnLine 1.5 & 2.0	Netscape Navigator 3.0
CompuServe 1.2 - 1.4	Prodigy 1.0
Internet Chameleon 4.0.1.7	RealAudio Player 3.0
Internet Explorer 3.0	Windows 95 Microsoft Network
Internet Phone	VDOLive Player

REMOTE ACCESS OR CONFERENCING SOFTWARE

Cosession for Windows 6.0	Proshare 1.5
pcAnywhere 2.0	VDOPhone
Enhanced CUSEEME	CinePhone
MediaPhone	Netmeeting

VOICE MAIL APPLICATION

Cheyenne BitWare 3.30.08	Microsoft Phone
Supervoice 2.2d	

WINDOWS "HEAD TO HEAD" GAMES

MechWarrior 2	Board Game for 2
The Real Deal	CivNet
Locus	Lode Runner Online
Microsoft Golf 2.0	

Fax Compatibility

This modem has been tested with the following fax machine and found no compatibility problem with the following fax machine/modems/cards:

AT&T DataPort	AT&T PPF200	Brother Intellifax 600
Brother Intellifax 950M	Brother Intellifax 2500	Canon B70
Canon L777	Cardinal FaxTalk	Compaq 9600 PCMCIA
Dex 85	Eiger 14.4 PCMCIA	Fujitsu Dex 740
Global Village Teleport Bronze II	Hayes JetFax	Hayes Optima 14.4
Hewlett Packard Fax-200	Hewlett Packard OfficeJet	Intel SatisFAXion /400e
Konica 7310	Megahertz PCMCIA Card	Minolta 3300
Mita LDC-570	Mita TC-170	Motorola UDS 14.4
Muratec F-56	Muratec M-820	NEC Nefax 480
NEC SilentWriter 95	New Media 14.4 PCMCIA	Okidata Okifax 2200
Olivetti OFX-3100	Panasonic PX-5	Panasonic PX-150
Panasonic PX-350	Pitney Bowes 8050	Practical Peripherals V.32bis
Ricoh 3500L	Ricoh Fax 240	Sanyo SFX 11
Scout 14.4 PCMCIA	Sharp FO-235	Sharp FO-5400
Sharp UX-104	Supra 28.8 Macintosh	Supra FAX Modem V.32bis (FaxTalk)
Supra FAX Modem V.32bis (WinFax)	Toshiba TF-231	Toshiba TF-501
U.S. Robotics Sportster	U.S. Robotics Sportster 14.4 Internal	U.S. Robotics Sportster 28.8 (Macintosh)
U.S. Robotics WorldPort PCMCIA	Viva 14.4 Fax Modem	Xerox 7021
Xerox 7024	Xerox 7033	Zoom Telephonics 14.4 Internal
Zoom Telephonics 9600 Internal	Zoom Telephonics V.32bis	