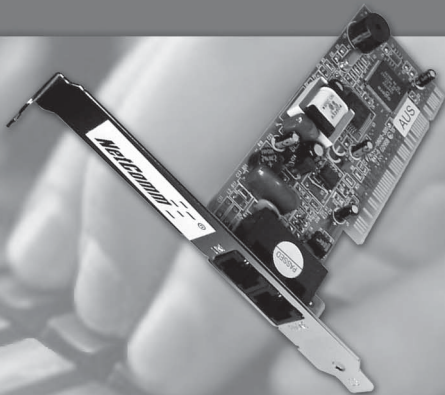


NetComm™

Data/Fax/Voice
Internal PCI Modem

56K V.92 Internal Modem (IN5920_1)



DATA/FAX/VOICE INTERNAL MODEM

Quick Start Guide

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Thank you for purchasing a genuine NetComm product.

Follow the steps in this Quick Start Guide to correctly install your 56K V.92 Internal Modem and begin data, fax and voice communications.

What's in the Box?

- NetComm 56K V.92 Internal Modem (IN5920_1)
- RJ-11 Telephone Cable
- Quick Start User Guide
- NetComm Driver CD

Your NetComm Driver CD contains all the drivers, manuals and software that you will need to fully utilise your NetComm 56K V.92 Internal Modem.

Your new 56K V.92 Internal Modem (IN5920_1):

- **Connects to the Internet faster** - The IN5920_1 cuts the time it takes to connect by 40% or more.
- **Uploads faster** - The IN5920_1 can upload at speeds of up to 48,000 bps.
- **Downloads faster** - The IN5920_1 uses new V.44 compression, which allows you greater throughput for viewing HTML pages on the Internet.
- **Receives and makes phone calls while connected to the Internet** - Available with a phone that has call waiting, the modem-on-hold feature of the IN5920_1 allows you to receive incoming calls and make outgoing calls while remaining connected to the Internet.

Note: *To fully utilise the V.92 capabilities of this modem, the user must ensure that their Telephone Service Provider (e.g.: Telstra or Optus or another provider) has installed and activated Call Waiting and Caller ID on your modem line. Additionally, your Internet Service Provider (ISP) must provide and support the full complement of V.92 features ie: PCM Up-Stream, V.44 compression, Quick Connect and Modem-On-Hold. If a V.92 connection is not available, this product will revert to a 56K V.90 mode.*

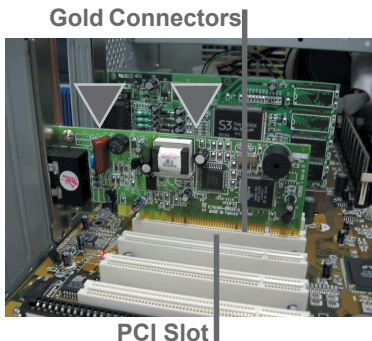
Step 1 - Hardware Installation

To install the NetComm IN5920_1 into your computer, you may wish to refer to the user's manual for your computer and follow the instructions below.

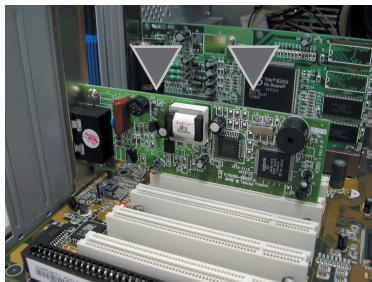
BEFORE YOU BEGIN:

This device should be fitted and installed under normal operation. Any damage caused by abnormal installation or operation is not included in the manufacturer's warranty.

- Ensure the computer is shut down correctly, with the power off and the power cable unplugged, before beginning installation of your IN5920_1.
- Take the cover off the PC/ Computer and carefully slip the modem into the appropriate vacant PCI slot. Ensure the golden edge of the modem card is correctly positioned so it easily fits into a PCI slot.



- Push the Modem card down firmly so it is seated all the way to the bottom of the PCI slot.
- Plug one end of the RJ-11 telephone cable (supplied with the modem) into the 'LINE' socket on the back plate of the modem. Plug the other end of the cable into the Wall socket. If you wish to run a normal telephone from the same line, plug your telephone into the 'PHONE' socket on the back plate of the modem.
- Reassemble your computer case. Connect the power cable and start your computer. The hardware installation is complete.



Line In Jack Socket



Telephone Extension Socket

WARNING: Avoid connecting your modem to a digital telephone line or PABX.

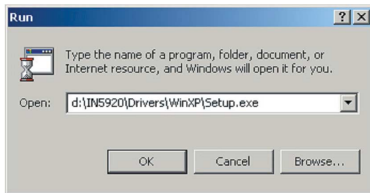
Step 2 - Software Installation

Windows® XP

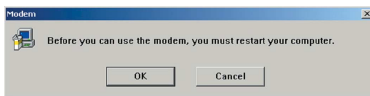
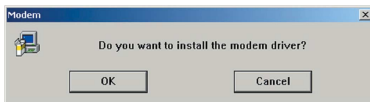
1. Once the modem is correctly installed, power on your computer. Windows will automatically detect your modem and prompt you for drivers, click on "Cancel".

Note: *Windows XP may have generic drivers that install automatically on start-up. If this is the case these drivers can be used, however if you wish to use the NetComm drivers, to take full advantage of the modem's advanced features, please follow these steps:*

2. Select "Start" and then "Run". Type in
D:\IN5920_1\Drivers\WinXP\Setup.exe
and click on "OK" to start the install process.

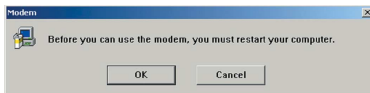
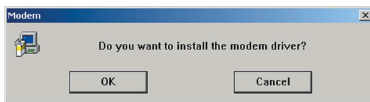
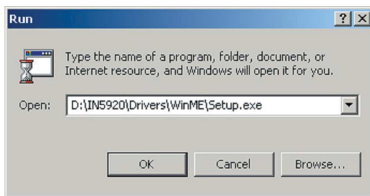


3. A message will be displayed saying "Do you want to install the modem driver?" click on "OK" to start the install.
4. Select "OK" when prompted to reboot your computer. This will complete the driver install process and reboot your computer. Select "Cancel" if you need to save any work before rebooting.
5. Once your computer has rebooted, your modem is installed and ready to use.



Windows® ME

1. Once the modem is correctly installed, power on your computer. Windows will automatically detect your modem and prompt you for drivers, click on "Cancel".
2. Select "Start" and then "Run". Type in "D:\IN5920_1\Drivers\WinME\Setup.exe" and click on "OK" to start the install process.
3. A message will be displayed saying "Do you want to install the modem driver?" click on "OK" to start the install.
4. Select "OK" when prompted to reboot your computer. This will complete the driver install process and reboot your computer.

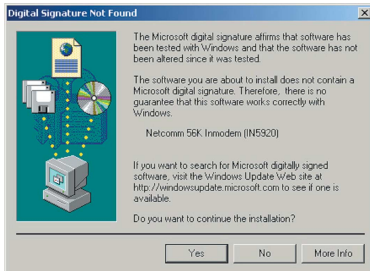
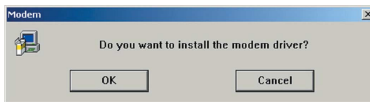
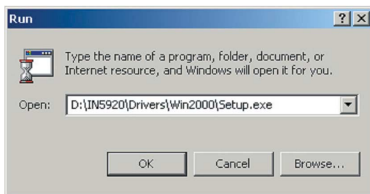


Select "Cancel" if you need to save any work before rebooting.

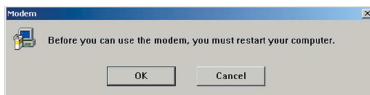
5. Once your computer has rebooted, your modem is installed and ready to use.

Windows® 2000

1. Once the modem is correctly installed, power on your PC. Windows will automatically detect your modem and prompt you for drivers, click on "Cancel".
2. Select "Start" and then "Run". Type in "D:\IN5920_1\Drivers\Win2000\Setup.exe" and click on "OK" to start the install process.
3. A message will be displayed saying "Do you want to install the modem driver?" click on "OK" to start the install.
4. Windows will now install the driver for your modem. During install you may be prompted with a "Digital Signature Not Found" error, please select "Yes" to complete the install.



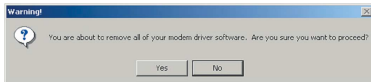
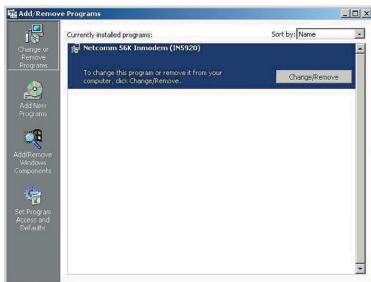
5. Select "Yes" when prompted to reboot your computer. This will complete the driver install process and reboot your computer. Select "No" if you need to save any work before rebooting.
6. Once your computer has rebooted, your modem is installed and ready to use.



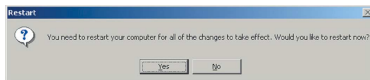
Driver removal process for IN5920_1

To remove the drivers for the IN5920_1 please follow these steps:

1. Click on "Start" then "Settings" and then "Control Panel" (Or simply "Start" then "Control Panel" for Windows XP).
2. Double click on "Add/Remove Programs" (Or "Add or Remove Programs" for Windows XP).
3. Select the "NetComm 56K Inmodem (IN5920_1)" and then click on "Add/Remove..." (Or "Change/Remove" under Windows 2000 and XP). A warning will be displayed warning of driver removal. Select "Yes" to continue with driver removal or "No" to abort the driver removal process.



4. Select "Yes" when prompted to reboot your computer. This will complete the driver removal process and reboot your computer (Modem will be redetected if it is still physically installed in your computer). Select "No" if you need to save any work before rebooting.



Step 3 - Software Installation

Now that you have installed your new NetComm modem and its drivers, you will need to install software to make your IN5920_1 a complete communications solution. Your NetComm Driver CD contains BitWare for Windows - Voice, Fax and Data software, Modem On Hold software, and Adobe Acrobat Reader to view the manuals included in the Manuals directory of the CD.

BitWare for Windows

To install your Facsimile, Answering Machine and Speakerphone software:

1. Go to the “Start” button in the right-bottom corner of the screen. Select “Run”.
2. Click on “Browse...” and go to “D:\Software\Bitware\disk1\setup.exe” where D:\ is the letter of your CD-ROM drive.
3. Click “OK” and the software installation screen will appear. Follow the screen instructions to install the software. A copy of the BitWare User Guide is available in Adobe Acrobat format in “D:\Manuals\Bitware” where D:\ is the letter of your CD-ROM drive.

Note: You will need to install Adobe Acrobat Reader software to view the software and modem manuals included in the Manuals directory.

Adobe Acrobat Reader

To install your Adobe Acrobat Reader software:

1. Go to the “Start” button in the right-bottom corner of the screen. Select “Run”.
2. Click on “Browse...” and go to “D:\Software\Acrobat\Win32\ar40eng.exe” where D:\ is the letter of your CD-ROM drive.

Note: *You will need to select the Linux, Win16 or Win32 directory depending on the Operating System you are using. For example, if your operating system Windows 2000/NT/ME/XP you will use the “Win32” version. If you are using Windows for Workgroups or Windows 3.X you will need to use the “Win16” version.*

3. Click “OK” and the software installation screen will appear. Follow the screen instructions to install the software. A copy of the Adobe Acrobat User Guide is available in “D:\Manuals\Acrobat” where D:\ is the letter of your CD-ROM drive.

Step 4 - Using the Modem On Hold (MOH) Application

Overview

This is an application that manages incoming/outgoing voice calls on a single phone line while being connected to the Internet.

It puts the Internet connection on hold and answers/ignores an incoming voice call or places an outgoing voice call and returns back to the Internet without losing the connection.

To use the full capability of V.92, the user needs a telephone line that supports the Call Waiting with Caller ID feature and an Internet Service Provider that supports V.92 connections. The application can disconnect the Internet call and accept the incoming voice call if the connection is not V.92. The application runs in the system tray on the desktop. It pops up and displays call events when they occur. It has options for configuration and to view a log of incoming calls.

Options Menu

Right-clicking the application icon in the system tray of the desktop displays the options menu. It presents the user with the following options:

V.92 Modem On Hold Settings.

Call History

☒ Start Automatically

Place Voice Call

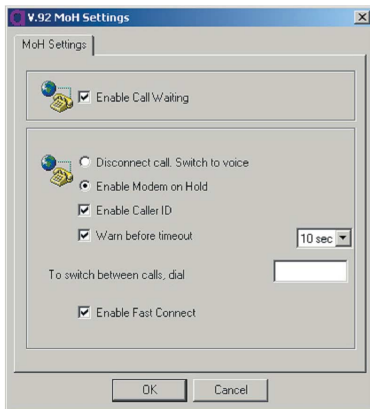
Help

About MOH

Exit MOH

V.92 Modem on Hold Settings

This option configures the application to customize call interactions. The default options are set to screen all incoming calls and display them with the Caller ID information for the call. The user can then decide to answer or ignore the call.



Enable Call Waiting

The user will be notified of incoming calls when this box is checked. Incoming calls are ignored if the box is not checked. No other options are accessible if the box is not checked. This option is checked by default.

Disconnect Call/Switch to Voice

The incoming call is answered and the Internet connection is disconnected automatically if this button is enabled. This button is disabled by default.

Enable Modem on Hold

The user is notified of incoming calls and can then decide to answer or ignore the call if this button is enabled. This button is enabled by default.

Enable Caller ID

Caller ID information for the incoming call is displayed if this box is checked. This option is checked by default.

Warn Before Timeout

A warning message is displayed before the Internet hold times out. This gives the user an early warning that the Internet connection will be disconnected if the voice call is not terminated. This option is enabled by default.

Warning Value

Time in seconds, when the warning message is displayed

To Switch Between Calls/Dial

This allows the user to specify digits to be dialed to switch the call from the Internet connection to the incoming voice call. These digits will also be used to switch the call back from voice to data. This feature is used for lines that require DTMF digits to be dialed after the hookflash to switch the call from voice to data and back.

The user can specify different digits for the call to be switched from the Internet call to voice and back if required. This feature is used for lines that require different DTMF digits to be dialed after the hookflash to switch the call from voice to data and back. The dial digits can be specified as one string delimited by a comma.

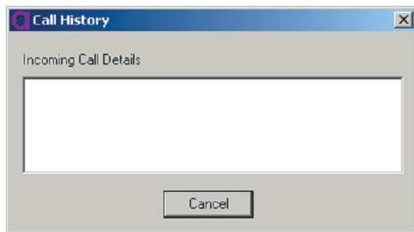
If the user needs to use a sequence of hookflash+1 to switch from data to voice and hookflash+2 to switch from voice to data, then the dial string will be entered as 1, 2.

Enable Fast Connect

The "Fast Connect" feature is enabled if this box is checked. This results in shorter connect times due to faster modem negotiation. The modem stores connection information from previous calls and uses it to shorten the time to connect in subsequent connections.

Call History

This option displays an incoming call log, showing the last ten incoming calls with date, time, number, and Caller ID. The Caller ID information will be available only if the phone-line supports the Caller ID on Call Waiting feature.



Start Automatically

When enable, this option launches the application automatically during Windows startup. This is the default configuration of the application. Turning off the option disables the automatic start.

Place Voice Call Feature.

This feature allows the user to place an outgoing voice call while connected to a V92 server. This requires the user to have a line with the three-way calling service. The user selects the "Place Voice Call" option. This puts the Internet connection on hold and gives the user the option to place a voice call or to go back to the Internet connection. After selecting voice call option, the user is prompted to pick up the local phone and to dial the voice call. When the voice call is complete the user switches back to the internet connection.

User Scenarios

Incoming Call when Connected to a V.92 Server

The call status window appears with the Caller ID information (if available). The user can answer or ignore the call and return to the Internet connection.

Answer

The call is switched from the Internet connection to the voice call. The user can talk to the calling party by using a local phone. The user can chose to resume the Internet connection when done with the voice call or continue talking on the voice call. The duration of the Internet hold is displayed on the call status window. Continuing the voice call after the Internet hold duration is over will cause the Internet connection to be disconnected.

Ignore

The Internet connection resumes after the Call Waiting signal ends. The Call Waiting signal may cause the modem to retrain or disconnect the call.

The call status window automatically goes away once the Internet connection resumes.

Incoming Call when Connected to a V.90 Server

The call status window appears with the Caller ID information (if available). V90 connections do not support the Modem on Hold feature so the user can disconnect the Internet call and answer the voice call.

Disconnect Call/Switch to Voice

The user can click the Disconnect button to disconnect the Internet connection. The local phone will then ring, and the user can pick up to answer the incoming call. When the call is finished, hang up the phone, and then use the modem to redial the Internet connection.

Place Voice Call

This option will work if connected to a V.92 server. The call status window will be displayed. The user is presented with the option to call or ignore the request and return to the Internet connection.

Call

The call is switched from the Internet connection to the voice call. The user can use a local phone to make an outgoing call. The user can choose to resume the Internet connection when done with the voice call or continue talking on the voice call. The duration of the Internet hold is displayed on the call status window. Continuing the voice call after the Internet hold duration is over will cause the Internet connection to be disconnected.

Ignore

The Internet connection is resumed.

The call status window will automatically go away once the Internet connection is resumed.

Step 5 - Registering your Modem

All NetComm Limited (“NetComm”) products have a standard 12 month warranty from date of purchase against defects in manufacturing and that the products will operate in accordance with the specifications outlined in the User Guide. However some products have an extended warranty option (please refer to packaging). To be eligible for the extended warranty you must supply the requested warranty information to NetComm within 30 days of the original purchase by registering on-line via the NetComm web site at:

www.netcomm.com.au

Contact Information

If you have any technical difficulties with your product, please do not hesitate to contact NetComm’s Customer Support Department.

Email: support@netcomm.com.au

Fax: (+612) 9424-2010

Web: www.netcomm.com.au

Appendix A - Cable Connections

This cable information is provided for your reference only. Please ensure you only connect the appropriate cable into the correct socket on either this product or your computer.

If you are unsure about which cable to use or which socket to connect it to, please refer to the hardware installation section in this manual. If you are still not sure about cable connections, please contact a professional computer technician or NetComm for further advice.

RJ11 connector and cable

An RJ-11 connector is the small, modular plug used for most analog telephones. It has six pin slots in the head, but usually only two or four of them are used.



RJ-11 Connector Pin Assignment	Normal Assignment
1	Signal Ground
2	CTS
3	RXD
4	TXD
5	+5 Volts In
6	Signal Ground

Figure 1

605 to RJ-11 adapter

The 605 to RJ-11 adaptor is provided to comply with the older 610 Telstra wall socket. The 605 to RJ-11 adapter may be used to convert the supplied RJ-11 cable, if the older connection is required.

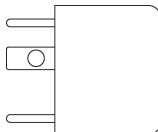


Figure 2

Appendix B - Product Warranty

The warranty is granted on the following conditions:

1. This warranty extends to the original purchaser (you) and is not transferable.
2. This warranty shall not apply to software programs, batteries, power supplies, cables or other accessories supplied in or with the product.
3. The customer complies with all of the terms of any relevant agreement with NetComm and any other reasonable requirements of NetComm including producing such evidence of purchase as NetComm may require.
4. The cost of transporting product to and from NetComm's nominated premises is your responsibility; and,
5. NetComm does not have any liability or responsibility under this warranty where any cost, loss, injury or damage of any kind, whether direct, indirect, consequential, incidental or otherwise arises out of events beyond NetComm's reasonable control. This includes but is not limited to: acts of God, war, riot, embargoes, acts of civil or military authorities, fire, floods, electricity outages, lightning, power surges, or shortages of materials or labor.

The warranty is automatically voided if:

1. You, or someone else, use the product, or attempts to use it, other than as specified by NetComm;
2. The fault or defect in your product is the result of a voltage surge subjected to the product either by the way of power supply or communication line, whether caused by thunderstorm activity or any other cause(s).
3. The fault is the result of accidental damage or damage in transit, including but not limited to liquid spillage;
4. Your product has been used for any purposes other than that for which it is sold, or in any way other than in strict accordance with the user manual supplied.
5. Your product has been repaired or modified or attempted to be repaired or modified, other than by a qualified person at a service center authorised by NetComm; and,
6. The serial number has been defaced or altered in any way or if the serial number plate has been removed.

Limitations of Warranty

The Trade Practices Act 1974 and corresponding State and Territory Fair Trading Acts or legalisations of another Government ("the relevant acts") in certain circumstances imply mandatory conditions and warranties, which cannot be excluded. This warranty is in addition to and not in replacement for such conditions and warranties.

To the extent permitted by the Relevant Acts, in relation to your product and any other materials provided with the product ("the Goods") the liability of NetComm under the Relevant Acts is limited to, at the option of NetComm to:

- Replacement of the Goods; or
- Repair of the Goods; or
- Payment of the cost of replacing the Goods; or
- Payment of the cost of having the Goods repaired.

All NetComm ACN 002 490 486 products have a standard 12 months warranty from date of purchase. However some products have an extended warranty option (refer to packaging). To be eligible for the extended warranty you must supply the requested warranty information to NetComm within 30 days of the original purchase by registering on-line via the NetComm web site at www.netcomm.com.au.

NetComm reserves the right to request proof of purchase upon any warranty claim.

Legal & Regulatory Information

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NetComm™

Data/Fax/Voice
Internal PCI Modem

56K V.92 Internal Modem (IN5920_1)

NetComm is Australia's dynamic data communications and networking solutions provider. For more information on this and other NetComm products, please visit www.netcomm.com.au

NetComm Ltd, ABN 85 002 490 486 • PO Box 1200, Lane Cove NSW 2066 Australia.

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Specifications are subject to change without notice. **Product Code: IN5920_1**

*... it has to be a ***NetComm***™*