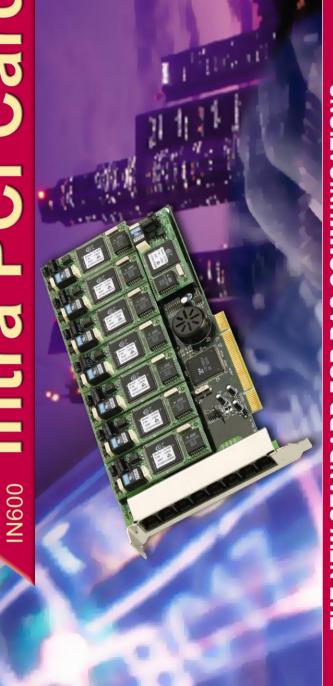


# Intra PCI Card



THE NEW STANDARD FOR RAS COMMUNICATIONS **User Guide** 



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#### NetComm's IN600 Intra PCI Card

#### Introduction

The Intra PCI card (IN600) is a modular design and comes in 4 variations, the Intra 2 (2 modems), Intra 4 (4 modems), Intra 6 (6 Modems) and the Intra 8 (8 modems).

Upon installation, 8 communications ports will be added to your system, no matter how many modems are loaded on the Intra PCI card.

A maximum of 4 Intra IN60x cards are supported in Windows 2000, XP and Linux. Only one Intra IN60x card is supported in Windows NT4.

#### **System Requirements**

- Intel x86
- Available PCI slot
- Windows NT4, 2000, XP or Linux (2.4 kernel or later)

#### **Package Contents**

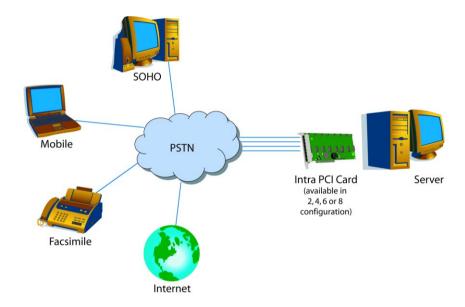
- One of the following Intra Cards:
  - SCINTRA600 Intra V.92 PCI Carrier Card
  - SCINTRA602 INTRA V.92-2 Modem PCI Card
  - SCINTRA604 INTRA v.92-4 Modem PCI Card
  - SCINTRA606 INTRA V.92-6 Modem PCI Card
  - SCINTRA608 INTRA V.92-8 Modem PCI Card
- User Guide
- Driver CD
- RJ11 Telephone Line Cord



#### Hardware Installation

#### **Installing the Intra PCI Card**

The Intra PCI Card comes in 4 variations, the Intra 2 (2 modems), Intra 4 (4 modems), Intra 6 (6 Modems) and the Intra 8 (8 modems). The Intra 2, Intra 4 and Intra 6 can be expanded by purchasing additional IG1000 modules. Refer to the section on Installing the IG1000 modules for instructions.



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

#### **BEFORE YOU BEGIN:**

This device should be fitted by a qualified technician and must be correctly handled to prevent static electrical damage. Any damage caused by abnormal installation or operation is not included in the manufacturer's warranty.



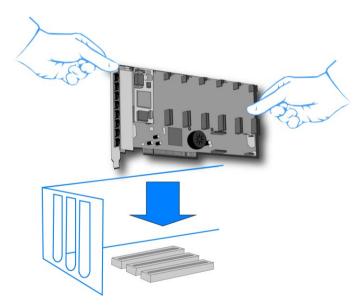
- 1. Ensure the computer is shut down correctly, with the power off and the power cable unplugged, before beginning installation of your Intra.
- 2. Take the cover off the Computer and remove the expansion slot cover from the backplane of the computer.

Note: Please check your computer's manual for instructions and cautions regarding the removal of covers or installation of add-in boards.

3. Carefully slip the Intra 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.

CAUTION: Full anti-static precautions should be taken when handling PCI cards.

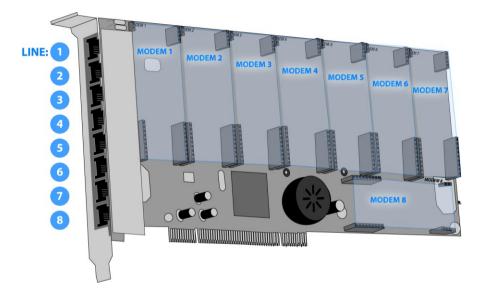
4. Push the Intra card down firmly so it is seated all the way to the bottom of the PCI slot and secure with a screw in the backplane.



- 5. Reassemble your computer case and connect the power cable.
- 6. Connect the telephone cords into the Modem's Line Sockets.



The line socket closest to the top of the card (i.e. the opposite side of the card to the gold pins that are inserted into the PCI slot on the motherboard) is the first modem. For example, if you have an Intra 2 you will have connect the upper 2 line sockets to the telephone points etc.



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

- 7. Connect the other end of the phone cords to telephone points, via the supplied adaptors (RJ11-605) if required.
- 8. Turn on your computer.
- 9. The hardware installation is complete. Proceed to the section appropriate for your operating system.



#### **Driver Installation**

#### Windows XP / Server 2003

- Please insert the supplied NetComm CD, and when the "Found New Hardware Wizard" recognizes the new "PCI Serial Port", select "Install from a list or specific location (Advanced)" and then click "Next>".
- Select "Search for the best driver in these locations" and choose "Include this location in the search:". Type in "D:\DRIVERS\IN60X\WINXP" (where d:\ is the letter of your CD ROM drive) and click on "Next>".
- 3. The Wizard will search for the correct driver. The drivers that Windows XP uses are not digitally signed by Microsoft and the message to the right will be displayed. Click "Continue Anyway".
- 4. Windows XP will now copy the required files.
- Once all files have been copied click "Finish" to complete the Multifunction portion of the Intra installation.



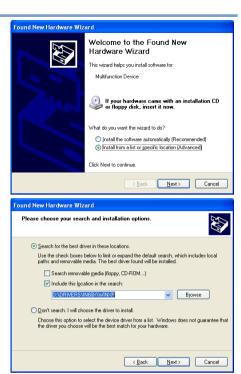






 The "Found New Hardware Wizard" will then be displayed again. Select "Install from a list or specified location (Advanced)" and click on "Next>".

- Select "Search for the best driver in these locations" and choose "Include this location in the search:". Type in "D:\DRIVERS\IN60X\WINXP" (where d:\ is the letter of your CD ROM drive) and click on "Next>".
- The Wizard will search for the correct driver. The drivers that Windows XP uses are not digitally signed by Microsoft and the message to the right will be displayed. Click "Continue Anyway".
- Windows XP will now copy the required files.
- Once all files have been copied click "Finish" to complete installation of the first Intra port.
- 11. Steps 6 10 above will be repeated 7 times to complete installation of the 8 communication ports.

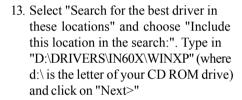




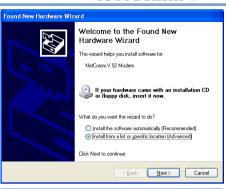


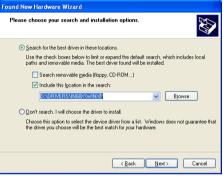


12. The "Found New Hardware Wizard" will then be displayed again. Select "Install from a list or specified location (Advanced)" and click on "Next>".



- 14. The Wizard will search for the correct driver. The drivers that Windows XP uses are not digitally signed by Microsoft and the message to the right will be displayed. Click "Continue Anyway".
- 15. Windows XP will now copy the required files.
- 16. Once all files have been copied click "Finish" to complete installation of the first Intra modem.
- 17. Steps 12 16, above will be repeated up to 7 times (7 times for the Intra 8, 5 times for the Intra 6, 3 times for the Intra 4 and once for the Intra 2) to complete installation of the modems.











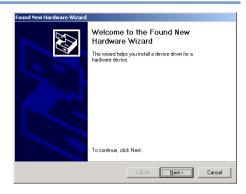
#### Windows 2000

 Please insert the supplied NetComm CD, and when the "Found New Hardware Wizard" starts. Click on "Next>".

Select "Search for a suitable driver for my device (recommended)" and click on "Next>"

3. Select "Specify a location" and click on Next>".

Enter the driver location
 "D:\DRIVERS\IN60X\WIN2K" (where
 D:\ is the drive letter of your CD ROM
 drive) and click on "OK".











- 5. Windows will locate the correct driver. Click on "Next>" to continue.
- 6. Windows 2000 will now copy the driver files

 Once the files have been copied click "Finish" to complete installation of the Multi Function portion of the NetComm Intra Modem.

The "Found New Hardware Wizard" will then be displayed again. Click on "Next>".

 Select "Search for a suitable driver for my device (recommended)" and click on "Next>".





10. Select "Specify a location" and click on Next>"



11. Enter the driver location "D:\DRIVERS\IN60X\WIN2K" (where D:\ is the drive letter of your CD ROM drive) and click on "OK"



- 12. Windows will locate the correct driver. Click on "Next>" to continue.
- 13. Windows 2000 will now copy the driver files.



- 14. Once the files have been copied click "Finish" to complete installation of the first communication port of the NetComm Intra Modem.
- Each subsequent port will be added automatically without your intervention.





 The "Found New Hardware Wizard" will then be displayed again. Click on "Next>".



 Select "Search for a suitable driver for my device (recommended)" and click on "Next>".



18. Select "Specify a location" and click on Next>"



19. Enter the driver location "D:\DRIVERS\IN60X\WIN2K" (where D:\ is the drive letter of your CD ROM drive) and click on "OK"





20. Windows will locate the correct driver. Click on "Next>" to continue.

- 21. The Wizard will search for the correct driver. The drivers that Windows 2000 uses are are not digitally signed by Microsoft and the message to the right will be displayed. Click "Yes" to
- 22. Windows 2000 will now copy the driver files.

continue.

- 23. Once the files have been copied click "Finish" to complete installation of the first Intra Modem.
- 24. Each subsequent modem will be automatically detected. As it is automatically added you may have to confirm that you wish to "continue the installation" as the drivers are not digitally signed by Microsoft. This will occur 7 times for an Intra 8, 5 times for an Intra 6, 3 times for an Intra 4 and once for an Intra 2.









#### Windows NT 4

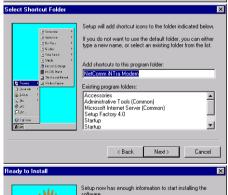
- 1. Start up the computer and log in as a user with Administrator privileges.
- Click on "Start" "Run" and type in "D:\DRIVERS\IN60X\WINNT\SETUPEXE" and click on OK to display the Welcome screen. Click on "Next>" to continue.
- 3. Confirm the installation directory and click on "Next>" to continue.

4. Confirm the Program Folder and click on "Next>" to continue.

5. Click on "Finish" to start copying the required files to your computer.







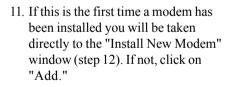




6. When setup is complete click on "Finish"

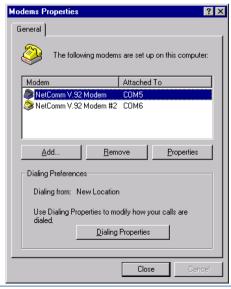


- 7. You will then be prompted to restart the computer to complete the installation. Click on "OK" to do so.
- 8. Once the computer has restarted log on as a user with Administrator privileges.
- 9. Open the Control Panel by clicking on "Start Settings Control Panel"
- 10. Double click on the "Modems" icon.





ÖK Cancel



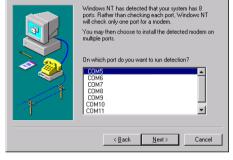


12. Confirm that "Don't detect my modem; I will select it from a list" is not selected and then click "Next" to continue



13. Select one of the Intra COM ports and click on "Next>".

The first Intra COM port is usually COM5 depending on the system configuration.



Install New Modem

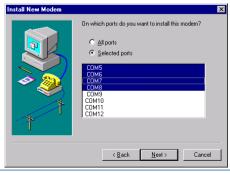
14. A "NetComm V.92 Modem" should be found on the COM port you selected. Click on "Next>"



15. Choose "Selected ports" and select the Intra ports (See NT 4

Troubleshooting if you do not know what ports the Intra has added to your system) that have modems installed and click on "Next>".

The example screen shows an Intra 4 configuration.





On a standard system (<4 COM ports before Intra installation) this will mean:

COM5 & 6 for an Intra 2

COM5-8 for an Intra 4

COM5-10 for an Intra 6

COM5-12 for an Intra 8

16. Click on "Finish" to complete the Intra Modem installation and configuration.

17. If RAS (Remote Access Service) is installed you will be prompted to configure Dial Up Networking because the list of installed modems has changed. Select "Yes" if you wish to do this







#### Linux

#### **System Requirement**

- Hardware platform: Intel x86
- Kernel version: 2.4.x
- gcc version 2.72 or later
- Maximum 4 boards can be installed in combination
- This driver has only been tested with Redhat version 7.1 and 8.0 and it is strongly recommended that the user do a complete install of all components to ensure that this driver works correctly.

The Linux driver is located on the supplied CD under the driver\in60x\linux directory.

This version of driver can be installed as Loadable Module (Module driver) or built-in into kernel (Static driver).

For full installation instructions please see the readme file located in this directory.

All the drivers and utilities are published in form of source code under GNU General Public License in this version. Please refer to GNU General Public License announcement in each source code file for more detail.



#### **Using your Intra PCI Card**

#### **AT Commands**

The following commands are listed for quick reference only.

Note: A full copy of the AT command set can be found in Adobe

Acrobat format at "D:\Manuals\ where D:\ is the letter of your

CD-ROM drive.

Where the following table shows an n, the n represents a numerical value. For example Mn can represent M1, M2 or M3, etc.

Command	Description
T	Dial using Tone (DTMF) method.
,	(comma) Pauses before continuing the dial string.
A	Enter answer mode, go off hook and attempt to answer call.
D	Enter originate mode, go off hook, and attempt to dial.
En	Character Echo: $0 = Do$ not echo, $1 =$ echo characters.
Hn	Hook-state: $0 = \text{Hang up}$ , $1 = \text{Go off hook (loop line)}$
Ln	Set speaker volume: where n is 0 or 1=low, 2=medium, 3=high
On	Go to on-line state from command state: $0 = \text{no retrain}$ , $1 = \text{retrain}$ .
Vn	Display result codes: $0 = as$ numbers, $1 = as$ words
Wn	Negotiation progress messages: 0= None, 1 = Return (display)
X3	Provide basic codes, connection speed and BUSY detection.
X4	Provides basic codes, connection speeds, DIALTONE, and BUSY.
Z	Reset.
<b>&amp;</b> F	Recall factory configuration.
&Kn	Flow control: 3= RTS/CTS, 4=XON/XOFF
$\Nn$	Error correction mode: $0 = \text{normal (off)}$ speed buffered mode.
%Cn	Data compression: 0 = Disabled.
S0=n	Set auto answer. Range $n = 0-255$ (Rings)



#### **Adobe Acrobat Reader**

Reference documentation is provided on the NetComm CD ROM in Adobe Acrobat format. 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.
- 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.



#### Upgrading your Intra with additional IG1000 Modules

#### Introduction to NetComm's IG1000 Modem Modules

NetComm's IG1000 Modules have been incorporated into the Intra600 product strategy to deliver flexability and povide greater reliability by allowing additional modules to be added for port expansion or replaced in the event of a failure.

The IG1000 module incorporates the latest Connexant V.92 Modem Technology and delivers the following features:

#### **Key Specifications**

- ITU-T V.92 with PCM upstream rates up to 48 kbps, QuickConnect, and Modem-onhold functions
- V.90, V.34, V.32bis, V.32, V.22 bis, V.22, V.23, and V.21; Bell 212A and Bell 103
- MNP 10EC<sup>TM</sup> enhanced cellular performance
- V.250 and V.251 commands
- V 22 bis fast connect.
- Data compression and error correction
- V.44 data compression for optimal downloading of Internet Web pages and files
- V.42 bis and MNP 5 data compression
- V.42 LAPM and MNP 2-4 error correction
- Fax modem
- V.17, V.29, V.27 ter, and V.21 channel 2
- EIA/TIA 578 Class 1 and T.31 Class 1.0 commands, Class 2.
- V.80 synchronous access mode supports host-controlled communication protocols with H.324 interface support
- Upgradeable Flash ROM
- Data/Fax/Voice call discrimination
- Hardware-based modem controller and digital signal processor (DSP)
- Worldwide operation
- Call progress, blacklisting



- External flash ROM includes default values for 29 countries
- Distinctive ring detect
- Caller ID detect
- On-hook Caller ID detection
- Off-hook Call Waiting Caller ID detection during data mode in V.92, V.90, V.34
   V.32bis. or V.32
- Telephony/TAM
- V.253 commands
- 2-bit and 4-bit Conexant ADPCM, 8-bit linear PCM, and 4-bit IMAcoding
- 8 kHz sample rate
- Concurrent DTMF, ring, and Caller ID detection
- Built-in host/DTE interface with speeds up to 230.4 kbps
- Direct mode
- Flow control and speed buffering.
- Automatic format/speed sensing.
- Extensive AT command set
- Designed in Australia
- Local Support
- Local and International Approvals: A-Tick, CB Certified, EN 55022 Class B, FCC Part 15 Class B



#### **Installing additional IG1000 Modules**

This section is provided to install additional IG1000 modules to your iNtra card. The Intra PCI Card comes in 4 variations, the Intra 2 (2 modems), Intra 4 (4 modems), Intra 6 (6 Modems) and the Intra 8 (8 modems). The Intra2, Intra4 and Intra6 can be expanded by purchasing additional IG1000 modules.

- SCINTRA602 INTRA V.92-2 Modem PCI Card
- SCINTRA604 INTRA v.92-4 Modem PCI Card
- SCINTRA606 INTRA V.92-6 Modem PCI Card
- SCINTRA608 INTRA V 92-8 Modem PCI Card



#### **BEFORE YOU BEGIN:**

This device should be fitted by a qualified technician and must be correctly handled to prevent static electrical damage. Any damage caused by abnormal installation or operation is not included in the manufacturer's warranty.

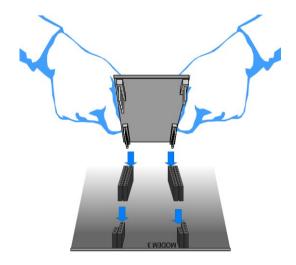
- 1. Ensure the computer is shut down correctly, with the power off and the power cable unplugged, before remvoing your Intra.
- 2. Take the cover off the Computer and remove the screw holding the Intra PCI Card to the backplane of the computer.

Note:

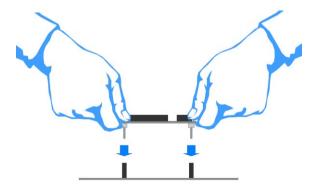
Please check your computer's manual for instructions and cautions regarding the removal of covers or installation of add-in boards.



- 3. Carefully remove the Intra from the computer, being carefull not to touch the circuit tracks or components, and place on a flat and Anti-Static surface.
- 4. Holding the the IG1000 module by its edges, carefully line up the pins with the sockets, see figure below.



5. Push the module down squarely with your thumbs with an even pressure so that the module seats correctly.

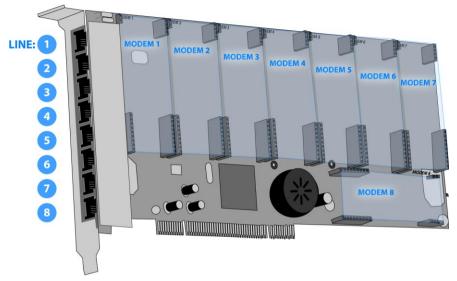


- 6. Visually inspect the placement of the module to ensure that it has been correctly alligned before proceeding any further.
- 7. Repeat steps 4,5 & 6 to install additional IG1000 modules to your Intra Card.



Note:

Your IG1000 modules must be added in the correct sequence. ie: 1 to 8, with no banks missed. We suggest you use the next available bank when adding modules as this also corresponds to the line ports located on the back plate.



- 8. Return the Intra card to its PCI slot in the computer and ensuring it is seated all the way to the bottom of the PCI slot and secure it with a screw in the backplane.
- 9. Reassemble your computer case and connect the power cable.
- 10. Connect the telephone cords into the Modem's Line Sockets.

The line socket closest to the top of the card (i.e. the opposite side of the card to the gold pins that are inserted into the PCI slot on the motherboard) is the first modem. For example, if you have an Intra 2 you will have connect the upper 2 line sockets to the telephone points etc.

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

- 11. Connect the other end of the phone cords to telephone points.
- 12. Turn on your computer.
- 13. The hardware installation is complete. During the initial installation of the Intra PCI Card, 8 communications ports were added to your system, no matter how many modules were loaded on the card. To install the additional modems refer to the following section for your operating system.



#### **Reconfiguring your Operating System**

- after installation of additional IG1000 modem modules

#### Windows XP

- The "Found New Hardware Wizard" will then be displayed again. Select "Install from a list or specified location (Advanced)" and click on "Next>".
- Select "Search for the best driver in these locations" and choose "Include this location in the search:". Type in "D:\DRIVERS\IN60X\WINXP" (where d:\ is the letter of your CD ROM drive) and click on "Next>"
- The Wizard will search for the correct driver. The drivers that Windows XP uses are not digitally signed by Microsoft and the message to the right will be displayed. Click "Continue Anyway".
- Windows XP will now copy the required files.
- Once all files have been copied click "Finish" to complete installation of the first mdoem.
- 6. Steps 1 5, above will be repeated for each new modem installed.











#### Windows 2000

The additional modems will be automatically detected. As it is automatically added you may have to confirm that you wish to "continue the installation" as the drivers are not digitally signed by Microsoft. This will occur for each additional IG1000 modem module installed.

#### Windows NT 4.0

Go to point 8 of the Software Installation section for Windows NT 4.0 and follow the instructions to install additional modems.



#### **FAQ** and **Troubleshooting**

#### Windows NT 4

#### Q. How do I tell what COM ports the Intra PCI Card has added to the computer?

A. On a normal system with less than 4 COM ports the Intra will normally add COM ports 5-12. To confirm this go to "Control Panel - Ports" and check what ports are listed. Click "cancel" on the Ports Window. Next, go to "Control Panel - Devices", scroll down to the "ser15x" device and click on Stop (If RAS or another service is using the COM ports and modems stop this prior to stopping the ser15x service). Now go back to "Control Panel - Ports" and you will find that all the Intra ports have been removed.

#### Q. How do I uninstall the Intra PCI Card?

A. Stop or close any program or service (e.g. RAS, Zetafax etc) that is using the modems. Click on "Start - Programs - NetComm Intra Modem" and select "Remove NetComm Intra Modem". This will remove the system files (ser15x.sys and ncl0304.inf) and the registry entries associated with the Intra PCI card. To remove the modems go to "Control Panel - Modems" and remove each of the "NetComm V.92 Modems" associated with the Intra PCI Card



#### Windows 2000, XP & Server 2003

#### Q. Why don't the modem and COM port numbers correlate?

A. Due to the way in which Windows 2000, XP & Server 2003 enumerate PnP devices, they are detected in reverse order. E.G. If one Intra card is installed, the first "NetComm V.92 Modem" is usually listed as being connected to NetComm Intra port (COM3). In this case COM3 is a logical port number that doesn't correlate with the physical port numbers that applications, such as Hyperterminal, Dial Up Networking and Routing and Remote Access use.

#### Q. How do I determine which "NetComm V.92 Modem" correlates with which line socket?

A. The first Intra card usually installs as NetComm Intra Port (COM3 - COM10). The actual port numbers (as seen by any communications applications) are COM5 - COM12.

To confirm what ports your system has configured, click on "Start - Run" and type "cmd" into the "Open" box and click on OK. Once at the Command prompt type "Mode" and press enter to display the ports and their status.

Table 1. Example of an Intra 8 installed under Windows 2000/XP/Server 2003.

Modem# (As per line sockets)	iNTra port#	COM port# (as addressed by applications)	Modem#
Modem 1	Com 10	Com 5	Modem #8
Modem 2	Com 9	Com 6	Modem #7
Modem 3	Com 8	Com 7	Modem #6
Modem 4	Com 7	Com 8	Modem #5
Modem 5	Com 6	Com 9	Modem #4
Modem 6	Com 5	Com 10	Modem #3
Modem 7	Com4	Com 11	Modem #2
Modem 8	Com 3	Com 12	Modem#1



#### Table 2. Example of an Intra 4 under Windows 2000/XP/Server 2003

Modem# (As per line sockets)	iNTra port#	COM port# (as addressed by applications)	Modem#
Modem 1	Com 10	Com 5	Modem #4
Modem 2	Com 9	Com 6	Modem #3
Modem 3	Com 8	Com 7	Modem #2
Modem 4	Com 7	Com 8	Modem #1
Modem 5	Com 6	Com 9	
Modem 6	Com 5	Com 10	
Modem 7	Com4	Com 11	
Modem 8	Com3	Com 12	



#### Registering your NetComm Product

To ensure that the conditions of your warranty are complied with, please go to the NetComm web site for quick and easy registration of your product at

#### www.netcomm.com.au

Alternatively, you can complete the following copy of the Warranty Registration Form and mail it to NetComm Limited, PO Box 1200, Lane Cove NSW 2066.

#### **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:** (02) 9424-2010

Web: www.netcomm.com.au

#### **Trademarks and Notices**

NetComm<sup>TM</sup> is a trademark of NetComm Limited. Windows® is a registered trademark of Microsoft Corporation. Other brand and product names are trademarks or registered trademarks of their respective holders. Information is subject to change without notice. All rights reserved.

Please note that the images used in this document may vary slightly from those of the actual product. Specifications are accurate at the time of the preparation of this document but are subject to change without notice.



#### **Warranty Registration Form** Date of Purchase Name Company Address Post Code ..... Tel No ( ) ...... Fax No ( ) ..... E-mail The following information is vital for your warranty Please make sure it's correct and complete. Serial No. Model Product Type: Make sure you fill this PC Card External section in! Internal Other Lintend to use this modem at: Home School/College/University Business Government Office Dealer's Name Dealer's Address ..... Post Code ..... Tel No ( ) ...... Fax No ( ) How did you find out about our products?



#### **Product Warranty**

The warranty is granted on the following conditions:

- 1. This warranty extends to the original purchaser (you) and is not transferable;
- This warranty shall not apply to software programs, batteries, power supplies, cables or other accessories supplied in or with the product;
- 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;
- 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 labour.
- The customer is responsible for the security of their computer and network at all times. Security features may be disabled within the factory default settings. NetComm recommends that you enable these features to enhance your security.

The warranty is automatically voided if:

- You, or someone else, use the product, or attempts to use it, other than as specified by NetComm;
- 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;

- 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;
- Your product has been repaired or modified or attempted to be repaired or modified, other than by a qualified person at a service centre authorised by NetComm; and.
- 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 legalisation 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 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.



# Intra PCI Card

# THE NEW STANDARD FOR RAS COMMUNICATIONS

### Up to 8 internal modems

situations using conventional serial ports and poor throughput that is so often the case under high load Efficient handling of the ports eliminates the data corruption errors throughput while placing minimum load on your server's processor on a card. Onboard dedicated acceleration hardware gives the highes: INTRA PCI is far more than just a bank of modems plugged together

### High Performance

seamless connection enabling remote users to interact online with remote access software, the INTRA PCI card provides a secure and outside world via multiple phone lines. Combined with off the shelf you by remote login, by file transfer or by remote network connection The INTRA PCI card connects your office computer or network to the

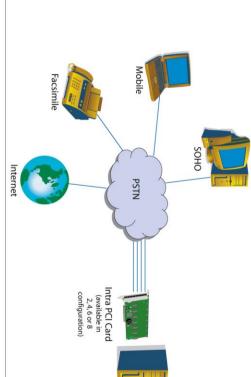
### Integrity Assured

communications across your LAN to a communications black box your network or server by broadcasting all your remote With the INTRA PCI, there is no need to compromise the security of your server's firewall. There's no need for exposure to proprietary solutions that put holes in

protection you need environment. This integrity ensures from the start you have all the The INTRA is fully integrated with your server operating system

#### Easy to Install

connect your computer and network directly to the phone lines - no external modems or network devices to go wrong. You just simply communications software. There are no messy cables, no stacks of designed to ensure it functions with the full range of third party standard procedures and installation wizards. INTRA PCI has been jumpers to set. It simply installs using your operating system's The INTRA PCI is PCI plug and play compliant. There are no switches or



Server

# 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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## **3 YEAR WARRANTY**

Conditional upon registration online registration at www.netcomm.com.au Extra 2 years FREE with online 1 year warranty out of the box.