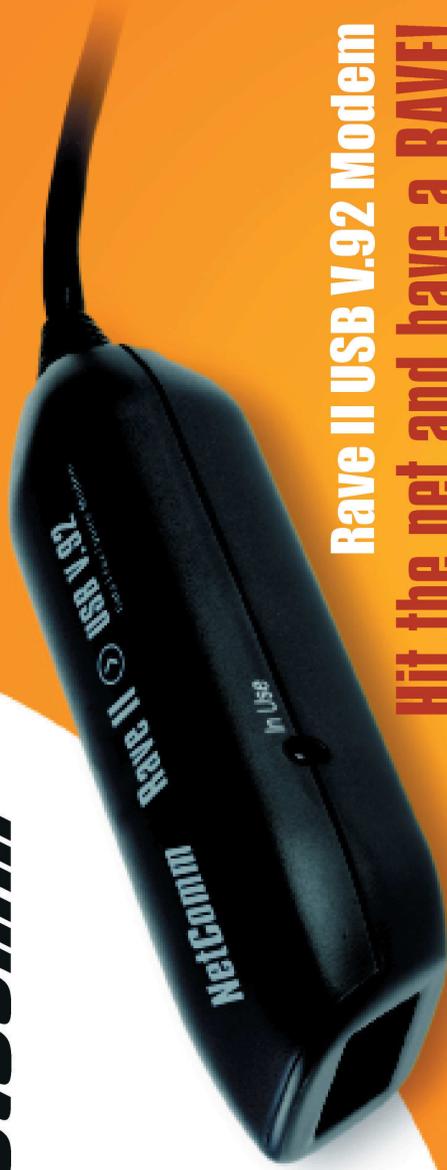


NetComm™

AM5065 > USB V.92 Data / Fax / Voice Modem



Rave II USB V.92 Modem Hit the net and have a RAVE!

Don't hang back! Jump online at V.92 with this simple, Plug & Play USB modem

- > Now with V.92 for the fastest connections and auto fallback for full compatibility
- > Bus Powered – no external power supply needed
- > USB hot swappable Plug & Play for easy installation
- > Automatic detection between data and fax calls

Quick Start Guide

Contents

Introduction	3
Minimum System Requirements	3
Package Contents	4
Step 1: Connecting the Modem to Your Computer	5
Step 2: Installing Your Modem Driver	6
2.1 Installing Your Modem Driver - For Windows® 98 SE	6
2.2 Installing Your Modem Driver - For Windows® 2000	7
2.3 Installing Your Modem Driver - For Windows® Me	8
2.4 Installing Your Modem Driver - For Windows® XP	9
Step 3: Using the Rave II 56K USB Modem	11
Software included with your modem	11
Specifications	12
Key Features	12
Chipset Solutions	12
Data Mode Features	12
Data Modem Standards	12
Data Compression	12
Error Correction	12
Fax Modulation	12
Fax Control / Protocol	12
USB Features	12
Driver Support	12
Connector On-Board	12
Appendix A: Cable Connections	13
RJ11 connector and cable	13
605 to RJ-11 adapter	13
USB cable	13
Appendix B: Registering your NetComm Product	14
Contact Information	14
Legal & Regulatory Information	14
Customer Information	14
Product Warranty	15

Introduction

Hassle-free installation for instant fastspeed connection, the NetComm Rave II 56K USB modem delivers unparalleled high speed, reliable performance and guarantees uninterrupted 56K connections. Powered packed with advanced features, it satisfies all your communication and telephony requirements. Installed in seconds, you do not require any external power supply and it offers USB Plug & Play installation.

- Bus Powered. Does not requires any external power supply
- USB Hot Swappable Plug & Play installation
- Compact design for all notebooks and desktops.

Minimum System Requirements

- Pentium® MMX 233MHz
- A free USB Port
- A CD-ROM Drive
- 32MB RAM for Windows® 98 Second Edition
64MB RAM for Windows® Me
128MB RAM for Windows® 2000 / Windows® XP
- Host Operating Systems support for USB:

Windows® 98 Second Edition / Windows® 2000 / Windows® Me / Windows® XP

Package Contents

The following items should be contained in your Rave II 56K USB Modem Package:

- Rave II 56K USB Modem (5V DC 100mA)



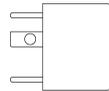
- Drivers, Manuals and Bitware utility software



- Telephone extension cable



- 605 to RJ11 adapter



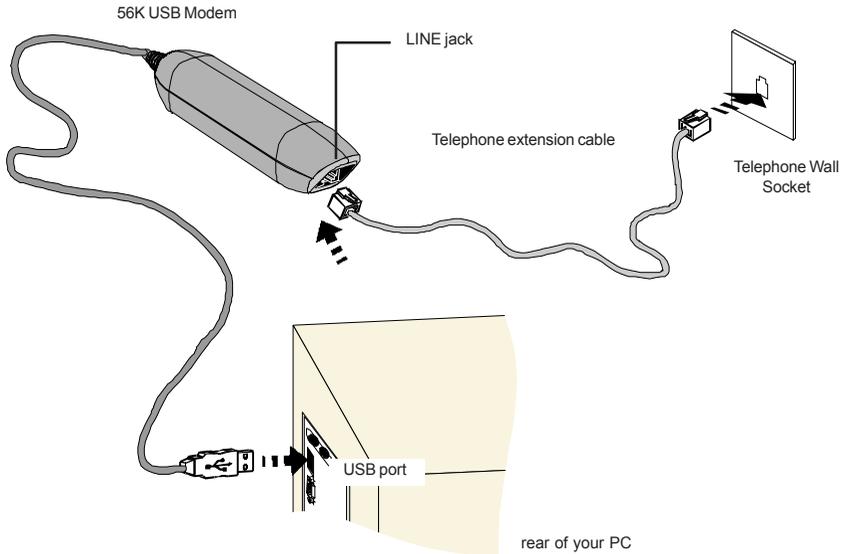
- This Quick Install Guide and a Package Contents Note



Check the contents of your package and, if any parts are missing or damaged, please contact your Dealer.

Step 1: Connecting the Modem to Your Computer

The 56K USB Modem is a 'plug-n-play' device. You may connect your modem to your computer anytime without having to power down your system. Connect as follows and your Operating System will automatically detect the new hardware and prompt you for its driver.



- Connect one end of the telephone extension cable to the LINE jack on Modem and the other end to your Telephone Wall Socket.
- Connect the USB cable  of the Modem to the USB port on your computer.

This completes the modem connections. Please proceed to Step 2.

Step 2: Installing Your Modem Driver

2.1 Installing Your Modem Driver - For Windows® 98 SE

1. Windows will detect that the Rave 56 USB has been connected and display the Add New Hardware Wizard. Click on Next.
2. Insert the NetComm Communications CD into your CD-ROM drive.
3. Select “Search for the best driver for your device. (Recommended)” and click on Next.



4. Select "Specify a Location" from the Add New Hardware window and type in D:\Drivers\AM5065\WIN98, then click on Next.



5. Windows will search and find the driver files on the CD-ROM. Click on Next to copy the required system files to your computer.



6. Click on Finish to complete this portion of the installation. Windows will then automatically install the modem and voice modem wave devices.



7. When the Modem Country Selection window is displayed select the country you are using the modem in and click OK to finalise your installation.

2.2 Installing Your Modem Driver - For Windows® 2000

The Windows 2000 drivers are located in d:\drivers\am5065\Win2000 (where d: is the drive letter of your CD-ROM drive). The installation procedure is similar to that of Windows 98 & Me. If you need detailed instructions for Windows 2000 installation please visit the support section of www.netcomm.com.au.

2.3 Installing Your Modem Driver - For Windows® Me

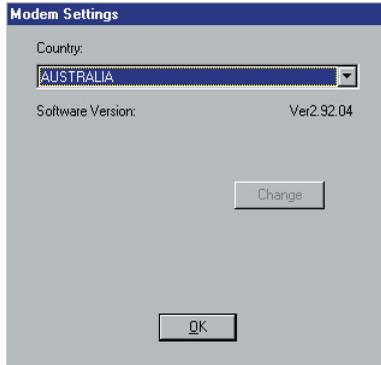
1. Start your PC and make sure your USB modem is connected. Windows will detect your new modem and display a New Hardware found screen.
2. Insert the NetComm Communications CD into your CD-ROM drive.
3. Windows will display the "Add New Hardware Wizard", select "Specify the location of the driver (Advanced)" and click on Next.



4. Select "Specify a location" and type D:\Drivers\AM5065\WinMe into the dialog box and click on the Next button.



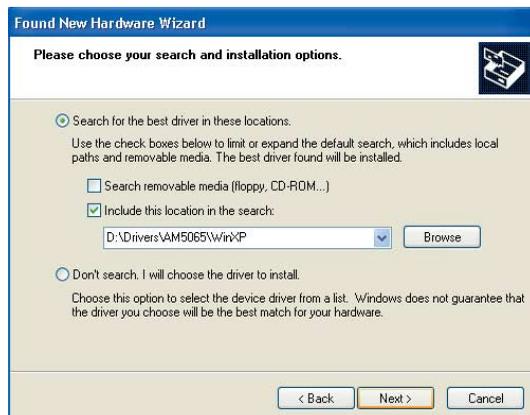
5. Click on Finish button to complete this portion of the installation. Windows will then automatically install the modem and voice modem wave devices.



6. When the Modem Country Selection window is displayed, select the country you are using the modem in and click OK.

2.4 Installing Your Modem Driver - For Windows® XP

1. Please ensure that you have correctly installed Windows XP and your system is operating correctly. Make sure that you have connected the NetComm Rave USB modem to your PC as detailed Step 1. XP will automatically detect the new hardware and you will see this first screen. Please select the "Install from a list or specific location [Advanced]" and then click "Next" to continue.
2. You will be presented with the below screen, select the "Include this location in the search:" and then type in the following location into the dialog box "D:\Drivers\AM5065\WinXP" where D:\ is the drive letter of your CD-Rom drive. Click "Next" to continue.



- The windows drivers used are not digitally signed by Microsoft and the following message will be displayed, click "Continue Anyway" to proceed.



- Windows XP will continue to install the NetComm driver and display the below message when finished, please click "Finish" to proceed.



- Windows XP has now finished the Installation of your new NetComm Rave USB Modem, to finalise the installation, please click "Yes" to restart computer.

Step 3: Using the Rave II 56K USB Modem

In most cases the modem will be used via the standard Windows interface. All that you will have to do is select the modem from the Windows application (Dial Up Networking, Hyperterminal, etc) that needs to use the modem.

Software included with your modem.

- Send and receive faxes directly from your PC with Fax and Voice Software.
- Read manuals with Adobe Acrobat 4 Reader.

Specifications

Key Features

- USB Interface 1.1
- ITU-T V.92* Data/Fax modem
- Quick Connect, Modem-on-Hold ** and 48Kbps PCM upstream supported for ITU-T V.92
- Automatic detection between data/fax calls
- Line quality monitoring and re-train
- Enhanced ADPCM/PCM voice operation with concurrent DTMF detection
- Surge Protection Circuitry

Chipset Solutions

- Based on ST Microelectronics Pegasus Discrete DAA chipset configuration

Data Mode Features

- 56Kbps Internet connectivity via ITU V.90, V.92 standard
- DTE rate of up to 460,800 bps (via Virtual UART)

Data Modem Standards

- V.92, V.90 : 56Kbps
- V.34bis : 33.6Kbps
- V.34 : 28.8Kbps
- V32bis : 14.4Kbps
- V.32, V.23, V.22bis, V.22, V.21
- Bell 212A, Bell 103

Data Compression

- V.44, V.42bis, MNP 5

Error Correction

- V.42 LAPM, MNP 2-4

Fax Modulation

- V.17 : 14.4Kbps
- V.29 : 9,600bps
- V.27ter : 4,800bps

Fax Control / Protocol

- Class 1.0 commands, V.21 channel 2
- Group 3 fax mode

USB Features

- Complies with USB Specifications rev1.1
- Complies with USB COM Class rev 1.1
- Complies with USB Data Class rev 1.1
- Supports Suspend/Resume
- Bus Powered, does not require external power supply
- OnNow Power Management (D0, D2, D3)

Driver Support

- Windows® 98SE
- Windows® 2000
- Windows® Millennium
- Windows® XP

Connector On-Board

- 1 x USB Series A Cable
- 1 x RJ11 telephone sockets for Phone

Note: * V.92 feature is subjected to ISP support
** Requires software application support

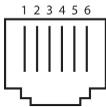
Appendix A: Cable Connections

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

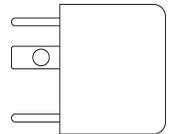
An RJ-11 connector is the small, modular plug used for most analog telephones. It has six pin slots in the head, but usually only two or four of them are used.



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

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 adaptor may be used to convert the supplied RJ-11 cable, if the older connection is required.



USB cable

A typical USB cord has an "A" connection ("upstream" to plug into the computer) and a "B" connection ("downstream" to plug into the device).



By using different connectors on the upstream and downstream ends, cable connection is simplified. The "B" connection will fit into the "B" socket of any USB device. Similarly, any "A" connector can be plugged into any "A" socket, such as on a computer.

If it is a new device, the operating system auto-detects it and asks for the driver disk. If the device has already been installed, the computer activates it and starts talking to it. USB devices can be connected and disconnected at any time.

Appendix B: Registering your NetComm Product

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

Legal & Regulatory Information

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NetComm Limited reserves the right to change the specifications and operating details of this product without notice.

NetComm is a registered trademark of NetComm Limited.

All other trademarks are acknowledged the property of their respective owners.

Customer Information

ACA (Australian Communications Authority) requires you to be aware of the following information and warnings:

- (1) This unit shall be connected to the Telecommunication Network through a line cord which meets the requirements of the ACA TS008 Standard.
- (2) This equipment has been tested and found to comply with the Standards for C-Tick and or A-Tick as set by the ACA. These standards are designed to provide reasonable protection against harmful interference in a residential installation.

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 labour.
6. 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:

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 centre 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 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.

NetComm™

AM5065  USB V.92 Data / Fax / Voice Modem



Rave II USB V.92 Modem

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

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