802MR

User's Manual

1. Wireless LAN Basics

Wireless LAN (Local Area Networks) systems offer a great number of advantages over a traditional, wired system. Wireless LANs (WLANs) are more flexible, easier to setup and manage and often more cost effective than their wired equivalence. Using radio frequency (RF) technology. WLANs transmit and receive data over the air, minimizing the need for wired connections. Thus, WLANs combine data connectivity with user mobility, and, through simplified configuration, enable movable LANs. With wireless LANs, users can access shared information without looking for a place to plug in and network managers can set up or augment networks without installing or moving wires. Wireless LANs offer the following productivity, convenience and cost advantages over traditional wired networks.●

● Mobility – Wireless LAN systems can provide LAN users with access to real-time information anywhere in their organization. This mobility supports productivity and service opportunities not possible with wired networks.

● Installation Speed and Simplicity – Installing a wireless LAN system can be fast and easy and can eliminate the need to pull cable through walls and ceilings.

● Installation Flexibility – wireless technology allows the network to go where wires cannot go.

● Reduced Cost-of-Ownership – While the initial investment required for wireless LAN hardware might be higher than the cost of wired LAN hardware, overall installation expenses and lifecycle costs will be significantly lower. Long- term cost benefits are greatest in dynamic environments requiring frequent moves, adds, and changes.

● Scalability – Wireless LAN systems can be configured in a variety of topologies to meet the needs of specific applications and installations. Configurations are easily changed and range from peer-to-peer networks suitable for a small number of users to full infrastructure networks of thousands of users that allows roaming over a broad area.

2. Installation and Overview

Here are some steps you will perform in establishing your wireless network connection:

- Install Access Point at first. AP is needed in case of Infrastructure network mode.
- Install software using the Installation Disktette.
- Install network protocol(s) required to communicate on your network. Most likely you will need the TCP/IP protocol

Here are some steps you will perform in installing your driver for AC97 Soft Modem.
- Install driver using the Installation Diskette

3. Installation Procedure of 802.11b WLAN MiniPCI Card

1. Insert the card into MiniPCI Slot.
2. Power on your computer and allow Windows to load fully.
3. The Windows will detect your Mini-PCI card and show the following screen.
   Please click Next

4. Select Search for the best driver for your device. (Recommended).
   And click Next

5. Insert the given Installation Diskette and select Specify a location to find out
    your driver location.
    Click Next to run setup.


6. Click Finished. The installation process are completely.

7. Click Yes to restart your computer.

8. Check for the 802.11b WLAN MiniPCI Card by right clicking on My Computer using the mouse.   Select the Device manager and then Network Adapters.   If you find the sign on the adapter, it shows the installation is not successful. If not, it means your setup is successfully.

## 3.1 Install network protocol(s) required to communicate on your network

9. Right click on the Network Neighborhood using the mouse.
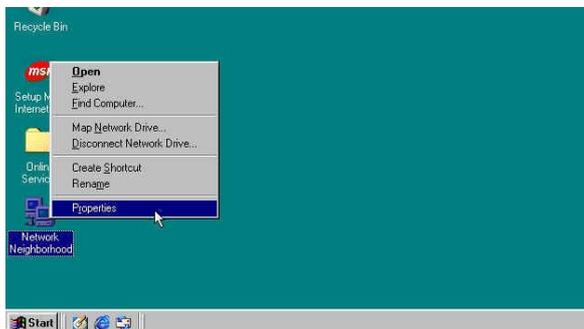
10. Select Properties from the pop up menu.   The **network** box appears and you see the three main tables: **Configuration**, **Identification** and **Access control**.

11. Click on the Configuration tab and then click on the Add button. Select Network component Type Box appears.   Click on the Protocol then click the Add Button
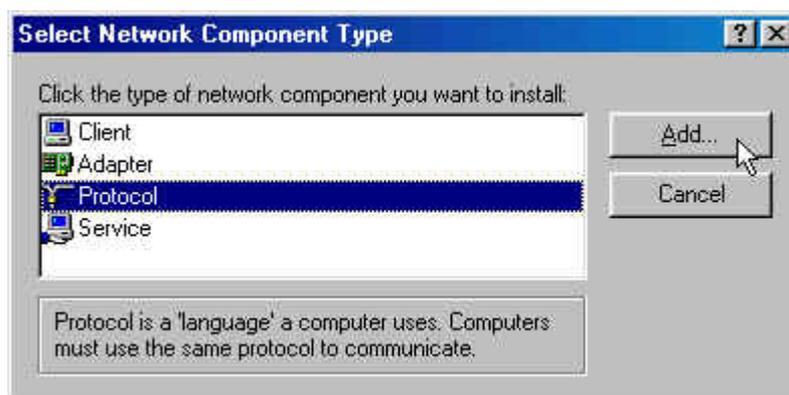
12. Select Network Protocols box appears.   From the list of manufactures, Click on Microsoft.   From the list of network protocols list, select NetBEUI, then click OK
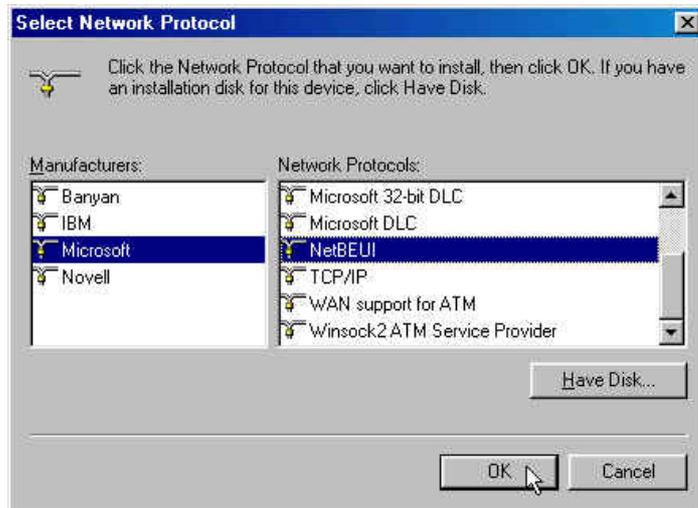

13. The NetBEUI protocol is now installed. After clicking on OK return back to Network Component Type box.

14. Repeat the Step 10 and 11 to add IPX/SPX protocol.

15. Repeat the step 10 and 11 to add TCP/IP protocol.

16. Click on TCP/IP option for setting the IP address for your computer. You can
    select either Static or DHCP setting. If you use the static IP setup then enter the IP
    value, Subnet masking, DNS, Domain/Workgroup name, and Gateway address
    values.   After setting these parameter appropriately, click OK to return to
    Network component type.
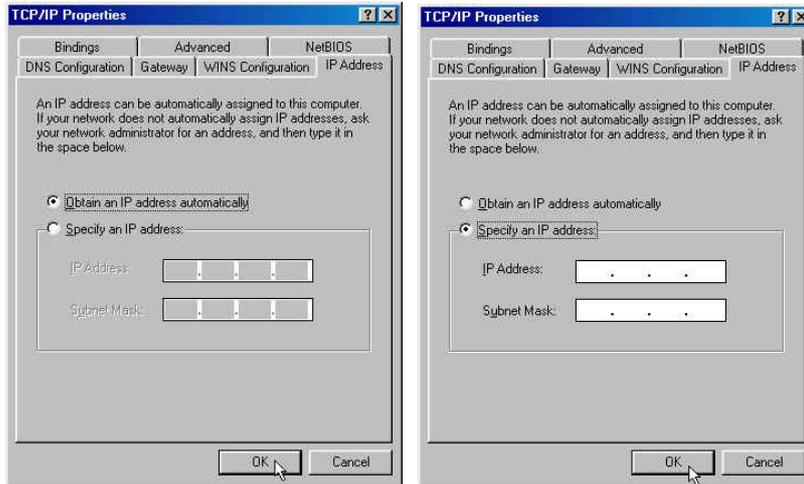
17. Now you can select the File and Printer Sharing options as well as the Access to
    your computer other users connected to the network by setting the computer
    sharing Option.   Click on OK
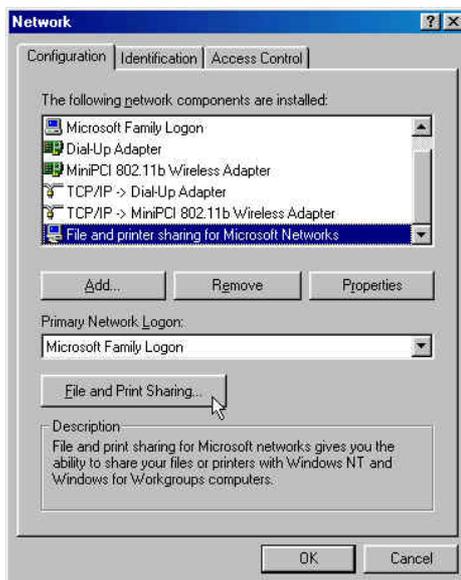
18. Screen message do want to restart your computer will pop up.   Select Yes. It will
    shut down your computer and will restart.

4. Installation Procedure of 56K Mini-PCI Fax Modem Card

1. Start Windows
2. Windows will immediately display the **New Hardware Wizard** and identify the modem.
   Click the Next button.

3. Select the option　Search for the best driver for your device (Recommended) and then click the Next button

4. Please choose Specify a location & insert the installation disk into Floppy or CD-ROM.

Windows will search for driver & display the following screen
Click Next button

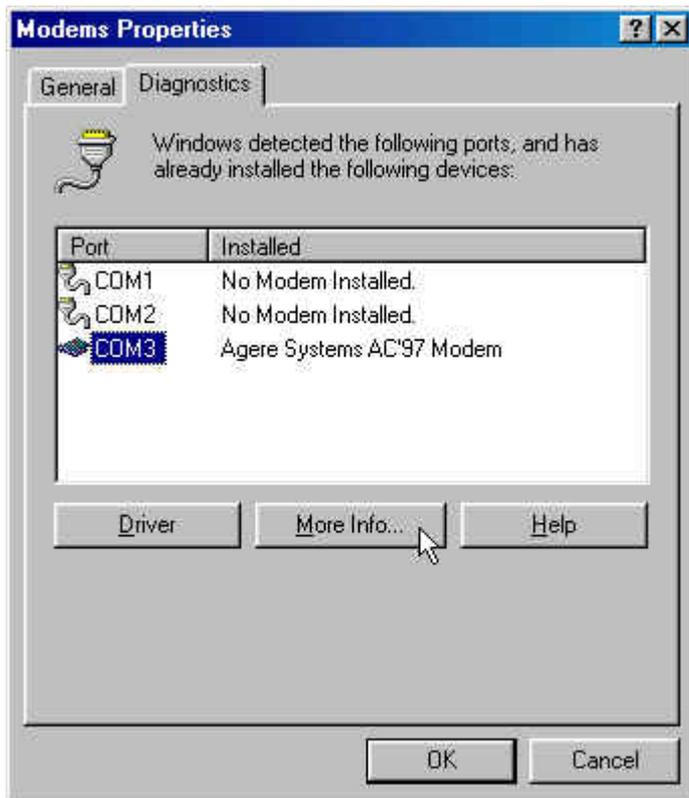5. After the drivers are installed, click "Finish"

After Windows re-starts, you can check your modem by following instructions to checking your 802MR if setup successfully.
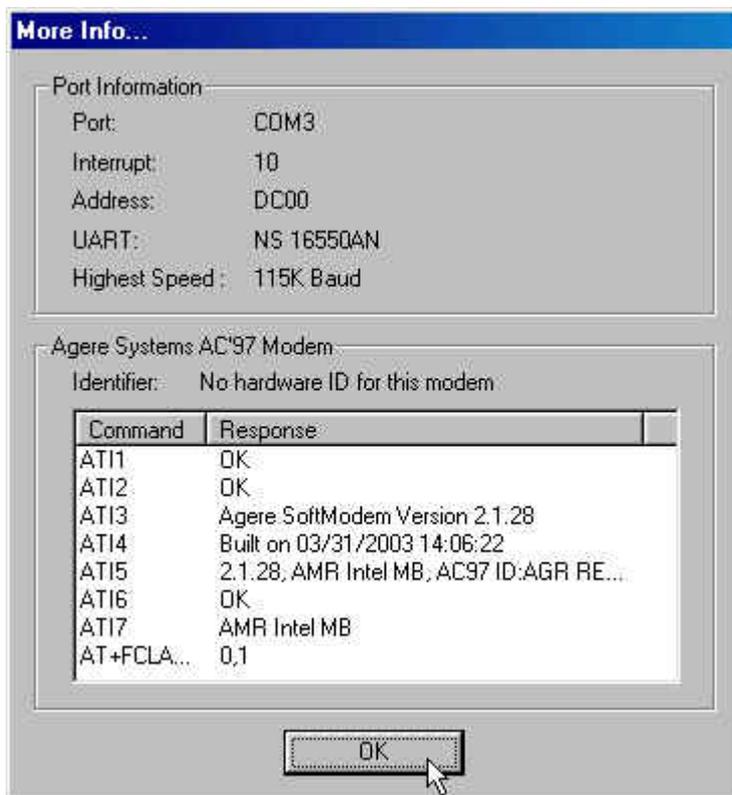
6. Go to **My Computer** ⟶ **Control Panel** ⟶ **Modem**
   The Modem Properties screen will be displayed.

7. Select Diagnostics , choose COM3   Agere systems AC97 Modem
   and click on More Info…

7. The Modem will respond to the following message as screen showed that means your modem installed successfully.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

IMPORTANT NOTE:

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device is intended only for OEM integrators under the following conditions:

1) The antenna must be installed such that 20 cm is maintained between the antenna and users, and
2) The transmitter module may not be co-located with any other transmitter or antenna.

As long as 2 conditions above are met, further <u>transmitter</u> test will not be required. However, the OEM integrator is still responsible for testing their end-product for any additional compliance requirements required with this module installed (for example, digital device emissions, PC peripheral requirements, etc.).

IMPORTANT NOTE: In the event that these conditions <u>can not be met</u> (for example certain laptop configurations or co-location with another transmitter), then the FCC authorization is no longer considered valid and the FCC ID <u>can not</u> be used on the final product. In these circumstances, the OEM integrator will be responsible for re-evaluating the end product (including the transmitter) and obtaining a separate FCC authorization.

End Product Labeling

This transmitter module is authorized only for use in device where the antenna may be installed such that 20 cm may be maintained between the antenna and users (for example :Laptop). The final end product must be labeled in a visible area with the following: " Contains TX FCC ID: QP7-802MR".

Manual Information That Must be Included

The OEM integrator has to be aware not to provide information to the end user regarding how to install or remove this RF module in the users manual of the end product which integrate this module.

The users manual for OEM integrators must include the following information in a prominent location " IMPORTANT NOTE: To comply with FCC RF exposure compliance requirements, the antenna used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.