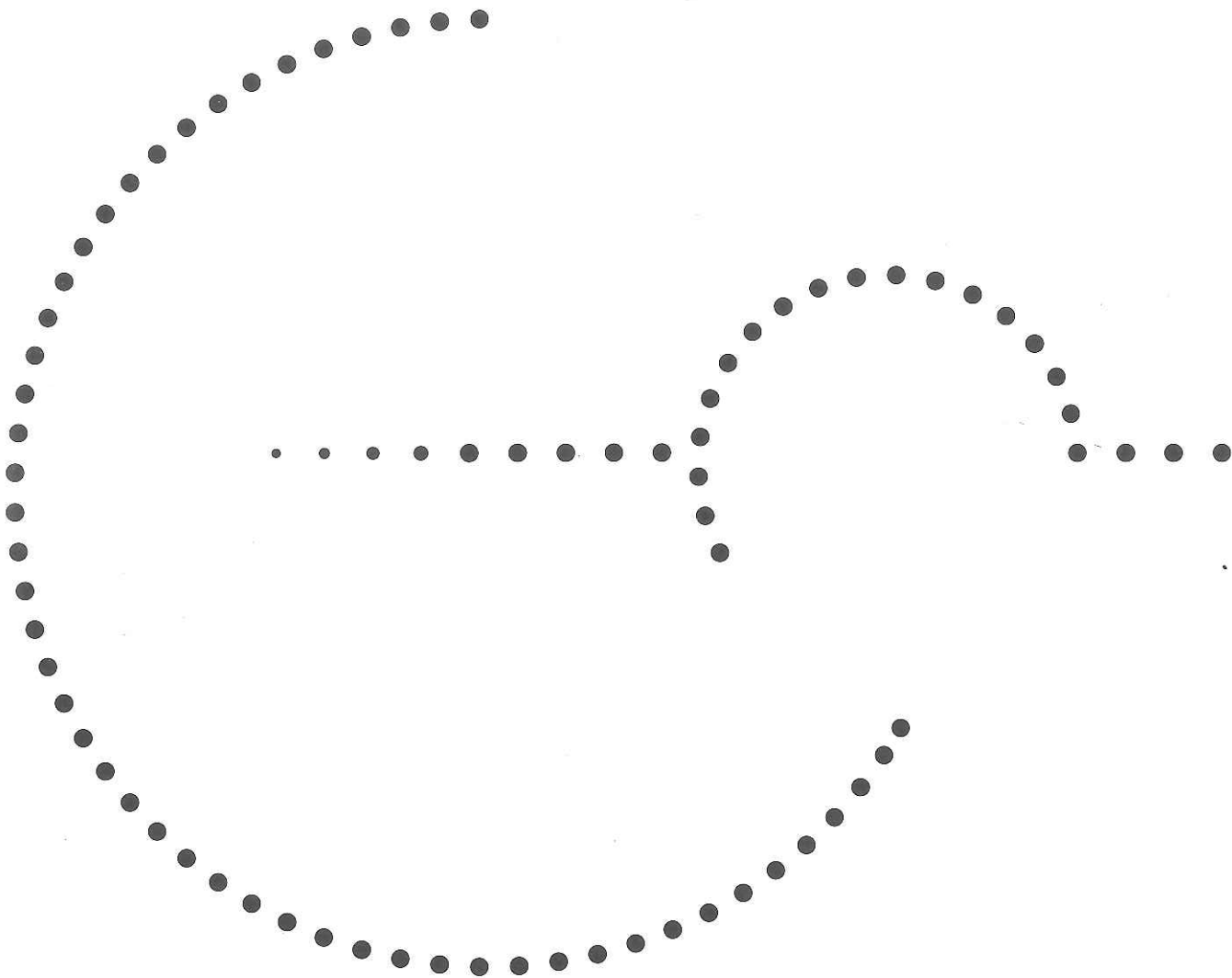


Farallon® PhoneNET® Card PC • LocalTalk
for ISA Bus



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Colophon

This manual was created using a Macintosh IIcx computer, Aldus PageMaker, and Adobe Illustrator '88. Proofs were printed on a LaserWriter II NTX, and camera-ready art was produced on a Linotronic 300.

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PhoneNET[®] Card PC • LocalTalk

The PhoneNET Card PC for LocalTalk is a network adaptor that enables an IBM PC or compatible, or PS/2 with an ISA bus to attach to a PhoneNET[®] LocalTalk network. This manual describes how to configure and install the card. A companion manual, the *PhoneNET Talk[™] User's Guide*, describes installation of the software used with the PhoneNET Card PC.

Once you have connected your PC to the network and installed PhoneNET Talk software, you can access AFP (AppleTalk Filing Protocol) file server volumes, attach network printers, and use other AppleTalk services.

About this manual

In this manual, PC refers to the IBM PC, XT, AT, PS/2 model 25, 30, or 286-30, Compaq 386 up to 25 MHz, or compatibles.

The PhoneNET Card PC was designed for easy installation. If you are not experienced installing cards into your PC, you may want to refer the installation to a dealer or trained service technician.

This manual describes how to connect your PC to an AppleTalk network. If you do not already have an operational network, you will have to do some research. The accompanying *PhoneNET Connector Installation Guide* describes how to design and install a LocalTalk network.

Contents of the package

In addition to this manual, the package includes the following components:

PhoneNET® Card PC: This eight-bit half-size board fits into any ISA slot. The card includes a DB-9 connector for attaching a PhoneNET connector. Leave the card in the anti-static bag until you are ready to install it.

PhoneNET® connector: A LocalTalk-compatible hardware component with circuitry enabling a network device to attach to twisted-pair cabling.

RJ-11 modular extension cable: A cable used to attach a PhoneNET connector to a wall jack or second PhoneNET connector.

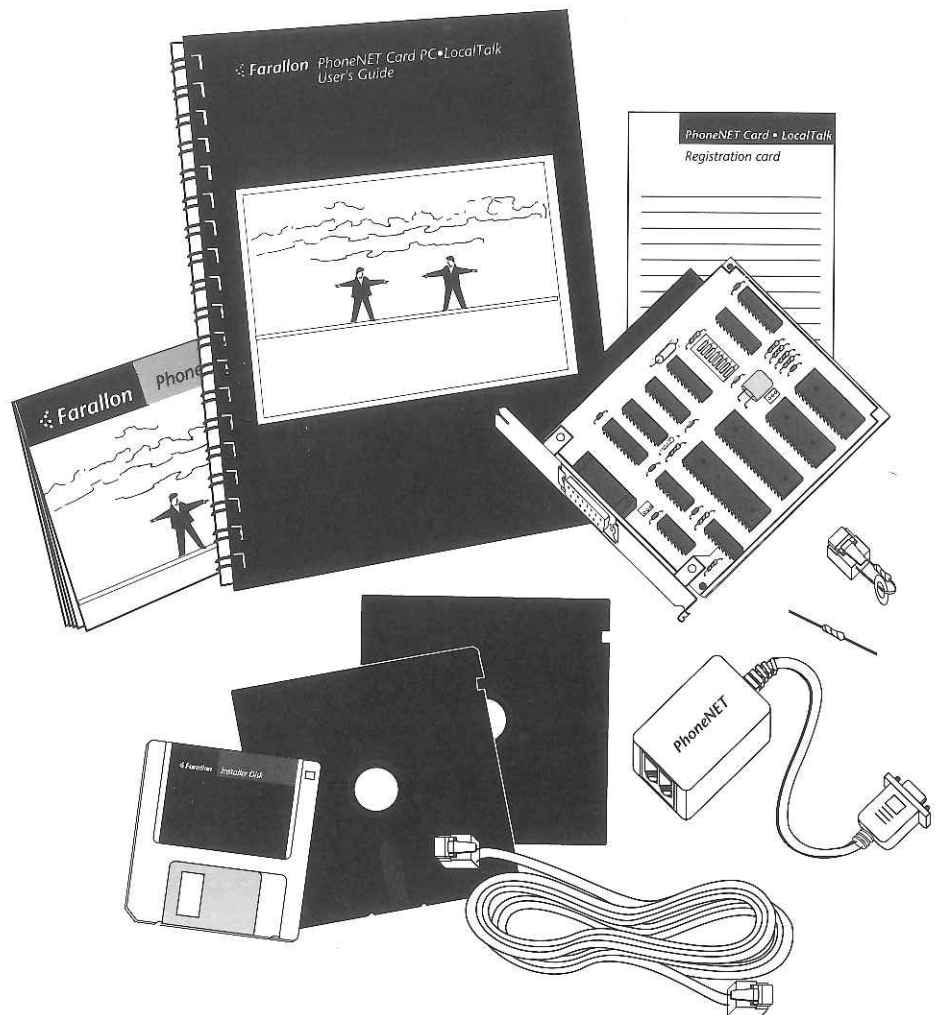
Terminating resistors: The *PhoneNET Connector User's Guide* describes how to properly terminate your network.

Disks: PhoneNET Talk software is included on one 3.5 inch disk. The same software is contained on two 5.25 inch disks.

PhoneNET Talk™ User's Guide: A manual that describes the installation and use of PhoneNET Talk software.

PhoneNET Connector Installation Guide: This manual describes how to design and install a network using PhoneNET connectors and twisted-pair wiring.

Registration card: Please take a moment to fill out the registration card and return it to Farallon.



Necessary equipment

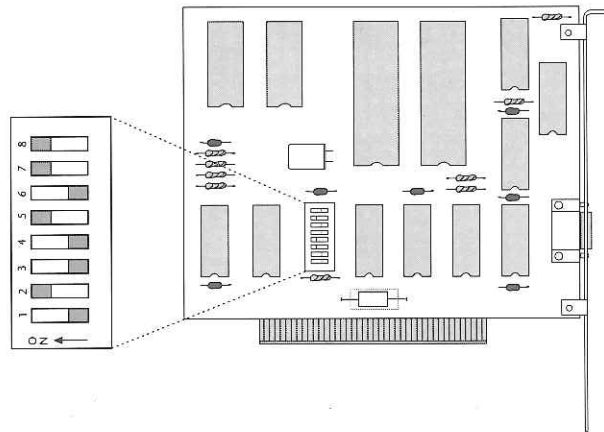
You'll need the following equipment to use the PhoneNET Card PC:

- A PC with at least 384K of RAM
- MS-DOS version 3.1 or later.

Setting DIP switches

Before you install the PhoneNET Card PC, check the on/off settings of the eight DIP switches located on the lower left corner of the card. If you plan to install the PhoneNET Talk software using polled drivers, you probably will not need to change the DIP switch settings and can skip this section.

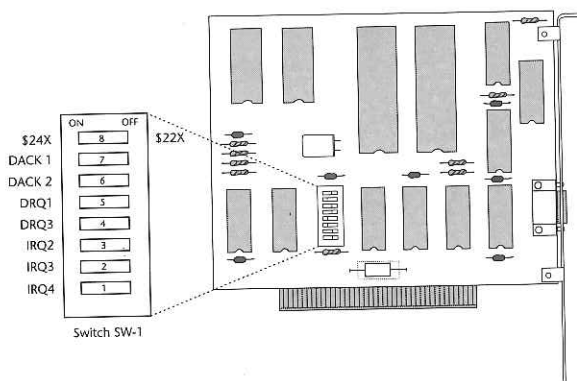
The following illustration shows their proper settings. If they're not set correct, reset them. Use a ballpoint pen or a small screwdriver to move the switches.



The correct settings for the PhoneNET Card DIP switches

DIP switch configuration

The DIP switches on the PhoneNET Card PC let it respond to one of two card I/O port address ranges, to interrupt the PC on one of three priority levels and to use one of two DMA channels. The default switch settings configure the card for DMA channel 1, Interrupt level 3, and address range \$24X. If you already use a service addressed as COM2 and you want to use interrupt mode, you may have to change the switch setting. The following figure shows the DIP switch settings and the table describes the functions of the switches.



Switch	Description	Function
1,2,3	IRQ4,IRQ3,IRQ2	Selects "Interrupt Request (IRQ)" priority level.

Only one of these three switches must be on; the other two must be off. Switch 1 on is IRQ4 (COM1). Switch 2 on is IRQ3 (COM2). Switch 3 on is IRQ2. This determines the priority level at which the card will interrupt the PC. Level 2 has the highest priority, level 4 the lowest. Note: Do not use switch 3 if you have an IBM PC-AT computer.

4,6	DRQ3, DACK3	<p>“DMA Acknowledge” on DMA channel 3 and REQ.</p> <p>Both of these switches must be on and both switches 5 and 7 must be off for the card to communicate with the IBM computer via DMA channel 3.</p>
5,7	DRQ1, DACK1	<p>“DMA request” and “DMA Acknowledge” on DMA channel 1.</p> <p>Both of these switches must be on and both switches 4 and 6 must be off for the card to communicate with the IBM computer via DMA channel 1.</p>
8	\$24x/\$22x	<p>Selects the address range of the card.</p> <p>If this switch is on, the card will respond to control signals sent to addresses in the range \$240 to \$247. If this switch is off, the card will respond to control signals sent to addresses in the range \$220 to \$227.</p>

Installing the PhoneNET Card PC • LocalTalk

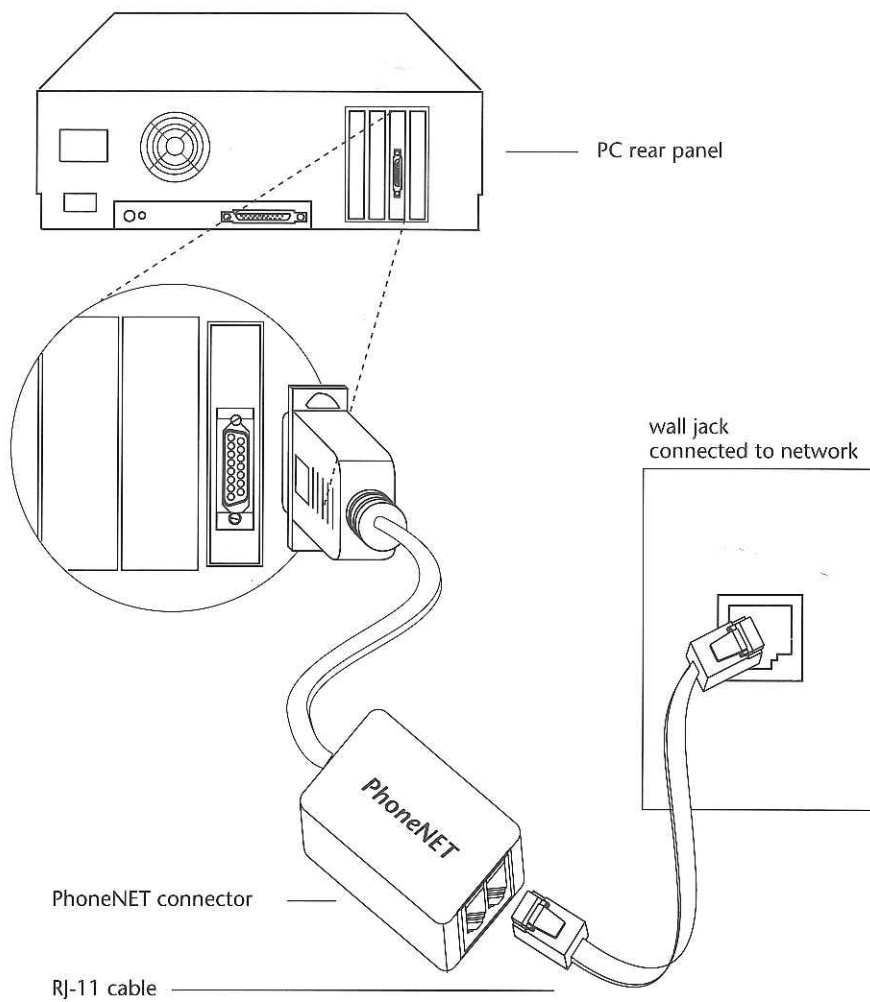
The PhoneNET Card PC is designed to fit into an expansion slot in the PC like other plug-in boards. The instructions below summarize the installation steps. See the instructions that came with your PC for more specific installation instructions.

1. Switch off the computer and unplug the power cord.
2. Remove the cover from the PC.
3. Touch any part of the computer's back frame to remove any static charge from your body.
4. Select any empty slot in the PC and remove the slot cover.
5. Insert the PhoneNET Card PC into the slot and firmly press it into the socket.
6. Secure the board in place by inserting the small screw through the mounting bracket on the card and into the screw hole on the computer frame.
7. Replace the cover back on the PC. You are now ready to attach the PhoneNET connector.

Attaching the PC to the network

The PhoneNET Card PC includes a PhoneNET connector to attach it to the network.

1. Switch the computer off.
2. Attach the DB-9 on the PhoneNET connector to the connector on the back of the PhoneNET Card PC. Tighten the thumbscrews on the DB-9 connector until they are snug.
3. Attach one end of the RJ-11 cable to the PhoneNET connector, and the other end to the wall jack or second PhoneNET connector.
4. Switch on the computer. Refer to the *PhoneNET Talk User's Guide* to install the software.



Technical specifications

System requirements	MS-DOS 3.1 or later 384K memory IBM PC, XT, AT, PS/2 model 25, 30, or 30-286, Compaq 386 up to 25 MHz, or compatibles
Network protocol	AFP (AppleTalk Filing Protocol) compatible
Bus architecture	Industry standard architecture PC bus

Farallon customer service

Farallon Computing is committed to providing its customers with reliable products and excellent technical support. If you have any questions, concerns, or suggestions, please contact Farallon Customer Service by telephone, fax, or mail at:

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You can also reach us online with the network services of CompuServe (ID: 75410,2702), or with America Online, AppleLink, GENie, and MCI Mail (ID for all: FARALLON). Product information and technical notes can be found in the Farallon bulletin boards on America Online, and AppleLink.

Customers in Europe and the Pacific can get service locally by contacting your nearest Farallon reseller or distributor. For a worldwide list of our distributors, see our AppleLink bulletin board or the back page of our product catalog—or contact Farallon directly.

Hardware limited warranty and disclaimer

Farallon Computing, Inc. ("Farallon") warrants the PhoneNET Card PC • LocalTalk device (the "Product") against defects in materials and workmanship for one year from the date of original purchase. If you discover a defect during the warranty period, Farallon will repair or replace the defective Product or refund the purchase price, at its option, provided you comply with the following procedure:

1. Contact Farallon Customer Service no later than thirty days following the end of the warranty period, to obtain a Return Materials Authorization ("RMA") number.
2. Return the defective Product and proof of purchase, shipping prepaid, to Farallon with the RMA number prominently displayed on the outside of the package.

This warranty is exclusive of all others, and Farallon hereby expressly disclaims all implied warranties, including the warranties of merchantability and fitness for a particular purpose. Farallon shall not be liable for special, incidental, consequential, indirect or other similar damages arising from any breach by Farallon of the foregoing warranty, even if Farallon has been advised of the possibility of such damages. This means that we are not responsible for any cost or expense incurred by you, including but not limited to those incurred as a result of lost profits, down time, loss of goodwill, damage to equipment or property, or any costs of recovering, reprogramming, or reproducing any program or data.

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The Last Word

PhoneNET Card PC User's Guide v.191

Farallon Computing welcomes your comments and suggestions for this user's guide. Your input will help us improve the quality of future documentation.

As you read through this manual:

- Did you find any errors?
- Was the information clearly presented?
- Were the illustrations useful? Did you need more examples?
- Can you recommend other relevant reference materials?
- Did you need more information about any particular product feature? If so, which one?
- What features did you like most about this manual?

If you find errors or have suggestions for improvement, please note them here. Feel free to send photocopied pages from this manual with your comments marked on them. If you would like, include your name, address, company, title, and telephone number.

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