



# Apple Data Modem 2400

Ordering Information

Apple Data Modem 2400

Order No. C0002LL/A

With your order, you'll receive:

- Apple Data Modem 2400
- Telephone cord with RJ-11 plug
- AC adapter (power supply)
- Owner's guide
- Limited warranty statement

.....

You will need to purchase appropriate communications software (consult your authorized Apple dealer) and one of the following:

Apple System/Peripheral-8  
Cable (for the Macintosh family of  
personal computers (except the  
Macintosh 512K), and the Apple  
IIgs® and Apple IIc Plus comput-  
ers) Order No. M0197

.....

Macintosh Peripheral-8 Cable  
(for Macintosh 512K  
computers) Order No. M0196

.....

Apple IIc Peripheral-8 Cable  
(for Apple IIc computers) Order No. A2C4313

.....

Apple IIe Modem-8 Cable (for  
Apple II, Apple II Plus, and Apple  
IIe computers, including those that  
have had the Apple IIgs upgrade)  
Order No. A2C0312

---

System Requirements

To use the Apple Data Modem 2400, you'll need the following:

- Any Macintosh® or Apple II computer (If you have an Apple II, Apple II Plus, or Apple IIe, you will also need an Apple Super Serial Card or other compatible serial interface.)

- The appropriate data cable to connect your modem to your Apple computer system
- A standard single-line RJ-11 modular telephone jack
- Appropriate communications software, such as MacTerminal® for Macintosh systems or Access II for

Apple II systems (Consult your authorized Apple dealer for assistance in selecting the most appropriate application for your needs.)

---

Technical Specifications

Communications standards

- 300bps Bell 103
- 1200bps Bell 212A
- 1200bps CCITT V.22A/B
- 2400bps CCITT V.22bis

Error control

- MNP Classes 1-4

Transmission speeds

- 2400bps, 1200bps, 300bps

Dialing capability

- Tone/Pulse (dial)

Maximum serial speed

- 9600bps (modem to computer)

Standard serial interface

- RS422

Data format

- Protocol: Serial binary, asynchronous
- Character length: 7 or 8 bits; 1 or 2 stop bits
- Parity: Odd, even, no parity
- Mode: Full duplex

Command set

- Supports Hayes AT command set with Microcom standard commands for controlling and customizing MNP

Receiver dynamic range

- -10 dBm to -42 dBm

Transmitter level

- -10 dBm + 1 dBm

Registration/Certification

- FCC Parts 68 and 15J
- Canadian DOC

Frequency tolerance

- ± 7 Hz

Bit error rate

- Less than 1 in 10<sup>6</sup> on a 300/2C line

Line monitoring

- Internal speaker with external volume control provided for monitoring call progress

Operating modes

- Auto or manual dial
- Auto or manual answer

Environmental requirements

- Temperature: 32° to 104° F (0° to 40° C)

Electrical requirements

- AC input (United States and Canada) 110V ± 10%, 60Hz
- Power consumption: 7 watts maximum

Size and weight

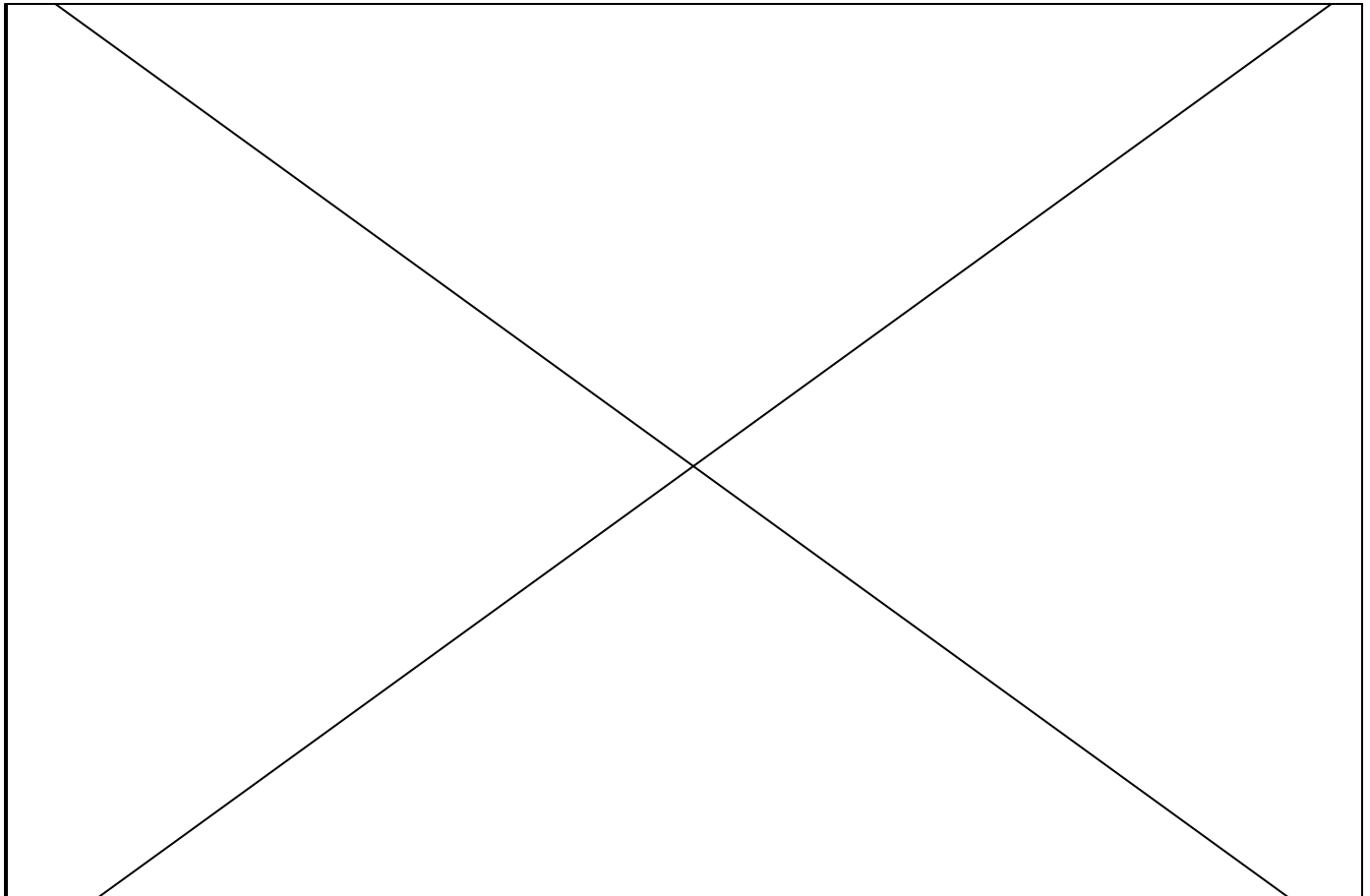
- Height: 2 in. (5.1 cm)
- Width: 4.75 in. (11.6 cm)
- Depth: 8 in. (20.0 cm)
- Weight ~ 1 lb. (.45 kg) excluding transformer

# Features

# Benefits

---

<ul style="list-style-type: none"><li>Standard modulation techniques: Bell 103, Bell 212A, CCITT V.22A/B, CCITT V.22bis</li></ul>	<ul style="list-style-type: none"><li>Connects to any standard data modem.</li></ul>
<ul style="list-style-type: none"><li>Error-correction protocol support: MNP Classes 1-4</li></ul>	<ul style="list-style-type: none"><li>Guarantees error-free transmission when communicating with another MNP modem.</li></ul>
<ul style="list-style-type: none"><li>Variable transmission speeds</li></ul>	<ul style="list-style-type: none"><li>Automatically attempts to connect across a range of speeds—starting at 2400 bps, then moving to 1200 bps, and finally, to 300 bps.</li></ul>
<ul style="list-style-type: none"><li>Supports Hayes AT command set with Microcom standard commands for controlling and customizing MNP</li></ul>	<ul style="list-style-type: none"><li>Allows users to customize the performance of the modem.</li></ul>
<ul style="list-style-type: none"><li>Speaker for monitoring call progress</li></ul>	<ul style="list-style-type: none"><li>Allows the user to hear the dialing process and monitor the success or failure of the remote modem connection.</li></ul>
<ul style="list-style-type: none"><li>Auto answer and dial</li></ul>	<ul style="list-style-type: none"><li>Saves time and effort.</li></ul>
<ul style="list-style-type: none"><li>Pass-through port</li></ul>	<ul style="list-style-type: none"><li>Provides an expansion port for the connection of an additional serial device (such as a printer).</li></ul>



## Overview

---

The Apple® Data Modem 2400 is a standard asynchronous 2400-bps modem that enables users to exchange information with other standard data modems. It can be used to communicate with other personal computers, minicomputers, and mainframes to send reports and graphs between

offices; to access databases and commercial information services; to find out the latest stock prices; or even to shop and bank from home.

The Apple Data Modem 2400 comes with a built-in feature called the Microcom Networking Protocol (MNP) Classes 1-4, which automatically corrects errors that occur while exchanging information over the public

telephone system. Its MNP capability allows the Apple Data Modem 2400 to provide fast and accurate data transmission, even over noisy or low-quality telephone lines, when communicating with another MNP-compatible modem.