



# Tech Info Library

## Macintosh Portable Data Modem 2400: Specifications(Discontinued)

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TOPIC -----

This articles gives the technical specifications for the Macintosh Portable Data Modem 2400.

DISCUSSION -----

### I. Technical Specifications

#### A. Regulatory

1. FCC Registration Number: BCGM0250
2. Ringer Equivalence Number: 0.3B
  - a. The total number of ringer equivalence numbers on any one telephone line cannot exceed 5.0.
3. Canadian Load Number: 9

#### B. Data Format

1. Protocol: Asynchronous
2. Character Length
  - a. 7 data bits
    - 1) Stop bit: 1
    - 2) Parity: Odd, even, fixed: mark/space
  - b. 7 data bits
    - 1) Stop bits: 2
    - 2) No parity
  - c. 8 data bits
    - 1) Stop bits: 1
    - 2) No parity
3. Mode: Full duplex

#### C. Compatibility

1. Subset of Hayes AT modem command set

#### D. Transmission Speeds

1. For all speeds
  - a. Tolerance in character asynchronous format (DTE data rate)
    - 1) +1.0%
    - 2) -2.5%
  - b. Tolerance in modulation rate

- 1) +/- 0.01%
2. 2400 bits per second (bps)
  - a. Standard: V.22bis
  - b. Modulation: Quadrature Amplitude Modulation (QAM)
3. 1200 bits per second (bps)
  - a. Standard: V.22, Bell 212A
  - b. Modulation: Differential phase-shift keying (DPSK)
4. 300 bits per second (bps)
  - a. Standard: Bell 103
  - b. Modulation: Differential phase-shift keying (DPSK)

#### E. Operating Modes

1. Auto dial (including redial)
  - a. Tone: DTMF (Dual-Tone Multi-Frequency--"Touch Tone")
    - 1) Frequency tolerance: +/- 1/0%
    - 2) Tone balance: Within 3dB
  - b. Pulse (Rotary)
    - 1) Dialing duty cycle: 39%/61% or 33%/67% mark/break ratio
    - 2) Dialing rate: 10 pps
2. Auto or manual answer

#### F. Receiver Dynamic Range

1. -10 to -43 dBm, full duplex

#### G. Transmitter Level

1. -10dBm +/- 1dB, fixed as per FCC interconnect specification, Part 68

#### H. Command Buffer

1. 40 characters

#### I. Computer interface

1. 18-pin dual-in-line female connector

#### J. Power Requirement

1. DC input (U.S. and Canada)
  - a. +5.2V +/- 5%
  - b. -5.0V +/- 5%

#### K. Power Consumption

1. Operational mode:
  - a. 750 mW maximum
  - b. 525 mW typical
2. Sleep Mode
  - a. 3 mW maximum

## II. System Configuration

### A. Computer

1. Macintosh Portable

### B. Standard single-line telephone cable with RJ-11 modular jack

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16 March 1994 - Product discontinued-change title.

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