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Macintosh Portable Data Modem 2400: Specifications(Discontinued)

Revised: 6/21/94
Security: Everyone

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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

Article Change History:

16 March 1994 - Product discontinued-change title.

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