Apple Personal Modem: Specifications (Discontinued)

I. Technical Specifications

    A. FCC registration Number: BCG794-12381-DM-E

    B. Ringer Equivalence Number: 0.4B

        -- The total number of ringer equivalence numbers on any one
           telephone line may not exceed 5.0.

    C. Self-test:

        -- The modem executes a brief self-test when first powered up, and
           sounds a short "BEEP" if all tests pass. This test and response
           cannot be disabled.

    D. Data format

        1. Protocol: Asynchronous

        2. Character Length:
           a. 7 data bits:
               1. Stop bits: 1 or 2
               2. Parity: Odd, even, fixed: mark, space, or none
           b. 8 data bits:
               1. Stop bits: 1 or 2
               2. No parity

        4. Mode: Full duplex with echo back

    E. Transmisson speeds:

        1. 1200 baud

           a. Tolerance in character asynchronous format (DTE data rate):
               1. Plus 1.0%
               2. Minus 2.5 %

           b. Tolerance in modulation rate: Plus or minus 0.01%

           -- Frequency Shift Keying (FSK) signal modulation

        2. 0-300 baud

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              -- Phase Shift Keying (PSK) signal modulation

      -- Data and handshaking modes

      -- Automatic adjustment to correct baud rate for receiving

      -- Bell System Tech Reference 412145 - 103 / 212A modem specification

F. Interface: RS-232-C, with mini-circular 8-pin connector

G. Operating modes:

   1. Auto or manual 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 Rate: 10 pps
               2. Dialing Duty Cycle = 40%/60% Mark/Break Ratio

   2. Auto or manual answer

H. Receiver Dynamic Range: -10 to -45 dBm full duplex

I. Transmitter level:

   -- -10bB, fixed
   -- as per FCC Interconnect Specification, Part 68

J. Environmental specifications:

                        Degrees
                 Fahrenheit  Celsius
   1. Operating:    13 to 13    0 to 45
   2. Storage:      -4 to 149  -20 to 65

K. Line monitoring:

   1. Audio
         -- Adjustable volume

   2. Software
         -- Prints status messages to computer

   3. Visual
         -- A single small indicator on the modem lights when the unit is
            "on line", or communicating with another modem. It serves the
            function of a RS-232 DCD (Data Carrier Detect) status
            indicator.

L. Connectors:
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1. Two RJ-11 modular telephone jacks

            -- Either jack can be connected to the telephone line, since the
               modem internally configures itself when it detects the
               telephone system voltage so that the other jack can be used
               for a telephone set.

        2. Detachable head AC plug

        3. Mini-circular 8-pin jack

    M. Compatibilty

        1. Complete set of Hayes modem command instructions

II. System Configuration

    A. Computer

        1. Apple II, Apple II+, or Apple IIe

            -- with Super Serial Card or compatible serial interface

        2. Apple IIc with a serial number of 510,000 or lower

            -- Contact Authorized Apple Dealer for information on a free
               upgrade.

        3. Apple IIc with a serial number greater thatn 510,000

        4. Apple III, Macintosh, Macintosh XL, or Lisa

        5. A computer with an RS-232 port

    B. Interface cable

        -- Shielded cable from Apple (using any other type of cable might
           violate the FCC specification (Class B, Part 15).

        1. For Apple II, Apple II+, IIe, III, or Macintosh XL: 590-0331

        2. For Apple IIc: 590-0332

        3. For Macintosh = 590-0333

    C. Standard single-line telephone outlet with RJ-11 modular jack

    D. Appropriate communications software:

        1. Access II

        2. MacTerminal

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        3. Hayes-compatible programs
Apple Technical Communications


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