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AppleFax Modem: Overview and Firmware

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Overview

The AppleFax Modem allows Macintosh users to send and receive Fax
files/documents with the huge installed base of Fax machines currently used
by most businesses. In addition to its Fax capabilities, the AppleFax Modem
allows 9600 baud file transmission of Macintosh software with other AppleFax
Modem users.

The AppleFax Modem's case is exactly the same size as the Apple 3.5" disk
drive, letting the two products be stacked. The AppleFax Modem is compatible
with Fax Group 3 ONLY (some early-release manuals erroneously\state that the
modem is compatible with Fax Group 2 as well). The firmware in this unit is a
subset of the Hayes-compatible firmware in the Apple Personal Modem.

Availability

The AppleFax Modem will be sold only by authorized Apple Desktop
Communications dealers.

AppleFax Firmware

The command set in the AppleFax Modem firmware is a subset of the Hayes
command set used in the Apple Personal Modem, with some additional Fax only 'S'
registers. The new AppleFax Modem registers are:

- S14   Error Rate / Contains a value that indicates the number of
               erroneous transmissions that occurred in the last 256
               transmissions.

- S32-S64   Modem Chip Set / These registers map to the R96 Fax compatible
               modem chip set contained in the AppleFax Modem as follows:

               Registers S32-47   Bank 0 registers 0..15

The firmware in the AppleFax Modem is compatible enough with the Hayes protocol
that it should run with most communication applications (MacTerminal, for
example) with no problem. This will allow you to transfer Macintosh files, type
messages back and forth with the other AppleFax Modem owner, and in general
become familiar with the command set of this modem.

The communication application must follow these guidelines:

- Handshaking   CTS (Clear To Send) or RTS (Return To Send)
- Local Echo   Echo off
- Duplex   Full duplex
- Bits   8 data bits, 1 stop bit and 1 start bit.
- Baud Rate   9600

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