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Newton MessagePad 100: Specifications (3/94)

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TOPIC -----

This article discusses the technical specifications of the Newton MessagePad 100.

DISCUSSION -----

Newton Recognition Architecture

- Recognizes handwriting: printed, cursive, or mixed-word recognition with the assistance of a 13,000-word built-in word list
- Allow addition of up to 1000 words by user
- Recognizes writing letter-by-letter or word-by-word
- Recognizes graphics and the inherent symmetry in objects
- Allows deferred recognition; can store notes in handwritten for later recognition

Newton Information Architecture

- Object-oriented data storage optimized for storing, finding, and linking small pieces of information
- Easy creation of custom forms applications via the flexible graphical view Toolbox
- Easy data sharing using standard tags
- Object-oriented database provides flexible view of data

Newton Communications Architecture

- Provides single interface for all communication services
- Integrated to support easy communications with minimum setup requirements
- Designed in modules to support new communications capabilities

Intelligent Assistance Architecture

- Assists users in completing repetitive tasks done in multiple categories, including communications, scheduling, finding, and reminding functions
- Contains smart defaults to reduce complexity
- Functions across applications transparently
- Allows extensions by third-party developers

Newton Hardware Architecture

- ARM 610 processor at 20 MHz
- Apple custom system ASIC
- Low-power, reflective LCD display (336 x 240 pixels)
- Transparent tablet with passive pen
- 4MB of ROM
- 640K of RAM
- One PCMCIA Type 2 card slot
- LocalTalk-compatible serial port
- Low-power, half-duplex, infrared transceiver (up to 38.4 kilo bits per second (kbps) at 1 meter)
- Protective screen lid

Communications Capabilities

- Print to Apple LaserWriters and StyleWriters with serial cable and to popular parallel printers using Newton Print Pack
- Fax with optional fax modem (9600 baud fax send, automatic cover-page generation, post-formatting)
- Send notes, name cards and appointments at up to 38.4 kbps within 1-meter (3.28 feet) using high-speed "beaming" via infrared technology
- Handle telephony needs with assistance for intelligent auto dialing (DTMF or modem dialing)
- Receive and store wireless messages using optional Messaging Card*
- Use NewtonMail* to exchange electronic mail with other Newton MessagePad users, as well as with Windows-based and Macintosh computer users with an optional modem

* This service may not be available in all countries

Size and Weight

- Height: 7.25 in. (184.75 mm)
- Width: 4.50 in. (114.3 mm)
- Depth: .75 in. (19.05 mm)
- Weight: .9 lb. (0.4 kg)

Operating Environment

- Temperature: 32 degrees to 104 degrees Fahrenheit (+0 to +40 degrees Celsius)
- Storage temperature: -4 to 117 degrees Fahrenheit (-20 to +60 degrees Celsius)
- Relative Humidity: 20 percent to 90 percent noncondensing

Power Requirements

- Power adapter:
 - Universal, 100 to 240 VAC, 50/60 Hz
 - Four plug configurations: U.S., U.K., Europe, and Australia
- Battery type: alkaline or nickel-cadmium
 - Alkaline output: 6.0V DC, 1.1 WH (nominal)

-- Nickel-cadmium output: 4.8V DC, 200 mAh (nominal)

- Lithium cell: CR2032
- Operating range: 3 V (nominal)
- Power source: Four AAA batteries (included), optional AC adapter or optional Rechargeable Nickel-cadmium Battery Pack

Connecting Kit System Requirements

- Works with PC compatible computers with 80386DX or better processors running Microsoft Windows 3.0 or later, using the Newton Connection Kit for Windows
- Works with Macintosh personal computers with 68030 or faster processors running system software version 7.1 or later, using the Newton Connection Kit for Macintosh

Printer Support

- Built-in printer support for the Apple StyleWriter and StyleWriter II, Personal LaserWriter LS and Personal LaserWriter 300 printers, and Apple PostScript laser printers from the LaserWriter Plus and up
- Works with most popular PC printers, including the Hewlett-Packard LaserJet, Hewlett-Packard DeskJet, Canon BubbleJet, and Epson LQ and FX using the Newton Print Pack option

Fax Machine Support

- Supports Group 3 fax machines

Support Information Services

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