Tech Info Library

Newton MessagePad 110: Specifications (12/94)

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TOPIC -------------------------------------------------------------
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This article discusses the technical specifications of the Newton MessagePad
110.

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DISCUSSION --------------------------------------------------------
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Newton Recognition Architecture

- Recognizes handwriting: printed, cursive, or mixed-word recognition
- 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 round telescopic pen
- 4MB of ROM
- 1MB 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: 8 in. (202 mm)
- Width: 4 in. (106 mm)
- Depth: 1.25 in. (33 mm)
- Weight: 1.28 lb. (.59 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: 6.0V DC, 800 mAh (nominal)
- Lithium cell: DL2032

- Operating range: 3 V (nominal)
- Power source: Four AA batteries (included), optional AC adapter, optional Rechargeable Nickel-cadmium Battery Pack

Connecting Kit System Requirements

- Works with personal computers running Microsoft Windows 3.0 or later, using the Newton Connection Kit for Windows
- Works with Macintosh personal computers 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

Article Change History:
14 Dec 1994 - Corrected the metric weight
09 Mar 1994 - Corrected power source to say four AA batteries, not AAA.

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