Newton MessagePad: Technical Specifications (7/93)

Article Created: 30 July 1993

TOPIC --

This article discusses the technical specifications of the Newton MessagePad.

DISCUSSION ---

Newton Recognition Architecture

• Recognizes handwriting: printed, cursive, or mixed-word recognition
• Recognizes graphics and the inherent symmetry in objects

Newton Information Architecture

• Object-oriented data storage optimized for storing, finding, and linking
  small pieces of information
• Easy creation of custom forms applica tions 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 II card slot
- LocalTalk-compatible serial port
- Low-power, half-duplex, infrared transceiver (9600 baud at 1 meter)

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)
- Beam via infrared technology (send notes, name cards, appointments at 9600
  baud with 1-meter range)
- Handle telephony needs with assistance for intelligent auto dialing (DTMF or
  modem dialing)
- Receive and store wireless messages using optional Messaging Card
- Send and receive NewtonMail to other Newtons, PCs and Macintosh computers
  with optional modem (this service will be available in the fall of 1993.)

Size and Weight

- Height: 7.25 in. (184.75 mm)
- Width: 4.50 in. (114.3 mm)
- Depth: 0.75 in. (19.05 mm)
- Weight: 0.9 lb. (0.4 kg)

Operating Environment

- Temperature: +0 to +40 C
- Storage temperature: -20 to +60 C
- Humidity range: 20 percent to 95 percent RH 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: DL2032
- Operating range: 3 V (nominal)
- Power source: AC adapter (included) or four AAA batteries (included) and
  optional Rechargeable Battery Pack

Connecting Kit System Requirements

- Works with personal computers running Microsoft Windows; requires connector
  cable and version 3.0 or later
- Works with Macintosh personal computers; requires connector cable and system
  7.01 or later

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Printer Support
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• 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
  Print Pack option

Fax Machine Support
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• Supports Group 3 fax machines
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Keywords:  SPECSHT


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