Tech Info Library

PowerBook 165c: Specifications (7/95)

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Revised:        7/20/95
Security:       Everyone


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TOPIC -------------------------------------------------------------

This article provides the specifications for the Macintosh PowerBook 165c
computer system.

DISCUSSION --------------------------------------------------------

Microprocessor
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• Motorola 68030, clock speed 33 MHz
• 68882 math coprocessor, 33 MHz

System Software
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• Requires System 7.1 or later
• PowerBook control panel for setting battery conservation options
• PowerBook Display control panel for activating video mirroring and
  display dimming
• AutoRemounter control panel lets system sleep when connected remote
  file servers
• A System Enabler specifically for the PowerBook 165c

Memory and Storage
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• 4MB pseudostatic RAM, expandable to 14MB maximum
• RAM contents preserved in sleep mode; RAM is lost at shutdown
• One built-in Apple SuperDrive 1.4MB floppy-disk drive that reads,
  writes, and formats Macintosh, MS-DOS, OS/2, and ProDOS disks
• One built-in 80MB or 120MB SCSI hard-disk drive

Display
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• 9-inch (22.6 cm) diagonal backlit passive-matrix liquid-crystal
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- Built-in support for 256 colors from a palette of 4,096 colors
- Two video-out modes:
  - Video mirroring for simultaneous display of the same image on two screens
  - Dual display for full use of both screens
- External Display Options:
  - Macintosh 12-inch Monochrome Display
  - Macintosh 12-inch RGB Display
  - AppleColor High-Resolution RGB Display
  - Macintosh Color Display (14")
  - Macintosh 16-inch Color Display
  - Macintosh Portrait Display (15")
  - Some VGA and SVGA displays

Interfaces

- One power adapter port
- One HDI-30 SCSI port for external SCSI peripheral devices
- Two RS-422 serial ports, one of which is disabled if internal modem is installed
- One ADB (Apple Desktop Bus) port for mouse, keyboard, and so on
- One slot for optional modem
- One video-out port supporting 8-bit density and 256 colors
- Security slot for use with third-party anti-theft and related products

Modems

- Optional internal PowerBook Express Modem:
  - 14,400 bps (bits per second) data
  - fax send and receive at 9600 baud
  - Includes Express Fax software
- Optional internal 2400-bps modem:
  - fax send at 9600 baud
  - Includes Fax send software

Sound

- Apple Sound Chip provides 8-bit sound -- capable of driving stereo headphones or other stereo equipment through the sound port
- Built-in omnidirectional microphone: output voltage 4 mV, peak-to-peak, at normal volume
- One stereo sound-out port for external audio amplifier
- One mono sound-in port, 8-bit sound sampled at 11 or 22 kHz

Keyboard and Trackball

- 63 keys (U.S.) or 64 keys (ISO), standard Macintosh layout, 3.0 mm travel
- Two-level tilt adjustment
- Software indicates Caps Lock on screen
- Built-in 30mm trackball: the two buttons are electrically connected

Clock and Calendar

• CMOS custom chip with long-life lithium battery

Disability Access

• CloseView, Easy Access, and visible beep built in
• Third parties provide alternative input/output devices

Power

• 2.9 AHr NiCad battery (1.5 to 2 hours of battery life)
• Line voltage: 100 to 240 volts (Note: an early product specification sheet
  for this model erroneously states that its line voltage is 110 to 120 V.)
• Frequency: 50 to 60 Hz
• Maximum current draw for all ADB devices: 200 mA
  (maximum of three ADB devices recommended)

Size and Weight

Height   2.29 in. (5.8 cm)
Width   11.25 in. (28.6 cm)
Depth   9.3 in. (23.6 cm)
Weight   7.0 lb. (3.2 kg)

Environment

• Operating temperature: 50 to 104° F (10 to 40° C)
• Storage Temperature: -40 to 65° C (-40 to 148° F)
• Relative humidity: 20% to 80% noncondensing
• Maximum altitude: 15,000 feet (4,722 m)
• Maximum operating altitude: 10,000 feet (3,048 m)

Ordering Information

M4900LL/A   PowerBook 165c 4/80
M4920LL/A   PowerBook 165c 4/120

Article Change History
20 Jul 1995 - Corrected AutoRemounter misspelling; reformatted and reviewed.
05 Apr 1993 - Revised to correct voltage specification.
19 Mar 1993 - Corrected line voltage and math coprocessor name (68882).

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