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PowerBook 550c (Japan Only): Technical Specifications (7/95)

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TOPIC -----

This article provides technical specifications for the Macintosh PowerBook 550c computer.

****NOTE:** This is a product released only in Japan.**

DISCUSSION -----

On May 30, 1995, Apple Japan introduced the PowerBook 550c. The PowerBook 550c features five major changes over the previous PowerBook 500 series computers:

- Uses 66/33 MHz 68040 microprocessor with built-in Floating Point Unit (FPU) - also called a math coprocessor.
- Includes 750 MB internal hard disk drive
- Uses 10.4 inch (264 mm) active matrix color display
- Weighs 6.8 lbs (3.1 kg). Approximately 7 oz. (200 gm) lighter than the PowerBook 540c.
- The entire unit is a dark grey (versus the current duo tone color).

Also, since this is a Japanese Macintosh PowerBook 500 series computer, the keyboard has a Japanese Industrial Standard (JIS) layout.

Microprocessor

- 66/33-MHz 68040 microprocessor (with FPU). (the two speeds refer to the internal processor and bus interface, respectively)
- 32-bit Address and Data bus
- Daughterboard (memory expansion) has a 32-bit bus running at 33MHz

RAM

- 4 MB RAM on logic board.
- Expandable to 36 MB with 70ns low power self-refreshing RAM (Apple 8 MB RAM Expansion Kit, or Third Party higher density RAM card)

Storage

- One built-in 1.4 MB Apple SuperDrive disk drive that uses high-density floppy disks; it reads, writes, and formats Macintosh, MS-DOS, OS/2, and

- . ProDOS disks.
- One internal 750 MB hard disk.

Display/Video Out

- 10.4-inch (diagonal), backlit, active matrix color display
- 640 x 480 pixels, with 256 colors by 400 pixels with thousands of colors
- Sleeps on close
- User-configurable
- External display port (micro DV-14) supports 8-bit video
- External display options:
 - . Macintosh 12" Monochrome Display
 - . Macintosh 12" RGB Display
 - . AppleColor High Resolution RGB Display
 - . Macintosh Color Display
 - . Macintosh 16" Color Display
 - . Macintosh Portrait Display
 - . Some VGA and SVGA monitors (third party adapter required)
- Two video-out modes:
 - Video mirroring for simultaneous display of the same image on two screens.
 - Dual display for full use of both screens.

Networking

- Serial/LocalTalk
- Built-in High Speed Ethernet with Apple AUI connector

System Software

- Requires KanjiTalk System 7.5 or later
- No Enabler is required

Battery

- Nickel-metal-hydrate PowerBook Intelligent Batteries each provide up to . 3.5 hours of use before recharge.
- EverWatch battery-saver technology
- Batteries recharge in two hours when computer is in sleep or shutdown; . four hours when running.
- PowerBook Control Strip allows user to monitor time remaining, charge . time, and battery usage
- Backup rechargeable lithium battery maintains RAM in sleep mode while . main battery is removed for up to three minutes.

Keyboard and Tracking Device

- Built-in keyboard with standard size JIS keyboard with 79 keys including . 12 function keys
- Two-level tilt adjustment
- Power-on key located on Keyboard
- Solid-state trackpad provides precise cursor control in response to the . user's fingertip over its surface

Clock/Calendar

- CMOS custom chip with long-life lithium battery.

Microphone

- Built-in omnidirectional; output voltage is 4 mV, peak to peak, at normal volume

Interfaces

- One Apple Desktop Bus (ADB) port for keyboard, mouse, and other devices.
- One RS-422 serial port for LocalTalk networking, printers, modems, and other devices.
- One high-speed Ethernet port
- One HDI-30 SCSI port for hard disks, scanners, CD-ROM drives, and other devices (up to 6 devices can be chained).
- One slot for optional modem.
- One video-out port, supporting 8 bit density and 256 colors.
- One stereo sound output port for external audio amplifier or headphones.
- One stereo sound-in port.
- Security slot for use with third-party equipment to lock the computer.
- 90-pin processor direct slot (PDS) for connecting PDS devices or optional PowerBook PCMCIA Expansion Module allows use of two Type II or one Type III PCMCIA-type card).
- One RAM slot

Modem

- Optional Apple Express Modem II

Built-in Stereo Sound

- CD-quality, 16-bit stereo sound capable of driving headphones or other stereo equipment.
- Two built-in stereo speakers
- Digital-to-analog and analog-to-digital conversion sampled at 11.035, 22.050, or 44.100 kHz.

Disability Access

- Easy Access and the ability to substitute visual cue for beep included with system software. These built-in solutions and third-party options provide alternative input and output devices for people with disabilities.

ADB Power Requirements

- Maximum current draw for all ADB devices is 200 mA (a maximum of three ADB devices is recommended)

Electrical Requirements

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- Line voltage: 100 to 240 volts, 50 to 60 Hz

Environmental Requirements

- Operating temperature: 50 to 104° F (10 to 40° C)
- Storage Temperature: -13°F to +140°F (-25 to +60° C)
- Relative humidity: 20% to 80% noncondensing
- Altitude: max. 10,000 ft. (3,048 m)
- Maximum Storage Altitude: 15,000 ft. (4,722 m)

Size and Weight

- Height: 2.3 in. (5.7 cm)
- Width: 11.5 in. (29.2 cm)
- Depth: 9.7 in. (24.5 cm)
- Weight: 6.8 lb. (3.1 kg)

Noise Level

- Noise free except for disk drive use.

Security

- Slot for security cable

Ordering Information

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PowerBook 550c 12/750

Order No. M4286J/A

- PowerBook 550c computer with 12 MB of RAM, built-in 1.4 MB Apple SuperDrive, and internal 750 MB hard disk drive
- Two PowerBook Intelligent Batteries and AC adapter
- KanjiTalk 7.5 CD-ROM
- Complete setup, learning, and reference documentation
- Training software
- Limited warranty
- PowerBook Mobility Bundle

PowerBook 8 MB Memory Expansion Kit

Order No. M1913LL/A

PowerBook Intelligent Battery

Order No. M1908LL/A

PowerBook AC Adapter

Order No. M1910J/A

PowerBook PCMCIA Expansion Module

Order No. M2995J/A

Apple HDI-30 SCSI Disk Adapter

Order No. M2539LL/A

Apple HDI-30 SCSI System Cable

Order No. M2538LL/A

PowerBook Express Modem II Kit

Order No. M1953J/A

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