



Technical Information

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Specifications for Macintosh LC 580 computers

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Main unit

Processor

- 68LC040, 32-bit architecture, 66/33-MHz clock frequency (includes built-in memory management unit), upgradable to PowerPC

Memory

- Minimum of 4 megabytes (MB) of random access memory (RAM), expandable to 52 MB
- 1 MB of read-only memory (ROM)
- 256 bytes of parameter memory

Video RAM

- 1 MB DRAM; can display thousands of colors (16-bit color)

Disk drives

- Built-in Apple SuperDrive 1.4 MB floppy disk drive
- Internal IDE hard disk drive (several capacities available)
- Optional external SCSI hard disk drives (several capacities available)
- Optional internal CD-ROM drive

Video display

- Built-in 13-inch diagonal, high-resolution, .28-mm dot pitch shadow-mask, color, 640-by-480-pixel, bitmapped display

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Interfaces

- Apple Desktop Bus (ADB) port for keyboard, mouse, and other devices
- Two RS-232/RS-422 serial ports, 230.4 kilobits (Kbits) per second maximum (up to 920 Kbits per second if clocked externally), for serial printers, modems, and other serial devices and AppleTalk networks
- SCSI interface for SCSI hard disks and other SCSI devices
- Sound output port capable of delivering 8-bit stereo sound
- Front headphone jack capable of delivering 8-bit stereo sound
- Integrated stereo speakers capable of delivering 8-bit stereo sound
- Integrated microphone for monaural sound input
- Sound input port for monaural sound input
- Internal expansion slot for processor-direct expansion card
- Additional communication port for an optional modem port or high-speed networking port
- Video-in slot for optional expansion card providing real-time video display, video capture, and overlay (60-pin)
- Monitor-out port for use with optional DB-15 connector

Sound generator

- Records at 11-kHz or 22-kHz sample rate
- Plays back at 11-kHz or 22-kHz sample rate
- Two speakers with enhanced stereo sound
- Allows playing of ordinary audio compact discs with optional CD-ROM drive

Input

- Line voltage: 100 to 240 V AC, RMS automatically configured
- Frequency: 50 to 60 Hz \pm 3 Hz single phase
- Power: 120 W maximum

Laser (in optional CD-ROM drive)

- Semiconductor GaAlAs type
- 790 +/- 25 nanometers wavelength
- 0.2 milliwatt output
- 55° beam divergence

Additional features

- Front panel push-button controls for volume and contrast
- Power on and off from keyboard

Clock/calendar

- CMOS custom chip with battery

Fan

- Operational flow: 9 to 12 CFM axial

Keyboard

- Supports all Apple Desktop Bus (ADB) keyboards

Mouse

- Apple Desktop Bus Mouse II: mechanical tracking, optical shaft, or contact encoding

Size and weight

Weight	Height	Width	Depth
Main unit			
18.4 kg	443.4 mm	344 mm	419.8 mm
40.5 lb.	17.45 in.	13.5 in.	16.5 in.
Mouse			
0.10 kg	33 mm	61.7 mm	107.3 mm
4 oz.	1.3 in.	2.4 in.	4.2 in.
Keyboard			
0.89 kg	32.5 mm	405.3 mm	150.6 mm
1.96 lb.	1.3 in.	16.0 in.	5.9 in.

Apple Desktop Bus power requirements

- Maximum power draw for all ADB devices is 500 milliamperes (mA)
- Mouse draws 10 mA
- Keyboard draws 25 mA

Note: The maximum number of ADB devices recommended in a daisy-chain connected to the ADB port is three.

RAM configurations

RAM for your Macintosh is provided both on the logic board (4 MB) and in packages called Single Inline Memory Modules, or SIMMs. The SIMMs contain dynamic RAM chips on a single circuit board, with electrical “finger” contacts along one edge that plug into the SIMM socket on the computer’s logic board.

Your Macintosh can work with any of several RAM configurations, depending on the density of the RAM chips that are mounted on the SIMM. Your Macintosh can use only a 1, 2, 4, 8, 16, or 32 MB RAM SIMM.

The logic board in your Macintosh has two SIMM slots. One can accommodate a double-sided SIMM with a capacity of up to 32 MB. The other can accommodate only a single-sided SIMM with a capacity of up to 16 MB.

IMPORTANT SIMMs for your Macintosh should be fast-paged mode 80-nanosecond (ns) RAM access time or faster. The slower 100-ns, 120-ns, and 150-ns SIMMs available for some other models of Macintosh computers will not work in your Macintosh. Your Macintosh uses a 72-pin DRAM SIMM.

WARNING To avoid damage to your computer, Apple recommends that only an Apple-certified technician install additional RAM. Consult the service and support information that came with your computer for instructions on how to contact an Apple-authorized service provider or Apple for service. If you attempt to install additional RAM yourself, any damage you may cause to your equipment will not be covered by the limited warranty on your computer. See an Apple-authorized dealer or service provider for additional information about this or any other warranty question.

Microphone

- The internal microphone is an electret type, omnidirectional microphone that is powered by the computer.

Environment

Operating temperature

- 10° C to 40° C (50° F to 104° F)

Storage temperature

- -40° C to 47° C (-40° F to 116.6° F)

Relative humidity (operating)

- 20% to 95% (noncondensing)

Altitude

- 4572 m (15,000 ft.) maximum (non-operating)
- 3048 m (10,000 ft.) maximum (operating)