



# Technical Information

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*Specifications for Macintosh LC 550 computers*

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# Technical Information for the Macintosh LC 550

## Specifications

### Main unit

#### Processor

- MC68030, 32-bit architecture, 33-megahertz (MHz) clock frequency (includes built-in memory management unit)
- provides internal socket for an optional floating-point unit

#### Memory

- 4 megabytes (MB) of random-access memory (RAM), expandable to 36 MB
- 1 MB of read-only memory (ROM)
- 256 bytes of parameter memory

#### Video RAM

- 512K video RAM (VRAM), upgradable to 768K
- With 512K VRAM, you can display up to 256 colors (8-bit color).
- With 768K VRAM, you can display thousands of colors (16-bit color).

#### Disk drives

- Built-in Apple SuperDrive 1.4 MB floppy disk drive
- Internal 40, 80, or 160 MB Apple SCSI hard disk drive
- Optional external SCSI hard disk drives (several capacities available)
- Optional internal CD-ROM drive

## **Video display**

- Built-in 14-inch diagonal, high-resolution Trinitron® color, 640-by-480-pixel, bitmapped display

## **Interfaces**

- Two Apple Desktop Bus (ADB) ports 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 stereo sound
- Front headphone jack capable of delivering stereo sound
- Sound input port for monaural sound input
- Internal expansion slot for processor-direct expansion card

## **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

## **Input**

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

## **Clock/calendar**

- CMOS custom chip with long-life lithium battery

## Fan

- Operational flow: 9 to 12 CFM axial

## Keyboard

- Supports all Apple Desktop Bus keyboards

## Mouse

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

## Size and weight

Weight	Height	Width	Depth
<b>Main unit</b>			
18.4 kg	443.4 mm	344 mm	419.8 mm
40.5 lb.	17.45 in.	13.5 in.	16.5 in.
<b>Mouse</b>			
0.10 kg	33 mm	61.7 mm	107.3 mm
4 oz.	1.3 in.	2.4 in.	4.2 in.
<b>Keyboard</b>			
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 in the Macintosh LC 550 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.

Macintosh LC 550 computers can work with any of several RAM configurations, depending on the density of the RAM chips that are mounted on the SIMM. The Macintosh LC 550 can use only a 1, 2, 4, 8, 16, or 32 MB RAM SIMM.

**IMPORTANT** Macintosh LC 550 SIMMs should be fast-paged mode 80 nanoseconds (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 the Macintosh LC 550. The Macintosh LC 550 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)



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