# Macintosh LC II: Specifications (Discontinued 3/93)

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

This article gives technical specifications for the Macintosh LC II
computer.

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

Processor
---------
- MC68030, 32-bit architecture, 15.6672 megahertz (MHz) clock frequency
  (includes built-in memory management unit).

Memory
------
- 4MB RAM, expandable to 10MB
- 512K of read-only memory (ROM)
- 256 bytes of parameter memory (PRAM)

Video RAM
---------
- 256K video RAM (VRAM), upgradable to 512K
- With 256K video RAM, these video modes are supported:
  - 512 x 384 pixels with 1, 2, 4, and 8 bits per pixel
  - 640 x 480 pixels with 1, 2, and 4 bits per pixel
- With 512K video RAM, these video modes are supported:
  - 512 x 384 pixels with 1, 2, 4, 8, and 16 bits per pixel
  - 640 x 480 pixels with 1, 2, 4, and 8 bits per pixel

Disk Drives
-----------
- Built-in Apple SuperDrive 1.4MB high-density floppy disk drive
- Internal SCSI hard disk drive (several capacities available;
  optional if you're upgrading)
- Optional external SCSI hard disk drives (several capacities available)

Sound Generator
---------------
Custom sound chip, including mono sampling generator capable of driving
stereo miniature phone jack headphones, or stereo equipment by sending the
same output into each channel.

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Power Input
-----------
- Line voltage: 100-240 volts AC, RMS automatically configured
- Frequency: 50-60 Hz ±3 Hz single phase
- Power: 50 watts maximum, not including monitor power


Clock/Calendar
--------------
CMOS custom chip with long-life lithium battery


Interfaces
----------
- One Apple Desktop Bus port supports a keyboard, mouse, and other devices
  daisy-chained through a low-speed, synchronous serial bus (maximum of
  three chained devices)
- Two serial (RS-232/RS-422) ports, 230.4 kilobits per second maximum
  (up to 0.920 megabits per second if clocked externally)
- SCSI interface
- Video port supports RGB and monochrome monitors of various sizes and
  resolutions
- Internal expansion slot for processor-direct expansion card
- Sound output port capable of delivering monophonic sound to both
  channels of a stereo device
- Sound input port for monaural sound input


Monitors
--------
- Supports the following monitors:
  - Macintosh 12-inch RGB Display
  - Macintosh 12-inch Monochrome Display
  - AppleColor High-Resolution RGB Monitor


Keyboards
---------
Supports all Apple Desktop Bus (ADB) keyboards


Mouse
-----
ADB mouse: either mechanical tracking, optical shaft, or contact encoding


Apple Desktop Bus Power Requirements
------------------------------------
- Maximum power draw for all ADB devices: milliamperes (mA)
- Mouse draws 80 mA
- Keyboard draws 25-80 mA (varies with the keyboard model used)


Note:  Up to three ADB devices can be daisy-chained to the ADB port.


RAM Configurations
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RAM in the Macintosh LC II is provided both on the logic board and in
packages called Single In-line Memory Modules, or SIMMs.  The SIMMs contain
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dynamic RAM chips on a single circuit board, with electrical "finger"
contacts along one edge that plug into the SIMM sockets on the computer's
logic board.

Macintosh LC II can work with any of several RAM configurations, depending
on the density of the RAM chips that are mounted on the SIMMs.  The
Macintosh LC II can use only 1, 2, or 4MB RAM SIMMs.  Don't purchase 256K
SIMMs for use with the Macintosh LC II.  Possible RAM configurations
include 4, 6, 8, and 10MB.

Important: Macintosh LC II SIMMs should be fast-paged mode 100 nanoseconds
(ns) RAM access time or faster.  The slower 120 ns and 150 ns SIMMs
available for some other models of Macintosh computers DO NOT work in the
Macintosh LC II.

Microphone/Sound
----------------
The microphone is an electret type, omnidirectional microphone that is
powered by the computer.  Microphone output voltage is 4 millivolts (mV)
peak-to-peak at normal speaking volume.

Note:  You can also use adapters to input sound from audio equipment with
line level outputs, but the line level signals must be attenuated before
reaching the computer's sound input port.  An attenuation of 500:1 is
recommended when inputting line level signals.  Appropriate attenuation
cables and adapters are available from electronics stores.

Size and Weight
---------------
- Main Unit
  Weight: 8.8 lb. (4.0 kg)
  Height: 3.0 inches (77 mm)
  Width: 12.2 inches (310 mm)
  Depth: 15.0 inches (382 mm)
- Mouse
  Weight: 6 oz. (0.17 kg)
  Height: 1.1 inches (27.9 mm)
  Width: 2.1 inches (53.3 mm)
  Depth: 3.8 inches (96.5 mm)
- Keyboard
  Weight: 2 lb. (1 kg)
  Height: 1.8 inches (44 mm)
  Width: 16.5 inches (418 mm)
  Depth: 5.6 inches (142 mm)

Environment
-----------
- Operating temperature
  10 degrees C to 40 degrees C (50 degrees F to 104 degrees F)
- Storage temperature
  -40 degrees C to 47 degrees C (-40 degrees F to 116.6 degrees F)
- Relative humidity
  0% to 80% (noncondensing)

Altitude
  0 to 3048 m (0 to 10,000 ft.)


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