



Technical Information

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Specifications for the Macintosh LC 630 DOS Compatible

Technical information for the Macintosh LC 630 DOS-compatible computer

General specifications

Main unit

Processor

- 68040, 66/33 megahertz (MHz) clock frequency with built-in floating-point unit (FPU) (follows IEEE standards)

Memory

- 8 MB dynamic random-access memory (DRAM) on board
- 2 72-pin DRAM Single Inline Memory Module (SIMM) sockets for expansion RAM to 52 MB (80 ns)
- 1 MB read-only memory (ROM)
- 1 MB video memory

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 Apple product 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.

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Disk drives

- Apple SuperDrive 1.4 MB with auto-eject
- IDE hard disk (various sizes available)
- Optional internal CD-ROM drive

Compatible monitors

These monitors are supported by the computer's monitor port:

- 12-inch Apple Monochrome Monitor
- 13-inch AppleColor High-Resolution RGB Monitor
- Macintosh Color Display
- Apple Color Plus 14-inch Display
- Apple AudioVision 14 Display
- Apple Multiple Scan 15 Display
- Apple Multiple Scan 17 Display

The computer is strong enough for you to place any of these monitors on top of it.

Video modes in the PC environment

- VGA and SVGA modes for 640 x 480 and 800 x 600 pixels
- supports all VGA monitors
- EGA, CGA, MDA also supported



Sound

- 8-bit monophonic sound input
- 8-bit stereophonic sound output (16-bit CD stereophonic playback)
- Sound input port for optional microphone or line input
- Two sound output ports, level nominally 0.5 volts RMS into 39 ohms
- Internal speaker, muted whenever a plug is inserted into either sound output port

Clock/calendar

- CMOS custom chip with battery

Keyboard

- Supports all Apple Desktop Bus (ADB) keyboards

Additional interfaces

- ADB port for keyboard, mouse, and other input devices using a low-speed, synchronous serial bus
- Two serial ports for printers, modems, and other serial devices
- Monitor port (DB-15 connector)
- High-performance SCSI port allows a chain of up to six external hard disk drives, scanners, printers, and other devices
- LC-compatible 68030 processor-direct slot (96/114-pin) with installed DOS-compatibility card
- Communication slot for optional modem or Ethernet card (112-pin)
- Video input slot for optional expansion card providing real-time video display, video capture, and overlay (60-pin)
- Port for optional internal TV tuner expansion card

Additional features

- Support for optional infrared remote control
- Front panel push-button controls for volume
- Front panel stereo headphone jack
- Power on and off from keyboard and optional remote control

Laser (in CD-ROM drive)

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

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: 10% RH to 90% noncondensing
- Non-operating: 5% RH to 95% noncondensing

Altitude

- Operating: -1,000 to 10,000 feet
- Non-operating: -1,000 to 40,000 feet

Weight

- 7.7 kg (17 lb.) without CD-ROM drive
- 8.6 kg (19 lb.) with CD-ROM drive

Note: The weight varies depending on the options you purchase.

Dimensions

- 320 mm x 419.5 mm x 109.5 mm (12.6" x 16.5" x 4.3")

Apple Desktop Bus power requirements

- Maximum current draw for all ADB devices is 500 mA.
 - Mouse draws up to 10 mA.
 - Keyboard draws 25–80 mA (varies with model).

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

A/C line input

- Line voltage: 100–240 volts AC, RMS, single-phase, nominal
- Frequency: 50–60 Hz
- Power consumption: 45 watts maximum, not including monitor

Built-in DOS-compatibility card

Description

- 7-inch two-card set compatible with processor-direct slot and 68040 processor socket of the Macintosh LC 630 (installed)

Processor

- 486 DX2, 66 MHz microprocessor

Power

- +5 volts, ± 12 volts
- 10 watts maximum

Expansion RAM

- 4 MB DRAM installed in one 72-pin DRAM SIMM socket; expandable to 32 MB (80 ns or less)

DMA

- one 32-bit DMA channel supports peripheral transfers to local memory
- DMA for shared-memory support provided through Mac OS system software

Networking

- open Data-Link Interface (ODI) driver supports IPX and TCP/IP protocols in the PC environment

Sound

- PC sound played through Macintosh speaker or headphones
- enhanced sound-out capabilities supported through Sound Blaster 16™ - compatible expansion card (included)

Keyboard

- Macintosh ADB keyboard and mouse emulate PC AT-compatible keyboard and PS/2-compatible mouse

Joystick

- standard PC-style joysticks supported through DB-15 connector on the DOS-compatibility card (PC application programs only)

Serial ports

- Macintosh serial ports can emulate two 16450-compatible serial interfaces

Parallel port

- Macintosh printer port can emulate PC XT/AT-compatible parallel port (LPT1) supporting PostScript™, Epson, and Hewlett-Packard PCL printer drivers